



Updated Commitments Tracking Table

Kinder Morgan Canada Inc.  
Version 3 - July 22, 2015

Due Date Column identifiers

“Prior to Construction” - To be completed prior to Construction of specific facility or relevant section of pipeline  
“During Construction” – To be completed during Construction of specific facility or relevant section of pipeline  
“Prior to Operation” – To be completed prior to commencing operations  
“Operations” – To be completed after operations have commenced  
“Project Lifecycle” - Ongoing commitment

Status Column Identifiers

"Scoping" - Work has not commenced  
"In Progress" - Work has commenced or is partially complete  
"Superseded by Condition" - Commitment has been superseded by NEB condition  
"Complete" - Commitment has been met

#	Responsibility for Commitment	Commitment made to		Commitment Description	Document Reference(s) Source(s) of Commitment	Commitment Status	Project Stage for Implementation of Commitment	Additional Comments
		NEB	Intervenor					
8	Aboriginal Engagement		Adams Lake Indian Band	Engagement with Aboriginal groups will continue during and after the regulatory process. Should the Project get approval ongoing engagement with Aboriginal groups will continue during construction.	ALIB_IR_No._1.6.06b	In Progress	Project Lifecycle	
597	Aboriginal Engagement		Adams Lake Indian Band	Trans Mountain is committed to further engagement with the Adams lake Indian Band (ALIB) to discuss ideas regarding an offset plan should it be required.	ALIB_IR_No._2.03.11	Scoping	Project Lifecycle	
600	Aboriginal Engagement		Adams Lake Indian Band	Trans Mountain commits to further engagement with the Adams Lake Indian Band (ALIB) in regard to the plans, programs, initiatives and timelines outlined in ALIB_IR No. 2.06.5a.	ALIB_IR_No._2.06.5b	Scoping	Prior to Construction	
2	Aboriginal Engagement		Coldwater Indian Band	Trans Mountain will not pursue on-Reserve routing options without the express consent of the Aboriginal community.	CIB_IR_No._1.11	In Progress	Prior to Construction	This commitment was made to all Reserve routing situations
551	Aboriginal Engagement		Environment Canada	Trans Mountain will work with potentially affected local Aboriginal and Metis communities identified by Parks Canada.	GoC_EC_IR_No._2.141	In Progress	Project Lifecycle	
697	Aboriginal Engagement		Horse Lake First Nation	Trans Mountain is committed to continued engagement with Aboriginal groups that are interested in providing traditional knowledge as it relates to the location and construction of the Trans Mountain Expansion Project and will continue to discuss proposed mitigation and enhancement measures.	Horse_Lake_FN_IR_No._2.2	Scoping	Prior to Construction	
691	Aboriginal Engagement		Metis Nation of Alberta Gunn Metis Local 55	Metis Nation of Alberta Gunn Metis Local 55 will be informed and consulted regarding all sacred sites that may be discovered during construction of the Project through their traditional territory.	Gunn_Métis_Local_55_IR_No._2.29	Scoping	During Construction	
896	Aboriginal Engagement		Stó:lô Collective	Trans Mountain is committed to working in partnership with the Stó:lô Collective to develop a series of workshops to discuss questions and address concerns. The workshop series will be confirmed in Q1, 2015.	Sto_Lo_Collective_IR_No._2.1.3	In progress	Prior to Construction	EPP workshops will be held prior to Construction
1	Aboriginal Engagement		Upper Nicola Band	Trans Mountain will contact Upper Nicola to arrange a mutually agreeable time to discuss Upper Nicola’s “Consultation and Policy Principles” (Draft 8, December 2, 2014).	Upper_Nicola_Band_IR_No._2(c).2(m)	Scoping	Prior to construction	Annie Korver (June 15, 2015): The policy was in fact received (we noted this in our motion
3	Aboriginal Engagement	NEB		Trans Mountain will develop a series of technical learning sessions for TTML to attend. These sessions are being designed to facilitate open conversation between members of TTML, and Trans Mountain’s technical discipline experts regarding the Project’s impacts on TTML’s interests.	NEB_IR_No._3.9	In Progress	Prior to Construction	
698	Aboriginal Engagement; Construction		Horse Lake First Nation	Trans Mountain will notify Horse Lake First Nation of the construction schedule in the vicinity of their community two weeks prior to the start of construction.	Horse_Lake_FN_IR_No._2.3	Scoping	Prior to Construction	
854	Aboriginal Engagement; Engineering		Stk'emlupsemc Te Secwepemc Nation	Trans Mountain will consult with the SSN on access control measures within the SSN territory.	SSN_IR_No._2.32	Scoping	Prior to construction	
936	Aboriginal Engagement; Environment		Tsawout First Nation	Trans Mountain will continue to engage with Tsawout First Nation, with any additional site-specific mitigation measures resulting from this engagement being provided in the updated Environmental Protection Plans. Any additional information that Tsawout First Nation is able to provide to Trans Mountain, will also be considered in Project planning and design.	Tsawout_FN_IR_No._2.55b	Scoping	Project Lifecycle	EPP workshops will be held prior to Construction
938	Aboriginal Engagement; Environment		Tsawout First Nation	Trans Mountain is prepared to meet with the Tsawout First Nation following receipt of its TRMU to review the findings of the report. Trans Mountain is willing to review and incorporate any appropriate mitigation measures into the updated environmental protection plans that have not already been captured.	Tsawout_FN_IR_No._2.65d	Scoping	Project Lifecycle	
937	Aboriginal Engagement; Environment		Tsawout First Nation	Trans Mountain will continue to engage Tsawout First Nation through all phases of the Project. Traditional resource use information received from Tsawout First Nation will be reviewed in order to confirm literature results and mitigation measures including those found in the Environmental Protection Plans . Any additional site-specific mitigation measures resulting from these studies will be provided in the updated Environmental Protection Plans.	Tsawout_FN_IR_No._2.56a	Scoping	Project Lifecycle	

7	Aboriginal Engagement; Environment	NEB		Trans Mountain will review and consider concerns raised by Aboriginal communities regarding the roles and responsibilities of the Aboriginal Monitors	NEB_IR_No._1.22e	In Progress	Prior to construction	
466	Aboriginal Engagement; Environment	NEB		Trans Mountain will work diligently with the affected First Nations and will advise the Board on or before May 1, 2015 as to whether an agreement regarding on-reserve routing has been reached.	NEB_IR_No._3.17a	In Progress	1-May-15	
488	Aboriginal Engagement; Environment	NEB		Trans Mountain will continue dialogue with all Aboriginal communities, where freshwater species at risk are concerned.	NEB_IR_No._3.042	In Progress	Prior to Construction	EPP workshops will be held prior to Construction
952	Business Opportunities		Georgia Strait Alliance	Trans Mountain is committed to maximizing employment and business opportunities for Aboriginal, local and regional groups.	Georgia_Strait_Alliance_IR_No._2(b).13a	In Progress	Prior to construction	This will be outlined in the contract documents
13	Business Opportunities		Regional District of Fraser-Fort George	Trans Mountain is committed to community benefits for municipalities and regions crossed by the Project and Trans Mountain has initiated discussions with local governments and organizations to explore opportunities related to its priority areas of community investment, the environment; and education. For Valemount, as with all pipeline communities, TMPL is committed to providing local business and employment opportunities within the community and region.	RD_of_Fraser-Fort_George_IR_No._1.03e	Complete	Prior to Construction	Trans Mountain signed a community benefits memorandum of understanding.
178	Business Opportunities		Regional District of Fraser-Fort George	Trans Mountain commits to continued consultation with the Village of Valemount and the Regional District to discuss planned or proposed municipal upgrades to infrastructure.	RD_of_Fraser-Fort_George_IR_No._1.12j	In Progress	Prior to Construction; Operations	
14	Business Opportunities		The Nations (Sucker Creek First Nation; Ermineskin Cree First Nation, Samson Cree Nation, Whitefish (Goodfish) Lake First Nation #128, Kelly Lake Cree Nation	Trans Mountain is committed to ‘make best efforts’ and will maximize employment, training and procurement opportunities with Aboriginal groups engaged with the Project. In addition to the Employment Policy and the Education and Training Policy, Trans Mountain will developed a Project-specific Procurement Policy, which indicates that the Project is committed to maximize the use of local, regional, Aboriginal, provincial and Canadian businesses during the construction and operation of the Project.	Nations_IR_No._1.1.5e	Complete	Prior to Construction	Trans Mountain's Aboriginal Procurement Policy is complete
5	Construction		Adams Lake Indian Band	All hydrostatic test water to be released directly or indirectly into a watercourse/wetland/lake will be tested prior to and during release. Any parameters to be tested that are not measurable in the field will be tested prior to release, not during release. Hydrostatic test water will be tested and verified as meeting guidelines for contaminant concentrations before it is released in accordance with approval/permit/notification conditions.	ALIB_IR_No._1.2.6a	Scoping	During Construction	A component of the water withdrawal permits
15	Construction		Amy, Chris; Hackett, Angelika	Prior to construction, Trans Mountain will develop a Security Management Program (SMP). Ninety days before construction, a construction SMP will be filed with the National Energy Board (NEB) as per NEB draft Condition 37. Prior to completion of construction and before commencing operations of the new pipeline, an updated operations SMP will be submitted to the NEB.	Amy_C_IR_No._1.8a, Hackett_A_IR_No._1.7a	In Progress	Prior to Construction	
17	Construction		City of Abbotsford	Trans Mountain will also continue to work with the City of Abbotsford to understand the applicability of its bylaws and standards to the construction and operation of the Project.	City_of_Abbotsford_IR_No._1.04a	In Progress	Project Lifecycle	
18	Construction		City of Abbotsford	Traffic and Access Management Control Plans will include overall consideration for traffic and access management and control as they affect the use of public roadways.	City_of_Abbotsford_IR_No._1.01b	Scoping	Prior to Construction	To be considered as part of the Traffic and Access management Plan
19	Construction		City of Abbotsford	Trans Mountain commits to a trenchless crossing of Sumas Mountain Road. If trenchless method is unsuccessful, Trans Mountain commits to consult and coordinate activities with the City of Abbotsford to install the crossing on a low traffic day such as a Sunday to keep disruption at this location to a minimum.	City_of_Abbotsford_IR_No._1.02b	In Progress	During Construction	
20	Construction		City of Abbotsford	Trans Mountain commits to consult with the City of Abbotsford in the development of the Project construction schedule within City boundaries.	City_of_Abbotsford_IR_No._1.27a	In Progress	Prior to Construction	
21	Construction		City of Abbotsford	Trans Mountain commits to no complete closure of the two Ward Roads and one Sumas Road crossings in the City of Abbotsford between Sumas Shale and Jamieson Quarry.	City_of_Abbotsford_IR_No._1.02a	In Progress	During Construction	
22	Construction		City of Abbotsford	Trans Mountain is committed to working with the City of Abbotsford with respect to the Project and current operations to ensure the safety of the public that live, work and play near the pipeline and facilities.	City_of_Abbotsford_IR_No._1.16c City_of_Abbotsford_IR_No._1.16e	In Progress	Project Lifecycle	
24	Construction		City of Abbotsford	Trans Mountain will commit to meeting the specifications of the Ledgeview Golf Course in its restoration methods (for example, type of soil, grass).	City_of_Abbotsford_IR_No._1.25b.ii	In Progress	During Construction	
25	Construction		City of Abbotsford	Trans Mountain will commit to winter construction at Ledgeview Golf Course.	City_of_Abbotsford_IR_No._1.25c	In Progress	During Construction	
26	Construction		City of Abbotsford	Trans Mountain will communicate with the City of Abbotsford concerning reclamation of the Sumas Drainage Canal Dike, and any required mitigation to the earthen dike around the Sumas Pump Station.	City_of_Abbotsford_IR_No._1.17a	In Progress	Prior to Construction	
27	Construction		City of Abbotsford	Trans Mountain will develop a restoration plan for Ledgeview Golf Course.	City_of_Abbotsford_IR_No._1.25b.i	In Progress	Prior to Construction	cross reference: City of Abbotsford IR No. 1.25c.
28	Construction		City of Abbotsford	Trans Mountain will engage Mt. Lehman Fire Hall and Abbotsford municipal officials to ensure access and egress are available for emergency vehicles during construction. These plans will be communicated to Abbotsford once definitive plans are available.	City_of_Abbotsford_IR_No._1.21a	In Progress	Prior to Construction	Discussions will take place as part of the ongoing Technical Working Groups
29	Construction		City of Abbotsford	Trans Mountain will monitor the blasting during and post construction to ensure that imposed limits are not exceeded. Following construction a hydrostatic test will be completed to confirm the integrity of the pipeline and a comprehensive integrity program will be implemented to confirm the long term integrity of the pipeline.	City_of_Abbotsford_IR_No._1.20b	Scoping	During Construction; Operations	
579	Construction		City of Abbotsford	If site conditions develop that require the release of sediment-laden waters to City storm sewers, drains or storm sewers, Trans Mountain will contact and consult with the City of Abbotsford’s General Manager of Planning and Development Services or designate.	City_of_Abbotsford_IR_No._2.2.08	Scoping	During Construction	
35	Construction		City of Abbotsford	Trans Mountain commits to working with the City of Abbotsford and the BC Diving Authority in developing a detailed construction plan, should the Sumas River be constructed via the isolate and trench method.	City_of_Abbotsford_IR_No._2(c).01	Scoping	Prior to construction	
30	Construction		City of Burnaby	As part of detailed engineering and construction planning local Traffic Control Plans (TCPs) will be completed in consultation with provincial and municipal authorities. TCPs will take into account traffic volumes to minimize, to the greatest extent possible, the time and quantity of traffic disruption to roadway users.	City_Burnaby_IR_No._1.35.05k	Scoping	Prior to Construction	To be considered as part of the Traffic and Access management Plan
31	Construction		City of Burnaby	Issues and concerns from Municipal, School Administrators, and Community Facilities will be documented and incorporated into Trans Mountain Expansion Project Health and Safety Management Plan and Prime Contractor’s Project-Specific Safety Plans (PSSPs).	City_Burnaby_IR_No._1.06.08b	Scoping	Prior to Construction	

32	Construction		City of Burnaby	The Trans Mountain contractor (yet to be determined) will select a wildlife-proof garbage container suitable for the volume of material expected.	City_Burnaby_IR_No._1.19.10f	In Progress	Prior to Construction	
33	Construction		City of Burnaby	Trans Mountain commits to consult with the City of Burnaby in the development of the Project construction schedule within City boundaries.	City_Burnaby_IR_No._1.02.04b, City_Burnaby_IR_No._1.03.07f	Scoping	Prior to Construction	
34	Construction		City of Burnaby	Trans Mountain will conduct construction noise monitoring at the Westridge Marine Terminal which will incorporate the components of the NEB Draft Condition No. 33 of the NEB's <i>Letter – Draft Conditions and Regulatory Oversight</i> (NEB 2014). For noise during operations, a monitoring program will be conducted at the terminal as outlined in Section 9.10 of Volume 6A, Environmental Compliance of the Application.	City_Burnaby_IR_No._1.29.01b	Scoping	Operations	
643	Construction		City of Coquitlam	Trans Mountain will commit to restoring and repaving as necessary the two northern (westbound) lanes of United Blvd post construction, in the areas affected by Trans Mountain's construction works.	City_of_Coquitlam_IR_No._2.D.3	Scoping	During Construction	
645	Construction		City of Edmonton	Trans Mountain will, to the extent practicable, plan the construction to minimize interference with construction activities associated with the expansion of Whitemud Drive.	City_of_Edmonton_IR_No._2.2.1d	In Progress	Prior to Construction	
647	Construction		City of Edmonton	Trans Mountain will work with the City of Edmonton to determine where landscaping will be required in areas of the Whitemud Extension pipeline corridor affected by construction.	City_of_Edmonton_IR_No._2.2.3b	In Progress	During Construction	
649	Construction		City of Edmonton	After the development of the site-specific construction ERP, Trans Mountain will provide a hard copy or electronic copy to the City of Edmonton as requested.	City_of_Edmonton_IR_No._2.4.3b	Scoping	Prior to Construction	
675	Construction		City of North Vancouver	Trans Mountain is prepared to reimburse municipalities for reasonable costs and staff time required to monitor and assist Trans Mountain workers in constructing the Project on municipal lands and in locations where municipal services are located (either parallel to or crossed by Project).	City_North_Vancouver_IR_No._2.3.12.a	Scoping	During Construction	
36	Construction		Fraser Valley Regional District	Trans Mountain commits to developing a dust management plan in co-operation with Fraser Valley Regional District for the section of the pipeline going through the District.	FVRD_IR_No._1.04a	Scoping	Prior to Construction	
38	Construction		Halston Hills Co-op	Trans Mountain will endeavour to limit the amount of tree removal adjacent to the Halston Hills Co-op. Depending on factors such as location, land-use, etc., replanting of trees may be undertaken within the temporary workspace locations that were cleared as part of the proposed construction. Final clearing and restoration requirements will be determined through detailed engineering and design.	Halston_Hills_IR_No._1.4g.i	In Progress	During Construction	
39	Construction		Inskip, Terence	If the original grade within the construction footprint cannot be restored, the final restoration of the slopes will ensure that a stable slope angle and profile are achieved and that the slopes within the construction footprint are blended/naturalized to the extent practical.	Inskip_T_IR_No._1b	Scoping	During Construction	Cross-reference: Inskip T IR No. 1a
690	Construction		Metis Nation of Alberta Gunn Metis Local 55	Trans Mountain commits to not disturbing any known burial sites or cemeteries registered with Service Alberta under the Cemeteries Act or registered with Alberta Culture and Tourism under the Historical Resources Act during the Project.	Gunn_Métis_Local_55_IR_No._2.26	Scoping	Project Lifecycle	
37	Construction		Natural Resources Canada	Though its contract documents Trans Mountain will ensure ongoing consultation between the Prime Contractor and fire management authorities regarding construction schedules, including locations, and for discussions and implementation of planning as it pertains to wildfire danger conditions during the fire season.	GoC_NRCan_IR_No._1.07.1a	In Progress	During Construction	Will form part of the construction Emergency Response program
16	Construction		Parents From Cameron Elementary School Burnaby	Noise management plans that will be developed for the Project construction will incorporate the components of the NEB Draft Condition No. 29 (Pipeline Environmental Protection Plan) of the NEB's <i>Letter – Draft Conditions and Regulatory Oversight</i> (NEB 2014) limit the effect of noise at sensitive receptors and include a monitoring component to verify effectiveness of controls.	Cameron_School_Parents_IR_No._1.2.1a	Scoping	Prior to Construction	
40	Construction		Parents from Cameron Elementary School Burnaby	Trans Mountain will manage noise through applicable NEB Draft Conditions No. 29 through 33, and 57 relating to updated Environmental Protection Plans, Horizontal Directional Drilling Noise Management Plan, a Noise Management Plan for pump stations, facilities and Westridge Marine Terminal, and post-construction noise surveys at select terminals.	Cameron_School_Parents_IR_No._1.2.2a	Scoping	Superseded by Condition	
41	Construction		Regional District of Fraser-Fort George	Trans Mountain Commits to implement Localized Traffic Control Plans (TCPs) to minimize disruption, to the greatest possible extent, to Village and Regional District-owned property, and in consultation with municipal representatives of the Regional District of Fraser-Fort George and Valemount. Construction techniques to minimize disruption will be considered including the use of trenchless methods (as may be suitable under acceptable geotechnical conditions). Trans Mountain will commit to consulting with Regional District of Fraser-Fort George and Valemount representatives to discuss construction schedules such that access to essential Village and Regional District-owned property is available during normal business hours if open-cut crossing methods are employed.	RD_of_Fraser-Fort_George_IR_No._1.12d	Scoping	Prior to Construction	Discussions will take place as part of the ongoing Technical Working Groups
42	Construction		Regional District of Fraser-Fort George	The determination (if a camp will be built in Valemount ) should be made by Q1 of 2015. Trans Mountain commits that pipeline workers will usually be scheduled for six work shifts (Monday through Saturday) and one day off (Sunday) per week. If workers are housed in Valemount, they will be permitted to return home for their day off at their discretion.	RD_of_Fraser-Fort_George_IR_No._1.03b	In Progress	Prior to Construction	Part of the Construction Execution Plan
43	Construction		Regional District of Fraser-Fort George	Trans Mountain can confirm that all roads directly impacted by Project construction will be restored to their original state once construction has been completed	RD_of_Fraser-Fort_George_IR_No._1.12h	Scoping	Operations	Reclamation standards will be outlined in Contract documents, including before and after photos
44	Construction		Regional District of Fraser-Fort George	Trans Mountain will meet the aesthetic standards for construction set by the Village of Valemount and the Regional District where doing so will not compromise the Project's operational requirements or conflict with other laws or regulations governing the Project.	RD_of_Fraser-Fort_George_IR_No._1.12k	In Progress	During Construction	
45	Construction		Simpcw First Nation	Aboriginal monitors will be invited to attend kick-off meetings.	SIMPCW_F_N_IR_No._1.149a	In Progress	Prior to Construction	Scoping meetings have commenced
853	Construction		Stk'emlupsemc Te Secwepemc Nation	Trans Mountain will implement mitigation to ensure Project personnel are prohibited from fishing on Jacko Lake during construction activities and efforts will be made to provide continuous access to Jacko Lake	SSN_IR_No._2.10	Scoping	During Construction	
47	Construction		Township of Langley	Trans Mountain will consult with the Township of Langley in the development of the traffic and access management plans, and traffic control plans, to mitigate potential negative effects.	Langley_IR_No._1.14e	In Progress	Prior to Construction	Cross-reference: Langley IR No. 1.13g
716	Construction		Township of Langley	Trans Mountain is committed to removing all construction materials during final clean-up and reclamation.	Langley_IR_No._2.12.b	Scoping	During Construction	
92	Construction		Upper Nicola Band	If additional pit run material is required at Kingsvale Pump Station, Trans Mountain will ask the contractor(s) undertaking the civil construction work to find one or more borrow sources within a reasonable distance from the site.	Upper_Nicola_Band_IR_No._2(c).01.a	Scoping	During construction	
94	Construction		Upper Nicola Band	Trans Mountain commits to having drilling fluid pressures and drilling rates monitored at all times during construction for an early indication of circulation loss.	Upper_Nicola_Band_IR_No._2(c).02.s	Scoping	During construction	
48	Construction	NEB		An Agricultural Monitor who is familiar with soils, drainage and agricultural production will be in place for the Lower Mainland of BC. Environmental Inspectors will be in place in all geographic areas.	NEB_IR_No._2.045b	Scoping	Prior to Construction	

49	Construction	NEB		In the case where use of an impact hammer is deemed necessary for engineering reasons, Trans Mountain will implement use of bubble curtains at the Westridge terminal	Volume 5A, 7-467.	In Progress	During Construction	to be incorporated into the Westride terminal EPP
50	Construction	NEB		To comply with the systematic Safety Management Program approach as required by Section 47 of the NEB OPR, an ERP will be developed and implemented for TMEP construction. The TMEP ERP for construction will be separate from, and complementary to, the Trans Mountain operations ERP and will lay out the guidelines for the development of the prime contractors' detailed site-specific ERPs. The TMEP ERP for construction will address legislative requirements and be based on recognized industry standards of practice. The site-specific ERPs will address potential construction emergency situations requiring response by TMEP construction resources (as supplied by the prime contractors), Trans Mountain operations resources, or external resources, in keeping with the philosophy of using the most immediately available resources.	Part 2 – Consultation Update No. 1	Scoping	Prior to Construction	Draft Condition
51	Construction	NEB		Trans Mountain will develop detailed traffic estimates as construction and Project planning related to the movement of people, materials and equipment continues. Trans Mountain will also develop further logistics information on transportation modes and routes to be used during the construction phase, as well as timing transportation movements to each construction spread and/or facility location.	Volume 5B, 7-129.	In Progress	Prior to Construction	To be considered as part of the Traffic and Access management Plan
52	Construction	NEB		Trans Mountain will develop worker Code of Conduct policies, which will cover guidance on the safe and respectful use of community facilities	Volume 5B, 7-150.	In Progress	Prior to Construction	
53	Construction	NEB		Trans Mountain will employ a number of measures to reduce Project-related vehicles and limit the effects associated with construction-related traffic, including providing daily shuttle bus services from staging areas to work sites and for local workers from pre-determined regional staging areas.	Volume 5B, 7-129.	In Progress	During Construction	To be considered as part of the Traffic and Access management Plan
54	Construction	NEB		Trans Mountain will have a Traffic and Access Control Management Plan and will direct contractors to have Traffic Control Plans, and the Project employ numerous measures to reduce its transportation footprint.	Volume 5B, 7-135.	In Progress	During Construction	To be considered as part of the Traffic and Access management Plan
55	Construction	NEB		Trans Mountain will have certified inspectors to monitor welding and NDT activities to ensure compliance to project specifications and procedures. Periodic audits will be performed by third-party welding and NDT specialists employed by Trans Mountain.	Volume 4B-20.	Scoping	During Construction	
56	Construction	NEB		Trans Mountain will implement controls, in accordance with the applicable legislative requirements, to prevent damage to over-head and underground power systems during construction.	NEB_IR_No._2.080a	Scoping	During Construction	
57	Construction	NEB		Trans Mountain will make the Code of Conduct available to all workers, and to communities and local authorities where workers will be accommodated or where temporary camps will be located.	NEB_IR_No._1.16c	In Progress	During Construction	
58	Construction	NEB		Trans Mountain will meet with the governments, industry and local Aboriginal communities with respect to the use of merchantable timber.	Volume 5B, 7-109.	In Progress	Prior to Construction	Timber Salvage management Plan
59	Construction	NEB		Trans Mountain will retain contractors that employ only Canadian General Standards Board certified radiographers and ultrasonic technicians to operate the NDT inspection equipment, and provide the final interpretation of radiographic film and the results of the ultrasonic inspection.	Volume 4B-20.	Scoping	During Construction	
60	Construction	NEB		Trans Mountain will use well maintained equipment to reduce air pollution and unnecessary noise and restrict the duration that vehicles and equipment are allowed to sit and idle to less than one hour unless air temperatures are less than 0°C.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	Scoping	During Construction	
61	Construction	NEB		Trans Mountain will work with Environment Canada and comply with the Migratory Birds Convention Act and Migratory Birds Sanctuary Regulations related to the Project components and impacts. Trans Mountain will conduct clearing and preconstruction activities outside the minimum migratory bird restricted activity period (RAP) of May 1 to July 31 where practical.	Volume 5A. Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.2-1	In Progress	During Construction	
62	Construction	NEB		Trans Mountain will work with the Merritt airport owner to coordinate construction activity around periods of airport use.	Volume 5B, 7-134.	Scoping	Prior to Construction	
63	Construction	NEB		Trans Mountain will, as soon as weather and soil conditions permit and insofar as it is practicable so to do, bury and maintain the Pipeline in a manner that will not interfere with the drainage or ordinary cultivation of the Lands, and will restore all drains damaged or disturbed by the operation, according to good drainage practice.	Volume 2, appendix E.	In Progress	During Construction	To be outlined in the EPP
64	Construction	NEB		Where a trenchless crossing is unsuccessful or not feasible and a trenched (i.e., isolated if water present/open cut if dry or frozen to the bottom) installation is necessary, Trans Mountain will engage a geotechnical engineer regarding additional mitigation measures to prevent and control terrain instability, as needed, during construction.	Volume 5A, 7-16.	Scoping	During Construction	HDD contingency plans
95	Construction	NEB		Trans Mountain will provide contact information to residents, land users and Aboriginal groups that may be affected by air emissions from the tunnel construction such that they can effectively communicate any concerns.	NEB_IR_No._4_3	Scoping	Prior to construction	
99	Construction	NEB		Trans Mountain will attempt to identify problematic conditions prior to the commencement of excavation at all trenched watercourse crossings.	NEB_IR_No._4_8a	Scoping	During construction	
65	Construction		Adams Lake Indian Band	In the unlikely event existing sediment contamination is identified at a watercourse crossing during construction, Trans Mountain will implement remedial measures in the Contamination Discovery Contingency Plan in Appendix B of Volume 6B of the Application.	ALIB_IR_No._1.2.3a.2	Scoping	During Construction	to be included in the EPP
66	Construction	NEB	City of Burnaby	Trans Mountain will submit to the NEB a Construction Safety Manual 90 days in advance of construction commencing.	NEB_IR_No._1.15a City_Burnaby_IR_No._1.06.08b	Scoping	Prior to Construction	Draft Condition
67	Construction	NEB		Any salvaged topsoil or stripping will be segregated and stockpiled along the construction right-of-way, and at facility sites in low-profile berms or in piles adjacent to the site perimeter.	Pre-Application Project Description, p 18.	Scoping	During Construction	
68	Construction	NEB		As a general principle, Trans Mountain will avoid physical disturbances to highways or major roads with high community use. Any minor roads that impact community use or access will be crossed in one day using an open cut method to minimize community effects.	Volume 5B, 7-132.	Scoping	During Construction	
69	Construction	NEB		The contractor(s), subcontractors and the Inspector(s) will be provided with copies of all approvals/licenses and permits including the most recent updates and revisions, and will comply with all conditions presented to Trans Mountain.	Volume 5A, 7-128.	Scoping	Prior to Construction	Copies will be held at all construction Offices
70	Construction	NEB		To avoid or reduce effects of a drilling mud release on surface water quality, Trans Mountain will continually monitor for sediment release (i.e., turbidity and TSS) throughout the crossing construction period. In the event of a release into a watercourse, Trans Mountain will immediately suspend drilling activities and implement measures outlined in the Drilling Mud Release Contingency Plan to reduce effects of drilling mud release into the watercourse. Any releases would be reported to DFO and AESRD or BC MOE and clean up and monitoring will be carried out until water quality is returned to existing (background) conditions.	Volume 5A, 7-70.	Scoping	During Construction	To be outlined in the EPP
71	Construction	NEB		Trans Mountain will bore under paved and high-use roads where any physical disturbance would be more than a nuisance.	Volume 5B, 8-62.	Scoping	During Construction	

72	Construction	NEB		Trans Mountain will burn slash when conditions exist that allow for adequate dispersion of smoke and will observe the appropriate setback distances and other best management practices. In the Lower Fraser Valley where air quality is an issue, Trans Mountain will avoid burning slash. Instead, mulching will be performed in place or slash will be shipped/hailed to an approved disposal location.	Volume 5A, 7-88.	Scoping	During Construction	
73	Construction	NEB		Trans Mountain will develop a Worker Accommodation Strategy in collaboration with local municipalities	Volume 5B, 7-147.	In Progress	Prior to Construction	
76	Construction	NEB		Trans Mountain will implement a range of measures to reduce disturbance to community assets and events. Key mitigation measures include: avoiding important community features and assets during right-of-way finalisation, narrowing the right-of-way in select areas, scheduling construction to avoid important community events where possible, communication of construction schedules and plans with community officials, and other ongoing consultation and engagement with local and Aboriginal governments.	Volume 5B, 7-55.	In Progress	Prior to Construction; During Construction	
77	Construction	NEB		All construction sites with 20 or more workers will be required to establish a Work Place (Joint Worksite) Health and Safety (JWH&S) committee. The purpose of the committee is to review significant incidents and provide feedback on potential corrective actions as well as ensure that issues pertaining to work place health and safety are addressed with worker input	Volume 4B, 4B-50.	Scoping	Prior to Construction	Required by Legislation and regulatory requirements
78	Construction	NEB		During construction, in areas where there may be a concern regarding the safety of the public, restricted areas are established. Trans Mountain will have a construction site safety and security plan in place and it will be communicated to the town representatives and adjacent residents.	Volume 5B, 3-70.	Scoping	Prior to Construction	To be outlined in the Construction Communication and Notification Plan
79	Construction			Hydrostatic testing (i.e., pressure testing using water) will be used to verify the pipeline integrity after welding is complete. At major watercourse crossings, pipe sections will be pretested before installation. Water will be drawn from suitable sources and returned to the appropriate watersheds in accordance with permit requirements. To minimize the total amount of water withdrawn for test purposes, where practicable, water will be moved along the pipeline segments for reuse in multiple tests. Upon successful test completion, the test sections will be dewatered using pigs (foam or rubber sealing plugs) propelled through the pipeline by compressed air.	Pre-Application Project Description, p 19.	In Progress	During Construction	Testing Plan under development
582	Construction; Engineering		City of Abbotsford	Trans Mountain is committed to trenchless installation methods across paved road crossings to minimize Project impacts to the City of Abbotsford infrastructure and to the travelling public. Road crossing designs and methodology will be reviewed with the City of Abbotsford and finalized in advance of construction.	City_of_Abbotsford_IR_No._2.2.10d	In Progress	Prior to Construction	
727	Construction; Engineering		Township of Langley	Trans Mountain commits to maintain pavement cuts for a minimum of one year after the work is completed.	Langley_IR_No._2.19.b	Scoping	Operations	
256	Construction; Engineering	NEB		The Project will endeavour to work its construction schedule around such community events to the greatest extent possible. Trans Mountain will be implementing a range of measures to reduce disturbance to community assets and events. Key mitigation measures include: avoiding important community features and assets during right-of-way finalization; narrowing the right-of-way in select areas; scheduling construction to avoid important community events, where possible; communication of construction schedules and plans with community officials; and other ongoing consultation and engagement with local and Aboriginal governments.	Part 2 – Consultation Update No. 1	In Progress	During Construction	Part of the Communication and Notification Plan
663	Construction; Engagement		City of New Westminster	Trans Mountain is committed to consultation with the City of New Westminster on traffic management plans.	City_New_Westminster_IR_No._2.C.2.iii	Scoping	Prior to Construction	Discussions will take place as part of the ongoing Technical Working Groups
665	Construction; Engagement		City of New Westminster	Trans Mountain will undertake a communications and notification program to ensure local businesses, services and members of the public are made aware of potential construction impacts including lane restrictions, road closures and alternate access plans.	City_New_Westminster_IR_No._2.C.2	Scoping	Prior to Construction	To be outlined in the Construction Communication and Notification Plan
899	Construction; Engagement		Wembley Estates Strata Council	Trans Mountain commits that it will assign construction liaison roles as part of its construction team as a key point of contact for those impacted by its construction work.	Wembley_Estates_IR_No._2.1	Scoping	Prior to construction	
653	Construction; Environment		City of Kamloops	Trans Mountain will review the new City of Kamloops Park Management Plan (if complete) prior to reclamation planning.	City_of_Kamloops_IR_No._2.05	Scoping	Prior to Construction	
943	Construction; Environment		Peters Band	Trans Mountain will monitor areas of known and potential contamination during construction. In the event contamination is discovered during construction, the Contamination Discovery Contingency Plan will be implemented (Appendix B of the Pipeline Environmental Protection Plan [Volume 6B; Filing ID A3S2S3] and Facilities Environmental Protection Plan [Volume 6C; Filing ID A3S2S6]).	Peters_Band_IR_No._2(b). 2.4b	Scoping	During Construction	
944	Construction; Environment		Peters Band	Trans Mountain will be updating the preliminary inventories and re-assessing potentially contaminated areas prior to construction based on the final project footprint.	Peters_Band_IR_No._2(b). 2.4	Scoping	Prior to construction	
846	Construction; Environment		Strata NW 655	In addition to construction management personnel, Trans Mountain will have construction and environmental inspectors in place during construction to ensure EPP measures are implemented as needed and as committed to.	Strata_NW655_IR_No._2. (pg. 7)	Scoping	During Construction	
80	Construction; Operation	NEB		Kinder Morgan Canada Inc. (KMC) will provide company contact information to those potentially affected by noise in the event there are noise concerns related to operation of the pipeline system, including: • residents • land users • Aboriginal groups. Company contact information will also be provided to those potentially affected by noise from pipeline construction including: • residents • land users • Aboriginal groups.	NEB_IR_No._1.19b	Scoping	Operations	
869	Emergency Management		Cheam First Nation and Chawathil First Nation	Trans Mountain will consult with First Nations in the development of enhanced ERPs for the expanded pipeline system. Trans Mountain is in the planning stages for a workshop series. The series is expected to commence in Q2 2015 and First Nations with an interest in the Project or Aboriginal interests potentially affected by the Project will be invited to attend.	Cheam_and_Chawathil_FN_IR_No._2(b).1.2 .b.a	Scoping	Prior to construction	

871	Emergency Management		Cheam First Nation and Chawathil First Nation	Consultation regarding Emergency management planning with First Nations will occur during individual sessions to be scheduled with each affected First Nation commencing in Q 2, 2015.	Cheam_and_Chawathil_FN_IR_No._2(b).1.2 .c.b	Scoping	Prior to operation	starting Fall of 2015
874	Emergency Management		Cheam First Nation and Chawathil First Nation	Workshops focused on the Environmental Protection Plan (EPP) and Emergency Response Plan (ERP) are tentatively scheduled to take place along the proposed Project right of way, starting in Q2; Cheam and Chawathil will be invited to attend both workshops.	Cheam_and_Chawathil_FN_IR_No._2(b).2.1 .d	Scoping	Prior to construction	EPP & ERP workshops will be held prior to Construction
111	Emergency Management		City of Abbotsford	Trans Mountain will consult with the city of Abbotsford and its first responders in Emergency Management planning.	City_of_Abbotsford_IR_No._1.08a	In Progress	Project Lifecycle	
86	Emergency Management		City of Burnaby	Trans Mountain will ensure a Fire plan is in place for clearing operations in the city of Burnaby.	City_Burnaby_IR_No._1.33.27c	Scoping	Prior to Construction	
87	Emergency Management		City of Burnaby	Trans Mountain will file the emergency management plan documents for the existing system on August 1, 2014 along with a request, pursuant to the Filing Manual, that the NEB treat them confidentially.	City Burnaby Attachment - Table 1.07.11 c)	Complete	Q3 2014	
608	Emergency Management		City of Burnaby	KMC will consider risk sensitive monitoring and proximity audible warning systems as a possible option in the course of its development of the enhanced EMP.	City_Burnaby_IR_No._2.024	Scoping	Operations	
638	Emergency Management		City of Burnaby	The proposed primary access routes at Burnaby Terminal will be designed and constructed so that emergency response access is available from a minimum of two independent directions.	City_Burnaby_IR_No._2.030e.iii)	In Progress	Operations	
657	Emergency Management		City of Kamloops	Trans Mountain will consult with the City of Kamloops and its first responders in Emergency Management planning.	City_of_Kamloops_IR_No._2.12	In Progress	Prior to operation	
667	Emergency Management		City of New Westminster	Trans Mountain will consult with the City of New Westminster and its first responders in Emergency Management planning.	City_New_Westminster_IR_No._2.D.1	Scoping	Prior to operation	
673	Emergency Management		City of North Vancouver	Trans Mountain will consult with the City of North Vancouver and its first responders in Emergency Management planning.	City_North_Vancouver_IR_No._2.2.4	In Progress	Operations	
680	Emergency Management		City of Port Moody	Trans Mountain will commit to engaging with Port Moody in the review of the Westridge Emergency Response Plan.	City_of_Port_Moody_IR_No._2.3.28	Scoping	Prior to operation	
734	Emergency Management		City of Richmond	Trans Mountain will consult with the City of Richmond and its first responders in Emergency Management planning.	City_of_Richmond_IR_No._2.2.12	Scoping	Superseded by Condition	
736	Emergency Management		City of Richmond	As part of enhancing its Emergency Management Program prior to operation of the expanded pipeline system, Trans Mountain will be reviewing and augmenting its inventory of control points.	City_of_Richmond_IR_No._2.2.15	Scoping	Prior to operation	
89	Emergency Management		City of Surrey; of Vancouver	Trans Mountain will prepare a construction Emergency Response Plan (ERP).	City_of_Surrey_IR_No._1.4h City_of_Vancouver_IR_No._1.08.02	Scoping	Prior to operation	
939	Emergency Management		District of North Vancouver	Trans Mountain will consult with the District of North Vancouver in Emergency Management planning.	District_of_North_Vancouver_IR_No._2.01.2	Scoping	Prior to operation	
112	Emergency Management		District of North Vancouver	KMC is committed to engaging with the District of North Vancouver on the Notification process regarding an unlikely event of a release..	District_of_North_Vancouver_IR_No._2.02.01h	Scoping	Prior to operation	
816	Emergency Management		Fraser Valley Regional District	Trans Mountain will conduct a consultation program as part of developing the updated EMP as described in the NEB draft conditions related to emergency management.	FVRD_IR_No._2.02	Scoping	Superseded by Condition	
817	Emergency Management		Fraser Valley Regional District	Trans Mountain will consult with FVRD in Emergency Management planning.	FVRD_IR_No._2.03a	Scoping	Prior to operation	
757	Emergency Management		Katzie First Nation	Affected Aboriginal groups will be invited to participate in Unified Command in the event of an incident.	Katzie_FN_IR_No._2_2.12a	Scoping	Project Lifecycle	
686	Emergency Management		Metis Nation of Alberta Gunn Metis Local 55	GRPs will be developed and ready for application, to any spills that may potentially occur, prior to the expanded pipeline system beginning operations.	Gunn_Métis_Local_55_IR_No._2.18	Scoping	Operations	
93	Emergency Management		Natural Resources Canada	The debris disposal mitigation measures, as they pertain to potential fire hazards, will be incorporated into the Fire Prevention Plan.	GoC_NRCan_IR_No._1.07.1b	Scoping	Prior to Construction	Will form part of the construction Emergency Response program
97	Emergency Management	NEB	New Democratic Party of Canada; Province of British Columbia	Trans Mountain has agreed to participate and support the Scientific Advisory Committee process and is working with the Canadian Energy Pipeline Association (CEPA) and the Canadian Association of Petroleum Producers (CAPP).	NEB_IR_No._1.63a NEB_IR_No._1.63b NDP_IR_No._1.1.5f	In Progress	Project Lifecycle	
948	Emergency Management		Peters Band	In the unlikely event that released petroleum impacts groundwater, Trans Mountain will implement a remediation program to recover petroleum and treat contaminated water to meet stringent government criteria.	Peters_Band_IR_No._2(b). 3.04a	Scoping	Project Lifecycle	
949	Emergency Management		Peters Band	In the event of groundwater contamination caused by the Trans Mountain Pipeline system, KMC will work with the leadership of the Peters Band to identify surplus capacity from other drinking water sources in the area, while suitable interim water supply replacement alternatives are established and implemented.	Peters_Band_IR_No._2(b). 3.12	Scoping	Project Lifecycle	
98	Emergency Management		Province of British Columbia	As part of the Project, Trans Mountain will undertake a risk assessment and gap analysis to determine the need for additional OSCAR units and the most effective location for placement of the additional OSCARs.	Province_BC_IR_No._1.1.22a	In Progress	Operations	Part of the Planning Standard
771	Emergency Management		Province of British Columbia	Trans Mountain commits to including the review of shutdown procedures, including the rationale for selecting a 10 minute threshold or other time thresholds, in the consultation program with the Province of BC as part of developing the updated EMP.	Province_BC_IR_No._2.20	Scoping	Prior to operation	
772	Emergency Management		Province of British Columbia	Trans Mountain will consult with the Province of BC in Emergency Management planning.	Province_BC_IR_No._2.21	Scoping	Prior to operation	
774	Emergency Management		Province of British Columbia	As part of the EMP review KMC will review information regarding shelter-in-place to ensure suitable messaging is incorporated into responses plans and public awareness materials.	Province_BC_IR_No._2.31	Scoping	Prior to operation	
775	Emergency Management		Province of British Columbia	For areas that may potentially be affected by an oil spill from Trans Mountain along the Fraser and North Thompson Rivers Trans Mountain will: •identify and map side channels that could be used in containment and recovery of oil, •consider access to these side channels and include access details in its EMPdocuments, and •identify available boat launches on these side channels and the spill response equipment in their vicinity.	Province_BC_IR_No._2.32	Scoping	Prior to operation	
776	Emergency Management		Province of British Columbia	Trans Mountain will develop Geographic Response Plans (GRPs) which will become a part of the enhanced Emergency Management Program (EMP).	Province_BC_IR_No._2.35	Scoping	Prior to operation	



778	Emergency Management		Province of British Columbia	Trans Mountain will review its wildlife care requirements for the Project as part of its EMP consultation with the Province of BC.	Province_BC_IR_No._2.37	Scoping	Prior to operation	
781	Emergency Management		Province of British Columbia	The current Emergency Management Programs will be updated to reflect the new program name and description of the REET in the spring of 2015.	Province_BC_IR_No._2.43	In Progress	2015	The ICS guide update is completed. The ERP's will be updated during their 2015 annual review
782	Emergency Management		Province of British Columbia	Trans Mountain has evaluated and completed pre-spill SCAT (shoreline characterization) surveys applicable to a potential spill at the Westridge Marine Terminal (WMT) and will be evaluating the surveys and activities as part of the enhanced emergency management review.	Province_BC_IR_No._2.48a	Scoping	Prior to operations	
783	Emergency Management		Province of British Columbia	KMC commits to supporting Western Canada Marine Response Corporation's implementation of the enhanced planning standards	Province_BC_IR_No._2.52	Scoping	Prior to Operation	
894	Emergency Management		Shxw'ówhámel First Nation	In the event of a leak or rupture from a pipeline or facility within Shxw'ówhámel First Nation (SFN) Traditional Territory, Trans Mountain Pipeline ULC (Trans Mountain) will follow the remedial steps outlined in the National Energy Board (NEB) Remediation Process Guide (2011) to ensure that the groundwater contamination is remediated to applicable remediation standards.	SFN_IR_No._2.5.1e2	Scoping	Project Lifecycle	
920	Emergency Management		Simon Fraser University	Trans Mountain will agree to work directly with the City of Burnaby and SFU in the determination of the appropriate sizing of the new make-up water connection, if the City of Burnaby chooses to consider it.	SFU_IR_No._2.1.1.1	Scoping	Prior to construction	
921	Emergency Management		Simon Fraser University	Trans Mountain will consult with Simon Fraser University in Emergency Management planning.	SFU_IR_No._2.1.3	Scoping	Prior to operation	
922	Emergency Management		Simon Fraser University	KMC commits to continued engagement with Simon Fraser University (SFU) on issues such as safety, 24 hour access and risk mitigation which outline the hazards and risks that the Burnaby Terminal poses to SFU, as part of the EMP consultation process.	SFU_IR_No._2.1.4	Scoping	Prior to operation	
923	Emergency Management		Simon Fraser University	Kinder Morgan Canada Inc. (KMC) confirms that Simon Fraser University (SFU) will be added to a notification list in the event of an emergency at Burnaby Terminal that may impact SFU.	SFU_IR_No._2.1.4	Scoping	Prior to operation	
924	Emergency Management		Simon Fraser University	Although the full details of the EMP documents are not appropriate to include as part of public filing, KMC is willing to meet with Simon Fraser University to discuss KMC's existing and updated EMP documents.	SFU_IR_No._2.1.6	Scoping	Prior to operation	
864	Emergency Management		Squamish Nation	In the event that a pipeline release somehow adversely impacted drinking water aquifer conditions that supply Squamish Nation, Trans Mountain will commit to working with the leadership of the Nation to identify surplus capacity from other drinking water sources in the area, while suitable replacement alternatives were established and implemented.	Squamish_Nation_IR_No._2.12	Scoping	Project Lifecycle	
933	Emergency Management		Taplay, Calvin	As with all schools in proximity to its pipeline and terminals, KMC remains willing and able to review Westridge Elementary School's emergency response plan and provide input and advice on the plan if this is requested.	Taplay_C_IR_No._2.073	Scoping	Project lifecycle	
101	Emergency Management		Tsawout First Nation	Trans Mountain will review and update their Emergency Management Plan for the Westridge Terminal to address any potential fires and explosions.	Tsawout_FN_IR_No._1.35c	In Progress	Operations	
898	Emergency Management		Tsleil-Waututh Nation	Trans Mountain will consult with the Tsleil-Waututh Nation's in Emergency Management planning.	Tsleil-Waututh_Nation_IR_No._2.3.1a	Scoping	Prior to operation	
901	Emergency Management		Wembley Estates Strata Council	KMC will consider risk sensitive monitoring and proximity audible warning systems as a possible option in the course of its development of the enhanced Emergency Management Program.	Wembley_Estates_IR_No._2.2	Scoping	Prior to operation	
104	Emergency Management	NEB		Trans Mountain will establish control points for the new and proposed pipeline and conduct a regular review once in operation.	NEB_IR_No._1.73a NEB_IR_No._1.73b	In Progress	Operations	
105	Emergency Management	NEB		TMEP's will maintain its Community Awareness and Emergency Response (CAER) program and include the Trans Mountain expansion Project.	Part 2 – Consultation Update No. 1	Scoping	Project Lifecycle	
106	Emergency Management	NEB		Trans Mountain will be part of a forthcoming collaborative mutual aid protocol between members of the energy pipeline industry, spearheaded by the Canadian Energy Pipeline Association, to support each other's emergency response efforts as needed.	Volume 5B, s 5.	Complete	Prior to Construction	CEPA Mutual Emergency Assistance agreement (MEAA) in place
471	Emergency management	NEB		KMC remains committed to participating through its membership in CEPA in the Province's Land Base Spill Response initiative.	NEB_IR_No._3.23a	In Progress	Project Lifecycle	
532	Emergency management	NEB		Trans Mountain commits to engaging with local emergency responders near our terminals to ensure that they are aware of all of the available fire-protection systems and procedures prior to the commencement of operations.	NEB_IR_No._4_28c	Scoping	Prior to operation	
559	Emergency Management		Art Jackson O/A Alpine Art	KMC will be developing Geographic Response Plans (GRPs) for all the areas transited by its expanded pipeline system.	Alpine_Art_IR_No._2.5	In Progress	Prior to Operation	
569	Emergency Management		Burnaby Teachers' Association	Trans Mountain commits to working with individual schools or School Districts to fully support their safety efforts and ensure their Emergency Response Plans are coordinated with KMC's.	BTA_IR_No._2.7	In Progress	Project Lifecycle	As part of the continuing Education program
583	Emergency Management		City of Abbotsford	KMC confirms that an analysis is currently underway and that work to date will result in an Oil Spill Containment and Recovery (OSCAR) unit being staged within the City of Abbotsford at the Sumas Pump Station beginning in the summer of 2015.	City_of_Abbotsford_IR_No._2.3.07a	In Progress	Prior to operation	Part of Planning Standard
587	Emergency Management		City of Abbotsford	Trans Mountain will invite the City of Abbotsford to participate in the consultation process regarding the updated Emergency Management Program (EMP)	City_of_Abbotsford_IR_No._2.3.15	Scoping	Prior to operation	
746	Emergency Management		City of Vancouver	Trans Mountain will invite the Vancouver Costal Health Authority and the Fraser Valley Health Authority to participate in Emergency Management Planning	Vancouver_IR_No._2.04.03	Scoping	Project Lifecycle	
747	Emergency Management		City of Vancouver	Trans Mountain will incorporate wording into the current EMP documents for Westridge Marine Terminal during the 2015 annual update of the ERP to ensure clarity around response actions during a fire event specific to the terminal based on the recommendations in the ERG 2012	Vancouver_IR_No._2.04.06.a	Scoping	Q4 2015	
255	Emergency Management; Engineering		City of Abbotsford	Trans Mountain is committed to use trenchless method at Mt. Lehman Rd. and through the parking lot of the City's Mt. Lehman fire hall. Trans Mountain is committed to consult with the City of Abbotsford and its emergency services as it develop its construction plans in this area.	City_of_Abbotsford_IR_No._1.21b	In Progress	During Construction	
113	Employment		Adams Lake Indian Band; Neskonlith Indian Band	Trans Mountain plans to hire qualified Aboriginal monitors for environmental monitoring and inspection jobs during the construction of the Project.	ALIB_IR_No._1.6.04, Neskonlith_IB_IR_No. 1.II.2e	In Progress	Prior to Construction	
114	Employment	NEB		To enhance skill development in support of the Project, Trans Mountain is developing an employment and training policy.	Pre-Application Project Description, p 46.	In Progress	Prior to Construction	

115	Engagement		Canadian Parks and Wilderness Society - BC Chapter	A full report of all workshop feedback will be included in Consultation Update No. 2 which will be provided to the NEB in Q3 2014.  Trans Mountain's Stage 2 BC Parks Boundary Adjustment application will be posted online at <a href="http://www.transmountain.com">www.transmountain.com</a> and will be available for public comment for a period agreed to in conjunction with BC Parks.	CPAWS_IR_No._1.2.3.3	Complete	Q3 2014	
116	Engagement		City of Abbotsford	The Project construction communication and notification program will be developed in consultation with the City and its constituents.	City_of_Abbotsford_IR_No._1.26a	In Progress	Prior to Construction	Construction Impacts will be discussed at a Neighbourhood Information Session
573	Engagement		City of Abbotsford	Trans Mountain will continue to work with the City of Abbotsford as it develops its construction communication plans through the Technical Working Group.	City_of_Abbotsford_IR_No._2.2.03	In Progress	Prior to Construction	a part of the Technical working Group meetings
593	Engagement		City of Abbotsford	As part of ongoing Phase 5 Engagement continuing in Q2/Q3 2015, Trans Mountain will undertake engagement and communications activities in Project route communities regarding constructions plans, anticipated impacts and effects of construction and mitigation measures to reduce the negative impacts of construction on local communities.	City_of_Abbotsford_IR_No._2.2.03b	In Progress	Prior to Construction	Construction impacts will be discussed at a community information session
117	Engagement		City of Burnaby	Prior to construction, Trans Mountain will undertake a communications and notification program to ensure local businesses and members of the public are made aware of potential construction impacts	City_Burnaby_IR_No._1.33.27d	Scoping	Prior to Construction	
118	Engagement		City of Burnaby	Trans Mountain is committed to a Community Benefits program and these positive legacies are in addition to any increase in property taxes, employment, procurement opportunities, and workforce spending that might arise from the proposed Project.	City_Burnaby_IR_No._1.44.01i	In Progress	Prior to Construction	
119	Engagement		City of Burnaby	Trans Mountain will develop a Communications and Notification Program identifying geographic communication areas, in consultation with local governments.	City_Burnaby_IR_No._1.02.04a	In Progress	Prior to Construction	Also see the response to NEB IR No. 1.15a.
120	Engagement		City of Burnaby	Trans Mountain's engagement is ongoing. In particular Trans Mountain will continue to meet with stakeholders who will be impacted by the Trans Mountain Expansion Project to understand and mitigate their concerns where possible. Trans Mountain remains committed to ongoing dialogue and mitigation of issues with its neighbours as the proposed Project proceeds.	City_Burnaby_IR_No._1.31.01d	In Progress	Project Lifecycle	See City Burnaby IR No. 1.31.01c for more information
612	Engagement		City of Burnaby	Trans Mountain will undertake engagement and communications activities in Project route communities regarding constructions plans, anticipated impacts and effects of construction and mitigation measures to reduce the negative impacts of construction on local communities.	City_Burnaby_IR_No._2.060b	In Progress	Prior to Construction	
633	Engagement		City of Burnaby	Trans Mountain commits to engaging with local government, Eagle Creek Streamkeepers, park users and other interest groups regarding proposed activities in local parks and sensitive areas along with associated environmental mitigation and reclamation plans for restoring the area.	City_Burnaby_IR_No._2.134	In Progress	Prior to Construction	
636	Engagement		City of Burnaby	Trans Mountain commits to continue to meet with Metro Vancouver as construction planning advances to continue discussing any interests or concerns Metro Vancouver might have regarding the design, construction and operations of the proposed Project.	City_Burnaby_IR_No._2.137	In Progress	Prior to Construction	
640	Engagement		City of Coquitlam	As part of Trans Mountain's commitment to ongoing engagement, it will continue to engage with the United Boulevard business area regarding constructions plans.	City_of_Coquitlam_IR_No._2.A	In Progress	Prior to Construction	
642	Engagement		City of Coquitlam	Trans Mountain will coordinate with City of Coquitlam in developing and executing a protocol agreement for construction of TMEP within the City of Coquitlam	City_of_Coquitlam_IR_No._2.D	In Progress	Prior to Construction	
654	Engagement		City of Kamloops	Trans Mountain will conduct engagement with municipal governments and community stakeholders in hub communities to discuss worker accommodation options and strategies.	City_of_Kamloops_IR_No._2.09	In Progress	Prior to Construction	
655	Engagement		City of Kamloops	Trans Mountain will continue to update the Kamloops Hotel Association as more information about workforce housing projections and timelines becomes available.	City_of_Kamloops_IR_No._2.09	In Progress	Prior to Construction	
666	Engagement		City of New Westminster	Trans Mountain is committed to investing in community benefits initiatives in municipalities and regions crossed by the Project.	City_New_Westminster_IR_No._2.C.3.iii	In Progress	Prior to Construction	
668	Engagement		City of New Westminster	Trans Mountain is committed to working with CN with respect to the Project and current operations to ensure the safety of the public that live and work near facilities.	City_New_Westminster_IR_No._2.E.1.ii	In Progress	Prior to Construction	
121	Engagement		City of Port Moody	Trans Mountain will continue to engage with the City of Port Moody, including continuing to share updated project information and addressing concerns about the proposed Trans Mountain Expansion Project as they arise.	City_of_Port_Moody_IR_No._1.2.1c	In Progress	Project Lifecycle	
678	Engagement		City of Port Moody	Trans Mountain is committed to engaging with Port Moody going forward and will invite the City and its constituents to future engagement opportunities.	City_of_Port_Moody_IR_No._2.2.1	Scoping	Prior to Construction	
700	Engagement		City of Surrey	Trans Mountain will continue to share the results of any new studies or work being completed and communicate any changes or updates to Project plans with the City of Surrey.	City_of_Surrey_IR_No._2.1.1.a.i	In Progress	Prior to Construction	
553	Engagement		Environment Canada	Trans Mountain will engage tourism operators in the Jasper National Park area pertaining to the reactivation of the existing pipeline segment between Hinton, AB and Hargreaves Station, BC through Jasper National Park.	GoC_EC_IR_No._2.147	In Progress	Prior to Construction	
925	Engagement		Simon Fraser University	Trans Mountain commits to engaging with SFU on construction schedule and activities including traffic management in Q2 or Q3 of 2015.	SFU_IR_No._2.1.7	In progress	Prior to construction	
123	Engagement		Township of Langley	Trans Mountain will engage with the Township of Langley to identify existing infrastructure and future infrastructure growth plans.	Langley_IR_No._1.12a	In Progress	Prior to Construction	
722	Engagement		Township of Langley	Trans Mountain is committed, as part of the discussion with the Township, of Langley to early identification of specific work schedules and providing forward notification to affected residents and/or businesses.	Langley_IR_No._2.17.a	Scoping	Prior to Construction	To be outlined in the Construction Communication and Notification Plan
74	Engagement	NEB		Trans Mountain will develop a communication plan to facilitate a concise two-way information exchange between Project members, corporate head office departments, contractors and regulatory authorities in order to effectively manage the Project. The communication will also summarize the notifications required to regulatory authorities and the public.	Volume 6A, 3-8.	In Progress	Prior to Construction	
124	Engagement	NEB		As part of a commitment to keep stakeholders informed of project activities, Trans Mountain has continued to provide project updates, maintain an active website, phone line and email address. Trans Mountain will continue to seek opportunities to build awareness of the digital engagement platform throughout the project's development.	Pre-Application Project Description, pp 58, 59.	In Progress	Project Lifecycle	
125	Engagement	NEB		During construction Trans Mountain will provide advanced and ongoing notification to users of the area to ensure they are fully aware of the activities that will occur and are occurring. Should the Project affect recreational users' infrastructure during construction, mitigation processes will ensure the infrastructure is left in the same, if not better condition.	Volume 5B, 3-11.	In Progress	During Construction	Construction Impacts will be discussed at a Neighbourhood Information Session



126	Engagement	NEB		Trans Mountain anticipates initiating Community Readiness Engagement in Q4 of 2014, which will focus on engaging local First Nations, community interest groups, economic development organizations, local governments, and municipal or provincial authorities in communities most closely linked to workforce hosting. Trans Mountain will document Community Readiness Engagement in a consultation update which will be submitted to the National Energy Board (NEB).	NEB_IR_No._1.16a	In Progress	Prior to Construction	The initiation of the Community Readiness Engagement was delayed as a result of the 7 month delay in the regulatory process.
127	Engagement	NEB		Trans Mountain commits to consult with municipal and regional authorities and, as relevant, administrators of school and community facilities, on Public Protection measures. Agreed to measures will be incorporated into the Trans Mountain Health and Safety Management Plan which will form the minimum standards of Prime Contractor’s Project Specific Safety Plans. Relevant Issues and concerns from Municipal, School Administrators, and Community Facilities will be documented.	NEB_IR_No._1.15c	In Progress	Prior to Construction	
129	Engagement	NEB		Trans Mountain will continue to reach out to schools offering presentations or meetings to discuss potential concerns.	NEB_IR_No._2.008a	In Progress	Project Lifecycle	
457	Engagement	NEB		During construction Trans Mountain will provide advanced and ongoing notification to users of the area to ensure they are fully aware of the activities that will occur and are occurring.	Technical Update No. 1 & Consultation Update No. 2 - Part 2 Table 1.6.2-1	In Progress	During Construction	
483	Engagement	NEB		Trans Mountain will continue to develop and implement its Community Benefits Program as detailed in the Application and in the response to NEB IR 3.036a. Trans Mountain has and will continue to negotiate Memoranda of Understanding (MOU) with key stakeholders in each community that will be involved in the Community Benefits Program for the Project.	NEB_IR_No._3.036a	In Progress	Project Lifecycle	
540	Engagement	NEB		Trans Mountain will consult with owners and operators of Merritt, Kamloops and Blue River airports as part of Community Readiness Engagement and will continue throughout the Project planning and potential construction phases as more information becomes available.	NEB_IR_No._2.014	Scoping	Prior to Construction	
542	Engagement	NEB		Trans Mountain will continue to conduct open proactive engagement with adjacent communities with respect to future land use developments.	NEB_IR_No._4_33b.2	Scoping	Operations	
572	Engagement; Engineering		City of Abbotsford	As with all parties affected by its proposed Project, Trans Mountain is committed to continuing open and transparent dialogue with the City of Abbotsford throughout detailed project design, construction and operations to ensure that Trans Mountain’s activities have as little impact as possible on neighbouring residents, businesses and institutions. In keeping with this commitment, Trans Mountain will continue to meet with the City of Abbotsford in 2015 as construction planning advances to continue discussing any interests or concerns the City of Abbotsford might have regarding the design, construction and operations of the proposed Project.	City_of_Abbotsford_IR_No._2.1.02	In Progress	Project Lifecycle	
822	Engagement; Engineering		Fraser Valley Regional District	Trans Mountain commits to providing the Fraser Valley Regional District (FVRD) with a link to the progress reports on the NEB website and notifying the district prior to conducting work in the FVRD.	FVRD_IR_No._2.16	Scoping	During Construction	
660	Engagement; Environment		City of New Westminster	Trans Mountain is committed to exploring ways to help the further recovery of aquatic ecosystems in the Brunette River Conservation Area that may be affected by TMEP.	City_New_Westminster_IR_No._2.A.3	Scoping	Operations	
827	Engagement; Environment		Fraser Valley Regional District	Trans Mountain will begin engagement with the Fraser Valley Regional District regarding the development of an Air Emissions Management Plan for the Westridge Marine Terminal.	FVRD_IR_No._2.19	Scoping	Prior to Operation	Draft NEB condition
828	Engagement; Environment		Fraser Valley Regional District	Trans Mountain will consult with Fraser Valley Regional District (FVRD) on the Fugitive Emissions Management Plan for those portions pertaining to Sumas Tank Terminal within FVRD.	FVRD_IR_No._2.20	Scoping	During Construction	Draft NEB condition
895	Engagement; Environment		Stó:lō Collective	All sensitive resources identified on the Environmental Alignments Sheets and environmental tables within the immediate vicinity or the right-of-way will be clearly marked before the start of clearing. Trans Mountain will: <ul style="list-style-type: none"><li>• provide Aboriginal communities with the anticipated construction schedule and proposed pipeline corridor maps, a minimum of two weeks prior to the start of construction in the vicinity of their respective communities;</li><li>• install signage notifying of construction activities in the area; and</li><li>• work with Aboriginal communities to develop strategies to most effectively communicate the construction schedule and work areas to its members.</li></ul>	Sto_Lo_Collective_IR_No._2.1.2	Scoping	Prior to construction	
567	Engagement; Operations		Burnaby Residents Opposing Kinder Morgan Expansion - BROKE	Trans Mountain intends to review and update its brochure entitled “Earthquakes and Pipelines: Can they Survive Together” for future Public Awareness Activities.	BROKE_IR_No._2.1	Scoping	Operations	
130	Engineering		Adams Lake Indian Band	In the event that it may be necessary to disturb Potentially Acid Generating (PAG) material during the construction phase of the Project, an Acid Rock Drainage Management Plan (refer to Appendix C of Volume 6B) will be developed prior to construction to ensure that the receiving environment (including fish and fish habitat) is not adversely impacted.	ALIB_IR_No._1.3.16c	Scoping	Prior to Construction	For additional information, please refer to the effects assessment for acid generating and metal leaching rock provided in Section 7.2.1 of Volume 5A, as well as the Acid Rock Drainage and Metal Leaching Potential Technical Report provided in Volume 5C.
12	Engineering		Adams Lake Indian Band	Details of the dredge footprint, methods and duration of dredging will be developed during detailed engineering and a geotechnical investigation that will occur before the end of September 2014. Sediment sampling for chemical analysis will be performed prior to dredging.	ALIB_IR_No._1.3.01b	In Progress	Prior to Construction	Geotechnical investigation for the Westridge Marine Terminal in shore activities scheduled for 2015.

131	Engineering	NEB	Allan, Robyn; Amy, Chris; Ashcroft Indian Band; Asini Wachi Nehiyawak Traditional Band; Burnaby Residents Opposing Kinder Morgan Expansion - BROKE; City of Abbotsford; City of Burnaby; City of Coquitlam; City of Port Moody; City of Surrey; Doherty, Dorothy; Environment Canada; Fraser Valley Regional District; Kwantlen First Nation; Living Oceans Society; New Democratic Party of Canada; Neskonlith Indian Band; Province of British Columbia; Simpcw First Nation; Strata Council NW 313; T. Buck Suzuki Environmental Foundation; Township of Langley; Upper Nicola Band Stakeholder: Edmonton & Area Land Trust	Trans Mountain will submit to the NEB the completed risk assessment for Line 2 in Q3 2014.	NEB_IR_No._1.81a Allan_R_IR_No._1.17o Allan_R_IR_No._1.17p Amy_C_IR_No._1.3y Ashcroft_IB_No._1.3.4.f Ashcroft_IB_No._1.3.4.f BROKE_IR_No._1.5d City of Abbotsford - Attachment - Table City_of_Abbotsford_IR_No._1.14a City_Burnaby_IR_No._1.07.14___i City of Burnaby - Attachment - Table City_Burnaby_IR_No._1.06.09g City_of_Burnaby_IR_No._1.07.14_r City_Burnaby_IR_No._1.07.14___f City_Burnaby_IR_No._1.07.14___r City_Burnaby_IR_No._1.07.14___i City_Burnaby_IR_No._1.33.05c City_Burnaby_IR_No._1.33.35b City_of_Coquitlam_IR_No._1.C.9 City_of_Port_Moody_IR_No._1.3.27 City_Surrey_IR_No._1.4a City of Surrey - Attachment - Table Doherty_D_IR_No._1.02h EALT_P_IR_No._1.03-Attachment 2 EALT_P_IR_No._1.03-Attachment 1 FVRD_IR_No._1.38a Kwantlen_FN_IR_No._1.14.1 Kwantlen_FN_IR_No._1.15.11 Langley_IR_No._1.08a Living_Oceans_IR_No._1.47c Living_Oceans_IR_No._1.39b Neskonlith_IB_IR_No. 1.III.a NDP_IR_No._1.1.2k Province of BC IR_No._1.1.02h	Complete	Q3 2014	
558	Engineering		Art Jackson O/A Alpine Art	For the Project, Trans Mountain will meet or exceed both the minimum cover requirement specified in CSA Z662 and apply the province of British Columbia’s more conservative one in two hundred year designated flood mandate to all of the proposed watercourse crossings.	Alpine_Art_IR_No._2.2	In Progress	Prior to Construction	
545	Engineering		Bickle, Eric	Trans Mountain will not route the proposed pipeline along the western border of Redwoods Golf course (commitment made in response to Bickle, E, IR No 1.1.1j; Filing ID A3Y2C9) in such a way that results in removal of trees that buffer the Walnut Grove residents from the golf course and in such a way that the 30m "safety zone" identified in s. 112 of the <i>National Energy board Act</i> would not affect the residential properties bordering Redwoods Golf Course.	Bickle_E_IR_No._1.1.1j	In Progress	Prior to construction	
564	Engineering		Burnaby Residents Opposing Kinder Morgan Expansion - BROKE	liquefaction and lateral spreading analysis and geotechnical report for sites with “very high” liquefaction potential have been underway and will be completed and filed with the NEB.	BROKE_IR_No._2.1a	Complete	Prior to Construction	
565	Engineering		Burnaby Residents Opposing Kinder Morgan Expansion - BROKE	Site specific subsurface investigations for “high” and “moderate” liquefaction potential sites along the corridor will be performed in a phased approach on select sites starting spring/summer 2015, and will be based on findings from the investigation of the “very high” liquefaction potential sites and the potential for impact to the pipeline.	BROKE_IR_No._2.1a	In Progress	Prior to Construction	
566	Engineering		Burnaby Residents Opposing Kinder Morgan Expansion - BROKE	If a specific fault poses an unacceptable risk to the project. Trans Mountain will develop a fault-specific crossing design to mitigate risk to an acceptable level.	BROKE_IR_No._2.1e	In Progress	Prior to Construction	
568	Engineering		Burnaby Residents Opposing Kinder Morgan Expansion - BROKE	A study of the potential activity of faults crossing the proposed route in the Lower Mainland and Fraser Valley has been commissioned by Trans Mountain, and is currently being undertaken by Drs. John Clague and Doug Stead of the Department of Earth Sciences at Simon Fraser University and is expected to be complete by the end of Q1 2015.	BROKE_IR_No._2.5c	Complete	Q1 2015	TMEP March 2015 Seismic Hazard Update Report - Appendix D (Filing ID A4K1A2) submitted to NEB March 2015.
133	Engineering		City of Abbotsford	Graphs will be provided of spill volumes and valves in relation to HCAs with the Technical Update No. 1 on August 1, 2014.	Trans Mountain response to City of Abbotsford IR motion	Complete	Q3 2014	
134	Engineering		City of Abbotsford	Provide a description of the relationship between depth of cover and the potential for 3rd Party Damage in the risk report that will be submitted in Q3 2014.	City_of_Abbotsford_IR_No._1.12b	Complete	Q3 2014	
135	Engineering		City of Abbotsford	Site-specific mitigation measures for parks and trails within the City of Abbotsford will be identified during detailed engineering phase and finalization of the pipeline construction right-of-way and included in the Pipeline Environmental Protection Plan.	City_of_Abbotsford_IR_No._1.04b	In Progress	Prior to Construction	To be included in the EPP
136	Engineering		City of Abbotsford	Trans Mountain is committed to City of Abbotsford input to the detailed engineering and design of Line 2 to minimize impacts and potential delay or disruption to future installation of city infrastructure, including installation of permanent pipeline crossing locations where needed.	City_of_Abbotsford_IR_No._1.03b.ii	In Progress	Prior to Construction	
137	Engineering		City of Abbotsford	Trans Mountain will hold discussion with Sumas Canal owner/operator to establish if there any plans for its development and this will be considered in finalizing crossing depth during detailed engineering and design phase.	City_of_Abbotsford_IR_No._1.17e	In Progress	Prior to Construction	
138	Engineering		City of Abbotsford	Trans Mountain will provide centre line shape files to the City of Abbotsford.	City_of_Abbotsford_IR_No._1.03b.iii	In Progress	Prior to Construction	cross reference: Langley IR No. 1.10a.
571	Engineering		City of Abbotsford	Trans Mountain commits to working with the City of Abbotsford to define a terms of reference defining the roles, responsibilities, and appropriate timelines related to ongoing engagement activities as the Project proceeds through detailed engineering, construction planning and in-service; should the proposed project be approved.	City_of_Abbotsford_IR_No._2.1.02	In Progress	Project Lifecycle	
574	Engineering		City of Abbotsford	Trans Mountain will commit to working with the City of Abbotsford to identify and limit the amount of workspace utilized through the City of Abbotsford Parks to the extent as practically possible to support construction. The project is committed to work with City of Abbotsford personnel to develop restoration plans that would support Abbotsford’s park objectives.	City_of_Abbotsford_IR_No._2.2.04	In Progress	Prior to Construction	

576	Engineering		City of Abbotsford	Trans Mountain will consult with the BC Inspector of Dikes specific to the Sumas Canal crossing methodology upon completion of the current investigative study. Trans Mountain plans to undertake soil investigations at Sumas Lake Canal as part of Detailed Engineering initiating in 2015 and will share the results of the soil investigations with the City of Abbotsford.	City_of_Abbotsford_IR_No._2.2.06	Scoping	Prior to Construction	
588	Engineering		City of Abbotsford	Trans Mountain confirms its commitment to consult with the City of Abbotsford on valve locations and type of valves at each location.	City_of_Abbotsford_IR_No._2.4.17	In Progress	Prior to Construction	Valve List developed
589	Engineering		City of Abbotsford	Trans Mountain also commits to the City that if some of the feedback is not reflected in the final design, Trans Mountain will be open and transparent with the City on rationale for the decision.	City_of_Abbotsford_IR_No._2.4.17	In Progress	Prior to Construction	
590	Engineering		City of Abbotsford	Trans Mountain will commit to evaluate the feasibility of installing an additional valve in the vicinity of KP 1123.	City_of_Abbotsford_IR_No._2.4.17	In Progress	operations	
591	Engineering		City of Abbotsford	Trans Mountain will commit to perform further assessments to see if outflow volume can be optimized in the vicinity of KP 1117, and further in this location by means of adjusting valve types, numbers or locations.	City_of_Abbotsford_IR_No._2.4.17	In Progress	Prior to Construction	
592	Engineering		City of Abbotsford	Trans Mountain will commit to work with the city on possible special designs (deeper burial, structural fill) for the pipeline, in select areas for the Auguston development near RK 1117 to 1118 and beyond to McKee Road.	City_of_Abbotsford_IR_No._2.7.24	In Progress	Prior to Construction	Part of Technical Working Group meetings
594	Engineering		City of Abbotsford	City representatives have informed Trans Mountain that the crossing of Sumas Mountain Road is located on solid rock, and that a trenchless crossing may not be feasible. If that is the case, Trans Mountain will work with the City to finalize the crossing design, methodology, and construction scheduling to minimize impact to the general public.	City_of_Abbotsford_IR_No._2.2.10d	In Progress	Prior to Construction	
139	Engineering		City of Abbotsford; City of Vancouver	A risk assessment for Line 2 will be filed with the Technical Update No. 1 on August 1, 2014.	City of Abbotsford Attachment - Table 1.12 (a) and (b) City of Vancouver - Attachment - Table	Complete	Q3 2014	
140	Engineering		City of Burnaby	As part of the proposed expansion of Westridge Marine Terminal, the existing diesel-powered standby emergency generator will be replaced with one of an appropriate (larger) size and two additional diesel-powered fire water pumps	City_Burnaby_IR_No._1.25.03b	Scoping	During Construction	
141	Engineering		City of Burnaby	Kinder Morgan Canada (KMC) is committed to working with the City of Burnaby to facilitate the restoration of lands to a similar condition that existed prior to construction. KMC is committed to reasonably facilitating the restoration of lands in order to provide any amenities, landscaping and character loss through construction activities where doing so will not compromise operational requirements or conflict with other laws or regulations governing the Project and ongoing operations. KMC is willing to meet with the City of Burnaby to discuss planned and proposed municipal projects or upgrades to infrastructure to consider in the design of the expansion Project.	City_Burnaby_IR_No._1.33.06c	Scoping	Operations	
142	Engineering		City of Burnaby	The design of the proposed standby emergency power systems and the fire water pumping systems at Burnaby Terminal and Westridge Marine Terminal will include ensuring that the systems will operate within the legislative requirements for noise. The equipment will be installed in buildings designed to attenuate noise, as necessary. As is the current practice, testing will be done during weekday daytime periods and the testing will have no impact on residential power or water systems.	City_Burnaby_IR_No._1.25.03c	In Progress	During Construction	See the response to City Burnaby IR No. 1.10.03c.
143	Engineering		City of Burnaby	The feasibility report for HDD would be available in early Q4, 2014, and in time for the next round of NEB IR's on December 18, 2014. Trans Mountain would willingly meet with the City of Burnaby ahead of submitting the report to the NEB to share the results and alignment if the HDD or tunnel option is deemed technically feasible.	City_Burnaby_IR_No._1.33.29h	Complete	Q4 2014	
144	Engineering		City of Burnaby	The quality management plan will be developed during the detailed engineering and design phase as per Section 2.7, Volume 4A in Application	City_Burnaby_IR_No._1.34.04b	In Progress	Prior to Construction	
145	Engineering		City of Burnaby	The weather threshold for remaining moored at the dock will be determined as part of the final dock design engineering	City_Burnaby_IR_No._1.26.10d	In Progress	Prior to Construction	
146	Engineering		City of Burnaby	Trans Mountain commits to share information on City of Burnaby utilities located during engineering survey.	City_Burnaby_IR_No._1.33.35h	Scoping	Prior to Construction	
147	Engineering		City of Burnaby	Trans Mountain is willing to meet with the City of Burnaby to discuss planned and proposed projects or upgrades to municipal infrastructure to inform the design of the proposed pipeline Project.	City_Burnaby_IR_No._1.33.16q, City_Burnaby_IR_No._1.33.16s, City_Burnaby_IR_No._1.33.15d, City_Burnaby_IR_No._1.43.04a	Scoping	Prior to Construction	
148	Engineering		City of Burnaby	Trans Mountain will commit to consult with the City of Burnaby when it's adjacent or crossing over City utilities to mutually agree on separation distances so that the City can access its mains for operations purposes.	City_Burnaby_IR_No._1.33.15a	Scoping	Prior to Construction	
149	Engineering		City of Burnaby	Trans Mountain will consider extra depth of cover on the Line 2 pipeline on a site-specific basis.	City_Burnaby_IR_No._1.33.16n	In Progress	Prior to Construction	
150	Engineering		City of Burnaby	Trans Mountain will consult with all existing infrastructure owners and endeavour to mitigate any future infrastructure conflicts or impediments.	City_Burnaby_IR_No._1.33.08e	In Progress	Prior to Construction	
151	Engineering		City of Burnaby	Trans Mountain will continue to engage with the City of Burnaby, including continuing to share updated project information, incorporating input and addressing concerns about the proposed Project as they arise. Should the City of Burnaby have feedback, Trans Mountain would welcome an opportunity to meet with the City, at a mutually convenient time, to discuss engineering design standards.	City_Burnaby_IR_No._1.33.07a	In Progress	Prior to Construction	See Section 2.5, Volume 4A of the Facilities Application for a general discussion on codes and standards.
152	Engineering		City of Burnaby	Trans Mountain will determine final crossing procedures in consultation with City of Burnaby and BC Ministry of Transport and Infrastructure during the detailed engineering and design phase of the Project.	City_Burnaby_IR_No._1.43.03c	In Progress	Prior to Construction	cross reference: NEB IR No. 1.84a, NEB IR No. 1.12, NEB IR No. 1.40a, and City Burnaby IR No. 1.35.05b.
154	Engineering		City of Burnaby	Trans Mountain will incorporate expansion of the Burnaby Terminal into its existing storm water monitoring program, whereby Trans Mountain will continue to monitor any flash drainage events in an effort to identify potential effects and implement necessary measures to reduce or avoid Project-related effects to the Eagle Creek watershed.	City_Burnaby_IR_No._1.04.05c, Volume 5A, 7-387.	In Progress	Prior to Construction; Operations	
155	Engineering		City of Burnaby	Trans Mountain will make agreements with and abide by all permit requirements from the Canadian National Railway and the Burlington Northern Santa Fe Railway.	City_Burnaby_IR_No._1.43.02s	In Progress	Prior to Construction	
156	Engineering		City of Burnaby	Trans Mountain will review the status of the current storm water discharge permit for Westridge Marine Terminal with the BC Ministry of Environment to determine if the existing permit will remain in effect, if the existing permit will require an amendment, or if a new permit will be required.	City_Burnaby_IR_No._1.20.02a	In Progress	Prior to Construction	
613	Engineering		City of Burnaby	Trans Mountain is committed to evaluating other options for shoreline infilling and to minimizing the volume of dredging required, to the extent feasible.	City_Burnaby_IR_No._2.063a	In Progress	Prior to Construction	
621	Engineering		City of Burnaby	Trans Mountain will provide plans which indicate all utilities for the selected pipe route once the protocol agreements with the municipalities are set and the utility owners have been able to provide more detailed utility information.	City_Burnaby_IR_No._2.090a	Scoping	Prior to Construction	
627	Engineering		City of Burnaby	Trans Mountain commits to complying with the City of Burnaby's mapping request should spatial data be provided to Trans Mountain from the City of Burnaby	City_Burnaby_IR_No._2.108	Scoping	Project Lifecycle	
628	Engineering		City of Burnaby	Trans Mountains commits to using continuous heavy wall pipe for the delivery pipelines in excess of the minimum requirements of CSA Z662-11.	City_Burnaby_IR_No._2.112	In Progress	Prior to Construction	

634	Engineering		City of Burnaby	Trans Mountain will communicate with TiCorp during the detailed design phase to minimize the disturbance to existing compensation areas within the TMEP Proposed Project footprint.	City_Burnaby_IR_No._2.136	Scoping	Prior to Construction	
560	Engineering	NEB	City of Burnaby	Trans Mountain will completed geotechnical site investigations at sites with “high” and “moderate” liquefaction potential 2015 and 2016. The investigations will be staged: higher-priority sites will be targeted first, followed by lower-priority sites if warranted by the results at higher-priority sites.	City_Burnaby_IR_No._2(d).2.d	In progress	Prior to construction	
157	Engineering		City of Coquitlam	The City of Coquitlam will be consulted to ascertain site specific design considerations at each culverted watercourse crossing.	City_of_Coquitlam_IR_No._1.C.1c	In Progress	Prior to Construction	
158	Engineering		City of Coquitlam	Trans Mountain is continuing to investigate the crossing and will provide an update on routing in the Fraser River crossing area in Technical Update No. 1, to be submitted to the NEB in Q3 2014. The update will include additional information and a map of the proposed and alternative corridors being considered.	City_of_Coquitlam_IR_No._1.A.1	Complete	Q3 2014	cross reference: NEB IR No. 1.40a and NEB IR 1.84a.
639	Engineering		City of Coquitlam	Where work on public roadways is required, including United Boulevard, Trans Mountain will develop localized, detailed Traffic Control Plans (TCP’s) in consultation with municipalities.	City_of_Coquitlam_IR_No._2.A.1.c	Scoping	Prior to Construction	To be considered as part of the Traffic and Access management Plan
159	Engineering		City of Coquitlam; City of Surrey	Trans Mountain is prepared to: • work with municipalities in the planning and engineering, and detailed design to accommodate future growth and minimize potential future impacts to existing infrastructure; • pay for reasonable costs to inspect, relocate if needed, and protect their infrastructure during pipeline construction; • work with the municipalities to fulfill federal requirements for pipeline protection including ground disturbance measures imbedded in the NEB crossing regulations; and • construct the Project, and operate it and the existing pipeline in accordance with practices and procedures that are consistent with all other utility service and development infrastructure.	City_of_Coquitlam_IR_No._1.F.4 City_of_Coquitlam_IR_No._1.F.5 City_of_Coquitlam_IR_No._1.F.6b City_of_Surrey_IR_No._1.3a	In Progress	Project Lifecycle	
648	Engineering		City of Edmonton	A Traffic and Access Control Management Plan will be developed in consultation with the City of Edmonton prior to construction.	City_of_Edmonton_IR_No._2.3a	Scoping	Prior to Construction	To be considered as part of the Traffic and Access management Plan
650	Engineering		City of Kamloops	Trans Mountain is committed to discussing the proposed road crossing methodologies with the City of Kamloops for incorporation of feedback into Detailed Engineering and Design.	City_of_Kamloops_IR_No._2.01b	In Progress	Prior to Construction	
652	Engineering		City of Kamloops	Trans Mountain is committed to consultation with the City of Kamloops on traffic management plans.	City_of_Kamloops_IR_No._2.01g	Scoping	Prior to Construction	To be considered as part of the Traffic and Access management Plan
682	Engineering		City of Port Moody	A gas monitoring network, will be installed for early detection of any leaks or equipment malfunction. The detection equipment will be integrated with the Westridge Marine Terminal control system to allow for continuous measurement of the performance of the VCU and VRUs to ensure that they are operating efficiently and effectively.	City_of_Port_Moody_IR_No._2.3.31	Scoping	Prior to Construction	Will be part of the Air Emissions Management Plan
701	Engineering		City of Surrey	Trans Mountain is committed to discussing the proposed crossing designs with the City of Surrey for incorporation of feedback into Detailed Engineering and Design.	City_of_Surrey_IR_No._2.1.2.a	Scoping	Prior to Construction	Technical working groups
753	Engineering		City of Vancouver	Trans Mountain will file the details of the Westridge Marine Terminal control measures related to environmental protection with the NEB, when they are available, as a condition of future Project approval, if such approval is granted or condition issued.	City_of_Vancouver_IR_No._2.12.8	Scoping	Prior to Construction	to be included in the EPP
703	Engineering		Doherty, Dorothy	New instrumentation for pressure and flow measurement for each of the delivery pipelines will be included in the designs of Burnaby Terminal and Westridge Marine Terminal (WMT)	Doherty_D_IR_No._2.1.m	Scoping	Prior to Construction	
704	Engineering		Doherty, Dorothy	Trans Mountain’s Burnaby Mountain tunnel design will incorporate design features and operating procedures that recognize the unique nature of the installation and the lack of accessibility for future maintenance and repair of the sections of the Westridge delivery lines that are encased in concrete within the tunnel.	Doherty_D_IR_No._2.1.m	Scoping	Prior to Construction	
705	Engineering		Doherty, Dorothy	Trans Mountain has seismic monitoring instruments at Burnaby Terminal today and will add additional seismic monitors as part of the Project.	Doherty_D_IR_No._2.5.a	Scoping	Operations	
162	Engineering		Environment Canada	Trans Mountain will use the best available fugitive VOC emissions reduction technology that is suitable for the application at Westridge Marine Terminal, with the primary goals of reducing fugitive VOC emissions and odorous emissions from vessel loading to the greatest extent practical.	GoC_EC_IR_No._1.065b	In Progress	Prior to Construction	To be included in the Design Basis
163	Engineering		Environment Canada	Trans Mountain will use the most applicable short term and long-term meteorological data, including wind extremes and the Environment Canada data, to inform the design of Westridge Marine Terminal.	GoC_EC_IR_No._1.011	In Progress	Prior to Construction	To be included in the Design Basis
546	Engineering		Environment Canada	Engineering Critical Assessment (ECA) based flaw acceptance criteria will be made available to Natural Resources Canada when available.	GoC_EC_IR_No._2.126	In Progress	Prior to Construction	
548	Engineering		Environment Canada	Trans Mountain has committed to further environmental impact analysis in accordance with Parks Canada Directive on Implementation of CEAA 2014 following the results of the In-Line Inspections of the 24-inch pipeline.	GoC_EC_IR_No._2.132	In Progress	During Construction	
549	Engineering		Environment Canada	Trans Mountain will review the requirements of the Guideline and Specification for Outdoor Lighting at Parks Canada and consider a future project to revise the existing lighting at Jasper Pump Station.	GoC_EC_IR_No._2.134	In Progress	Operations	
740	Engineering		Farquhar, Edward	During the detailed engineering and design phase, Trans Mountain will perform the API 1149 calculations.	Farquhar_T_IR_No._2.2.8a	Scoping	Prior to Construction	
160	Engineering		Fraser Valley Regional District	Trans Mountain will work with the FVRD in applying for all permits to undertake such work. In addition, FVRD will be provided an opportunity to review and comment on the terms of reference for a site specific study of the Popkum-Bridal Falls area, however the scope and terms of engagement of the study will remain the purview of the Project.	FVRD_IR_No._1.35c	Scoping	Prior to Construction	
169	Engineering		Katzie First Nation	No land would be taken or removed from Surrey Bend Regional Park. Trans Mountain will seek to acquire an easement for the installation and operation of a buried pipeline from the Park authority. Ownership of the land will remain with the Park authority.	Katzie_FN_IR_No._1.02a	In Progress	Prior to Construction	
759	Engineering		Katzie First Nation	Trans Mountain is committed to constructing and operating the new pipeline (Line 2) in a manner that prevents column separation.	Katzie_FN_IR_No._2_2.13	Scoping	Operations	
170	Engineering		MacDonald, Sheilagh	The Burnaby Terminal fire-protection system will be expanded and enhanced with new resources as described in Section 3.4.3.8.2 of Volume 4A.	MacDonald_S_IR_No._1.4b	In Progress	During Construction	This commitment is just a reiteration of what's already in the Application along with hundreds of other design items.
866	Engineering		Matsqui First Nation	Trans Mountain is committed to transparency and will provide the results of the risk assessment to Matsqui First Nation upon completion of the detailed design.	Matsqui_FN_IR_No._2.09.b	In Progress	Prior to construction	
685	Engineering		Metis Nation of Alberta Gunn Metis Local 55	A hydrostatic test profile will be developed for each test section as part of the final hydrostatic test plan.	Gunn_Métis_Local_55_IR_No._2.01	In Progress	During Construction	Part of the Hydrostatic test Plan

176	Engineering		Metro Vancouver	Trans Mountain will work directly with affected municipal, regional and provincial authorities to ensure information and agreements required for specific development authorizations and any specifically identified planning, monitoring or mitigation requirements are in place.	Metro_Vancouver_F-IR_No._1.1.5.09a.i	In Progress	Prior to Construction	
173	Engineering		Metro Vancouver	Trans Mountain is willing to work with Metro Vancouver on crossings and proximal work on its infrastructure. Trans Mountain is also willing to accommodate reasonably foreseeable plans for municipal infrastructure in the design and placement of the pipeline.	Metro_Vancouver_IR_No._1.1.1.07b	In Progress	Prior to Construction	Cross reference: FVRD IR No. 1.38d
171	Engineering		Metro Vancouver	In locations of restricted right-of-way opportunity, Trans Mountain will reduce that width to a negotiated minimum, provided that safe operation and maintenance of the new proposed pipeline can be ensured.	Metro_Vancouver_IR_No._1.1.2.01b	In Progress	Prior to Construction	
174	Engineering		Metro Vancouver	Trans Mountain will develop details of the construction methodology, to be used for the pipeline installation through the Coquitlam Landfill, during the Engineering and Detailed Design Phase of the Project.	Metro_Vancouver_IR_No._1.1.2.02b	In Progress	Prior to Construction	
172	Engineering		Metro Vancouver	Trans Mountain is committed to respectful, transparent and collaborative interactions with Metro Vancouver during the detailed engineering and construction planning phase and will continue to share updated project information and address Metro Vancouver's concerns about the TMEP as they arise.	Metro_Vancouver_IR_No._1.1.3.07a	In Progress	Prior to Construction	Technical working group established in October 2014
175	Engineering		Metro Vancouver	Trans Mountain will engage with Metro Vancouver regarding their request for stack testing and dispersion modelling when engineering plans are further advanced.	Metro_Vancouver_IR_No._1.1.6.03g	In Progress	Prior to Construction	
908	Engineering		Metro Vancouver	Trans Mountain will conduct annual combustion efficiency testing of the Westridge Marine Terminal existing and proposed VCU.	Metro_Vancouver_IR_No._2.2.1	Scoping	Operations	
161	Engineering		Natural Resources Canada	Trans Mountain will implement weld toughness testing of submerged arc welds at minus 5 degrees Celsius (-5°C) temperature.	GoC_NRCan_IR_No._1.10.02b	Complete	During Construction	Embedded in Pipe Spec
166	Engineering		Natural Resources Canada	The Trans Mountain Coating Specifications will be updated during the Detailed Engineering and Design Phase of the Project and will incorporate the requirements of the latest edition of the relevant CSA coating standards at that time.	GoC_NRCan_IR_No._1.10.6c	In Progress	Prior to Construction	
167	Engineering		Natural Resources Canada	Trans Mountain will consider applicable topography and site effects (soil effects), including amplification, in the design of tanks, tank foundations, and containments systems.	GoC_NRCan_IR_No._1.02.06	In Progress	Prior to Construction	
547	Engineering		Natural Resources Canada	Trans Mountain to provide Natural Resources Canada (NRCan) a copy of TMEP Coating Specifications by 30 June 2015.	GoC_EC_IR_No._2.130	Complete	30-Jun-15	FBE Plant Applied Coating Specification, 01-13283 - TMEP - GC3105, Rev 0, Dated June 12, 2015
132	Engineering	NEB	Province of British Colombia - BC Parks	Trans Mountain commits to assessing the feasibility of a trenchless construction technique in Bridal Veil Falls Provincial Park (BVFPF) to avoid disturbance to the surface. (Cover Letter, September 4, 2014). Geotechnical studies will be carried out in 2015 to support an assessment of the feasibility of this construction method.	BC Parks boundary adjustment application (August 2014)	In Progress	Q2 2015 - Rescheduled to Q4 2015	Discussions are taking place with BC Parks and BC MOTI on options of routing through park or around the park in adjacent road but still within study corridor. If agreement is reached with BC Parks on use of trenchless option then geotechnical investigations will be undertaken to assess feasibility for trenchless installation through the park.
278	Engineering	NEB	Province of British Colombia - BC Parks	All provincial parks, protected areas and recreation areas will be traversed with 11.8 mm wall thickness pipe. All major watercourse crossings in parks and protected areas will be constructed using heavy wall pipe. The McQueen Creek crossing will be 14.7mm wall thickness pipe. The Clearwater River will be 19.0 mm extra heavy wall thickness pipe as the pipeline is proposed to be installed by a horizontal directional drilling (HDD) method. The extra heavy wall thickness is required for large loads imposed during installation and during the pipe pull and finished pipeline profile in the bored hole. If the Clearwater River HDD proves to be unsuccessful then the contingency, in-stream design would be implemented with a wall thickness of 14.7mm or the 19.0 mm thick pipe planned for the HDD if the pipe had already been welded into a pipe string in preparation for pipe pulling.	BC Parks boundary adjustment application (August 2014)	Scoping	During Construction	
177	Engineering		Province of British Columbia	Trans Mountain plans to identify all water wells within the Project Footprint prior to construction. Trans Mountain will investigate and respond to neighbouring water well owner complaints potentially related to the pipeline operations, regardless of available pre- or post-construction testing requirements. In the unlikely event that pipeline construction has resulted in diminished water quality or quantity and its directly related to the construction or operation of the pipeline, Trans Mountain will re-establish or replace a potable water supply.	Province_BC_IR_No._1.1.38c	In Progress	Prior to Construction	
761	Engineering		Province of British Columbia	Trans Mountain will develop a management plan for terrain stability to be implemented during construction and to continue through operation once construction is completed.	Province_BC_IR_No._2.02c	In Progress	Project Lifecycle	
762	Engineering		Province of British Columbia	Trans Mountain will carry out Terrain Stability Assessment (TSA) for selected Class III polygons where desktop study suggests that TSAs are warranted.	Province_BC_IR_No._2.02d	In Progress	Prior to Construction	
764	Engineering		Province of British Columbia	Trans Mountain will assign consequence scores to all but low vulnerability aquifers that are commensurate with aquifer HCAs.	Province_BC_IR_No._2.08b	Scoping	Prior to Construction	
765	Engineering		Province of British Columbia	Trans Mountain will accurately reflect the location of drinking water supply sources within 100m of the pipeline, its facility, or areas modelled in Application Volume 7, Section 3 (Filing ID A3S4V5).	Province_BC_IR_No._2.11	Scoping	During Construction	
766	Engineering		Province of British Columbia	Trans Mountain will work with communities that have specific concerns related to protection of municipal water sources and will consider installation of monitoring wells in strategic locations.	Province_BC_IR_No._2.12	Scoping	Operations	
785	Engineering		Province of British Columbia	Trans Mountain commits to implement a Risk-Based Design for TMEP. This will include urban areas, agricultural lands, High Consequence Areas (HCAs) that include high environmental sensitivities, and for seismically prone areas where slope instability may be an issue.	Province_BC_IR_No._2.13c	Scoping	During Construction	
786	Engineering		Province of British Columbia	A commitment to use heavy wall pipe at all major and most minor watercourse crossings, road crossings, and pipeline facilities when not required by CSA Z662 for LVP pipelines.	Province_BC_IR_No._2.13c	In Progress	Prior to Construction	
787	Engineering		Province of British Columbia	A commitment to use Cat II pipe, over and above industry standards, for all below ground Line 2 (TMEP) piping, and to develop equivalent and compatible welding procedures	Province_BC_IR_No._2.13c	Complete	During Construction	Cat II pipe specified in expression of interest documents
788	Engineering		Province of British Columbia	A commitment to use Strain-Based Design and Engineering Critical Assessment (ECA) for large soil displacement loadings and muskeg areas when required.	Province_BC_IR_No._2.13c	Scoping	During Construction	

789	Engineering		Province of British Columbia	A commitment to use a two (2) stage screening and review process to determine the most suitable crossing methodology for each watercourse based upon fish and fish habitat sensitivity, engineering, constructability, environmental and a number of other significant factors.	Province_BC_IR_No._2.13c	Complete	During Construction	
790	Engineering		Province of British Columbia	A commitment to update and implement Trans Mountain Natural Hazard Management Program for Geohazard along the Line 2 (TMEP) pipeline.	Province_BC_IR_No._2.13c	Scoping	During Construction	
791	Engineering		Province of British Columbia	A commitment to inspect 100% of all production welds when not required by CSA Z662 (Clause 7.10.3.1) for LVP pipelines.	Province_BC_IR_No._2.13c	Scoping	During Construction	
179	Engineering		Regional District of Fraser-Fort George	Trans Mountain commits to full communication and co-operation with Valemount in coordinating, so as to eliminate or reduce construction disruptions to the Valemount Glacier Destination Resort.	RD_of_Fraser-Fort_George_IR_No._1.05a	In Progress	Prior to Construction	
180	Engineering		Regional District of Fraser-Fort George	Trans Mountain commits to meeting with the Regional District of Fraser Fort George to discuss construction plans, worker accommodation strategy, and mitigation of potential impacts to the community of Valemount.	RD_of_Fraser-Fort_George_IR_No._1.12i.2	In Progress	Prior to Construction	
181	Engineering		Regional District of Fraser-Fort George	Trans Mountain commits to organize a meeting with Regional District of Fraser-Fort George by March 2015 on their concerns about construction near their former landfill site, near Hwy 5 N Valemount, BC. Trans Mountain commits to treat the former landfill site at RK 522 as a sensitive area during construction operations and implement vibration monitoring in consultation with the Regional District of Fraser-Fort George.	RD_of_Fraser-Fort_George_F-IR_No._1.06b	In Progress	Prior to Construction	Pipeline relocated to avoid impacts to the Landfill site
182	Engineering		Regional District of Fraser-Fort George	Trans Mountain will continue to consult with BC Ministry of Transportation and Infrastructure to ensure that the proposed pipeline does not interfere with the future expansion of Highway 5.	RD_of_Fraser-Fort_George_IR_No._1.12c	In Progress	Prior to Construction	
893	Engineering		Shxw'ówhámél First Nation	If the Board determines that the alternative corridors are appropriate and recommends approval of the preferred corridor along with the limited alternative corridors, Trans Mountain will commit to filing with the Board three months in advance of commencing construction its final determination in relation to the alternative corridors identified below.	SFN_IR_No._2.1.1a	Scoping	Prior to construction	
183	Engineering		Simpcw First Nation	Trans Mountain will review the preliminary plot plans for the proposed new pump stations with the Simpcw First Nation, upon their request, when the plot plans are available, anticipated by the end of 2014.	SIMPCW_F_N_IR_No._1.047b	In Progress	Prior to Construction	
862	Engineering		Squamish Nation	Site specific subsurface investigations for "high" and "moderate" liquefaction potential sites along the corridor will be performed in a phased approach on select sites starting spring/summer 2015, and will be based on findings from the investigation of the "very high" liquefaction potential sites and the potential for impact to the pipeline.	Squamish_Nation_IR_No._2.12.c	In Progress	Prior to Construction	Duplication of #565
560	Engineering		Squamish Nation	The slope stability measures that will be utilized for the proposed expansion of the Burnaby Terminal will be finalized during the detailed engineering and design phase of the Project.	Squamish_Nation_IR_No. 2(c).09.c	Scoping	Prior to construction	
561	Engineering		Squamish Nation	Transmountain will evaluate the magnitude of the expected imposed tensile and compressive strains on the pipe due to lateral spreading and other Geohazard along the pipeline .	Squamish_Nation_IR_No._2(d).(a).a	In progress	Prior to construction	
847	Engineering		Strata NW 313	Trans Mountain is committed to working with BC Hydro to find mutually agreeable engineering solutions in order to safely route the pipeline within the 30 m zone.	Strata_NW313_IR_No._2.04c	Scoping	Prior to construction	
851	Engineering		Strata NW 313	Trans Mountain will reduce air emissions from the Project by incorporating emission reduction technologies in the Project design.	Strata_NW313__IR_No_2.27a	Scoping	Prior to construction	
852	Engineering		Strata NW 313	Trans Mountain is committed to meeting the applicable ambient air quality objectives at each terminal and this is the primary criterion for determining tank design and vapour control configurations.	Strata_NW313__IR_No_.2.27a	Scoping	Operations	To be included in the Design Basis
570	Engineering		Stz'uminus First Nation	Trans Mountain tested sites in areas adjacent to the Fraser River in May 2015. The results of the site-specific testing will be assessed and used to refine the estimates for the frequency for loss of containment and update the project-wide risk assessment.	Stz_uminus_FN_IR_No._2(d).06.b	In progress	Prior to construction	
575	Engineering		Stz'uminus First Nation	Trans Mountain will undertake field studies in 2015 to include a determination of whether faults and lineaments are pre-Holocene.	Stz_uminus_FN_IR_No._2(d).18.a	In progress	Prior to construction	
168	Engineering		The Parks Canada Agency	Trans Mountain will continue to work with Parks Canada and BC Parks as part of the decision making process for reactivation activities, including the identification of site-specific issues and concerns and development of mitigation and restoration measures.	GoC_Parks_IR_No._1.2.2	In Progress	Prior to Construction	
184	Engineering		Township of Langley	All mainline block valves (MLBVs) in the Township of Langley will be automated.	Langley_IR_No._1.05c	Complete	During Construction	All values on project will be automated by design
185	Engineering		Township of Langley	Trans Mountain commits to consult with the Township of Langley on its mitigation measures that will be incorporated into the detailed design and engineering to protect groundwater and aquifers.	Langley_IR_No._1.08a	In Progress	Prior to Construction	
186	Engineering		Township of Langley	Trans Mountain commits to provide municipalities as-built shape files on location of TMEP Line 2.	Langley_IR_No._1.10a	Scoping	Operations	
187	Engineering		Township of Langley	Trans Mountain will commit to designing and constructing the pipeline, with risk based design employed to manage risks following the principle of As Low as Reasonably Possible (ALARP)	Langley_IR_No._1.08b	In Progress	Prior to Construction	Cross-reference: Langley IR No. 1.08a
711	Engineering		Township of Langley	Trans Mountain will provide the Township of Langley with GIS shape files as soon as they are available.	Langley_IR_No._2.09.a	Scoping	Prior to Construction	
713	Engineering		Township of Langley	Once pipeline installation is complete, Trans Mountain commits to providing the Township of Langley with "surveyed as-built centre line" shape files.	Langley_IR_No._2.09.a	Scoping	Operations	
714	Engineering		Township of Langley	Trans Mountain inspectors will be monitoring construction activities to ensure that grading does not create issues, including drainage.	Langley_IR_No._2.11.a	Scoping	During Construction	
721	Engineering		Township of Langley	Trans Mountain intends to consult with the Township of Langley regarding the Township's design criteria, and construction requirements and specifications as part of the Company's efforts to minimize construction damage.	Langley_IR_No_2.16.a	Scoping	Prior to Construction	
188	Engineering		Upper Nicola Band	An ARD management plan will be developed as part of detailed engineering and design. Trans Mountain will conduct inspections and post-construction seepage sampling at areas where potentially acid generating material has been identified or exposed during construction.	Upper_Nicola_Band_IR_No._1.03l	In Progress	Prior to Construction	Upper Nicola Band IR No. 1.03k
189	Engineering		Upper Nicola Band	Prior to reactivation of the segments on Line 1, Trans Mountain will file Leave to Open documentation including documentation of repairs and testing that supports restart of these pipeline segments.	Upper_Nicola_Band_IR_No._1.04d	Scoping	Operations	
190	Engineering		Upper Nicola Band	Prior to reactivation Trans Mountain will verify the integrity of the pipeline system through the use of in-line inspection and a hydrostatic pressure test.	Upper_Nicola_Band_IR_No._1.04c	Scoping	Operations	
191	Engineering		Upper Nicola Band	The mainline pumps and some piping systems will be housed within a pump building that includes secondary containment with hydrocarbon detection.	Upper_Nicola_Band_IR_No._1.04a	Scoping	During Construction	To be included in the Design Basis
793	Engineering		Upper Nicola Band	Trans Mountain has committed to complete in-line inspections prior to and following the return to service of the pipeline segments as well as conducting a hydrostatic test of the deactivated sections.	Upper_Nicola_Band_IR_No._2.08d	Scoping	Prior to operation	
797	Engineering		Upper Nicola Band	Trans Mountain has committed to conduct in-line inspection and repair programs and will subject the pipeline to a pressure test in accordance with CSA Z662-11. These activities will ensure that the pipeline has a minimum safety factor of 1.25 relative to the licensed MOP.	Upper_Nicola_Band_IR_No._2.09j	Scoping	During Construction	
799	Engineering		Upper Nicola Band	As part of 2015 geotechnical work, additional field investigations will be undertaken to refine the assessment of all Geohazard identified in the report.	Upper_Nicola_Band_IR_No._2.10e	In Progress	Prior to Construction	



801	Engineering		Upper Nicola Band	Further sampling for ARD/ML characterization and delineation will be completed prior to construction This additional work will focus on geologic units with “High” and “Moderate” ARD/ML potential that were not previously sampled and areas where 2013 investigation results indicated the presence of PAG.	Upper_Nicola_Band_IR_No._2.14	In Progress	Prior to Construction	
802	Engineering		Upper Nicola Band	An ARD Mitigation Toolbox will be developed for use during construction. The ARD Mitigation Toolbox will summarize construction management practices and ARD/ML mitigation methods for pipeline construction.	Upper_Nicola_Band_IR_No._2.15e	In Progress	Prior to Construction	
805	Engineering		Upper Nicola Band	Work with Upper Nicola Band on further sampling for ARD characterization and delineation to be completed as part of the 2015 ARD work plan	Upper_Nicola_Band_IR_No._2.21	In Progress	Prior to Construction	
810	Engineering		Upper Nicola Band	Trans Mountain will review the findings including location and severity of Geohazard assessed with a FLOC value greater than 10 <sup>-5</sup> located in Upper Nicola/Sylix territory. Trans Mountain will re-assess the FLOC values based on the site specific field assessments and submit in a report prior to construction.	Upper_Nicola_Band_IR_No._2.82	Scoping	Prior to Construction	
577	Engineering		Upper Nicola Band	Trans Mountain will re-evaluated the need for supplemental LiDAR within Upper Nicola/Sylix territory after supplemental desktop studies and the field reconnaissance portions of the investigation are completed in 2015.	Upper_Nicola_Band_IR_No._2d	In progress	Prior to construction	
580	Engineering		Upper Nicola Band	Trans Mountain has developed a preliminary layout for the proposed new facilities at Kingsvale Pump Station, which generally defines the extent of the excavation required. The approximate volume is 10,000 m3. The final layout and associated excavation quantity will be determined during detailed engineering and design, which is expected to take place during 2016, assuming the current overall Project schedule is maintained.	Upper_Nicola_Band_IR_No._2(c).01.c	Scoping	Prior to construction	
581	Engineering		Upper Nicola Band	Trans Mountain is committed to undertake a slope stability study for Kingsvale Pump Station during detailed engineering and design.	Upper_Nicola_Band_IR_No._2(c).01.e	Scoping	Prior to construction	
584	Engineering		Upper Nicola Band	Trans Mountain will complete a specific assessment of fault zones proximal to where HDD drilling is scheduled at the Coldwater River 4 site and when geotechnical drilling planned for summer 2015 (upon receiving OGC permits) is conducted.	Upper_Nicola_Band_IR_No._2(c).02.a	Scoping	Prior to construction	
585	Engineering		Upper Nicola Band	Trans Mountain will collect observations of alteration minerals specific to the Coldwater River 4 site when geotechnical drilling is completed at that site in summer 2015.	Upper_Nicola_Band_IR_No._2(c).02.b	Scoping	Prior to construction	
586	Engineering		Upper Nicola Band	Trans Mountain will prepare and file with the NEB a summary report of the geotechnical investigation and any reassessment of the HDD feasibility associated access to the site for Coldwater River 4 crossing.	Upper_Nicola_Band_IR_No._2(c).02.n	Scoping	Prior to construction	Annie Korver (June 15, 2015): Per 2c.02m, the additional information has not yet been discussed but will be at the meeting this week.
599	Engineering		Upper Nicola Band	Trans Mountain is committed to the review of the information on hunting, trapping, gathering or fishing in the area of the Coldwater and Nicola Rivers upon receipt for consideration in project planning and continued engagement with Upper Nicola to discuss mitigation measures to minimize potential impacts. Trans Mountain notes that the construction planning schedule requires that this policy be received no later than May 1, 2015.	Upper_Nicola_Band_IR_No._2(c).02	Scoping	Prior to construction	
604	Engineering		Upper Nicola Band	Trans Mountain will ensure that all locations where HDDs are planned, detailed field investigations will be carried out to ensure the HDD is located appropriately.	Upper_Nicola_Band_IR_No._2(c).03.a	Scoping	Prior to construction	
605	Engineering		Upper Nicola Band	Trans Mountain will share the final approved Work Plan Procedure and Schedule (WPPSs) and a detailed Drilling Fluids Management Plans (DFMPs) with Upper Nicola, and these plans will be made available no later than one month before prior to construction of the crossing.	Upper_Nicola_Band_IR_No._2(c).2(z)	Scoping	Prior to construction	Motion to Compel Full and Adequate Responses
840	Engineering		Weaver, Andrew	Trans Mountain will file the Lower Mainland and Fraser Valley fault study in Q1 2015 as part of its previous commitment to file a seismic assessment for the pipeline corridor by March 31, 2015.	Weaver_A_IR_No._2.11	Complete	31-Mar-15	
96	Engineering	NEB		A photographic report of the three campaigns will be provided as part of Technical Update #2, including relevant photographs with descriptions, showing representative terrain and potential Geohazard in each physiographic region along the proposed route, in support of the findings of the Terrain Mapping and Geohazard Inventory Report. Commitment to reissue the Terrain report and map legend incorporating the above corrections as part of Technical Update #2.	NEB_IR_No._2.096	Complete	Q3 2014	
164	Engineering			A pre-construction timber cruise will be completed to determine the economically operable and merchantable timber volume for the construction right-of-way, and during the timber cruise, areas along the construction right-of-way with forest health concerns or activity will be identified and mapped.	GoC_NRCan_IR_No._1.09.1	Scoping	Prior to Construction	
192	Engineering	NEB		During the detailed engineering and design phase, Trans Mountain will develop a horizontal direction drill specification and provide it to the NEB by September 30, 2014.	NEB_IR_No._1.80a	Complete	Q3 2014	Please refer to NEB F-IR 1.80 - Attachment 1 for a draft horizontal directional drill specification. This specification will be further refined during the detailed engineering and design phase of the Project.
193	Engineering	NEB		<ul style="list-style-type: none"><li>• Trans Mountain will submit to the NEB revised outflow volumes for Line 2 in Q3 2014.</li><li>• Trans Mountain will submit revised outflow volumes for Burnaby – Westridge delivery lines, reflecting revised routing, as well as to provide results for individual and combined drain down volumes in Q3 2014.</li><li>• Trans Mountain will submit the outflow volume results for Hinton – Hargreaves and Darfield to Black Pines reactivated segments in Q3 2014</li><li>• Trans Mountain will submit the outflow volume results for Hinton – Hargreaves and Darfield to Black Pines currently active segments in</li></ul>	NEB_IR_No._1.96a	Complete	Q3 2014	
194	Engineering	NEB		A comprehensive assessment of all the above and below ground piping at Niton Pump Station will be completed to support the engineering assessment referenced in the response to NEB IR 1.88c.	NEB_IR_No._1.88d	in Progress	Prior to Construction	To be included in the Design Basis, Niton Pump station still being evaluated

195	Engineering	NEB		A master watercourse crossing table will be created by combining the Fish Habitat list and the Hydrology list to ensure that all watercourses have been captured and accounted for and submitted as part of Technical Update No. 2 on August 22, 2014.	NEB_IR_No._2.101e NEB_F-IR_No._2.101e	Complete	Q3 2014	
197	Engineering	NEB		A revised version of the Terrain report and map legend with the above corrections will be issued	NEB_IR_No._2.097a	Complete	Q3 2014	
198	Engineering	NEB		A risk management plan will be developed as part of detailed engineering and design, and will be updated as additional site specific information is obtained through detailed investigations, and modified as Geohazard are encountered during construction.	NEB_IR_No._2.099	Scoping	Prior to Construction	
199	Engineering	NEB		After the initial ILI program, Trans Mountain will mitigate the stream crossing hazards already identified and any other hazards identified during ongoing assessments.	Volume 4A-123. (3.6.5.2)	Scoping	Operations	
200	Engineering	NEB		Although no active faults (where rupture has occurred in the last 11,000 years) have been identified in British Columbia, studies will be conducted as part of the detailed engineering and design phase in an attempt to further confirm the presence or absence of active faults crossing or running close to the route.	Part 2 – Consultation Update No. 1	In Progress	Prior to Construction	
201	Engineering	NEB		At major watercourse crossings, and other areas where lateral spreading as a result of liquefaction has the potential to occur, the pipeline will be designed to resist the potential ground movement (both transient and permanent) associated with the design level event.	Part 2 – Consultation Update No. 1	In Progress	Prior to Construction	
202	Engineering	NEB		Drawings showing the scope of the proposed storage tank removals at Edmonton Terminal (existing Tank 9) and Burnaby Terminal (existing Tank 74) will be prepared during the detailed engineering and design phase and during detailed construction planning in 2015.	NEB_IR_No._2.116a	In Progress	Prior to Construction	
203	Engineering	NEB		During the detailed engineering design phase, site specific designs will be undertaken for any Stage 1 watercourses that require scour mitigation designs and any identified as having additional constructability challenges.	NEB_IR_No._2.101c	In Progress	Prior to Construction	
204	Engineering	NEB		For the proposed expansion at Edmonton Terminal, in the West Tank Area (WTA), Trans Mountain has committed to comply with the secondary containment capacity requirements of the Alberta Fire Code (AFC), which requires that the capacity of a shared containment area be 100% of the volume of the largest tank plus 10% of the volume of the other tanks within the area.	NEB_IR_No._2.128b	In Progress	Prior to Construction	To be included in the Design basis
205	Engineering	NEB		For the proposed expansion of Burnaby Terminal, Trans Mountain has committed to comply with the secondary containment capacity requirements of the British Columbia Fire Code (BCFC), which requires that the capacity of a shared containment area be 100% of the volume of the largest tank plus 10% of the volume of the other tanks within the area. For some tanks, secondary containment will be partially provided by remote impoundment, in accordance with the requirements of National Fire Protection Association (NFPA) Code 30.	NEB_IR_No._2.130b	In Progress	Prior to Construction	To be included in the Design basis
206	Engineering	NEB		Hazard assessments for demolition activities will be developed as part of detailed construction planning in late 2015 or early 2106.	NEB_IR_No._2.116c	In Progress	Prior to Construction	
207	Engineering	NEB		If horizontal directional drilling is used, the depth of cover will be a minimum of 10 m below the deepest part of the Fraser River.	Part 2 – Public Consultation Update No. 1	In Progress	During Construction	
208	Engineering	NEB		In addition to the mitigation measures at the known priority sites, Trans Mountain will run a high resolution geometry ILI tool prior to reactivation of deactivated pipeline segments. The geometry tool data will be integrated with the data from the GEOPIG inspections completed in 2001 and 2003 to identify pipe movements that may have been caused by slope instability, river scour, or other geological, geotechnical, or hydrologic phenomena.	Volume 4A-122.	Scoping	During Construction	
210	Engineering	NEB		In the case of air emissions, where air quality standards are predicted to be exceeded by existing developments and activities, Trans Mountain has committed to adopt facility design and emission control measures that do not result in any additional exceedances.	NEB_IR_No._2.041b	In Progress	Prior to Construction	
211	Engineering	NEB		On the new line, all valves will be automated. The new line through Jasper that went in during the Anchor Loop project is also automated. For the existing line, valves will be automated on a priority basis including valves near river crossings and sensitive areas.	Part 2 – Public Consultation Update No. 1	In Progress	Operations	Engineering is coordinating with Parks Canada personnel for existing line. All new line values are Automated
212	Engineering	NEB		Once an optimized valve placement design for Line 2 has been developed through the risk-based design process, Trans Mountain will file a written report that summarizes the risk-based design process that was undertaken for valve optimization, and provides the rationale for the final valve placement design. It is Trans Mountain’s intent that this report, which will be submitted prior to December 1, 2014, will serve as the written engineering assessment report for valve placement location.	NEB_IR_No._2.110 c	Complete	Q4 2014	Filed December 1, 2014 in the Project and Technical Update No. 4.
213	Engineering	NEB		Plans for constructing the proposed new storage tanks, without disturbing the containment function of existing berms or by providing temporary berms, will be developed during detailed construction planning in 2015.	NEB_IR_No._2.119d	In Progress	Prior to Construction	
214	Engineering	NEB		The new Line 2 pipeline segments and the new facilities, including the tanks and the dock complex, will be designed to withstand a one-in-2,475-year seismic event, consistent with current requirements of the National Building Code of Canada.	Volume 1, section 2.5.1.	In Progress	Prior to Construction	To be included in the Design Basis
215	Engineering	NEB		Trans Mountain confirms that bed scour and lateral erosion will be incorporated into the design for crossings.	NEB_IR_No._2.102e	In Progress	Prior to Construction	
216	Engineering	NEB		Trans Mountain is committed to install the Line 2 pipeline on or adjacent to the existing TMPL right-of-way to the extent feasible, to minimise environmental and socio-economic effects and facilitate efficient pipeline operations.	NEB_IR_No._2.048a	In Progress	Prior to Construction	
217	Engineering	NEB		Trans Mountain to submit to the NEB by June 16, 2014, Map 1 Set: to show HCAs provided in Reference ii) or updated HCAs Trans Mountain to submit to the NEB by June 16, 2014, Map 2 Set: to show areas of geotechnical and seismic hazards, and water crossings	NEB_IR_No._1.92b	Complete	Q2 2014	
218	Engineering	NEB		Trans Mountain will apply industry best practices in the selection of lighting types and fixtures at WMT that minimize extraneous light pollution, including the use of LED (light-emitting diode) technology.	NEB_IR_No._2.012a NEB_IR_No._2.012b	In Progress	Prior to Construction	
219	Engineering	NEB		Trans Mountain will complete a pipeline risk assessment and evaluate the need for additional mitigation measures (e.g., valve spacing, deeper burial or thicker-walled pipe) to reduce threats and associated risk to aquifers.	Volume 7, 7-76.	In Progress	Prior to Construction	Semi-Quantitative Risk Assessment submitted to the NEB in August 2014 and December 2014.
220	Engineering	NEB		Trans Mountain will complete an engineering assessment for the reactivation of two isolation valves at Jasper Pump Station by June 2016, in sufficient time to replace the valves in the unlikely event that they are deemed unfit for service on Line 1.	NEB_IR_No._1.88a	In Progress	Q2 2016	
221	Engineering	NEB		Trans Mountain will conduct a RAM analysis for Line 1 and Line 2 during the detailed engineering and design phase to confirm or adjust the availability factors and sparing philosophy. It is expected that the RAM analysis will be complete by the end of Q1 2015.	NEB_IR_No._1.93f	In Progress	Prior to Construction	
222	Engineering	NEB		Trans Mountain will consider the need for installed or uninstalled (ready for quick installation) spare vapour recovery arms or alternate back-up connection systems, such as portable hoses (similar to what is currently used at WMT), during the detailed engineering and design phase	NEB_IR_No._2.122g	In Progress	Prior to Construction	

223	Engineering	NEB		Trans Mountain will contract with a firm specializing in control systems to integrate the new equipment into a control scheme for each facility. The control scheme will utilize existing approved control philosophies and practices, and will be developed under the supervision of Trans Mountain operating staff.	Volume 4B-45.	In Progress	Prior to Construction	
225	Engineering	NEB		Trans Mountain will follow the recommendations of the latest edition of American Petroleum Institute (API) Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents. Trans Mountain will also follow the requirements of the latest edition of Canadian Standards Association Canadian Electrical Code, C22.1, Safety Standard for Electrical Installations.	NEB_IR_No._2.075d	In Progress	Prior to Construction	
226	Engineering	NEB		Trans Mountain will locate and flag all existing buried utility lines and cables to be crossed by the pipeline prior to the commencement of ground disturbance activities by using "one call" services in addition to direct contact with utility owners.	Volume 5B, 3-8.	In Progress	Prior to Construction	
228	Engineering	NEB		Trans Mountain will provide a discussion of how the original design of the existing segments meets the requirements of Line 2 as part of the engineering assessment to be filed as part of Technical Update No. 2. Refer to the response to NEB IR No. 2.134d for additional information.	NEB_IR_No._2.134b	Complete	Q3 2014	
229	Engineering	NEB		Trans Mountain will provide a risk ranking for the various wall thicknesses for the new pipeline segments in Q3 2014.	NEB_IR_No._1.81b	Complete	Q3 2014	
230	engineering	NEB		Trans Mountain will provide Project-related standards, specifications, and manuals that are developed during detailed engineering and design phase of the Project, upon their completion. The engineering-related documents will be provided by end of Q1 2015 while the construction-related documents will be provided 60 days prior to start of construction.	NEB_IR_No._1.76b	In Progress	Prior to Construction	
231	Engineering	NEB		Trans Mountain will provide to the NEB copies of detailed engineering designs for conditions and circumstances not specially or adequately addressed in CSA Z662 or the OPR as described in the NEB Application Volume 4A, Section 2.9, 60 days prior to the commencement of construction of the mainline pipeline in a particular spread.	NEB_IR_No._1.77c	In Progress	Prior to Construction	
232	Engineering	NEB		Trans Mountain will provide to the NEB the maximum inlet (suction) pressures for the Line 2 pump stations following completion of the transient hydraulic analysis, expected by Q2 2015.	NEB_IR_No._1.94c	In Progress	Prior to Construction	
233	Engineering	NEB		Trans Mountain will submit the duration of dredging and the results of the sediment dispersion modelling to the NEB no later than 60 days prior to the start of dredging activities.	NEB_IR_No._1.50c	Scoping	During Construction	
235	Engineering	NEB		Trans Mountain will undertake a reassessment of potential outflow volumes using the increased average throughput volumes expected on Line 1 post expansion.	NEB_IR_No._2.111	Scoping	Operations	
236	Engineering	NEB		Where circumstances exist such that the detailed engineering designs cannot be completed during this phase, all outstanding detailed engineering designs will be completed and submitted to the NEB 60 days prior to the commencement of construction of the mainline pipeline in a particular spread.	NEB_IR_No._1.77b	Scoping	During Construction	
237	Engineering	NEB		Where it is possible and / or desirable to avoid slack flow during pipeline shut down scenarios, mainline valves will be selectively closed to maintain line pack.	NEB_IR_No._2.090a	Scoping	Operations	Control Center Procedures
238	Engineering	NEB		With respect to storm-water runoff in the proposed Tank 100 and Tank 103 shared secondary containment at Sumas Terminal, Trans Mountain will provide a motor operated valve (MOV) on the proposed new secondary containment drain system, in a safe location outside of the secondary containment berm.	NEB_IR_No._2.129g	In Progress	During Construction	
239	Engineering	NEB		With respect to the 3 tanks to be built at Westridge Terminal, all proposed tanks will be located within secondary containment designed in accordance with Canadian Standards Association (CSA) Standard Z662 and the National Fire Protection Association (NFPA) Code 30. Trans Mountain will provide overfill protection in accordance with American Petroleum Institute (API) Standard 2350. All proposed tanks will be equipped with a radar gauging system for liquid level measurement and overfill protection.	NEB_IR_No._2.125b	In Progress	During Construction	Number of Tanks required still under evaluation
240	Engineering	NEB		With respect to the existing jet fuel unloading system at proposed Berth 1 at Westridge Marine Terminal (WMT), Trans Mountain will design and construct the replicated facilities using the same principles, standards, procedures, and practices that will be applied to the proposed new crude oil loading systems at WMT, thereby incorporating some improvements over the existing jet fuel unloading arm system.	NEB_IR_No._2.131d	Scoping	During Construction	
241	Engineering	NEB		Prior to hydrostatic testing, Trans Mountain will complete ILLs of the deactivated segments using a high resolution metal loss tool, a high resolution axial flaw detection tool, and a high resolution geometry tool. Trans Mountain will also inspect the reactivated segments, within the first two years of operation, with a specialized high-resolution ultrasonic tool, to verify that no detrimental crack defects were initiated and/or grew as a result of the hydrostatic testing.	Volume 4A-117.	Scoping	During Construction	
468	Engineering	NEB		Trans Mountain commenced the process of gathering additional volatile organic compound (VOC) emissions information in 2014 and will conduct further measurements during tanker loadings at WMT in 2015.	NEB_IR_No._3.019b	In Progress	Prior to Construction	
489	Engineering	NEB		Trans Mountain will file the exact final locations (including the GPS coordinates) of the new Line 2 pump stations and Black Pines Pump Station as a condition of future Project approval, if such an approval is granted or condition issued.	NEB_IR_No._3.047	In Progress	Operations	
490	Engineering	NEB		Conceptual design for the Line 2 pressure control and pressure relief systems proposed for the Hope site has been completed and a piping and instrumentation diagram (P&ID) will be prepared for Hazards and Operability (HazOp) review by Q3, 2015. The P&ID will be updated based on the HazOp recommendations and it is anticipated that the design basis will be completed by the end of Q3, 2015. Detail design is planned for 2016.	NEB_IR_No._3.051a.2	In Progress	Prior to Construction	
491	Engineering	NEB		The hydraulic analyses for the Line 1 and Line 2 atypical flow rate scenarios and start-up and shut-down conditions will be completed during the detailed engineering and design phase, planned for 2016.	NEB_IR_No._3.051a.3	In Progress	Prior to Construction	
493	Engineering	NEB		All of the results of the hydraulic studies, including the detailed transient analyses, will be incorporated into the Project design by the end of the detailed engineering and design phase in late 2016 or early 2017. The operating limits and protective device settings will be based on the hydraulic studies and will be finalized in sufficient time to allow for application during commissioning.	NEB_IR_No._3.051c	In Progress	Prior to operation	
495	Engineering	NEB		Trans Mountain will provide updated pump station single line diagrams as a condition of future Project approval, if such an approval is granted or condition issued.	NEB_IR_No._3.057	In Progress	Prior to operation	
496	Engineering	NEB		The communications block diagram for the existing Trans Mountain pipeline system will be updated during the detailed engineering and design phase to include the new Black Pines Pump Station site and to reflect the concept that back-up communications will be provided by satellite at Black Pines and at the existing pump station sites where new pump stations are being added as part of the Project.	NEB_IR_No._3.058b	Scoping	Prior to Construction	
497	Engineering	NEB		Trans Mountain will provide the NEB with a copy of the design basis for the Westridge Marine Terminal fire protection system as a condition of future Project approval.	NEB_IR_No._3.65	In Progress	Prior to Construction	Design basis development underway
498	Engineering	NEB		Trans Mountain will file a summary of the Hazards and Operability (HazOp) reviews and contingency plans for Westridge Marine Terminal (WMT) as a condition of future Project approval, if such an approval is granted or condition issued.	NEB_IR_No._3.71	Scoping	Operations	
499	Engineering	NEB		Trans Mountain will install odour control systems on all of the proposed new tanks at Burnaby Terminal. As such Trans Mountain will utilize internal floating roofs on all of the proposed new tanks at Burnaby Terminal, a configuration which is required to enable the application of odour control systems.	NEB_IR_No._3.82b	Scoping	Operations	
500	Engineering	NEB		Trans Mountain will provide the updated design of Westridge Marine Terminal (WMT), with respect to the wind data collected at WMT, as a condition of future Project approval, should such approval be granted or condition issued.	NEB_IR_No._3.83b	Scoping	Prior to Construction	
504	Engineering	NEB		The under-tank leak detection system proposed for each new storage tank will consist of perforated pipes which will drain to a sump adjacent to the tank. The leak detection system design will be in accordance with API 650, Annex I.	NEB_IR_No._3.93b NEB_IR_No._2.118c	In Progress	Operations	

506	Engineering	NEB		As part of the Natural Hazards Management Program, Trans Mountain will conduct additional field investigations for 5 sites identified on the two pipeline segments proposed for reactivation.	NEB_IR_No._3.102a	In Progress	Operations	
509	Engineering	NEB		Trans Mountain will complete baseline ILI surveys for the Westridge Delivery lines in accordance with Section 8 of Volume 4C.	NEB_IR_No._3.103	Scoping	Operations	
607	Engineering	NEB		Trans Mountain will undertake a reassessment of potential outflow volumes using the increased average throughput volumes expected on Line 1 post expansion.	NEB_IR_No._4_17b.2	Scoping	Operations	
609	Engineering	NEB		Trans Mountain will voluntarily comply with the fire retardant design requirements of the National Fire Code of Canada, the Alberta Fire Code, and the British Columbia Fire Code for the existing secondary containment areas at Edmonton Terminal, Sumas Terminal, and Burnaby Terminal with the only exception of the Remote Impoundment at Edmonton Terminal.	NEB_IR_No._4_27	In Progress	Prior to construction	
610	Engineering	NEB		Trans Mountain will install fire protection systems on or nearby the proposed new tanks.	NEB_IR_No._4_29b	Scoping	Prior to operation	
611	Engineering	NEB		Trans Mountain will focus efforts during detailed engineering and design, construction, and commissioning, and in the execution of operations and maintenance programs and procedures, to prevent the alignment of conditions that could lead to a secondary containment pool fire event and the potential consequential effects.	NEB_IR_No._4_29c	Scoping	Project lifecycle	
614	Engineering	NEB		Kinder Morgan commits to completing a pre-reactivation inspection using the EMAT tool.	NEB_IR_No._4_42a	Scoping	Prior to operation	
615	Engineering	NEB		Prior to reactivation, Trans Mountain will complete the following activities to verify that the pipeline is safe to return to service: •Complete crack inspections of the pipeline system using the AFD and EMAT (refer to the response to NEB IR No. 4.42a) prior to the reactivation of the pipeline. •Complete high resolution metal loss inspections of the pipeline system prior to reactivation. •Complete high resolution geometry inspection of the pipeline system prior to reactivation. •Complete a hydrostatic test to revalidate the currently licensed MOP of the pipeline segments prior to reactivation. •Complete a USCD or EMAT inspection within 2 years of reactivation. •Complete ongoing crack management programs with includes: pressure cycle monitoring programs fatigue growth assessments to validate in-line inspection intervals oin-line inspections to look for SCC, Long Seam, pipe body, and co-commitment tracking (i.e. metal loss with cracking, dents with cracking).	NEB_IR_No._4_43c	Scoping	Prior to operation	
622	Engineering	NEB		Trans Mountain commits to complete excavations of all crack-like anomalies on the Hinton to Hargreaves section of line prior to hydrostatic testing and reactivation.	NEB_IR_No._4_43	Scoping	During construction	
625	Engineering	NEB		Trans Mountain will provide an updated engineering assessment (including fatigue assessments and future ILI schedules) upon completion of the baseline work and prior to the pipeline segments being placed in Line 2 service in 2018.	NEB_IR_No._4_44	Scoping	Prior to operation	
629	Engineering	NEB		Trans Mountain will adopt the more conservative risk-based approach that allows Geohazard to be prioritized, managed, and mitigated in the absence of mandatory design guidelines or standards.	NEB_IR_No._4_51b	Scoping	Prior to construction	
631	Engineering	NEB		Trans Mountain will meet or exceed both the minimum cover requirement specified by CSA Z662 and apply the Province of British Columbia’s more conservative one in two hundred year designated flood mandate for all river crossings.	NEB_IR_No._4_51b	Scoping	During construction	
632	Engineering	NEB		During detailed design Trans Mountain will carry out stress and strain based seismic assessments of the pipeline at critical locations including the Burnaby Mountain crossing.	NEB_IR_No._4_53	Scoping	Prior to construction	
637	Engineering	NEB		Trans Mountain will implement the type of engineered solution it has demonstrated in NEB IR No. 3.53a (Filing ID A4H1V2) to mitigate the induced voltages resulting from power line steady state and transient conditions once it completes the GPR study at the end of 2015.	NEB_IR_No._4_56	Scoping	Prior to construction	
644	Engineering	NEB		As part of condition compliance, Trans Mountain will provide the NEB with the results of Electrical Interference Analysis for pipeline segments that are less than 10m from BC Hydro power lines and the list of Pipeline Segments where mitigations in response to NEB IR No. 4.56a have been applied.	NEB_IR_No._4_57	Scoping	Prior to construction	
242	Engineering	NEB	Allan, Robyn	Submit the risk results for the two existing active pipe segments that will be incorporated into Line 2 using KMC’s risk model for operating pipelines to the NEB in a supplemental filing in Q3 2014.	NEB_IR_No._1.87c Allan_R_IR_No._1.17e	Complete	Q3 2014	
243	Engineering		Allan, Robyn	Trans Mountain has committed to the following pipeline integrity management actions for existing pipeline segments in addition to the proposed Line 2: For the currently active segments of Line 1 that will form part of Line 2, as committed to in the response to NEB IR No. 1.87: For the sections of Line 1 that will remain in their current operation as part of that pipeline: o Trans Mountain’s pipelines are managed through a Pipeline Integrity Management Program that utilizes regular re-evaluations of risk as the basis for identifying and prioritizing assessment and risk mitigation actions. o The risk assessment is updated on an annual basis to reflect mitigation efforts such as repairs or capital upgrades associated with our Natural Hazards Management Program. o In this regular re-evaluation of risk, High Consequence Areas receive an enhanced weighting in the risk assessment, and a higher priority for any consideration of assessment and mitigation.	Allan_R_IR_No._1.17e	Complete	Q3 2014	Please refer to the response to Allan R IR No. 1.17d.
244	Engineering		Allan, Robyn	Trans Mountain will incorporate data collected over the last 60 years on the existing Trans Mountain Pipeline system as input to the hazards and threats in the risk assessment on the Trans Mountain Expansion Project.	Allan_R_IR_No._1.17h	Complete	Q3 2014	Please see the response to Allan R IR No. 1.01a.
245	Engineering	NEB	Allan, Robyn; The Parks Canada Agency; Upper Nicola Band	Trans Mountain will file a Threat-Based Assessment for the reactivation segments in Q3 2014.	NEB_IR_No._1.86c Allan_R_IR_No._1.17e GoC_Parks_IR_No._1.1.08 Upper_Nicola_Band_IR_No._1.01a	Complete	Q3 2014	
246	Engineering	NEB	Allan, Robyn; The Parks Canada Agency; Upper Nicola Band	Trans Mountain will submit the final engineering assessment for the reactivation sections by the end of Q3 2014.	NEB_IR_No._1.86b Allan_R_IR_No._1.17e GoC_Parks_IR_No._1.1.08 Upper_Nicola_Band_IR_No._1.01a	Complete	Q3 2014	

247	Engineering		Amy, Chris	Geotechnical investigation to support horizontal directional drilling (HDD) along the route will be undertaken in 2014 along Brunette River.	Amy_C_IR_No._1.3u	Complete	Prior to Construction	
248	Engineering		British Columbia Hydro and Power Authority	Trans Mountain commits that on the new sections of Line 2 to design the crossing of designated BC Hydro access tracks to allow a typical BC Hydro work vehicle (normally a BCL-625 design truck) to cross the TMEP pipeline while in operation without BC Hydro needing to take additional measures.	BC_Hydro_IR_No._1.3.3.3	In Progress	Prior to Construction	
249	Engineering		British Columbia Hydro and Power Authority	Trans Mountain commits to work with BC Hydro over the next five months (May to October, 2014) to agree how potential impacts to BC Hydro infrastructure and BC Hydro's existing Right-of-Way (ROW) rights will be addressed.	BC_Hydro_IR_No._1.1.1.5	In Progress	Prior to Construction	Timeline for engagement extended
250	Engineering		British Columbia Hydro and Power Authority	Trans Mountain commits to working with BC Hydro to establish safe separation distances from the various power line circuits involved in the TMEP.	BC_Hydro_IR_No._1.1.1.3	In Progress	Prior to Construction	Timeline for engagement extended
251	Engineering		British Columbia Hydro and Power Authority	Trans Mountain confirms that it intends, where practical, to observe BC Hydro's 30 Metre Separation Requirement, but Trans Mountain also recognizes that there are specific route locations where corridor constriction, as a result of terrain and or adjacent development, will make this requirement impractical.	BC_Hydro_IR_No._1.1.1.2	In Progress	Prior to Construction	Timeline for engagement extended
252	Engineering		British Columbia Hydro and Power Authority	Trans Mountain is committed to continued engagement with BC Hydro in the detailed engineering and design of the pipeline and mitigation of potential adverse effects.	BC_Hydro_IR_No._1.1.1.4	In Progress	Prior to Construction	Timeline for engagement extended
253	Engineering		British Columbia Hydro and Power Authority	Trans Mountain will consult with BC Hydro's designated project manager during the Detailed Engineering and Design Phase of the Project to identify potential facility conflicts and develop reasonable mitigation plans. If mitigation requires BC Hydro to relocate facilities, Trans Mountain agrees to follow BC Hydro's TLRA process.	BC_Hydro_IR_No._1.2.2.1	In Progress	Prior to Construction	Timeline for engagement extended
739	Engineering		Farquhar, Edward	Trans Mountain will ensure that a review of shut-down procedures, including the rationale for selecting a 10-minute rule or another rule as may be appropriate, is part of the consultation program to be undertaken with the Province of BC.	Farquhar_T_IR_No._2.2.4a	Scoping	Operations	
492	Engineering	NEB		A transient analyses will be completed for Line 1 and Line 2 to confirm that pressures will remain within required limits during sudden changes in operating conditions.	NEB_IR_No._3.051b	In Progress	Prior to operation	
254	Engineering	NEB		Prior to reactivating the pipeline segments, Trans Mountain will run an axial flaw detection (AFD) ILI tool that is able to identify axially oriented features such as corrosion grooves, gouges and open cracks. Once the ILI results are received, Trans Mountain will do a number of digs to verify the tools' sizing accuracy and to assess any anomalies.	Volume 4A-119.	Scoping	During Construction	
626	Engineering; Environment		City of Burnaby	Trans Mountain is willing to work with the city of Burnaby collaboratively to develop an approach to construction that minimizes potential impacts on the Barnet Escarpment Urban Trail.	City_Burnaby_IR_No._2.100	Scoping	Prior to Construction	
819	Engineering; Environment		Fraser Valley Regional District	Trans Mountain has committed to use Vapour Recovery and Vapour Combustion technology at the Westridge Marine Terminal that will substantially reduce volatile organic compounds (VOC) emissions during product loading.	FVRD_IR_No._2.07a	Scoping	Operations	
904	Engineering; Environment		Metro Vancouver	Trans Mountain has committed to be under all applicable ambient air quality objectives and they are committed to mitigate to the appropriate emission levels and stack design to achieve those predicted concentrations. Trans Mountain has also committed to resolve the variability in the VOC measurements and refine the HYSYS model by Q2, 2015 by: <ul style="list-style-type: none"> <li>• undertaking additional sampling surveys at Westridge Marine Terminal;</li> <li>• selecting the most reliable VOC dataset;</li> <li>• re-running the calibrated HYSYS model to re-calculate Project VOC emissions;</li> <li>• re-running the CALPUFF dispersion model to demonstrate that predicted concentrations will continue to be less than the ambient objectives; and,</li> <li>• matching the needed level of emission control with the appropriate equipment package.</li> </ul>	Metro_Vancouver_IR_No._2.1.10b	In Progress	Q2 2015	Work is ongoing on all of the tasks by Levelton and CH2M. On track for completion by the end of Q2 2015 as also noted in the response to NEB IR 3.019a.
859	Engineering; Environment		Samson Cree Nation	Should the Project be granted approval, Trans Mountain will implement measures to manage access during construction with the objectives of safety for Project participants and the public and to minimize Project environmental disturbance. Trans Mountain will work with traditional land and resource users to select designated access locations for crossings over the construction right-of-way to allow safe access to traditional land.	Samson_Cree_Nation_IR_No._2.1.9	Scoping	Q4 2015	
929	Engineering; Environment		Simon Fraser University	Trans Mountain is committed to meeting the applicable ambient air quality objectives at each terminal and this is the primary criterion for determining tank design and vapour control configurations.	SFU_IR_No._2.5.10.1	Scoping	Prior to Construction	
719	Engineering; Environment		Township of Langley	Trans Mountain is prepared to discuss with the Township of Langley the need for and costs of additional inspection to ensure potential issues related to erosion control and sedimentation are managed during construction.	Langley_IR_No._2.13.e	Scoping	During Construction	
469	Engineering; Environment	NEB		Trans Mountain is committed to meeting the applicable ambient air quality objectives at each terminal.	NEB_IR_No._3.019b	In Progress	Prior to construction	
556	Engineering; Operations		Environment Canada	Trans Mountain will implement the following mitigation measures at the Westridge Marine Terminal to reduce potential effects from artificial lighting: <ul style="list-style-type: none"> <li>• Prevent sky-lighting which may lead to bird disorientation/collisions, where feasible, by: using low level and low intensity lighting; using no lighting in areas where no work is planned; using downturned shaded fixtures in light standards; and using a higher lumen/watt (light out to power in) ratio, such as metal halide lighting.</li> <li>• During migratory bird periods and/or during extreme weather events, bird strike warnings will be issued to berthed vessels with a request to reduce deck lighting.</li> <li>• Inform all operators of Project-related vessels of the hazards regarding bird strikes occurring at night because of deck lighting or inclement weather and bird collisions with Westridge Marine Terminal structures. Report all bird strikes/collisions immediately to Trans Mountain's Lead Activity Inspector and the Environmental Inspector. Bird strikes/collisions during operations will be reported to Kinder Morgan Canada's (KMC) Operations Supervisor.</li> </ul>	GoC_EC_IR_No._2.050	Scoping	Operations	
737	Engineering; Operations		Farquhar, Edward	Trans Mountain is committed to adding additional procedures to more specifically address slack line flow conditions to the existing KMC procedures. KMC will have these procedures completed and in use prior to the operation of the expanded pipeline system.	Farquhar_T_IR_No._2.2.1f	In Progress	Prior to operation	
738	Engineering; Operations		Farquhar, Edward	Trans Mountain is committed to adding additional procedures to more specifically address column separation prior to a pipeline start-up would be a useful enhancement to the existing procedures. KMC will have these procedures completed and in use prior to the operation of the expanded pipeline system.	Farquhar_T_IR_No._2.2.1h	In Progress	Prior to operation	
794	Engineering; Operations		Upper Nicola Band	As part of its Integrity Management Program, Kinder Morgan Canada has committed to continuing crack assessments and axial flaw assessments on a maximum interval of 5 years following the baseline assessments	Upper_Nicola_Band_IR_No._2.09d	Scoping	Project Lifecycle	
4	Environment		Adams Lake Indian Band	All dredging will be in accordance with the Department of Fisheries and Oceans Canada (DFO), Environment Canada, Port Metro Vancouver and other regulatory requirements and will occur within the DFO least-risk work window for Burrard Inlet, from August 16 to February 28, unless otherwise authorized by DFO (see Section 7.6.9.4 in Volume 5A). If dredging is required, detailed sampling will be conducted in the dredge area to characterise sediment chemistry and sediment plume modelling will be employed to determine the extent and magnitude of TSS generated during dredging.	ALIB_IR_No._1.3.01a	In Progress	Prior to Construction	

100	Environment		Adams Lake Indian Band	Prior to construction, a vegetation survey will be conducted to identify if any species that require special consideration before, during and after construction are present along the construction right-of-way. If warranted, detailed vegetation (including rare plants) assessments will be completed at sites where reclamation problems are identified in the Environmental Issues List.	ALIB_F-IR_No._1.4.5c	In Progress	Prior to and During Construction	
257	Environment		Adams Lake Indian Band	A management of change process will be followed ensuring changes to mitigation measures are approved and communicated to appropriate project personnel and regulatory agencies as required. Any changes will be captured in the Environmental Issue Tracking List and ultimately reported in the As-Built report that is submitted to the National Energy Board (NEB) following construction.	ALIB_IR_No._1.6.02b	In Progress	During Construction	
258	Environment		Adams Lake Indian Band	A minimum of two environmental compliance audits per year for each individual prime contractor (mainline construction) or construction spread will be conducted by a qualified, third-party consultant.	ALIB_IR_No._1.6.07	Scoping	During Construction	
259	Environment		Adams Lake Indian Band	A spotted owl mitigation plan will be prepared for the Project, following the guidelines and recommendations provided by BC MFLNRO, which have been applied on previous development projects (refer to NEB IR No. 1.46a and c). Consultation will continue over the planning phase of the Project to develop appropriate mitigation that meets regulatory expectations and conservation objectives.	ALIB_IR_No._1.5.5	In Progress	Meeting scheduled 3/18/2015	Please refer to the response to NEB IR No.1.45a for a summary of Trans Mountain's consultation to date with BC MFLNRO and Environment Canada regarding field survey and mitigation planning for Williamson's sapsucker and Lewis's woodpecker critical habitat.
260	Environment		Adams Lake Indian Band	As part of the Post-Construction Environmental Monitoring (PCEM) program, Trans Mountain will monitor the success of access control measures implemented along segments of the construction right-of-way by visually assessing evidence of human access.	ALIB_IR_No._1.5.7e	Scoping	Operations	
261	Environment		Adams Lake Indian Band	In areas where natural recovery is unsuccessful, remedial measures will be implemented and may include but not be limited to: soil stability or erosion control measures, seeding areas using an approved native seed mix, planting tree and/or shrubs, or additional access control measures to assist in vegetation establishment, survival and growth.	ALIB_F-IR_No._1.5.6a	Scoping	Operations	
262	Environment		Adams Lake Indian Band	In the event that construction-related issues persist past five years of monitoring, the Post-Construction Environmental Monitoring (PCEM) program will continue until measures are considered to be effective and the issue resolved.	ALIB_IR_No._1.6.08a	Scoping	Operations	
264	Environment		Adams Lake Indian Band	In the unlikely event of a spill that results in contamination of food fish for Aboriginal communities, should residual environmental effects or contamination remain, Trans Mountain would consult with affected Aboriginal communities to identify mutually acceptable in-kind or replacement measures to replace or offset impacts directly related to and caused by the spill.	ALIB_IR_No._1.3.38	Scoping	Prior to Construction	
265	Environment		Adams Lake Indian Band	Measurable targets will be developed as part of the Post Construction Environmental Monitoring (PCEM) program, by which the success of mitigation measures can be measured and the need for adaptive measures identified.	ALIB_IR_No._1.5.2c	Scoping	Operations	Please refer to ALIB IR No. 1.5.2a, 1.6.2a and 1.6.2b.
266	Environment		Adams Lake Indian Band	Should the potential for serious harm to fish that are part of, or support, a commercial, recreational, or Aboriginal (CRA) fishery unless authorized by the Department of Fisheries and Oceans Canada (DFO) be confirmed either during the self-assessment or upon National Energy Board (NEB) or DFO review, Trans Mountain will develop an appropriate Conceptual Fish Offset Plan (Offset Plan).	ALIB_IR_No._1.3.21	In Progress	Prior to Construction	For more information, please refer to the response to NEB IR No. 1.49d
267	Environment		Adams Lake Indian Band	Trans Mountain commits to developing and implementing a mitigation strategy for potentially affected grizzly bear populations that have an elevated conservation status. This grizzly bear mitigation strategy will include objectives consistent with current regulatory guidelines and will be developed in consultation with the appropriate regulatory authorities.	ALIB_IR_No._1.5.7d	In Progress	Prior to Construction	
268	Environment		Adams Lake Indian Band	Where required under the Canadian Environmental Assessment Act, 2012 and the National Energy Board Filing Manual, follow-up programs will be developed to compare predicted effects of the Trans Mountain Expansion Project to post-construction conditions.	ALIB_IR_No._1.6.09b	In Progress	Operations	
595	Environment		Adams Lake Indian Band	Develop a water and sediment sampling plan for use during construction	ALIB_IR_No._2.03.01	In Progress	Prior to Construction	
596	Environment		Adams Lake Indian Band	Environmental sampling (if required) will be conducted by a QEP-led crew.	ALIB_IR_No._2.03.02	Scoping	Prior to Construction	
598	Environment		Adams Lake Indian Band	Trans Mountain will provide Draft species-specific mitigation plans to Adams Lake Indian Band (ALIB) for review.	ALIB_IR_No._2.05.5	In Progress	Prior to Construction	
307	Environment		Adams Lake Indian Band; City of Burnaby	An Environmental Compliance Plan (ECP) will be prepared prior to the start of construction (Section 5.3 of Volume 6A)	ALIB_IR_No._1.6.01a, City_Burnaby_IR_No._1.26.01a, City_Burnaby_IR_No._1.26.01b	Scoping	Prior to Construction	
269	Environment		Adams Lake Indian Band; Kwantlen First Nation; Township of Langley	Wherever feasible, watercourse crossing construction activities will be timed to occur within the least risk biological windows to avoid causing serious harm to fishes and remain in compliance with the Fisheries Act.	ALIB_IR_No._1.3.13a, ALIB_IR_No._1.3.24b, Kwantlen_FN_IR_No._1.05.3, Langley_IR_No._1.01b	In Progress	During Construction	For more information, please refer to responses provided to ALIB IR No. 1.3.21 and NEB IR No. 1.49d.
271	Environment		Asini Wachi Nehiyawak Traditional Band	Trans Mountain would notify all relevant aboriginal groups regarding the development of the post construction monitoring Plan for reactivation activities.	AWNTB_IR_No._1.05.1b	Scoping	During Construction	
273	Environment		BC Nature and Nature Canada	Trans Mountain will provide an update on routing in Surrey Bend Regional Park, Colony Farms and Brunette River Greenway in Technical Update No. 1, to be submitted to the NEB in Q3 2014. The update will include additional information and a map of the proposed and alternative corridors being considered.	BC_Nature_Nature_Cda_IR_No._1.16a	Complete	Q3 2014	
562	Environment		BC Nature and Nature Canada	Trans Mountain commits to consulting with appropriate regulatory agency if there are scheduling conflicts related to the sensitive periods for amphibians and the construction schedule.	BC_Nature_Nature_Cda_IR_No._2.38	In Progress	During Construction	
275	Environment	NEB	BC Nature and Nature Canada; City of Abbotsford; City of Burnaby; May, Elizabeth; Province of British Columbia	A preliminary Geohazard assessment is currently being completed and will be provided as part of the risk assessment on Line 2 in Q3 2014.	NEB_IR_No._1.79b BC_Nature_Nature_Cda_IR_No._1.19a City_Burnaby_IR_No._1.46.04____s City_Burnaby_IR_No._1.33.34a City_of_Abbotsford_IR_No._1.13a May_E_IR_No._1.5a Province_BC_F-IR_No._1.1.01a	Complete	Q3 2014	



286	Environment		Black, John	Trans Mountain will conduct a wildlife survey at the Burnaby Terminal prior to clearing and construction activities.	Black_J_IR_No._1.2.1a	Scoping	Prior to Construction	
287	Environment		Burnaby Residents Opposing Kinder Morgan Expansion - BROKE; City of Burnaby; Tsleil-Waututh Nation	Trans Mountain has also commitment to filing the detailed human health risk assessment with the National Energy Board on June 16, 2014.	BROKE_IR_No._1.7e BROKE_IR_No._1.3c City_Burnaby_IR_No._1.01.09d Tsleil-Waututh_Nation_IR_No._1.4.2b	Complete	Q2 2014	
601	Environment		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Trans Mountain will consult with CGLAP in developing a list of suitable candidates for an Agricultural Monitor for the Fraser Valley.	CGLAP_IR_No._2.5c	Scoping	Prior to Construction	
288	Environment		Canadian Parks and Wilderness Society - BC Chapter	The affected area analysis for OGMA's will be updated when the construction right-of-way is finalized and at this stage the impact on OGMA's will be determined. Trans Mountain will work with the BC Ministry of Forests, Lands and Natural Resource Operations.	CPAWS_IR_No._1.2.1	In Progress	Prior to Construction	Trans Mountain provided a letter of comment to the Ministry of Forests, Lands, and Natural Resources Operation
294	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; New Democratic Party of Canada	Trans Mountain will update Project Pipeline Environmental Protection Plan with additional site-specific mitigation measures for watercourses identified as critical Nooksack dace habitat, to be filed at least 90 days prior to construction	CPAWS_IR_No._1.2.4 NEB_IR_No._1.52d NEB_IR_No._1.52e NDP_IR_No._1.1.8f	Scoping	Prior to Construction	
295	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; City of Coquitlam; Jensen, Catherine; Neskonlith Indian Band; New Democratic Party of Canada; Pro Information Pro Environment United People Network	If the results of the Stage 2 watercourse assessment change any of the conclusions presented in the Environmental and Socio-Economic Assessment (Volume 5A of the Application), Trans Mountain will submit an update to the NEB in Q4 2014.	CPAWS_IR_No._1.2.4 NEB_IR_No._1.52a NEB_IR_No._1.52b NEB_IR_No._1.52c NEB_IR_No._1.52d NEB_IR_No._1.52e NEB_IR_No._1.53a NEB_IR_No._1.53b NEB_IR_No._1.53c NEB_IR_No._1.53d NEB_IR_No._1.53e NEB_IR_No._1.53f NEB_IR_No._1.53g NEB_IR_No._1.53h NEB_IR_No._1.53i NDP_IR_No._1.1.8e NDP_IR_No._1.1.8f City_of_Coquitlam_IR_No._1.C.1b City_of_Coquitlam_IR_No._1.C.1c City_of_Coquitlam_IR_No._1.D.3 Jensen_C_IR_No._1.1.9a Neskonlith_IB_IR_No.1.II.2h Vilbvii Nooksack_Mitigation_Table	Complete	Q4 2014	
289	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; New Democratic Party of Canada	Trans Mountain will file the spotted owl mitigation plan with the NEB 6 months prior to commencing construction in WHA.	NEB_IR_No._1.45c NEB_IR_No._1.46c CPAWS_IR_No._1.2.4 NDP_IR_No._1.1.8f	Scoping	Prior to construction	
290	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; New Democratic Party of Canada	Trans Mountain will provide an update on consultation related to the mitigation strategy for the North Cascades Grizzly Bear Population Unit with the filing of NEB IR Round 2 responses in Q3 2014.	NEB_IR_No._1.47c CPAWS_IR_No._1.2.4 NDP_IR_No._1.1.8f	Complete	Q3 2014	
291	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; New Democratic Party of Canada	Trans Mountain will provide details of mitigation strategies for Lewis's woodpecker and Williamson's sapsucker in NEB IR Round 2 responses in Q3 2014.	NEB_F-IR_No._1.45b CPAWS_IR_No._1.2.4 NDP_IR_No._1.1.8f	Complete	Q3 2014	

292	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; New Democratic Party of Canada	Trans Mountain will provide results of meeting with Environment Canada and BC MFLNRO during NEB IR Round 2.	CPAWS_IR_No._1.2.4 NEB_IR_No._1.45b NDP_IR_No._ 1.1.8f	Complete	Q3 2014	
293	Environment	NEB	Canadian Parks and Wilderness Society - BC Chapter; New Democratic Party of Canada	Trans Mountain will provide results of meeting with Environment Canada during NEB Round 2.	NEB_IR_No._1.44b CPAWS_IR_No._1.2.4 NDP_IR_No._ 1.1.8f	Complete	Q3 2014	
873	Environment		Cheam First Nation and Chawathil First Nation	Cheam First Nation and Chawathil First Nation are jointly conducting independent, third-party TLRU studies. Upon receipt of the reports, Trans Mountain will incorporate the results into project planning and the Environmental Alignment Sheets as appropriate.	Cheam_and_Chawathil_FN_IR_No._2(b).1.3 .b	Scoping	Prior to construction	
23	Environment		City of Abbotsford	Trans Mountain will bore under paved and high-use roads, where practical. Where minor roads are crossed that may affect established community use/access routes, Trans Mountain will complete open cut crossing within one day, to the extent practical. Trans Mountain will also develop a Traffic and Access Control Management Plans for the Project and Traffic Control Plans for particular locations or regions, and will develop a communication plan for activities that impact normal traffic flow, such as road closures and detours.	City_of_Abbotsford_IR_No._1.01c	In Progress	During Construction	
296	Environment		City of Abbotsford	Abbotsford – Sumas Aquifer will be assessed as a high consequence area.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	Complete	Q3 2014	
297	Environment	NEB	City of Abbotsford	Vedder Aquifer will be assessed as a high consequence area.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	Complete	Project Lifecycle	
578	Environment		City of Abbotsford	The Reclamation Management Plan for the Project will be developed prior to construction and will incorporate re-vegetation principles for riparian areas in BC that are included in the Riparian Areas Regulation (RAR) revegetation guidelines (BC MOE 2012). Restoration strategies, including those for tree replacement will be developed in consultation with applicable landowners, the City of Abbotsford (on municipal lands) or the regulatory authority responsible for the management of Crown lands.	City_of_Abbotsford_IR_No._2.207d	In Progress	Prior to Construction	
206	Environment		City of Burnaby	Trans Mountain will work with private property owners and the City of Burnaby on reclamation plans for affected areas. Where deep trenchless methods are used the green belts will not be disturbed	City_Burnaby_IR_No._1.33.09d	Scoping	Prior to Construction	Please refer to the response to NEB IR No. 1.40
298	Environment		City of Burnaby	A Post-Construction Environmental Monitoring program will be conducted following construction to monitor any potential effects of the activities on adjacent vegetation.	City_Burnaby_IR_No._1.38.02b	Scoping	Operations	
299	Environment		City of Burnaby	An Environmental Inspector will be on-site during dredging activities to monitor the effectiveness of mitigation measures.	City_Burnaby_IR_No._1.32.02b	Scoping	During Construction	
300	Environment		City of Burnaby	If contaminated soil is encountered during construction, Trans Mountain will implement the Contamination Discovery Contingency Plan as identified in Section 5.2.4 of Volume 5A and Section 1, Appendix B of Volume 6B.	City_Burnaby_IR_No._1.43.03f	Scoping	Prior to Construction	to be included in the EPP
301	Environment		City of Burnaby	Trans Mountain is completing additional dispersion modelling to inform engineering design related to terminal operations during product loading and unloading. This information will be provided in the Technical Update No. 1 in Q3 2014.	City_Burnaby_IR_No._1.28.03a	Complete	Q3 2014	
302	Environment		City of Burnaby	Trans Mountain will add a statement to the environmental protection plans for the Pipeline, Facilities and Westridge Marine Terminal components of the Trans Mountain Expansion Project that it will continue to work with local municipalities to develop weed control plans that will be required for the Project.	City_Burnaby_IR_No._1.20.04b	In Progress	Prior to Construction	to be included in the EPP
303	Environment		City of Burnaby	Trans Mountain will adopt all mitigation measures recommended in Technical Report 5C-3 of Volume 5C, Terrestrial Noise and Vibration Technical Report (RWDI December 2013).	City_Burnaby_IR_No._1.27.02a	In Progress	During Construction	
304	Environment		City of Burnaby	Trans Mountain will commit to supplying Living Oceans and the City of Burnaby with the hourly meteorological data that has been collected since the commissioning of the SAM units at both the Burnaby and Sumas facilities by August 15th, 2014	City Burnaby Attachment - Table 1.04.14h	Complete	Q3 2014	
305	Environment		City of Burnaby	Trans Mountain will prepare an Air Emissions Management Plan for the Westridge Marine Terminal as per NEB draft Condition No. 21 which will involve installing a new ambient air quality monitoring station.	City_Burnaby_IR_No._1.04.14h, City_Burnaby_IR_No._ 1.28.01c	Scoping	Operations	cross reference: NEB IR No. 1.35a.
616	Environment		City of Burnaby	KMC commits to applying for amendments to Westridge waste discharge permit a minimum of 6 months prior to modifications to the sampling point(s) or drainage area(s) at the facility	City_Burnaby_IR_No._2.073	Scoping	Operations	
617	Environment		City of Burnaby	Wildlife field work for the Westridge Delivery Pipelines will be completed in 2015 in selected areas where habitat disturbance will occur.	City_Burnaby_IR_No._2.074a	Scoping	Prior to Construction	
618	Environment		City of Burnaby	An AIA will also be conducted on the proposed entry and exit points for the tunnel in 2015.	City_Burnaby_IR_No._2.074a	Scoping	Prior to Construction	
619	Environment		City of Burnaby	If historic contamination is discovered on City lands, Trans Mountain commits to notifying the City of Burnaby and providing a detailed remedial strategy.	City_Burnaby_IR_No._2.079b	Scoping	Prior to Construction	
620	Environment		City of Burnaby	Trans Mountain plans to engage with the City of Burnaby regarding the development of an Air Emissions Management Plan for the Westridge Marine Terminal.	City_Burnaby_IR_No._2.085 City_Burnaby_IR_No._ 2.086	Scoping	Operations	
623	Environment		City of Burnaby	If the Burrard Streets Alternative Alignment is selected, Trans Mountain commits to ensuring that Heron Creek is not crossed and silt fencing will be installed to manage run-off to ensure that this creek is not adversely affected.	City_Burnaby_IR_No._2.094	Scoping	During Construction	
624	Environment		City of Burnaby	In the event that the proposed alternative pipeline corridor for the Westridge Delivery Lines is selected for construction, a search for heron nests will be completed in the area of Heron Creek and the Burrard Inlet Conservation Area	City_Burnaby_IR_No._2.095	Scoping	Prior to Construction	
630	Environment		City of Burnaby	Trans Mountain will discuss the need for additional wildlife field work specific to species of special conservation status outside of areas mapped as critical habitat by Environment Canada with BC MFLNRO.	City_Burnaby_IR_No._2.115	In Progress	Prior to Construction	
635	Environment		City of Burnaby	Any disturbance to existing riparian vegetation or compensation areas will be re-established by Trans Mountain during the construction and reclamation phases of the TMEP.	City_Burnaby_IR_No._2.136	Scoping	Operations	

658	Environment		City of New Westminster	Trans Mountain will discuss potential overlap of the sensitive life-history phases of species with special conservation with the appropriate regulatory authority with respect to the Brunette Conservation Area.	City_New_Westminster_IR_No._2.A.3	In Progress	Prior to Construction	
308	Environment		City of Port Moody	Trans Mountain will meet with the City of Port Moody to discuss potential ecological enhancement opportunities for the Port Moody Arm area of Burrard Inlet.	City_of_Port_Moody_IR_No._1.4.2b	In Progress	Prior to Construction	cross reference: City of Port Moody IR No. 1.3.17a and NEB IR No. 1.51.
309	Environment		District of North Vancouver	Trans Mountain will install a new ambient air quality monitoring station at the Westridge Marine Terminal as per NEB draft Condition No. 21.	District_of_North_Vancouver_IR_No._1.5.03d	Scoping	Operations	
310	Environment		Environment Canada	Trans Mountain proposes to meet with Environment Canada and the other intervenors involved in the Lower Fraser Valley Air Quality group who are interested, in Q3 2014 to clarify assumptions and methodology for an updated marine air quality/greenhouse gas assessment using the MEIT to be conducted in 2015. (IR: EC requests that the Proponent re-evaluate the Base Case with berth and anchorage emissions included.)	Environment Canada Attachment - Table 1.058	Complete	Q3 2014; Q4 2014	Meetings with LFVAQCC held on September 25, 2014 and November 13, 2014, with additional written follow-up provided in December 2014.
315	Environment	NEB	Environment Canada	If a wetland is determined to not be on the trajectory to returning to pre-construction functional condition at the end of the Wetland Function Post-construction Monitoring Program (i.e., post-construction functional condition category is less than the pre-construction category), Trans Mountain will discuss the next steps with Environment Canada to achieve the goal of “no net loss” of wetland function.	NEB_IR_No._2.051b	Scoping	Prior to construction	
316	Environment		Environment Canada	Trans Mountain is committed to working with provincial regulatory agencies, tenure holders, Aboriginal communities and other stakeholders to identify opportunities to address potential residual Project effects on southern mountain caribou habitat.	EC P-IR_No._1.16	In Progress	Prior to Construction	
317	Environment		Environment Canada	Trans Mountain will determine the requirement for dredging, quantity of material, etc. after completion of a geotechnical investigation, which is planned for the summer / fall of 2014.	EC P-IR_No._1.27	In Progress	Prior to Construction	Geotechnical investigation to be completed by Q2 2015.
319	Environment		Environment Canada	If dredging is required, detailed sampling will be conducted in the dredge area to characterize sediment chemistry. Evaluation of disposal methods and re-use options will be conducted when data are available for the proposed dredge volume, and the chemical and physical characteristics of sediment in the dredge area are known.	GoC_EC_IR_No._1.020	In Progress	Prior to Construction	
320	Environment		Environment Canada	Peacock vinyl lichen ( <i>Leptogium polycarpum</i> ) will be included in Table B3 which lists potential rare plant and lichen species for the BC component of the proposed project.	GoC_EC_IR_No._1.048	In Progress	Prior to Construction	to be included in the EPP
321	Environment		Environment Canada	Trans Mountain will continue to consult with Environment Canada regarding recommendations and site-specific mitigation for SARA listed vegetation species that exist along the Project footprint.	GoC_EC_IR_No._1.046	In Progress	Prior to Construction	to be included in the EPP
322	Environment		Environment Canada	Where conflicts in mitigation measures such as timing windows may arise, Trans Mountain will consult with the appropriate provincial regulatory agencies to determine practical and effective mitigation.	GoC_EC_IR_No._1.054	In Progress	Prior to Construction	
518	Environment		Environment Canada	Trans Mountain is committed to meeting federal and provincial water quality guidelines for the protection of aquatic life during all stages of construction.	GoC_EC_IR_No._2.017	Scoping	During Construction	
519	Environment		Environment Canada	If the National Energy Board (NEB) and DFO determine that construction of the Westridge Marine Terminal is likely to result in serious harm to fish, Trans Mountain will implement marine fish habitat offsetting measures to counterbalance this serious harm.	GoC_EC_IR_No._2.017	Scoping	Operations	
520	Environment		Environment Canada	Trans Mountain will complete further effects assessment for the reactivation activities in accordance with the Parks Canada Directive on Implementation of CEAA 2012.	GoC_EC_IR_No._2.024 GoC_Parks_IR_No._2.132	Scoping	Prior to Construction	
522	Environment		Environment Canada	Trans Mountain is committed to the implementation of mitigation to ensure that the Project’s contribution to caribou mortality risk is effectively mitigated.	GoC_EC_IR_No._2.026	Scoping	Operations	
523	Environment		Environment Canada	Trans Mountain will assess whether length of trenchless crossing can be extended to provide a buffer zone(s) at each crossing site, where practicable for the locations identified in GoC EC IR No. 2.029a.	GoC_EC_IR_No._2.029	In Progress	Prior to Construction	
524	Environment		Environment Canada	Trans Mountain will provide Environment Canada with a map and spatial data (i.e. shape files) of the construction footprint within the Project’s Caribou RSA.	GoC_EC_IR_No._2.03	In Progress	Prior to Construction	
525	Environment		Environment Canada	Trans Mountain commits to schedule a meeting with Environment Canada to review the area of Project overlap/interaction with critical habitat.	GoC_EC_IR_No._2.035	In Progress	Prior to Construction	
526	Environment		Environment Canada	Trans Mountain will continue to consult with BC MFLNRO in regards to Oregon spotted frog.	GoC_EC_IR_No._2.036	In Progress	Prior to Construction	
527	Environment		Environment Canada	If cliff/caves that may provide suitable habitat for spotted bat (i.e., vertical cliff faces with warm aspects and heights of approximately 40 m to 400 m) or known caves occur within the Project Footprint, Trans Mountain will contact BC MFLNRO to discuss the appropriate survey method for determining if the cliff/cave is used by spotted bat.	GoC_EC_IR_No._2.037	In Progress	Prior to Construction	
528	Environment		Environment Canada	Trans Mountain will conduct spotted owl surveys in the Sowaqua Spotted Owl WHA in 2015 and 2016.	GoC_EC_IR_No._2.038	In Progress	Prior to Construction	
529	Environment		Environment Canada	Trans Mountain will finalize reclamation strategies before construction and will determine seed mixes in consultation with landowners or the appropriate Crown land managers.	GoC_EC_IR_No._2.045	In Progress	During Construction	
534	Environment		Environment Canada	Information on mortality and collision events will be compiled by the Environmental Monitor and included, as applicable, in post-construction monitoring reports for the Westridge Marine Terminal.	GoC_EC_IR_No._2.05	Scoping	Operations	Environmental Inspectors will record collision events during construction
535	Environment		Environment Canada	Trans Mountain is committed to the goal of “no net loss” of wetland function and plans to meet this goal through mitigation measures, post-construction monitoring and, if warranted, compensation.	GoC_EC_IR_No._2.054	Scoping	Prior to Construction	
538	Environment		Environment Canada	Trans Mountain will provide CALMET model input files for Burnaby Terminal and Westridge Marine Terminal Regional Study Area as requested.	GoC_EC_IR_No._2.059	Complete	Feb-15	
539	Environment		Environment Canada	Once the Process Design Basis for the emissions control system at Westridge Marine Terminal is finalized, Trans Mountain is willing to provide the process guarantees directly to the NEB and Environment Canada.	GoC_EC_IR_No._2.071	In Progress	During Construction	
544	Environment		Environment Canada	All construction right-of-way clearing activities and site reclamation activities will be in accordance with the Plant Protection Act – Balsam Woolly Adelgid (B.C. Reg. 414/92).	GoC_EC_IR_No._2.122	Scoping	Prior to Construction	
550	Environment		Environment Canada	Trans Mountain is committed to working with Parks Canada in developing and implementing a set of Management Objectives / Desired End Results with appropriate monitoring and performance criteria to ensure ecological integrity management objectives of Jasper National Park are achieved during reactivation..	GoC_EC_IR_No._2.137	In Progress	Prior to Construction	
552	Environment		Environment Canada	Trans Mountain will meet the requirements of the Parks Canada directive on human burials in National Park and NHS settings: Management Directive 2.3.1: Human Remains, Cemeteries and Burial Grounds (Parks Canada 2000).	GoC_EC_IR_No._2.141	In Progress	During Construction	
554	Environment		Environment Canada	Trans Mountain is willing to consider proposals from Parks Canada Agency to contribute to a positive legacy or net benefit to Jasper National Park and Mount Robson Provincial Park	GoC_EC_IR_No._2.148	In Progress	Operations	
557	Environment		Environment Canada	Wetland function post-construction monitoring will be conducted to review the area of disturbance and determine whether implemented mitigation measures were successful and to identify any wetlands where remedial measures should be implemented to assist with the wetland function recovery if warranted.	GoC_EC_IR_No._2.052	Scoping	Operations	

311	Environment		Environment Canada; Metro Vancouver	Trans Mountain recognizes that updating the photochemical modeling using the updated MEIT would be valuable to EC , MV and FVRD and commits to undertaking a similar modeling effort but using the updated MEIT when it is available. This update using the CMAQ model would not include all of the additional scenarios (i.e., another ozone episode, typical ozone episode under other meteorological conditions, seasonal and annual time periods) jointly requested by EC, MV and FVRD.	Environment Canada - Attachment - Table 1.6.07a)	Scoping	Prior to Construction	Completion of the updated CMAQ modelling using updated MEIT depends on timing and access to updated database.
312	Environment		Fraser Valley Regional District	Trans Mountain commits to complying with Metro Vancouver's Non-Road Diesel Engine Emission Regulation while operating in the Fraser Valley Regional District.	Fraser Valley Regional District Attachment - Table 1.04(c)	Scoping	During Construction	to be included in the EPP
313	Environment		Fraser Valley Regional District	Trans Mountain is committed to conducting water quality monitoring during construction.	FVRD_IR_No._1.27b	Scoping	During Construction	Cross reference: ALIB IR No. 1.3.34
815	Environment		Fraser Valley Regional District	Trans Mountain will work with the Fraser Health Authority (FHA), regarding Project construction activities to identify and develop resolutions to potential and specified concerns for the protection of drinking water supplies in the Fraser Valley Regional District (FVRD).	FVRD_IR_No._2.02	Scoping	Prior to Construction	
821	Environment		Fraser Valley Regional District	Trans Mountain commits to consult with the Lower Fraser Valley Air Quality Coordinating Committee commencing in Q1 2015 in the development of the Community Multi-Scale Air Quality (CMAQ) modelling plan for additional CMAQ modelling.	FVRD_IR_No._2.10	In Progress	Prior to Construction	
825	Environment		Fraser Valley Regional District	KMC commits to provide the Fraser Valley Regional District (FVRD) with monthly odour and air quality complaint reports during construction of the Trans Mountain Expansion Project (TMEP) within the FVRD geographical boundary.	FVRD_IR_No._2.17	Scoping	During Construction	
826	Environment		Fraser Valley Regional District	Trans mountain will engage Fraser Valley Regional District during the development of the Dust Management Plan.	FVRD_IR_No._2.18	Scoping	Prior to Construction	Will provide draft plan for comment
314	Environment		Fraser Valley Watersheds Coalition	In the event an amphibian salvage is needed, a specific plan will be developed for that location. The approach and methods will be based on the following report: <i>Best Management Practices for Amphibian and Reptile Salvages in British Columbia</i> (EDI Environmental Dynamics <i>et al.</i> , <i>in prep</i> ). Conditions of the amphibian salvage permit will be adhered to.	FVWC_IR_No._1.2.4	Scoping	During Construction	
951	Environment		Georgia Strait Alliance	Trans Mountain will consult with potentially affected communities, Aboriginal groups, local and regional authorities, and service providers regarding the Socio-Economic Effects Monitoring Plan.	Georgia_Strait_Alliance_IR_No._2(b).12c	Scoping	Prior to Construction	
270	Environment	NEB	Hackett, Angelika	Trans Mountain commits to common energy pipeline industry practices to minimize direct GHG emissions during construction and operation of the pipeline.	Hackett_A_IR_No._1.2.1b NEB_IR_No._2.019b	In Progress	Prior to Construction	Cross reference: NEB IRs 1.32 and 1.33b, and NEB IR No. 1.31
696	Environment		Horse Lake First Nation	Trans Mountain is committed to retain Aboriginal Monitors and is developing the details of Aboriginal Monitor participation through continued engagement with Aboriginal groups.	Horse_Lake_FN_IR_No._2.1	Scoping	During Construction	
699	Environment		Horse Lake First Nation	Trans Mountain will consult with Horse Lake FN during the development of the detailed Reclamation Management Plan	Horse_Lake_FN_IR_No._2.4b	Scoping	Prior to Construction	
754	Environment		Katzie First Nation	Provide Katzie First Nation with a 1:5,000 scale map (Reference (i), map number 201501_MAP_TERA_HER_00669_REV0) of all known archaeological sites located within 500 m of the Project Footprint, including sites DgRp-10, DhRq-17, DgRq-85, DhRq-36 and DhRq-43 if they are not already captured.	Katzie_FN_IR_No._2_2.02	Complete	Prior to Construction	
755	Environment		Katzie First Nation	Wildlife surveys within Surrey Bend Regional Park will be conducted once land access is granted.	Katzie_FN_IR_No._2_2.04	Scoping	Prior to Construction	
756	Environment		Katzie First Nation	A safe water supply will be provided to Aboriginal groups and individuals during the period that a drinking water advisory is in place to mitigate any effects of the project on surface and groundwater supply.	Katzie_FN_IR_No._2_2.12a	Scoping	Prior to Construction	
707	Environment		Living Oceans Society	Trans Mountain will provide the requested input files used to perform the CALMET/CALPUFF dispersion modelling for the Marine Air Quality and Greenhouse Gas Marine Transportation Technical Report for the Trans Mountain Expansion Project, Supplemental Report No. 2 (December 2014) (Marine Supplemental Report No. 2) (Filing ID A4F5H8) directly to Living Oceans on a USB stick (Living Oceans IR No. 2.1 – Attachment 1).	Living_Oceans_IR_No._2.1	Complete	Feb-15	
708	Environment		Living Oceans Society	Notwithstanding the limitations due to confidentiality and intellectual property outlined above, in addition to the name lists, run scripts, and emission descriptions, Trans Mountain agrees to supply the files that are specific to the estimated Project emissions at the time of the Application, outside of the NEB filing process. Trans Mountain will send these files directly to the Intervenor on a USB stick (Living Oceans IR No. 2.2 - Attachment 1).	Living_Oceans_IR_No._2.2	Complete	Feb-15	
709	Environment		Living Oceans Society	Any available wind data inputs will be provided directly to the Intervenor on a USB stick as the file format does not lend itself to filing with the National Energy Board (NEB). Trans Mountain will provide these files to the NEB and any Intervenor on request.	Living_Oceans_IR_No._2.3	Complete	Feb-15	
692	Environment		Metis Nation of Alberta Gunn Metis Local 55	In the event a heritage site is discovered, a qualified Heritage Resource specialist will develop, if warranted, an appropriate mitigative plan in consultation with the Lead Environmental Inspector(s), the Lead Activity Inspector(s) and the Construction Manager, and/or appropriate regulatory authority, as well as the applicable Aboriginal communities.	Gunn_Métis_Local_55_IR_No._2.30	Scoping	During Construction	
695	Environment		Metis Nation of Alberta Gunn Metis Local 55	Trans Mountain is committed to the development of the Reclamation Management Plan. The Reclamation Management Plan will also be developed in consultation with landowners, aboriginal communities and the applicable Crown land managers.	Gunn_Métis_Local_55_IR_No._2.48	Scoping	During Construction	
330	Environment		Metro Vancouver	Trans Mountain commits to meet with Metro Vancouver to discuss the methodology and results related to meeting applicable ambient air quality objectives.	Metro Vancouver Attachment - Table 1.1.6.04b	In Progress	Prior to Construction	Meetings with the LFVAQCC were held on September 25, 2014 and November 13, 2014. Additional information was provided in December 2014.
331	Environment		Metro Vancouver	Trans Mountain will install a new ambient monitoring station at the Westridge Marine Terminal in 2015 to meet the requirements of draft NEB Condition No. 21 which requires the methods and schedule for ambient monitoring of contaminants of potential concern in air including particulate matter, carbon monoxide, nitrogen dioxide, sulphur dioxide, hydrogen sulphide and volatile organic compounds.	Metro_Vancouver_IR_No._1.1.6.03i	Scoping	Operations	
902	Environment		Metro Vancouver	Trans Mountain gathered new information in 2014 and will conduct additional measurements of volatile organic compounds (VOCs) emissions during the tanker loading at the Westridge Marine Terminal for a variety of crude oil products in 2015.	Metro_Vancouver_IR_No._2.1.03	In Progress	Q4 2015	Sampling at WMT during tanker loading is ongoing in 2015 and a decision is being made by TM to continue in May as well.
916	Environment		Metro Vancouver	Trans Mountain will provide the requested CALMET input files, which were used in the Terrestrial assessment, directly to Metro Vancouver (and the National Energy Board or any other Intervenor upon request) via USB memory stick.	Metro_Vancouver_IR_No._2.1.04d	Complete	Feb-15	

917	Environment		Metro Vancouver	Trans Mountain will provide the requested 12 monthly CALMET input files, which were used in the Marine assessment, directly to Metro Vancouver (and the National Energy Board or any other Intervenor upon request) via USB memory stick.	Metro_Vancouver_IR_No._2.1.04e	Complete	Feb-15	
918	Environment		Metro Vancouver	Trans Mountain will provide the requested 5 seasonal geo-data files, which were used in the Terrestrial assessment, directly to Metro Vancouver (and the National Energy Board or any other Intervenor upon request) via USB memory stick.	Metro_Vancouver_IR_No._2.1.04f	Complete	Feb-15	
919	Environment		Metro Vancouver	Trans Mountain will provide the requested .data files directly to Metro Vancouver via USB memory stick.	Metro_Vancouver_IR_No._2.1.04g	Complete	Feb-15	
903	Environment		Metro Vancouver	The Google Earth file including all modeled buildings and stacks in Burnaby Terminal and Westridge Marine Terminal for Base Case will be provided directly to Metro Vancouver on a USB stick. Trans Mountain will also provide these files to the NEB and any other Intervenor on request.	Metro_Vancouver_IR_No._2.1.08b	Complete	Feb-15	
906	Environment		Metro Vancouver	A gas monitoring network, including hydrocarbon detectors on the Vapour Combustion Unit (VCU) and Vapour Recovery Units (VRUs) and reduced sulphur compound (RSC) detectors around the site, will be installed, for early detection of any leaks or equipment malfunction. The detection equipment will be integrated with the Westridge Marine Terminal control system to allow for continuous measurement of the performance of the VCU and VRUs to ensure that they are operating efficiently and effectively.	Metro_Vancouver_IR_No._2.2.1a	Scoping	During Construction	
909	Environment		Metro Vancouver	Trans Mountain will consult with the Lower Fraser Valley Air Quality Coordinating Committee commencing in Q1 2015 in the development of the Community Multi-Scale Air Quality (CMAQ) modelling plan for additional CMAQ modelling.	Metro_Vancouver_IR_No._2.3.1	In Progress	Q4 2015	
910	Environment		Metro Vancouver	Reclamation at fish-bearing watercourses, including riparian areas, will be conducted to stabilize the bed and banks, riparian areas and approach slopes.	Metro_Vancouver_IR_No._2.7.2a	Scoping	During construction	
915	Environment		Metro Vancouver	Trans Mountain, is willing to work in cooperation with Metro Vancouver as well as other local government, Aboriginal groups, regulatory authorities, and other stakeholders to explore ways to help further the recovery of aquatic ecosystems and species at risk that may be affected by TMEP activities in Surrey Bend Park, near Brunette River Greenway.	Metro_Vancouver_IR_No._2.7.6	Scoping	Prior to Construction	
913	Environment		Metro Vancouver	Trans Mountain, in cooperation with local communities, Aboriginal groups, regulatory authorities, and other stakeholders is committed to exploring ways through the environmental stewardship program to help further recovery of fish habitat that may be affected by TMEP activities in or near the Brunette Fraser Greenway.	Metro_Vancouver_IR_No._2.7.6	Scoping	Prior to Construction	
323	Environment		Natural Resources Canada	Environmental Inspectors will log the locations of highly vulnerable aquifers where mitigation measures are needed. These locations will be documented in the Construction As-Built report.	GoC_NRCan_IR_No._1.04.1	Scoping	During Construction	
324	Environment		Natural Resources Canada	In the event that highly decayed logs with suitability to provide wildlife habitat are encountered, they will be set aside during construction and then replaced onto the right-of-way during final clean-up, where possible.	GoC_NRCan_IR_No._1.06.0	Scoping	During Construction	
325	Environment		Natural Resources Canada	Visual monitoring of sea conditions will occur throughout the day when dredging is In Progress, combined with frequent inspections of turbidity curtains.	GoC_NRCan_IR_No._1.01.3c	Scoping	During Construction	
511	Environment		Natural Resources Canada	Trans Mountain commits to updating the air quality assessments for their three Lower Mainland storage terminals in 2015 to inform engineering design. Trans Mountain has also committed to Port Metro Vancouver (PMV) that an additional air quality assessment will be prepared when the design engineering has adequately progressed.	GoC_NRCan_IR_No._2.01	In Progress	Prior to Construction	
512	Environment		Natural Resources Canada	Trans Mountain has also confirmed that they will meet with the LFVAQCC in Q1 2015 to jointly develop a work plan for an updated photochemical modelling study that will be completed in Q4 2015.	GoC_NRCan_IR_No._2.01	In Progress	Prior to Construction	The draft work plan was sent to the LFVAQCC March 2015 requesting comments and input by April 17. A letter was received from MV indicating that the LFVAQCC would not be supporting the updated CMAQ modelling at all. Work is proceeding without the involvement of the LFVAQCC at this time.
517	Environment		Natural Resources Canada	Trans Mountain is committed to working with Aboriginal groups and other interested parties to identify the most appropriate means of offsetting serious harm to marine fish and fish habitat.	GoC_NRCan_IR_No._2.08	In Progress	Operations	
521	Environment		Natural Resources Canada	Upon completion of the In-Line Inspections, Trans Mountain will complete field surveys as needed prior to commencing reactivation activities to inform the development of mitigation measures to avoid, reduce and mitigate Project effects on wetlands, vegetation and wildlife species at risk and migratory birds, depending on the extent and nature of the reactivation activities.	GoC_EC_IR_No._2.024	Scoping	Prior to Construction	
867	Environment		New Democratic Party of Canada	To ensure that the sub tidal rock reef is successful and meets DFO’s policy of maintaining or improving the productivity and sustainability of CRA fisheries, Trans Mountain will monitor the reef annually for five years.	NDP_IR_No._2.1.7.b	scoping	Operations	
830	Environment		North Shore NOPE	TransMountain has committed to undertaking updated air quality assessments.	NSNOPE_IR_No._2.03c	Scoping	During Construction	Note that the final detailed engineering design of the facilities will be finished after construction of the pipeline has started.
831	Environment		North Shore NOPE	Trans Mountain is committed to demonstrating ongoing ability to meet the applicable ambient air quality objectives at each terminal for the final engineering design of the facilities.	NSNOPE_IR_No._2.03c	Scoping	During Construction	
832	Environment		North Shore NOPE	Trans Mountain intends to continue air quality modelling in 2015 to determine tank design, updated vapour control specifications, and any other related design change, using an iterative process.	NSNOPE_IR_No._2.03c	Scoping	Prior to Construction	
945	Environment		Peters Band	Trans Mountain is willing to investigate the use of chemical monitoring of groundwater should contamination be discovered during construction of the Project.	Peters_Band_IR_No._2(b). 2.5b	Scoping	During Construction	
75	Environment		Peters Band	Before construction, Trans Mountain will collect baseline water quality data from existing wells in areas of the reserve that are identified as having potential for contaminated soils. The wells will be resampled after trenching and when construction in the area has been completed. Sampling data will be compared to the baseline conditions.	Peters_Band_IR_No._2(b).2.5(b)	Scoping	Prior to construction	
694	Environment		Peters Band	Trans Mountain will retain Environmental Inspectors and Monitors with an understanding of the Contaminated Sites Regulation (B.C. Reg. 4/2014) and sampling protocols (BC Ministry of Environment 2009). If sampling is required it will be conducted under the direction of a Contaminated Sites Approved Professional (CSAP).	Peters_Band_IR_No._2(b).2.5(a)	Scoping	Prior to construction	

702	Environment		Peters Band	Trans Mountain commits to having Inspectors and Monitors responsible for identifying and mitigating environmental effects, including contamination.	Peters_Band_IR_No._2(b).2.5(b)	Scoping	During construction	
706	Environment		Peters Band	Trans Mountain will use chemical monitoring of groundwater on Peters Band reserve lands in areas where the contaminated sites review identifies a risk of contamination and there are relevant accessible water wells available.	Peters_Band_IR_No._2(b).2.5(b)	Scoping	During construction	
276	Environment	NEB	Province of British Colombia - BC Parks	A timber cruise will be conducted prior to construction.	BC Parks boundary adjustment application (August 2014)	Scoping	Prior to Construction	
277	Environment	NEB	Province of British Colombia - BC Parks	All access roads and trails would be reclaimed or deactivated and revegetated in consultation with BC Parks and other stakeholders.	BC Parks boundary adjustment application (August 2014)	Scoping	Operations	
279	Environment	NEB	Province of British Colombia - BC Parks	At pre-determined locations where vegetation is disturbed by construction, the use of plant transplants may be considered. Installation of nursery grown plant plugs, installation of locally sourced dormant woody species transplants, and seeding of native grass.	BC Parks boundary adjustment application (August 2014)	Scoping	Operations	
280	Environment	NEB	Province of British Colombia - BC Parks	During construction, Trans Mountain will ensure that all equipment arriving on site is clean and free of soils and plant materials. Where areas of concern for invasive plant species are identified, machine clean-off stations will be installed to mitigate for the potential for the spread of seed.	BC Parks boundary adjustment application (August 2014)	Scoping	During Construction	
281	Environment	NEB	Province of British Colombia - BC Parks	For maintenance and operations purposes, KMC will work with BC Parks to identify roads that may need to be reactivated and will determine which access controls (e.g., gates) may be warranted.	BC Parks boundary adjustment application (August 2014)	Scoping	Prior to Construction	
282	Environment	NEB	Province of British Colombia - BC Parks	KMC will ensure that access to any point on the pipeline is available year round in the event of an operational issue or in the unlikely event of a leak.	BC Parks boundary adjustment application (August 2014)	Scoping	Operations	
283	Environment	NEB	Province of British Colombia - BC Parks	Prior to construction a danger tree risk assessment will be carried out in accordance with Occupational Health and Safety Regulation to ensure worker safety under WorkSafeBC.	BC Parks boundary adjustment application (August 2014)	Scoping	Prior to Construction	
284	Environment	NEB	Province of British Colombia - BC Parks	Seed mixes will be developed in consultation with the BC Parks conservation specialist and will consist of species native to the park.	BC Parks boundary adjustment application (August 2014)	Scoping	Prior to Construction	
285	Environment	NEB	Province of British Colombia - BC Parks	Trans Mountain will work with ranchers, landowners, stakeholders and Resource Managers to deactivate access, where required, and improve access controls by installing fences, barriers and gates. For construction safety and to facilitate reclamation seeding, Trans Mountain proposes to fence off the right-of-way in select areas and install cross fenced passage ways for cattle access.	BC Parks boundary adjustment application (August 2014)	Scoping	Prior to Construction	
779	Environment		Province of British Columbia	Trans Mountain's Waste Management Plan and Environment Plan will be reviewed and enhanced prior to operations	Province BC IR No. 2.38	Scoping	Operations	
743	Environment		Salmon River Enhancement Society	Trans Mountain is committed to ensuring the maintenance of the productive capacity of water bodies that provide fish habitat and which are crossed by the proposed pipeline corridor. To achieve this end, Trans Mountain is proposing the implementation of appropriate channel and bank reclamation measures at each watercourse crossing.	SRES_IR_No._2(c).11.a	Scoping	During construction	
857	Environment		Samson Cree Nation	Trans Mountain is committed to continued engagement with Aboriginal groups when the Reclamation Management Plan is being finalized.	Samson_Cree_Nation_IR_No._2.1.4a	Scoping	Superseded by Condition	
858	Environment		Samson Cree Nation	The Reclamation Management Plan will be developed in consultation with Aboriginal communities, landowners and applicable Crown land managers.	Samson_Cree_Nation_IR_No._2.1.4c	Scoping		
930	Environment		Simon Fraser University	Resource specific mitigation measures, as appended to the Facilities EPP, will be provided in the Issued for Construction version of the Facilities EPP.	SFU_IR_No._2.5.18.1	Scoping	Prior to Construction	
931	Environment		Simon Fraser University	Trans Mountain will also conduct ambient air quality monitoring at the Westridge Marine Terminal and emissions source tracking of contaminants of potential concern. Contaminants of potential concern that will be directly measured include particulate matter (PM10 and PM2.5), carbon monoxide (CO), nitrogen dioxide (NO2), sulphur dioxide (SO2), hydrogen sulphide (H2S) and volatile organic compounds (VOCs).	SFU_IR_No._2.5.19.4	Scoping	Operations	
860	Environment		Squamish Nation	In addition, Trans Mountain will conduct a crab salvage program prior to the commencement of dredging.	Squamish_Nation_IR_No._2.05.p	Scoping	Prior to Construction	
748	Environment		Squamish Nation	Trans Mountain will assess the potential for serious harm resulting from a spill during the operation phase, including appropriate cleanup, mitigation, and potential offset measures if warranted, will be completed on a case-by-case basis, as required.	Squamish_Nation_IR_No. 2(c).01.g	Scoping	Operations	
855	Environment		Stk'emlupsemc Te Secwepemc Nation	Trans Mountain will ensure that an appropriately qualified professional will conduct any nest sweeps or species-specific surveys on SSN territory.	SSN_IR_No._2.32	Scoping	Prior to construction	
856	Environment		Stk'emlupsemc Te Secwepemc Nation	Trans Mountain will include SSN in discussions with BC Ministry of Forests, Lands and Natural Resource Operations if sensitive species are found within SSN territory.	SSN_IR_No._2.32	Scoping	Prior to construction	
326	Environment		The Parks Canada Agency	The restoration program for works conducted within Jasper National Park that cause disturbance to soil and vegetation will be based on classifications according to the soil and vegetation types as described in the Ecological Land Classification system for Jasper National Park	GoC_Parks_IR_No._1.2.3	Scoping	During Construction	
327	Environment		The Parks Canada Agency	Trans Mountain is committed to monitor specific issues beyond the five years in Jasper National Parks if environmental issues warrant. Trans Mountain is committed to the standards outlined in the Line Leaseholders Working Group.	GoC_Parks_IR_No._1.2.7	Scoping	Prior to construction	
328	Environment		The Parks Canada Agency	Trans Mountain is committed to the Management Object / Desired End Result with respect to Heritage Resources for reactivation activities in Jasper National Park.	GoC_Parks_IR_No._1.3.3	In Progress	Prior to Construction	
329	Environment		The Parks Canada Agency	Trans Mountain is committed to working with the Parks Canada Agency in developing a set of Management Objectives / Desired End Results that addresses commemorative integrity for the proposed reactivation activities on the Trans Mountain Expansion Project.	GoC_Parks_IR_No._1.3.1	In Progress	Prior to Construction	Cross reference: GoC Parks IR 1.3.3
333	Environment		Township of Langley	Trans Mountain will ensure that all construction equipment is free of invasive species seeds or debris when it arrives on the construction right-of-way. General pipeline construction mitigation measures regarding weeds and vegetative debris that may be applicable to the pipeline throughout all phases of construction are outlined in the Application, Section 7.0 of the Pipeline Environmental Protection Plan (Volume 6B) as well as the Weed and Vegetation Management Plan (Section 14.0 of Appendix C of Volume 6B). These mitigation measures will be implemented, as warranted, by Trans Mountain, its Contractors and subcontractors prior to and during construction.	Langley_IR_No._1.09c	Scoping	During Construction	to be included in the EPP
710	Environment		Township of Langley	Trans Mountain Pipeline ULC (Trans Mountain) commits to pre-construction sampling of water wells that are 10 m deep or less within 150m of the proposed right-of-way.	Langley_IR_No._2.08.a	Scoping	Prior to Construction	
720	Environment		Township of Langley	Trans Mountain commits to meet with the Township of Langley to further discuss the concerns regarding riparian vegetation.	Langley_IR_No._2.14.b	Scoping	Prior to Construction	
723	Environment		Township of Langley	Trans Mountain intends to consult with the Township of Langley regarding changes to the Township's parks, and minimizing construction damage, vehicle use and parking within the Township parks.	Langley_IR_No._2.18.a	Scoping	Prior to Construction	
725	Environment		Township of Langley	Trans Mountain commits to working with the Township of Langley to address site specific mitigation measures regarding the three (3) municipal parks affected by the proposed pipeline prior to construction in the parks	Langley_IR_No._2.18.b	Scoping	Prior to Construction	



334	Environment		Tsartlip First Nation	Archaeological heritage resource information received from participating communities will be reviewed in order to confirm mitigation measures including those found in the Environmental Protection Plans (Volume 6B, 6C and 6D).	Tsartlip_FN_IR_No._1.2.7.1	In Progress	Project Lifecycle	to be included in the EPP
335	Environment		Upper Nicola Band	An Avian Protection Plan will be prepared for the Project that will provide more detail on the potential effects and proposed mitigation measures.	Upper Nicola Band - Attachment - Table 1.16f	In Progress	Project Lifecycle	to be included in the EPP
336	Environment		Upper Nicola Band	Trans Mountain will develop an Avian Protection Plan using information and best practices outlined by the Avian Power Line Interaction Committee (2006, 2012).	Upper_Nicola_Band_IR_No._1.16j	Scoping	Operations	
804	Environment		Upper Nicola Band	Soil inspection site 71BH will be added to the revised Environmental Alignment Sheets when they are submitted in advance of construction.	Upper_Nicola_Band_IR_No._2.17b	Scoping	Project Lifecycle	
806	Environment		Upper Nicola Band	Buntzen and shallow Buntzen soils were identified during a supplemental soil survey. These soil units will be mapped in relation to the Project footprint on the Environmental Alignment Sheets that will be issued prior to the commencement of construction.	Upper_Nicola_Band_IR_No._2.24c	Scoping	Project Lifecycle	
807	Environment		Upper Nicola Band	Detailed reclamation strategies for sensitive areas will be finalized before construction and appropriate seed mixes and seeding strategies will be developed in consultation with the land owner or appropriate regulatory agency.	Upper_Nicola_Band_IR_No._2.24d	Scoping	Project Lifecycle	
808	Environment		Upper Nicola Band	Trans Mountain will consult with the Upper Nicola Band FN regarding their concerns during the development of detailed reclamation planning and prior to the finalization of the Reclamation Management Plan.	Upper_Nicola_Band_IR_No._2.24f	Scoping	Project Lifecycle	
811	Environment		Upper Nicola Band	The requested Watercourse Crossing Summary Table will be updated closer to construction, should additional unmapped watercourses be identified and assessed during the survey or a final route walk.	Upper_Nicola_Band_IR_No._2.31e	Scoping	Project Lifecycle	
812	Environment		Upper Nicola Band	Estimates for riparian disturbance will be assessed and updated, should additional unmapped defined watercourses be identified during survey or a route walk prior to construction.	Upper_Nicola_Band_IR_No._2.31f	Scoping	Project Lifecycle	
813	Environment		Upper Nicola Band	Should additional unmapped fish-bearing watercourses be identified during survey or a route walk prior to construction, Trans Mountain will assess these watercourses for the potential for Serious Harm.	Upper_Nicola_Band_IR_No._2.31i	Scoping	Project Lifecycle	
751	Environment		Upper Nicola Band	Should additional unmapped fish-bearing watercourses be identified during survey or a route walk prior to construction, Trans Mountain will assess these watercourses for the potential for Serious Harm.	Upper_Nicola_Band_IR_No._2(c).06.e	Scoping	Prior to construction	
758	Environment		Upper Nicola Band	Trans Mountain is committed to applying appropriate mitigation strategies during the construction of all the Project's watercourse crossings. Specific to aquatic environments that provide fish habitat, the Project will incorporate standard measures outlined by the Fisheries and Oceans Canada (DFO) Measures to Avoid Causing Harm to Fish and Fish Habitat and, if warranted, alternative or supplemental mitigation measures.	Upper_Nicola_Band_IR_No._2(c).07.e	Scoping	During construction	
337	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will complete post-construction noise monitoring at the Westridge Marine Terminal as per NEB Draft Condition No. 57 relating to post-construction noise surveys at select terminals.	PMV_IR_No._1.3.2	Scoping	Operations	
877	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	If it is identified during the development of the construction specifications for WMT that abrasive blasting or coating will be required over water, Trans Mountain will consult with Port Metro Vancouver (PMV) Environmental Programs Department staff to develop appropriate controls. Any controls will be included in the WMT Environmental Protection Plan (EPP).	PMV_IR_No._2.05a	Scoping	Prior to Construction	to be included in the EPP
879	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	At all times during construction, Trans Mountain will have a construction management and inspection team located at WMT, responsible for monitoring and enforcing compliance with the EPP.	PMV_IR_No._2.05a	Scoping	During Construction	
880	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	If an impact or hydraulic hammer is used for in-water pile installation, Trans Mountain will monitor both underwater pressure levels (measured in kPa) and underwater sound levels (measured in dB) during pile driving.	PMV_IR_No._2.07a	Scoping	During Construction	
882	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will consult Port Metro Vancouver and Environment Canada, in relation to disposal options, when the volume and chemical and physical properties of contaminated sediment are known.	PMV_IR_No._2.08	Scoping	Prior to Construction	
885	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will implement marine fish habitat offsetting measures to offset any serious harm to fish that are part of, or support, commercial, recreational or Aboriginal (CRA) fisheries.	PMV_IR_No._2.15a	Scoping	During Construction	
889	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain commits to working with Port Metro Vancouver (PMV) to develop an Air Management Plan that is consistent with the requested level of detail from PMV as part of PMV's permit application process.	PMV_IR_No._2.24	Scoping	Prior to Construction	
886	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will meet or exceed world standards in emission control practices as it has committed to design practices that represent state of the art technology and have selected a world leader in vapour control technology.	PMV_IR_No._2.24b	Scoping	Prior to Construction	
890	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain commits to providing emissions and dispersion modelling results for a Future without Project Scenario, consistent with the requested pollutants and averaging periods from Port Metro Vancouver (PMV), as part of PMV's permit application process.	PMV_IR_No._2.26	Scoping	Prior to Construction	
891	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain commits to providing annual emissions for the requested contaminants in the Base Case, Application Case, Project Effects and Cumulative Case, and consistent with the requested level of detail, as part of PMV's permit application process.	PMV_IR_No._2.26	Scoping	Prior to Construction	
892	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain commits to providing maximum predicted concentrations for all applicable averaging periods for the Background, Burnaby Terminal, Westridge Marine Terminal, Marine and Total, consistent with the requested level of detail and methodology from Port Metro Vancouver (PMV), as part	PMV_IR_No._2.26	Scoping	Prior to Construction	
338	Environment	NEB		An estimation of old growth areas impacted by the Project will be provided in the first half of 2015 once the construction right-of-way and footprint is further delineated.	NEB_IR_No._2.053e	In Progress	Prior to construction	
339	Environment	NEB		Appendix M of the Pipeline Environmental Protection Plan will be updated 90 days prior to commencing construction.	NEB_IR_No._1.18e NEB_IR_No._1.18d	Scoping	Prior to construction	
340	Environment	NEB		Appropriate mitigation (e.g., scheduling to avoid periods when birds congregate, protective buffers) will be implemented to reduce the potential Project effects on migratory birds.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	Scoping	Project Lifecycle	To be outlined in the EPP
341	Environment	NEB		Appropriate mitigation (e.g., soil handling, erosion control) and monitoring activities will be implemented during construction to maximize reclamation success. Project-generated garbage or debris will be removed regularly from along the construction right-of-way and facility sites. After the pipeline trench has been backfilled, and once weather and soil conditions permit, cleanup and reclamation activities will start along the disturbed portions of the pipeline right-of-way. This will be done using bulldozers, backhoes, graders and farm equipment, where required. The topsoil or stripping will be replaced, and cross ditches and diversion berms will be installed on moderate and steep slopes to reduce the risk of erosion.	Pre-Application Project Description, p 21.	Scoping	During Construction	To be outlined in the EPP

342	Environment	NEB		As part of Trans Mountain’s commitment to environmental protection, Trans Mountain will minimize potential adverse impacts to wetlands by repairing any erosion control or restoration features until permanent revegetation is successful.	Technical Update No. 1 & Consultation Update No. 2 - Part 2 Table 1.6.2-1	Scoping	Operations	
343	Environment	NEB		As with all of its construction Projects, Trans Mountain will reclaim any areas that are affected by the proposed pipeline including the pipeline right-of-way and surrounding areas following construction.	Volume 5B, 3-11	Scoping	Operations	Reclamation Plans
344	Environment	NEB		Details of mitigation strategies for Pacific water shrew will be provided with the filing of NEB IR Round 2 responses in Q3 2014.	NEB_IR_No._1.44c	Complete	Q3 2014	
345	Environment	NEB		Due to the existing cumulative effects risk for grizzly bear and management guidance to avoid further effects, Trans Mountain will implement mitigation measures to minimize effects on this species (see response to NEB IR No. 1.47 [Filing ID A3W9H8]).	NEB_F-IR_No._2.034b NEB_IR_No._2.034b	In Progress	Prior to construction	Wildlife – Mammals - Grizzly bear population assessment
346	Environment	NEB		Environmental compliance audits will be commissioned by the KMC Legal Department and will be administered by KMC’s EHS Department. A number of internal compliance audits are expected over the life of the Project.	Volume 6A, 3-6.	Scoping	Operations	
347	Environment	NEB		For acoustic environment, the monitoring results will be filed with the NEB within 6 months of conducting the initial measurements. Measurement programs will be scheduled within the first 6 months of normal operations, but will be weather and activity dependent.	NEB_IR_No._2.067e	Scoping	Operations	
348	Environment	NEB		In the event the schedule changes and clearing activities are planned during the migratory bird RAP, a migratory bird nest sweep will be conducted. In the event an active nest is found, a protective buffer will be established around the nest. The size of the buffer will be influenced by the status of the bird. Typically a 30 m buffer is applied to a songbird nest and a 100 m buffer around waterfowl or raptor nests.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.2-1	Scoping	Prior to Construction; During Construction	
349	Environment	NEB		KMC will screen the tankers nominated to call on the Westridge Marine Terminal to check that they are implementing a VOC management plan.	Technical Update No. 1 & Consultation Update No. 2 - Part 2 Table 1.6.3-1	In Progress	Operations	
350	Environment	NEB		The need and methods for a bear den sweep will be discussed with the appropriate regulatory agency in the event construction activity is scheduled to coincide with the period when bears are denning and habitat suitability for denning is high.	NEB_IR_No._2.037b	In Progress	Prior to construction	
351	Environment	NEB		To meet environmental commitments and permit requirements during Project activities, Trans Mountain will implement an environmental inspection and monitoring program that includes management oversight, on-site environmental inspection, various available environmental training programs for all on-site personnel and access to other environmental resources (e.g., wildlife biologists, water quality monitors) on an as needed basis.	Volume 6A, 3-1.	In Progress	Project Lifecycle	
352	Environment	NEB		To protect riparian habitat and watersheds, crossings of wetlands and watercourses will be planned during suitable ground and weather conditions, with the consideration for sensitive fish and wildlife timing windows.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	In Progress	During Construction	
354	Environment	NEB		Trans Mountain is committed to a conservation offset program for the entire Project that results in a net benefit to communities and biodiversity. TMEP is commitment to exceed minimum standards in areas with acknowledged biodiversity values.	NEB_IR_No._2.042c	In Progress	Prior to construction	
355	Environment	NEB		Trans Mountain is committed to best practices in reclamation, always striving for opportunities leading to advancement. As with all of its construction projects, Trans Mountain will reclaim any areas that are affected by the Project. Trans Mountain is committed to full reclamation of the pipeline right-of-way and surrounding areas following construction.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	Scoping	Operations	Reclamation Plans
357	Environment	NEB		Trans Mountain will conduct a Post Construction Environmental Monitoring (PCEM) program during a period up to the first five complete growing seasons (or during years one, three and five) following commissioning of the Project and as a consequence of conditions that may be attached to the CPCN.	Volume 1, section 3.1.3.	Scoping	Operations	
359	Environment	NEB		Trans Mountain will develop and implement an environmental education program to ensure that all individuals involved in the construction of the Project understand the environmental requirements of the Project and their role and responsibilities with regard to meeting those requirements.	Volume 6A, 6-1.	In Progress	Q4 2015	
360	Environment	NEB		Trans Mountain will file Mitigation Plans for Lewis’s woodpecker and Williamson’s sapsucker with the NEB at least 4 months prior to commencing construction.	NEB_F-IR_No._1.45c	In Progress	Prior to construction	
361	Environment	NEB		Trans Mountain will file Mitigation Plans for Townsend’s mole and Pacific giant salamander with the NEB at least 4 months prior to commencing construction.	NEB_F-IR_No._1.44d	In Progress	Prior to Construction	
362	Environment	NEB		Trans Mountain will implement a monitoring program to determine the effectiveness of the erosion and sediment control mitigation measures during construction in preventing terrestrial sediment loading into the marine environment	Volume 5A, 7-407.	Scoping	During Construction	Part of the PCEM reporting
363	Environment	NEB		Trans Mountain will implement recommendations from Alberta Culture and will provide the NEB with a copy of the Historical Resources Act clearance letter upon receipt. Trans Mountain will also implement recommendations from BC Archaeology Branch and will provide the NEB with a copy of the Heritage Conservation Act acceptance letter upon receipt.	Volume 5B, 7-9	In Progress	Project Lifecycle	
364	Environment	NEB		Trans Mountain will monitor the condition of the right-of-way in a timely manner after any heavy rainfall events to look for erosion or washout areas and remediate any damage to protect the integrity of the pipeline.	Volume 5A, 7-530.	Scoping	Operations	To be outlined in the EPP
365	Environment	NEB		Trans Mountain will provide advance notification to regulatory authorities responsible for fish and wildlife management with final routing information, including maps, as well as construction schedule information, so they can communicate this information broadly in wildlife and fur management areas. Trans Mountain will also directly notify affected tenure holders so they can select alternate areas for their activities.	Volume 5B, 7-108.	Scoping	Project Lifecycle	
366	Environment	NEB		Trans Mountain will report any rare plants or rare lichens identified to the provincial conservation data centre.	Volume 5A, 8-113.	In Progress	Project Lifecycle	
367	Environment	NEB		Trans Mountain will work with Environment Canada and comply with the Migratory Birds Convention Act and Migratory Birds Sanctuary Regulations, as well as any provincial and territorial wildlife agencies related to the Project components and impacts. Clearing and pre-construction activities will be conducted outside the minimum migratory bird restricted activity period (RAP) of May 1 to July 31, where practical. In the event that the schedule changes and clearing activities are planned during the migratory bird RAP, a migratory bird nest sweep will be conducted. In the event that an active nest is found, a protective buffer will be established around the nest. The size of the buffer will be influenced by the status of the bird. Typically a 30 m buffer is applied to a songbird nest and a 100 m buffer is applied around waterfowl or raptor nests. Recommended mitigation measures are identified in Volume 6B – Pipeline Environmental Protection Plan.	Part 2 – Consultation Update No. 1	In Progress	Prior to Construction	To be outlined in the EPP
368	Environment	NEB		Trans Mountain will work with provincial regulatory authorities, tenure holders and other stakeholders to identify opportunities to address potential residual Project effects on caribou habitat.	Volume 5A, 7-271.	In Progress	Project Lifecycle	

369	Environment	NEB		Trans Mountain will work with the appropriate regulatory authorities to develop a mitigation strategy to address the Project’s incremental cumulative effect on grizzly bear in the North Cascades Grizzly Bear Population Unit (GBPU).	Volume 5A, 8-151.	In Progress	Project Lifecycle	
370	Environment	NEB		Trans Mountain will work with various provincial and federal agencies with responsibilities related to air emissions from the Project components.	NEB_IR_No._2.027	In Progress	Prior to construction	
470	Environment	NEB		Trans Mountain will establish Groundwater Monitoring Programs for Alberta and Niton pump stations in 2015. These are scheduled as part of the annual addition to the Groundwater Monitoring Program.	NEB_IR_No._3.22c.2	Scoping	Operations	
473	Environment	NEB		Trans Mountain commits to produce site-specific mitigation measures for all rare plant, rare lichen and rare ecological community occurrences observed on the final Project footprint.	NEB_IR_No._3.026	In Progress	Prior to construction	
474	Environment	NEB		The location of all sensitive vegetation features and their site-specific mitigation measures will be on the Environmental alignment sheets (EAS). The EAS will illustrate the features and provide guidance to mitigation measures and management plans provided in the Environmental Protection Plan and Management Plans.	NEB_IR_No._3.026	In Progress	Prior to construction	
475	Environment	NEB		The final Reclamation Plan will be completed prior to construction in consultation with BC Parks.	NEB_IR_No._3.026d	In Progress	Prior to construction	
476	Environment	NEB		Trans Mountain commits to continue the discussion with BC MFLNRO . An updated table of the OGMA areas affected by the refined construction footprint and shape files will be provided to BC MFLNRO prior to the meeting.	NEB_IR_No._3.027	In Progress	Prior to Construction	
477	Environment	NEB		Trans Mountain commits to reviewing replacement options for OGMA’s if unavoidable adverse effects result from the Project.	NEB_IR_No._3.027	Scoping	Prior to Construction	
478	Environment	NEB		Trans Mountain remains committed to conducting ground-based surveys at all wetlands encountered by the Project prior to construction.	NEB_IR_No._3.028a	Scoping	Prior to construction	
479	Environment	NEB		Trans Mountain will advise the NEB in the event that it is unable to complete surveys of wetlands not previously surveyed prior to construction and will provide the NEB with a summary of its attempts to obtain access.	NEB_IR_No._3.028	Scoping	Prior to Construction	
480	Environment	NEB		Approximately 117 wetlands crossed by the proposed pipeline corridor will be targeted for supplemental surveys prior to construction, subject to land access.	NEB_IR_No._3.028	Scoping	Prior to Construction	
481	Environment	NEB		Trans Mountain has committed to prepare a Mitigation Plan (NEB F-IR No. 1.44d [Filing ID A3Z4T4]), and provide an assessment of Townsend’s mole.	NEB_IR_No._3.029c	In Progress	Prior to construction	
482	Environment	NEB		Trans Mountain will continue to develop and implement an Environmental Stewardship program as part of the Trans Mountain Expansion Project. Trans Mountain will negotiate Memoranda of Understanding (MOU) with key stakeholders in each community that could be involved in the Environmental Stewardship Program.	NEB_IR_No._3.036a	Scoping	Prior to Construction	
484	Environment	NEB		Trans Mountain will develop and implement environmental offset projects to focus on parks and protected areas, BC interior grasslands, species at risk and their habitat, aquatic ecosystems, and old growth management areas.	NEB_IR_No._3.036a; NEB_IR_No._3.037	In Progress	Prior to Construction	
485	Environment	NEB		Trans Mountain is committed to providing a summary of the proposed offset projects to the NEB once they are defined and the necessary approvals / permits to construct and operate in the four proposed BC provincial parks and one recreation area have been granted.	NEB_IR_No._3.037	Scoping	During Construction	
486	Environment	NEB		Trans Mountain will include additional site-specific mitigation measures for watercourses identified as critical Nooksack dace and Salish sucker habitat in the final Pipeline Environmental protection Plan.	NEB_IR_No._3.039	In Progress	Prior to Construction	to be included in the EPP
487	Environment	NEB		Trans Mountain will obtain necessary permits under SARA for the salvage of all relevant freshwater fishes.	NEB_IR_No._3.042	Scoping	During Construction	
510	Environment	NEB		Spawning surveys will be conducted before and during construction (where practical/feasible) at crossings with high potential spawning habitat, and where spawning exclusion devices (e.g., placement of snow-fence or other matting over spawning substrate) are not already in use.	NEB_IR_No._3.38d.1	Scoping	Prior to Construction	
888	Environment	NEB		Trans Mountain will develop an Aboriginal Monitors plan ☐	Pre-Application Project Description, p 44, 45.	In Progress	Prior to Construction	
763	Environment	NEB		Trans Mountain will take a proactive approach to Burnaby Mountain tunneling operations and associated activities and will require all machinery and equipment to be maintained and operated to manufacturer’s standards and to the regulatory conditions of air emissions and construction permits.	NEB_IR_No._4_3c	Scoping	During construction	
768	Environment	NEB		Trans Mountain will restore disturbed riparian zones.	NEB_IR_No._4_7a	Scoping	During construction	
773	Environment	NEB		Trans Mountain will include a Dust Mitigation Plan as a component of the Fugitive Emissions Management Plans which must be submitted to the National Energy Board at least four months prior to commencing construction in accordance with NEB Draft Conditions Numbers 20 (Westridge Marine Terminal) and 22 (tank terminals) of the NEB’s Letter.	NEB_IR_No._4_3a.4	Superseded by conditions	Prior to construction	
777	Environment	NEB		With respect to mitigation measures, Trans Mountain will align with the broader strategies identified in the Recovery Strategy for Nooksack dace and Salish sucker.	NEB_IR_No._4_7c	Scoping	During construction	
780	Environment	NEB		Trans Mountain will ensure that adequate riparian setbacks are maintained for all watercourse crossings and that the amount of riparian vegetation removal is limited during construction.	NEB_IR_No._4_7c	Scoping	During construction	
784	Environment	NEB		Trans Mountain will revise additional site-specific mitigation measures for watercourses identified as critical Nooksack dace to include similar riparian reserve measures proposed for Salish sucker which will be included in final Pipeline EPP.	NEB_IR_No._4_7	Scoping	Prior to construction	
792	Environment	NEB		Trans Mountain will include additional site-specific mitigation measures for watercourses identified as critical Nooksack dace and Salish sucker habitat in the final Pipeline EPP, to be filed with the NEB.	NEB_IR_No._4_7	Scoping	Prior to construction	
795	Environment	NEB		To maintain fish migration beyond the Project’s footprint during construction, Trans Mountain remains committed to adhering to all associated federal and provincial requirements for providing fish passage, where warranted.	NEB_IR_No._4_8b	Scoping	During construction	
796	Environment	NEB		Although no Oregon spotted frog were identified during the March 2015 surveys, Trans Mountain will continue to work with BC MFLNRO to discuss mitigation measures for Oregon spotted frog.	NEB_IR_No._4_10	Scoping	Prior to construction	

798	Environment	NEB		Trans Mountain will update Table L2 of the Pipeline EPP to more clearly link the mitigation measures already listed in the EPP to Western barn owl.	NEB_IR_No._4_10	Scoping	Prior to construction	
800	Environment	NEB		Trans Mountain will prepare Mitigation Plans for the Oregon forest snail and Oregon spotted frog.	NEB_IR_No._4_10	Scoping	Prior to construction	
803	Environment			Trans Mountain will specifically update Table L2 in the Pipeline EPP, to link mitigation measures already provided in the EPP to species with early candidate critical habitat of the American badger (jeffersonii subspecies), Western barn owl and Western screech owl (macfarlanei and kennicottii subspecies).	NEB_IR_No._4_10	Scoping	Prior to construction	
809	Environment	NEB		Trans Mountain will consult with the appropriate regulatory authority to discuss project routing in relation to early candidate critical habitat and recommend field visit to review the presence of biophysical attributes of key critical habitat.	NEB_IR_No._4_10	Scoping	Prior to construction	
881	Environment		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will consult with Port Metro Vancouver (PMV) if disposal of sediment on PMV lands or water is proposed.	PMV_IR_No._2.07c	Scoping	Prior to Construction	
371	Environment; Lands		Pro Information Pro Environment United People Network	If herbicide is to be applied in close proximity to a certified organic farm the contractors will be supervised by a qualified environmental professional to ensure that the farms are not affected by the activity. If weeds need to be controlled through a certified organic farm, Kinder Morgan Canada will coordinate an acceptable solution with the landowner/land manager to mitigate the weed concerns.	PIPEUP_IR_No._1.6.3	Scoping	During Construction	
833	Human Health		Natural Resources Canada	Trans Mountain will update the human health risk assessment (HHRA) for the Burrard Inlet area if revisions to air dispersion modelling based on final or near final engineering design result is increases in the concentrations of air pollutants over populated areas for the Base, Application and Cumulative cases.	GoC_NRCan_IR_No._2.01_followup	Scoping	Prior to operation	
563	Lands		BC Nature and Nature Canada	Trans Mountain affirms its commitment to avoid the use of Colony Farm's land to the maximum extent practical.	BC_Nature_Nature_Cda_IR_No._2.41d.1	In Progress	Operations	
82	Lands		Burnaby Teachers' Association	Trans Mountain Pipeline ULC can guarantee that no school will be expropriated in order to construct the Trans Mountain Expansion Project.	BTA_IR_No._1.1	Complete	No commitment date	
373	Lands		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Trans Mountain is committed to systematic and timely communication with farm operators. Based on this communication, detailed biosecurity measures will be developed collaboratively between the farm operator and Trans Mountain.	CGLAP_IR_No._2.8b	Scoping	During Construction	
374	Lands		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Trans Mountain will bear the costs associated with the removal of soil, rocks, and debris, including the costs for permitting of the removal that are directly attributable to the Project.	CGLAP_IR_No._2.7h	Scoping	During Construction	
375	Lands		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Trans Mountain will meet with the BCALC again in the fall of 2014 to review Trans Mountain's commitments to agriculture and obtain further input from the BCALC. Trans Mountain will incorporate all reasonable requests from the BCALC into the construction documents, including the final Pipeline Environmental Protection Plan.	CGLAP_IR_No._2.1a	Complete	Q3 2014	to be included in the EPP
376	Lands		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Where a landowner raises a concern, or post construction monitoring identifies an issue, the Agricultural Monitor will take core soil samples across the construction right-of-way and off right-of-way to assess conditions, define anomalies, and make recommendations to resolve identified concerns.	CGLAP_IR_No._2.5f	Scoping	During Construction	
602	Lands		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Provide Landowners with a schedule of work to be conducted on their lands, at least 21 days in advance of the start of construction.	CGLAP_IR_No._2.9d	Scoping	Prior to Construction	
603	Lands		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Trans Mountain commits that its land agents working on the TMEP will complete the Canadian Energy Pipeline Association Land Agent Program.	CGLAP_IR_No._2.9g	In Progress	Prior to Construction	
372	Lands		City of Abbotsford	Should Ledgeview Golf Course experience lost revenue as a result of the construction of the Trans Mountain Expansion Project, Trans Mountain would intend to employ 'actual loss' compensation for any reductions in golf course revenue caused by the construction and operation of the pipeline.	City_of_Abbotsford_IR_No._1.25b	Scoping	Project Lifecycle	
641	Lands		City of Coquitlam	Trans Mountain will commit to paying for the costs associated with relocation or alteration of existing Methane collection system if its required to do so for TMEP construction.	City_of_Coquitlam_IR_No._2.D	Scoping	Operations	
732	Lands		City of Richmond	Should residual impacts or damages remain from construction, or damages result from operations of the pipeline, Trans Mountain would provide commensurate compensation for damages directly related to and caused by the construction or operations of the pipeline.	City_of_Richmond_IR_No._2.2.11	Scoping	Project Lifecycle	
733	Lands		City of Richmond	Trans Mountain would intend to employ 'actual loss' compensation for any reductions in revenue caused by the construction and operation of the pipeline.	City_of_Richmond_IR_No._2.2.11	Scoping	Project Lifecycle	
378	Lands		Kingman, Brian	The Kingman's are to be offered the Right of First Refusal on the logs cut on their property or equivalent compensation. The tree stumps from cut trees will be ground up by a grinder or hauled away from the property. The details of which trees are to be removed will be determined in a site visit between Landowner and the Trans Mountain Land Agent and documented on construction Line List provided to contractor.	Kingman_B_IR_No._1.3b	Scoping	During Construction	
865	Lands		Squamish Nation	Trans Mountain will commit to paying all claims for which it is legally responsible; this could be the case for a land-based spill from a pipeline or marine terminal incident if oil spill impacts occurred within Squamish territory.	Squamish_Nation_IR_No._2.15.c	Scoping	Project Lifecycle	
834	Lands		Strata NW 313	Trans Mountain will have full-time land agents available throughout construction to liaise between landowners, construction management and contractors.	Strata_NW313_IR_No._2.03	Scoping	During Construction	
73	Lands	NEB		Trans Mountain will consult with and inform landowners of the potential to be affected by emissions from construction activities prior to commencement of these activities in proximity to the respective landowners	Volume 5A, 7-89	Scoping	Prior to Construction	
209	Lands	NEB		In communities where routing may deviate from the existing TMPL right-of-way, Trans Mountain will discuss and apply routing considerations and decision-making criteria in discussions with local stakeholders. Trans Mountain will inform landowners and lessees of the route location and construction schedule, to allow sufficient time to plan and implement alternative land use decisions.	Volume 5B, 3-8.	In Progress	Prior to Construction	
380	Lands	NEB		If the Project is approved, formal notification to all directly affected tenure and disposition holders will take place in advance of construction activity. Communication with landowners and occupants is ongoing and questions or concerns will continue to be addressed throughout the life of the Project.	Volume 3C, section 1.3.	Scoping	Prior to Construction	Notification will be in the form of written letter and notice, and through in person meetings where possible.
381	Lands	NEB		Trans Mountain confirms that all necessary third party crossing agreements will be obtained prior to construction.	NEB_IR_No._2.016	In Progress	Prior to Construction	
382	Lands	NEB		Trans Mountain will acquire the necessary easement interests, permits and rights from private land owners and Crown License agreements in both Alberta and BC for the construction, operation, and maintenance of the Project.	Volume 2, 2-59.	In Progress	Prior to Construction	

384	Lands	NEB		Trans Mountain will initiate a post-construction dialogue with landowners and leaseholders along the pipeline right-of-way after final clean-up to address and/or resolve any relevant issues. Construction-related issues that are raised during ongoing operation will be addressed by Trans Mountain. Trans Mountain will maintain a database to track landowner and leaseholder consultation information.	Volume 6A, 9-4.	Scoping	Operations	
385	Lands	NEB		Trans Mountain will work with local landowners in the Fraser Valley to determine agricultural practices, including deep sub soiling, to determine depth of cover requirements.	Technical Update No. 1 and Consultation Update No. 2 - Part 2 Table 1.6.3-1	In Progress	Prior to Construction	
386	Marine Shipping		Allan, Robyn; Val Veirs	Trans Mountain is committed to working with Fisheries and Oceans Canada (DFO) and other stakeholders on implementing the Action Plan for the Recovery of the Southern Resident Killer Whale as well as developing other strategies to assist in southern resident killer whale recovery.	Allan_R_IR_No._1.20l, Veirs_V_IR_No._1.5	In Progress	Project Lifecycle	To be coordinated with Environment Team
274	Marine Shipping		BC Nature and Nature Canada; City of Burnaby	Trans Mountain is supportive of a collaborative approach to long-term monitoring for marine birds and will endeavour to meet with Environment Canada to discuss the potential for development of a long-term monitoring program as a partnership with others.	BC_Nature_Nature_Cda_IR_No._1.12b City_Burnaby_IR_No._1.27.07c	In Progress	Prior to Construction	Meeting with Environment Canada complete. Trans Mountain is supportive of the Burrard Inlet Monitoring Plan and would like to participate in this initiative.
387	Marine Shipping		City of Burnaby	There will be multiple and redundant communication lines open with the tanker and the pilot onboard to communicate dock approach and weather information which, subject to final design, is expected to include a visual display.	City_Burnaby_IR_No._1.26.10e	In Progress	Operations	Will be incorporated into dock design plans. Coordinating with facilities
750	Marine Shipping		City of Vancouver	Port Metro Vancouver’s ECHO Program and the Green Marine’s Underwater Noise Committee are two initiatives engaged in working collaboratively with industry to develop future guidelines for reducing underwater noise from large commercial vessels. Trans Mountain is committed to participating in both initiatives. Once such guidelines are available, Trans Mountain shall require project tankers to adopt those as best practice as part of its Tanker Acceptance Standards.	City_of_Vancouver_IR_No._2.07.6a	In Progress	Project Lifecycle	
941	Marine Shipping		Corporation of the City of Victoria	Trans Mountain commits to consult with coastal communities on a community benefits program focussed on marine spill response.	City_of_Victoria_No._2.2	Scoping	Operations	
391	Marine Shipping		Department of Fisheries and Oceans; Vancouver Fraser Port Authority DBA Port Metro Vancouver; Transport Canada	Trans Mountain is committed to continued co-operation with Port Metro Vancouver and the Canadian Coast Guard to ensure safety and efficiency of marine traffic including movements within the MRA. Trans Mountain will continue to discuss the effects of the Project on available transit windows and the movement of vessels in the MRA with Port Metro Vancouver.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	In Progress	Operations	To be coordinated with Facilities
403	Marine Shipping		Department of Fisheries and Oceans; Transport Canada	Once detailed engineering has been developed for the proposed expanded Westridge Marine Terminal, Trans Mountain will provide the Canadian Coast Guard (CCG) with information necessary to evaluate the additional navigation aids that it proposes to establish at the facility and otherwise seek advice and input of the CCG.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	Scoping	Prior to Construction	
395	Marine Shipping		Department of Fisheries and Oceans; Vancouver Fraser Port Authority DBA Port Metro Vancouver; Transport Canada	Trans Mountain will provide copies of its Port Information and Terminal Operations Manual to Transport Canada, the Canadian Coast Guard, the Pacific Pilotage Authority, and Port Metro Vancouver for information at least six months before the start of terminal operations.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	In Progress	Operations	Under development
318	Marine Shipping		Environment Canada	Trans Mountain will meet with Environment Canada in April 2014 to discuss a collaborative, industry-wide approach to the development of a long-term monitoring program for marine birds.	EC P-IR_No._1.19	Complete	Q3 2014	
388	Marine Shipping		Environment Canada	At Westridge Marine Terminal, Trans Mountain will undertake Marine Bird Monitoring as a component of the Post Construction Environmental Monitoring program. Trans Mountain will meet with Environment Canada to discuss the monitoring program.	EC P-IR_No_1.21	Scoping	Operations	Meeting with Environment Canada complete
531	Marine Shipping		Environment Canada	Trans Mountain will continue to identify, select and evaluate potential environmental stewardship initiatives that align with priority areas of their Environmental Stewardship Program. Trans Mountain remains committed to participating in additional collaborative partnerships to collect data on marine bird abundance, distribution, and diversity in the Marine RSA and welcomes further consultation with Environment Canada and other industry stakeholders on the structure and scope of a monitoring program.	GoC_EC_IR_No._2.047 NEB_IR_No._3.036a – Attachment 1, Filing ID A4H1X7).	In Progress	Prior to Construction	
533	Marine Shipping		Environment Canada	Trans Mountain is committed to establishing mutual data sharing agreements that support response planning and research initiatives as they relate to marine birds in Burrard Inlet and along the shipping route.	GoC_EC_IR_No._2.047	In Progress	Prior to Construction	
541	Marine Shipping		Environment Canada	Trans Mountain commits to undertaking surveys onboard randomly sampled tankers at the Westridge Marine Terminal during which time cargo tank covers and associated seals will be checked for leaks of real-time total hydrocarbon (THC) or total volatile organic compounds (TVOC) measurements using a portable monitor. These tests will be carried out by the Loading Master and four such works shall be completed, one per season.	GoC_EC_IR_No._2.071	Scoping	Operations	
730	Marine Shipping		May, Elizabeth	In support of the Trans Mountain Expansion Project, Trans Mountain and WCMRC have committed to increasing the response capacity to 20,000 tonnes and exceeding the legislated response time requirements.	May_E_IR_No._2.2.1a	Scoping	Prior to operation	
907	Marine Shipping		Metro Vancouver	Trans Mountain commits to undertaking surveys onboard randomly sampled tankers at Westridge during which time cargo tank covers and associated seals will be checked for leaks of real-time total hydrocarbon (THC) or total volatile organic compounds (TVOC) measurements using a portable monitor. These tests will be carried out by the Loading Master and four such surveys shall be completed, one per season.	Metro_Vancouver_IR_No._2.2.1	Scoping	Operations	
868	Marine Shipping		Province of British Columbia - TERMPOL	Trans Mountain will place a copy of the updated Tanker Acceptance Standard on its web site 90 days prior to commencement of Trans Mountain Expansion Project operations at Westridge Marine Terminal.	Province_BC_TERMPOL_No.T.1	Scoping	Prior to operation	
861	Marine Shipping		Squamish Nation	Trans Mountain will require tug escort of all Project-related tankers for the entire transit from Westridge Marine Terminal to the Pacific Ocean.	Squamish_Nation_IR_No._2.05.x	Scoping	Project Lifecycle	
393	Marine Shipping	NEB	Transport Canada	Trans Mountain will notify the appropriate authority if it wishes to alter any Project commitments, operational parameters, or characteristics, so the authority can review the impacts to safety as a result of the changes.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	Scoping	Project Lifecycle	
397	Marine Shipping	NEB	Transport Canada	The ISGOTT safety checklist as well as a checklist with additional terminal specific safety items will be included to the updated Terminal Operations Manual, which shall be provided to the TRC 6 months prior to the expanded terminal becoming operational.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015) (Filing ID A4G3U5)	Scoping	Operations	

398	Marine Shipping	NEB	Transport Canada	Trans Mountain will accept oil tankers of up to Aframax size and always within any limitations set by Port Metro Vancouver.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015) (Filing ID A4G3U5)	In Progress	Project Lifecycle	
399	Marine Shipping	NEB	Transport Canada	Trans Mountain will confirm draft mooring procedures as part of real-time simulations to enhance safety. Such procedures will be included to the Terminal Operations Manual.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015) (Filing ID A4G3U5)	Scoping	Operations	
400	Marine Shipping	NEB	Transport Canada	Trans Mountain will continue its existing practice of having a dedicated loading master present at Westridge Marine Terminal, which provides an added measure of safety to cargo transfer operations.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015) (Filing ID A4G3U5)	In Progress	Project Lifecycle	
401	Marine Shipping	NEB	Transport Canada	Trans Mountain will continue to use industry best practices related to cargo transfer activities to enhance safety and the protection of the marine environment.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015) (Filing ID A4G3U5)	In Progress	Project Lifecycle	
402	Marine Shipping	NEB	Transport Canada	Trans Mountain will require in its Tanker Acceptance Criteria that departing laden Project tankers to extend pilot disembarkation and tethered tug escort requirements to an area in the vicinity of Race Rocks, weather permitting and subject to the requirements identified in a Pacific Pilotage Authority 'Notice to Industry'.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015) (Filing ID A4G3U5)	Scoping	Operations	
384	Marine Shipping		Transport Canada; Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will submit its Oil Pollution Emergency Plan for the Westridge Marine Terminal to Transport Canada for review at least six months before terminal operations begin.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	Scoping	Operations	
884	Marine Shipping		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will endeavour to meet with PMV in spring 2015 to discuss the proposed pre-construction survey and other aspects of the Preliminary Marine Fish Habitat Offsetting Plan. Trans Mountain will ensure that PMV is afforded the opportunity to be included in any upcoming discussions with Fisheries and Oceans Canada. If Trans Mountain proceeds with construction of the proposed sub tidal reef, PMV will be copied on the compliance and effectiveness monitoring reports.	PMV_IR_No._2.14	Scoping	Prior to Construction	Ask Margaret Mears if March 2015 meeting happened
887	Marine Shipping		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Should PMV develop a particular facet of its EcoAction Program affecting tankers, Trans Mountain will publicize it through its Tanker Acceptance Standard and thereby encourage vessel operators to try and meet the program's standards as far as it is possible for the vessels to do so.	PMV_IR_No._2.24c	Scoping	Project Lifecycle	
396	Marine Shipping		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Post construction, Trans Mountain will actively discuss and agree with Port Metro Vancouver and Transport Canada the modalities of observing real effects of traffic passing the Westridge Marine Terminal, will document those effects and if required will accordingly adjust the terminal's mooring plans in order to ensure the safety of the terminal and any berthed or passing vessels.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	Scoping	Operations	While Trans Mountain is supportive of this process, it does not and will not operate, manage or exercise control over any vessel that passes Westridge Marine Terminal currently or in the future and therefore is unable to independently run trial transits of passing traffic.
390	Marine Shipping		Vancouver Fraser Port Authority DBA Port Metro Vancouver	Trans Mountain will discuss with Port Metro Vancouver how traffic clearance and escort services by the Port Metro Vancouver Harbour Master's launch within Port Metro Vancouver boundaries may be extended to all Project tankers during their departure from Vancouver Harbour.		In Progress	Operations	It is mentioned in the Port Information Guide. "Port Authority Vessels will be available to clear traffic and provide escort services through First and Second Narrows during operational periods whenever possible".
404	Marine Shipping		Vancouver Fraser Port Authority DBA Port Metro Vancouver; Transport Canada	Trans Mountain will carry out exercises entailing real time navigation simulation after completion of detailed design; such simulation maneuvers will be for the areas surrounding the Westridge Marine Terminal and will be carried out in consultation with Port Metro Vancouver, the Pacific Pilotage Authority, and BC Coast Pilots.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	Scoping	Operations	To take place between Q2/2016 and Q3/2017
837	Marine Shipping		Washington State Department of Ecology	Trans Mountain will continue to liase with regulatory authorities such as the US Coast Guard and Washington State Department of Ecology.	WSDOE_IR_No._2.11d	In progress	Project Lifecycle	
358	Marine Shipping	NEB		Trans Mountain will consult with DFO to determine whether the Pacific Salmon Foundation multi-year comprehensive 'Salish Sea Marine Survival Project' initiative can also be considered to be a scientifically defensible and useful recovery measure for resident killer whales by restoring an adequate and accessible food supply.	NEB_IR_No._1.56	In Progress	Operations	
389	Marine Shipping	NEB		Trans Mountain will ensure its Port Information and Terminal Operations Manual is available to oil shippers and their agents in time for them to understand and fully comply with its contents.	TERMPOL Rpt and Outstanding Filings Table A-1 Recommendation 16	In Progress	Operations	
392	Marine Shipping	NEB		Trans Mountain will provide financial assistance to smaller vessels registered in WCMRC's FOSET program to be fitted with AIS and radar reflectors, which will aid in located FOSET assets during standard operations, as well as while undertaking response activities and will enhance safety.	Trans Mountain Response to NEB IR TERMPOL Rpt and Outstanding Filings (January 2, 2015)	In Progress	Operations	
405	Marine Shipping			All vessels visiting the Westridge Marine Terminal are vetted by KMC to ensure they meet Trans Mountain's vessel quality criteria. In addition to Trans Mountain's own vessel screening and inspection program, tankers docking at the Westridge Marine Terminal will meet all applicable local and international rules and regulations, and will be inspected by Transport Canada for compliance.	Pre-Application Project Description, p 27.	In Progress	Project Lifecycle	
406	Marine Shipping	NEB		Through the proposed Marine Mammal Protection Program and other regional collaborative initiatives, Trans Mountain commits to implementing mitigation measures that are within its control to implement to manage potential environmental effects (both Project-related and cumulative) on marine mammals.	NEB_IR_No._1.38	In Progress	Operations	to be included in the EPP



407	Marine Shipping	NEB		Trans Mountain is committed to further mitigating potential effects of bilge water releases by using reputable vessel owners and operators who strictly adhere to regulations and ensure continued maintenance of vessel discharge treatment equipment and safety mechanisms.	Volume 8A, 8A-435.	In Progress	Operations	
408	Marine Shipping	NEB		Trans Mountain is committed to working with DFO, participating Aboriginal communities, Port Metro Vancouver and other stakeholders to identify the most appropriate means of offsetting serious harm to marine fish and fish habitat. Trans Mountain will submit a preliminary marine fish habitat offsetting plan to the NEB in Q3 2014.	NEB_IR_No._1.51	In Progress	Prior to Construction	
409	Marine Shipping	NEB		Trans Mountain will participate in Transport Canada’s TERMPOL. This is a voluntary operational review process led by a federal interdepartmental committee that is tasked with precisely and reliably measuring the navigational risks associated with the location and operation of the marine terminals for large oil tankers.	Pre-Application Project Description, p 90.	Complete	Q4 2014	
410	Marine Shipping	NEB		Trans Mountain will provide reception facilities at the Westridge Marine Terminal as necessary to service the needs of the Project-related marine vessels.	Volume 8A, 8A-432.	Scoping	Operations	Vessels can arrange for reception facilities while the vessels are in the PMV as required. Trans Mountain has not identified any requirements for such facilities at Westridge.
411	Marine Shipping	NEB		Trans Mountain will require all tankers to process and empty their bilges prior to arrival and to have the discharge valve of the bilge water locked while in Canadian waters.	Volume 8A, 8A-432.	In Progress	Operations	Required as part of the tanker acceptance Standard
412	Marine Shipping	NEB		Trans Mountain will require that a tug would accompany the Project-related tankers for the entire transit through the Strait of Georgia and between Race Rocks and the 12 nautical mile to assist with navigation. The tug escort is an enhancement to existing tug requirements.	Volume 8A, 8A-364.	Scoping	Operations	
413	Marine Shipping	NEB		Trans Mountain will require that all Project-related tankers calling at the Westridge Marine Terminal have mandatory tug escort for the entire route between the Westridge Marine Terminal and the Pacific Ocean.	Volume 8A, 8A-432.	Scoping	Operations	
463	Marine Shipping	NEB		Trans Mountain will hold two information sessions with commercial fishers and vessel operators in conjunction with PPA in Vancouver and Victoria.	NEB_IR_No._3.007	Scoping	Project Lifecycle	
472	Marine Shipping	NEB		KMC remains committed to playing a role in the dialogue on developing a spill monitoring sampling program for chemicals of potential concern in the shipping lanes in Canadian waters, along with other industrial marine traffic users in the Burrard Inlet and Straits of Georgia and Juan de Fuca.	NEB_IR_No._3.23a	Scoping	Project Lifecycle	
646	Marine Shipping	NEB		Trans Mountain will provide active support to the ECHO Program and include study results and recommendations in its Marine Mammal Protection Program.	NEB_IR_No._4_73a	Scoping	Prior to operation	
835	Marine Shipping	NEB		Tran Mountain will modify for clarity the regulatory compliance section of its tanker acceptance standard item 4.5.1 to read with the following “The vessel will be built to industry standards and operated in accordance with industry best practices, always compliant with relevant local and international laws and regulations. The vessel will carry ALL required and customary certificates of compliance.”	NEB_IR_No._4_9	Scoping	Prior to operation	
836	Marine Shipping	NEB		Tran Mountain will include in its Port Information and Terminal Operations Manual guidance the reporting requirements for mammal vessel strikes and mammals in distress. The information will be updated f the DFO reporting requirements change in the future to ensure reporting requirements remain consistent with DFO.	NEB_IR_No._4_9	Scoping	Prior to operation	
838	Marine Shipping	NEB		Tran Mountain commits to working closely with the Enhancing Cetacean Habitat and Observation (ECHO) Program (PMV Response to NEB IR No.1.1; Filing ID A4C9T9) and will propose that a marine mammal vessel strike reporting procedure be developed collaboratively as part of the program.	NEB_IR_No._4_9	Scoping	Prior to operation	
839	Marine Shipping	NEB		Trans Mountain will request vessel operators to report any bird strikes/collisions to Marine Communication and Traffic Services.	NEB_IR_No._4_11a	Scoping	Prior to operation	
414	Operations		Amy, Chris	Trans Mountain will run regular cleaning pigs through the pipeline to mobilize any deposits to prevent internal corrosion. Trans Mountain will perform in-line inspection as outlined in Volume 4C Section 8.1.4 of the Application to monitor for metal loss due to internal corrosion. Trans Mountain will complete field inspections of any anomalies that meet Trans Mountain’s inspection criteria and will complete any required repairs.	Amy_C_IR_No._1.6b	Scoping	Operations	
425	Operations		C.G.L.A.P. - Collaborative Group of Landowners Affected by Pipelines	Trans Mountain is committed to provide advance notice in a reasonable and practical manner, and to control work hours to minimize the disruption to the owner’s use of their land in accordance with the NEB Operations and Maintenance Activities Guidelines.	CGLAP_IR_No._2.9c	Scoping	During Construction	
415	Operations		City of Burnaby	A permanent station will be set up as part of the dock expansion and that will provide information to the terminal operator, ship, pilots and others on wind conditions at the Westridge dock.	City_Burnaby_IR_No._1.26.10c	In Progress	Operations	Coordination with facilities group required
416	Operations		City of Burnaby	Annual risk assessments will consider internal corrosion, external corrosion, cracking, third party damage, material defects, outside forces and operator error.	City_Burnaby_IR_No._1.46.04___m	Scoping	Operations	
417	Operations		City of Burnaby	Chemical dispersants would not be stored at Westridge Terminal.	City_Burnaby_IR_No._1.26.08b	In Progress	Operations	To be incorporated into Westridge OPEP
418	Operations		City of Burnaby	Depth of cover will be monitored every 5 years during close interval cathodic protection surveys and any hazards resulting from low depth of cover will be addressed.	City_Burnaby_IR_No._1.46.04___h	Scoping	Operations	
419	Operations		City of Burnaby	Post-construction monitoring will continue until remediation measures are considered to be effective and issues are resolved in Old Growth Management Areas.	City_Burnaby_IR_No._1.04.14k	Scoping	Operations	
420	Operations		City of Burnaby	Risk assessments will be performed annually on the pipelines and every 3 years on facilities.	City_Burnaby_IR_No._1.46.04_hh	Scoping	Operations	
421	Operations		City of Burnaby	Trans Mountain will complete a baseline natural hazard assessment of the TMEP system within the first year of operation and incorporate the identified natural hazard sites into the established natural hazard database. The slopes and water crossings will be monitored periodically through the ground inspection program; the re-inspection interval is based on site specific conditions. All sites are inspected at various intervals not exceeding five years.	City_Burnaby_IR_No._1.46.04___p	Scoping	Operations	
422	Operations		City of Burnaby	Trans Mountain will monitor corrosion growth rates through successive in-line inspection tool runs to ensure that the pipe remains safe to operate.	City_Burnaby_IR_No._1.46.04___w	Scoping	Operations	
423	Operations		City of Burnaby	Trans Mountain will monitor for metal loss, pipe movement, mechanical damage, cracking and material defects on a nominal 5 year interval using an in-line inspection program.	City_Burnaby_IR_No._1.46.04___n	Scoping	Operations	

424	Operations		City of Vancouver	Trans Mountain will adaptively manage potential residual effects associated with changing climate through the Natural Hazards Management Program. During operations of the Project, it is expected that Trans Mountain will be adaptive in their management of the pipeline and schedule maintenance activities to accommodate local environmental conditions and implement the appropriate protection measures to suit local environmental conditions thereby reducing the potential environmental effects.	City_of_Vancouver_IR_No._1.06.02a	In Progress	Operations	
752	Operations		City of Vancouver	Trans Mountain will, in 2015, be installing a second complementary CPM system that will operate in parallel with the existing system. The new CPM system will use a different technology to recognize leaks.	City_of_Vancouver_IR_No._2.09.2i	In Progress	Prior to Construction	
823	Operations		Fraser Valley Regional District	KMC commits to delivering quarterly reports on odour complaints from Sumas Tank Terminal to the Fraser Valley Regional District (FVRD) for the operational lifetime of the Trans Mountain Expansion Project (TMEP).	FVRD_IR_No._2.17	Scoping	Project Lifecycle	
426	Operations		Natural Resources Canada	Trans Mountain will monitor flooding advisories and perform additional aerial and ground patrols during high river flow conditions but there are currently no plans to perform real time monitoring of specific river crossing sites.	GoC_NRCan_IR_No._1.03.7	Scoping	During Construction	
428	Operations		New Democratic Party of Canada	Trans Mountain will dispatch personnel for the purpose of preventing spills on a routine basis including to complete integrity digs, preventive maintenance, clearing, signage, inspection, response to unauthorized activity reports near the pipeline, and many other varied tasks.	NDP_IR_No._1.1.1d	Scoping	Operations	
429	Operations		North Shore NOPE	Kinder Morgan Canada will continue to operate a learning management system to track and document all employee training.	NSNOPE_IR_No._1.17b	In Progress	Operations	
946	Operations		Peters Band	Trans Mountain will implement all weed and pest treatments on the right-of-way in BC in accordance with the Integrated Pest Management (IPM) Regulation of BC (BC Reg. 604/2004) as part of the BC Integrated Pest Management Act (Government of BC 2003 and 2004).	Peters_Band_IR_No._2(b). 2.5b	Scoping	During Construction	
947	Operations		Peters Band	Herbicide application will be monitored shortly after treatment for effectiveness of the treatment and impact on the environment.	Peters_Band_IR_No._2(b). 2.5b	Scoping	During Construction	
767	Operations		Province of British Columbia	Trans Mountain commits to evaluate available technologies with a goal for continually improving leak detection including non-CPM based systems for the Trans Mountain pipeline system and will implement technologies that we determine to be viable and effective for our operations.	Province_BC_IR_No._2.16	Scoping	Operations	
769	Operations		Province of British Columbia	Trans Mountain will update its existing Integrity Management Program (IMP) and scope of work document that prescribes the frequency patrol for the entire Trans Mountain pipeline right-of-way as necessary for the Project.	Province_BC_IR_No._2.17	Scoping	Operations	
770	Operations		Province of British Columbia	Trans Mountain commits to introducing a leak detection procedure directing the Control Centre Operator (CCO) to perform a controlled shutdown of the pipeline when a leak cannot be ruled out in a given time period after initial indication.	Province_BC_IR_No._2.20	Scoping	Operations	
427	Operations		The Parks Canada Agency	The Company's Jasper National Park Operations and Maintenance Environmental Protection Plan will be revised and updated prior to reactivation.	GoC_Parks_IR_No._1.2.4	Scoping	Operations	
430	Operations		Upper Nicola Band	Trans Mountain will also complete in-line inspections with a high-resolution ultrasonic crack detection tool within two years of start-up of the Darfield to Black Pines segment.	Upper_Nicola_Band_IR_No._1.08h	Scoping	Operations	
431	Operations		Upper Nicola Band	Trans Mountain will monitor locations with risk of slope movement as part of its Natural Hazard program as outlined in Section 8.15 of Volume 4C of the application. Where recommended as a result of engineering assessments, Trans Mountain will install instruments to monitor slope movement or to monitor pipeline strain to ensure the pipeline is not being damaged by soil movements.	Upper_Nicola_Band_IR_No._1.08o	Scoping	Operations	Varto H IR No. 1.2.E2
863	Operations		Upper Nicola Band	Through its Pipeline Integrity Management Plan, Trans Mountain will continue to monitor the integrity of all watercourse crossings on the current and expanded Trans Mountain Pipeline system. Trans Mountain agrees to meet with Upper Nicola Band during the operational phase of the Project to discuss concerns Upper Nicola Band may have regarding the long-term stability of HDD and other crossings within Upper Nicola/Sylix Territory.	Upper_Nicola_Band_IR_No._2(c).02.p	Scoping	Operations	
432	Operations	NEB		All pump stations and terminals in the expanded TMPL system will include emergency shutdown (ESD) systems that will operate automatically in some abnormal operating conditions and can also be activated remotely from the Pipeline Control Centre (PCC) or locally by field operations.	Part 2 – Consultation Update No. 1	In Progress	Prior to Construction	Required by Legislation and Standards
434	Operations	NEB		Any product moved in the pipeline must meet KMC's tariff requirements which include the following limitations on product qualities: <ul style="list-style-type: none"><li>• a maximum temperature of 38°C;</li><li>• a maximum density of 940 kg/m3 (specific gravity of 0.94);</li><li>• a maximum viscosity of 350 centistokes at Reference Temperature;</li><li>• maximum impurities (bottom sediments and water) of 0.5% of volume; and</li><li>• maximum Reid Vapour Pressure of 103 kPa.</li></ul>	Part 2 – Consultation Update No. 1	Scoping	Operations	
435	Operations	NEB		As is the case on the existing TMPL system, comprehensive integrated procedures will ensure that batches are reliably injected and Trans Mountain Pipeline (ULC) delivered in accordance with pumping instructions issued to the CCOs by the Shipper Services Department.	Part 2 – Consultation Update No. 1	Scoping	Operations	
436	Operations	NEB		Those potentially affected by air emissions from the Edmonton Terminal, including residents, land users, and Aboriginal groups, will be provided with contact information for use in the event there are concerns about such air emissions.	NEB_IR_No._1.34e	Scoping	Operations	
437	Operations	NEB		Trans Mountain will commit to complete integration of all inspection data sets with the final integration to be complete within the first two years of operation or following completion of the dig program for the crack inspection.	NEB_IR_No._1.89d	Scoping	Operations	
438	Operations	NEB		Trans Mountain will review its existing operations (i.e., staff levels, operations facilities, pipeline protection and integrity programs) and will make appropriate adjustments to support the proposed expanded TMPL system.	Pre-Application Project Description, p 1.	In Progress	Operations	
439	Operations	NEB		Trans Mountain will track GHG emissions in Alberta and British Columbia during the operation of the pipeline once construction has been completed. In compliance with federal and provincial GHG reporting requirements, Trans Mountain will report direct annual operating GHG emissions from facilities which meet or exceed the reporting thresholds.	NEB_IR_No._1.32	In Progress	Project Lifecycle	
467	Operations	NEB		If the attributable GHG emissions due to KMC's BC operations in a reporting year exceed the reporting threshold of 10,000 tonnes CO2e, a GHG report will be prepared and submitted for all of KMC's facilities in BC.	NEB_IR_No._3.018a	In Progress	Project Lifecycle	
508	Operations	NEB		For the new Westridge Delivery Pipelines, Trans Mountain commits to deploying acoustic leak detection tools on a regular basis to ensure that no pinhole leaks are present.	NEB_IR_No._3.103g	Scoping	Operations	Specific to Westridge delivery lines
875	Operations	NEB		Trans Mountain will run the ultrasonic (USCD) ILI inspection as soon as possible once the pipeline is in service. Trans Mountain does not expect to take the full two years to complete inspections; however, to account for tool availability and other factors that may be outside of Trans Mountain's control, Trans Mountain committed to a 2 year window to complete inspections.	NEB_IR_No._4_42b	Scoping	Operations	
876	Operations	NEB		Trans Mountain will complete inspections on a more frequent basis if fatigue growth calculations show that a shorter inspection interval is required.	NEB_IR_No._4_43a	Scoping	Operations	
440	Procurement		Allan, Robyn; Klakowich, Ken	As included in the Application, Volume 5B, Section 7.0: Socio-Economic Effects Assessment, page 191 the Project is committed to maximize the use of local, regional, Aboriginal, provincial and Canadian businesses during the construction and operation of the Project.	Allan_R_IR_No._1.15_bb, Klakowich_K_IR_No._1.4.0, Klakowich_K_IR_No._1.4.3	In Progress	Project Lifecycle	This will be outlined in the contract documents

656	Procurement		City of Kamloops	Trans Mountain will arrange procurement open houses or workshops at various local and regional locations to present potential supply opportunities to the project.	City_of_Kamloops_IR_No._2.11	Scoping	Prior to Construction	to be completed in spring of 2016
441	Procurement		The Nations (Sucker Creek First Nation; Ermineskin Cree First Nation, Samson Cree Nation, Whitefish (Goodfish) Lake First Nation #128, Kelly Lake Cree Nation	Trans Mountain will require all to contractors comply with environmental health and safety policies and procedures that will form part of the Project construction contracts.	Nations_IR_No._1.3_6d	Scoping	Prior to Construction	
442	Procurement		The Nations (Sucker Creek First Nation; Ermineskin Cree First Nation, Samson Cree Nation, Whitefish (Goodfish) Lake First Nation #128, Kelly Lake Cree Nation	With respect to sole source and/or preferred source contracts, Trans Mountain will utilize direct awards, limited competitive bidding and inclusion of Aboriginal content as stated in the Kinder Morgan Canada Aboriginal Procurement Policy (Volume 3B, Appendix G).	Nations_IR_No._1.1.5p	Complete	Prior to Construction	Trans Mountain's Aboriginal Procurement Policy is complete
83	Procurement	NEB		Environmental requirements will be incorporated into all business decisions and contract documents related to the Project.	Volume 6A, 2-1.	In Progress	Project Lifecycle	
443	Procurement	NEB		All Aboriginal Groups that expressed an interest or concern will be contacted prior to June 30, 2015 to discuss how an opportunity could be developed for Salvageable Timber in their territory.	NEB_IR_No._2.011c	In Progress	Prior to Construction	to be outlined in the Timber salvage plan
445	Procurement	NEB		Trans Mountain is committed to maximize employment opportunities for local, regional and Aboriginal groups along the proposed corridor. Trans Mountain will ensure that construction contractors report on a monthly basis hiring statistics that include the percentage of local, regional and Aboriginal hiring's based on total workforce.	NEB_IR_No._1.23c	In Progress	During Construction	
447	Procurement	NEB		To ensure that procurement opportunities will be accessible for Aboriginal communities and businesses, Trans Mountain has developed, in partnership with KMC's procurement team, an Aboriginal Procurement Policy. The policy provides guidance and allowances for facilitating Aboriginal participation in the Project. Once finalized, the content will be used in conjunction with the procurement and workforce development opportunities, and a plan will be created with interested communities for the realization of employment benefits with both Trans Mountain and prime contractors during the Project.	Volume 3B, section 1.4.2.	In Progress	Prior to Construction	Trans Mountain's Aboriginal Procurement Policy is complete Procurement strategy under development
448	Procurement	NEB		Trans Mountain is committed to carrying out enhancement measures that will maximize the levels of local participation in Project opportunities through procurement strategies, an on-line jobs registry, and support for Aboriginal training. Trans Mountain will also support existing initiatives aimed at increasing female participation in the construction workforce, driven by government, labour organizations and education institutions.	Volume 5B, 7-43.	Scoping	Prior to Construction	
449	Procurement	NEB		Trans Mountain is committed to maximizing opportunities for regional participation in Project-related employment, most of which will be through contracting opportunities related to the Project construction. Where qualified local contractors are available, they will have the opportunity to participate in the contracting process established by Trans Mountain.	Volume 5B, 7-177.	In Progress	Prior to Construction	Local Contractor database/registration is ongoing. Contract documents and procurement strategy will outline requirements for using database.
450	Procurement	NEB		Trans Mountain will develop a Project-specific procurement policy 6 months prior to start of construction.	NEB_IR_No._1.25a	In Progress	Prior to Construction	
451	Procurement	NEB		Trans Mountain will initiate an Aboriginal Employment and Training Program to support increased access to Aboriginal employment opportunities on the Project, which will further increase employment opportunities for Aboriginal communities.	Volume 5B, 7- 183.	In Progress	Prior to Construction	
452	Procurement	NEB		Trans Mountain will purchase Project-required goods and services from regional, Alberta and BC (Provincial) and Canadian suppliers, provided those suppliers meet the Project requirements on a best overall value basis, with added consideration for Aboriginal service providers.	Volume 5B, 7-191.	Scoping	Prior to Construction	Local supplier database/registration is ongoing. Contract documents and procurement strategy will outline requirements for using database.
81	Regulatory		Allan, Robyn	Trans Mountain Pipeline L.P. will pay the expenses related to the debt financing for the Trans Mountain Expansion Project.	Allan_R_IR_No._1.06__hh	In Progress	Prior to Construction	
453	Regulatory		City of Burnaby	Trans Mountain will adopt any additional measures required by the NEB such as those set out in NEB Draft Condition No. 33 of the NEB's <i>Letter – Draft Conditions and Regulatory Oversight</i> (NEB 2014)	City_Burnaby_IR_No._1.27.02b	In Progress	Superseded by Condition	
85	Regulatory	NEB		Trans Mountain will have in place a stand-alone liability policy to cover liabilities that may arise as a result of the construction activities undertaken by the Project. Third-party contractors involved in the construction of the Project will also be required to maintain their own separate insurance coverage.	NEB_IR_No._1.08a	In Progress	Prior to Construction	
502	Safety	NEB		Site specific safe work procedures and mitigation measures for Edmonton, Sumas, and Burnaby will be developed during detailed construction planning.	NEB_IR_No._3.93b	Scoping	Prior to Construction	
454	Security	NEB		All construction areas, including those within existing Trans Mountain rights-of-way, pump stations, terminals, and other facilities will undergo a Security Risk Assessment (SRA) and appropriate controls will be implemented prior to the start of construction.	Volume 4B, 4B-56.	Scoping	Prior to Construction	
456	Socio-Economic		Regional District of Fraser-Fort George	Trans Mountain will continue to work with the communities of Valemount and the Regional District on implementing and enforcing procedures that discourage disregard for the sensitivity of that environment by its employees and contractors.	RD_of_Fraser-Fort_George_IR_No._1.04b	In Progress	Prior to Construction	Refer to NEB IR No. 1.17d, NEB IR No. 1.16a.
458	Socio-Economic	NEB		The Socio-Economic Effects Monitoring Program will include monitoring indicators related to worker/community interaction and worker conduct.	NEB_IR_No._1.17d	In Progress	Prior to Construction	
459	Socio-Economic	NEB		Trans Mountain will consult with key stakeholders (e.g., governments, local/regional service providers, Aboriginal communities, municipalities) regarding the socio-economic effects monitoring framework, indicators to be monitored, methods of reporting, and the level of local/regional interest in participating in socio-economic effects monitoring. The monitoring framework and process will then be finalized and shared publically.	NEB_IR_No._1.17d	In Progress	Prior to Construction	