

# Environmental Surveillance Activity

Project Name	Trans Mountain Pipeline Reactivation
Parks Canada Internal File	J17-015
Project Proponent	Trans Mountain Pipeline ULC (TM)
Prime Contractor	Simpco Ledcor Limited Partnership (SLLP)

Event Type	Parks Canada - IAMC Joint Field Inspection
Date	July 21-22, 2020
Location	Various locations within Jasper National Park
Environmental Surveillance Officer(s)	<ul style="list-style-type: none"> <li>• Jasper National Park ESO</li> <li>• Indigenous Monitor – Montana First Nation</li> <li>• Indigenous Monitor – Sucker Creek First Nation</li> <li>• Department of Fisheries and Oceans – Regional Manager</li> <li>• IAMC Caucus Member</li> </ul>
TM or SLLP representative	<ul style="list-style-type: none"> <li>• Trans Mountain Indigenous Monitors (accompanied inspection for Day 2)</li> <li>• IAMC Caucus Member and JNP ESO met with TMC Construction Manager and Lead Environmental Inspector</li> </ul>
Description of Field Inspection	<ul style="list-style-type: none"> <li>• Post Construction sites – Snaring River South and Sleeve 5A</li> <li>• Post Construction sites – Dig 30, Muhigan Creek</li> <li>• Remediated diesel spill site</li> </ul>
Activities Monitored	<ul style="list-style-type: none"> <li>• Post-construction</li> <li>• Restoration</li> </ul>

Observations  
July 21, 2020

July 21, 2020	JNP ESO
<ul style="list-style-type: none"><li>- Meet at picnic table outdoors at Tonquin Inn in Jasper.</li><li>- Review maps, discuss plans for site visits, areas of interest and concern. DFO unable to visit active construction sites due to their employer's COVID restrictions.</li><li>- Receive inspection form package from DFO</li></ul>	
<p><b>Snaring River South</b> <b>KP 360.1</b> <b>Post-Construction/Restoration</b></p> <ul style="list-style-type: none"><li>- Walked in to site from Snaring campground.</li><li>- Discussion on site about use of workspace, using TMPL/TMX footprint, no new space or mature forest clearing done to create extra spaces. Only tree clearing on site were hazard trees identified by a certified arborist.</li><li>- Noted issues with NE edge of disturbed riparian area – loose soils on slope, very little vegetation regrowth, potential for soils to be washed down slope into river – no erosion sediment control in place on this corner.</li><li>- Noted issues with dead and dying salvaged spruce trees in riparian zone on Snaring south bank.</li><li>- Noted recent reseeded of one area in riparian SW corner has not yet produced much vegetation. Very thin topsoil under coco matting in this section. This area was brought to TMC and SLLP's attention after June 29 site visit. Requires monitoring.</li><li>- Upland area very dry, rocky soils, not much vegetation coming back, but some shrub staking is rooting, native forbs and grasses beginning to show.</li></ul> <p><b>Access route to Sleeve 5A from Snaring River</b></p> <ul style="list-style-type: none"><li>- No vegetation cleared to make access.</li><li>- Vegetation cover intact and growing, only low disturbance along access because of use of wooden mats.</li><li>- Mat shards cleaned up very well.</li><li>- 36" anomaly dig along the way was seeded and has a thin cover of grass over entire footprint.</li><li>- Bed, banks and riparian vegetation of small stream is undisturbed.</li></ul> <p><b>Sleeve 5A</b> <b>KP 361.6</b> <b>Post-construction/Restoration</b></p> <ul style="list-style-type: none"><li>- Bed and banks intact, DFO indicated that bed restoration was done well, difficult to tell where trench was. Shallow pool where pumps were set up – no issues.</li><li>- Willow and alder staking in riparian zone rooting and leafing well, appears this area may have been flooded recently with high waters, silt fence in place and in good condition – no evidence of erosion or sedimentation.</li><li>- Vegetation at bridge location growing well, soils and ground mat veg intact.</li><li>- Salvaged spruce root balls still alive, doing better than at Snaring. Sleeve 5A site in generally more shaded and moister ground conditions.</li></ul>	

July 21, 2020	Indigenous Monitor – Sucker Creek First Nation
<ul style="list-style-type: none"> <li>- July 16, 2020 Email package regarding Jasper National Park Inspection and phone meeting scheduled for Jul 20, 2020 @11:30 am</li> <li>- Monday July 20, 2020 phone meeting to discuss Inspection on July 21 – 22, 2020 at Jasper National Park</li> <li>- Tuesday July 21, 2020 travel early morning to meet at the Tonquin Inn with Jasper Park, DFO, IM from Montana First Nation and IAMC Chair @ 1:00 pm. Went over what we will be doing on our Inspection. Went over COVID safety procedures during inspection. Went out to South side of Snaring River for observation of reclamation of work done on RoW of pipeline</li> <li>- It was a good Inspection, grass regrowth was great, erosion control in place, wildlife tracks noticeable, water flowing good and willows replanted are budding. Sighted some strawberries growing.</li> <li>- No equipment working or any activity on site</li> <li>- Debriefing of inspection before departure and discuss next day inspection and location</li> </ul>	

July 21, 2020	Indigenous Monitor – Montana First Nation
<ul style="list-style-type: none"> <li>- Observations not available</li> </ul>	

July 21, 2020	IAMC Caucus Member
<ul style="list-style-type: none"> <li>- Given the Snaring was a post-construction inspection, there is a question about the long-term monitoring of the remediation work. The majority of plants that were planted as part of remediation were dead or dying.</li> </ul>	

Observations  
July 22, 2020

July 22, 2020	JNP ESO
<ul style="list-style-type: none"><li>- Meet with both the Trans Mountain Indigenous Monitors (TM-IM) that were on shift. IAMC Monitors and TM-IM spoke about the project. ESO, DFO and IAMC Caucus Member did not take part in this meeting.</li><li>- TM-IMs would accompany us on the inspection for the day, made plan on safely travelling and parking along Highway 16 to walk into site.</li></ul>	
<p><b>Dig 30</b> <b>KP 386.6</b> <b>Post-Construction/Restoration</b></p> <ul style="list-style-type: none"><li>- Digsite on edge of wetland area, saturated soils, evidence of recent flooding with this year's high water.</li><li>- Forbs and native plants coming back into site, some grasses. Willow stakes rooting and leafing out.</li><li>- Very recent moose, deer and elk tracks passing through digsite.</li></ul> <p><b>Access route to Muhigan Creek from Dig 30</b></p> <ul style="list-style-type: none"><li>- Was matted for construction, no vegetation removed. Current vegetation growth waist high.</li><li>- No impact from mats observed, difficult to tell where the mat road was.</li><li>- Noted several bed sites (elk or deer) in places along access.</li></ul> <p><b>Muhigan Creek</b> <b>KP386</b> <b>Post-Construction/restoration</b></p> <ul style="list-style-type: none"><li>- Upland disturbed areas showing good growth of native forbs and grasses. Noted some soil cracking and subsidence over 24" line in spots (this area was not roached or ramped) – not very noticeable because of rougher method of replacing topsoil to create more microsites for growing.</li><li>- Riparian areas showing more willow and grass growth. Bank areas adjacent to ditchline growing well. Lowest strip of willow stakes completely submerged, not leafed out.</li><li>- Bridge location shows no issues with erosion, vegetation was cut but not removed. Growing back well.</li></ul>	
<p><b>April 24, 2020 Diesel Spill</b> <b>KP385.9</b> <b>Post-Remediation/Restoration</b></p> <ul style="list-style-type: none"><li>- Visited site of 100L diesel spill from April 24, 2020. Discussed the incident, TMC/SLLP response and reporting, PCA requirements for removal of contaminated materials, repeated soils testing/lab analysis to confirm extent of spill and that all contaminated soils were removed, backfill and import of topsoil.</li><li>- Site only recently seeded, not much growing yet.</li><li>- Noted some stinkweed or Pennycress growing at this site – ESO picked what they could immediately collect. Stinkweed is considered a low priority non-native plant species in the park, but must still be managed on TM sites.</li><li>- Fresh tracks of moose and deer crossing the site.</li></ul>	

**Meet with Trans Mountain  
Construction Yard**

- Conversation with TM Construction Manager and Lead Environmental Inspector, IAMC Caucus Member and two TM-IMs.
- Talk about schedule for Robson digs, training for TM-IMs

**July 22, 2020** | Indigenous Monitor – Sucker Creek First Nation

- Early morning start, (8:00 am) meet at Parks Canada yard with Trans Mountain Indigenous Monitors and both IM from IAMC
- 9:00 meet with Parks Canada, DFO, IAMC Chair before heading out to site
- Arrived at site, walked in to observe site [Dig 30, Muhigan Creek]
- Regrowth was good
- Wildlife tracks and resting spots present
- Water flow is good
- Erosion control in place
- Strawberries present
- Willows planted and budding noticeable
- No concerns, good inspection
- Debriefing of days inspection and previous days inspection
- Depart/travel

July 23, 2020

- Travel home

July 29, 2020

- Review emails and Inspection notes. Complete report

**July 22, 2020** | Indigenous Monitor – Montana First Nation

- Observations not available

**July 22, 2020** | IAMC Caucus Member

- Noted invasive plants (stinkweed) on one of the sites. The Alberta Invasive Species Council has recommendations for treatment of said species (mowing and spraying). The company's biosecurity plan is supposed to manage this, but it wasn't done. What is the company's plans to inspect, control and manage said plants?

## Schedule of Action Items

Item No.	Date Identified	Issue to be Addressed	Action	TM Response
1.	July 21, 2020	No ESC measures in place on NE corner of south bank riparian at Snaring River	Email to TMPL Lead EI and SLLP Lead Enviro	August 2, 2020 - Silt fence installed along north and east sides of bank slope.
2.	July 21, 2020	Dead and dying salvaged root balls on south bank Snaring	TM is required to re-establish native vegetation in the riparian area as per SSEPP – monitor and replant as required.	Part of long-term restoration monitoring. Will replant as required. Additional planting of shrub species (wolf willow and buffaloberry) planned for spring 2021.
3.	July 22, 2020	Stinkweed growing on Muhigan spill site	Email to Lead EI and SLLP Environment informing of issue with stinkweed at this site.	TM crew hand-picked all visible weeds on site. Site is scheduled for spraying as part of ongoing NNP management program. Follow up visits to confirm and continue removal as required.