

A final copy of the compliance verification report for CV2021-415 is included at the end of this message. If non-compliances were identified during the compliance activity, the officer considers them to be resolved. No further follow-up is required. If this activity is a Field Inspection or Emergency Exercise Evaluation, the CER may post the results of the activity on its external website.

Identified non-compliances to company plans or procedures are non-compliances either to:

- the condition of an authorization document that requires implementation of that plan or procedure; or
- to the relevant section of the regulations that requires implementation of that plan or procedure including those sections that require implementation of plans or procedures as part of a Program.

**Event Type**

Information  
Exchange Meeting

**CV Event Number**

CV2021-415

**Project Companies**

- Trans Mountain Pipeline ULC

**Name of the Operating Company**

Trans Mountain  
Pipeline ULC

**Rationale, Scope, and Additional Description**

Information Exchange Meeting to discuss the HDD crossing at the North Saskatchewan River. The HDD has been completed. The focus of the meeting included inadvertent returns, water quality monitoring, Aboriginal monitors, heritage and TLU sites, drilling waste and biosecurity.

**Selected Province/Territory**

- Alberta

**Landowner Complaint File Number**

Not specified

**Start Date**

2020-07-14

**End Date**

2020-07-14

**Inspection Officer Number**

- 2194
- 2745

**Selected Disciplines**

- Environmental Protection
- Socio-Economic

- IAMC Observation

### **Tool Used:**

- Information Request (IR) (7)

### **This inspection was undertaken to verify compliance with the following legislative requirements:**

- National Energy Board Act (NEBA)
  - National Energy Board Onshore Pipeline Regulations (OPR)
- Canadian Energy Regulator Act (CERA)
  - Canadian Energy Regulator Act (CERA)
- Standards
  - CSA Z662-19 - Oil and Gas Pipeline Systems
- Plans And Procedures
  - Project-specific Environmental Protection Plan (EPP)
    - Environmental Plans Volume 2 Pipeline Environmental Protection Plan for the Trans Mountain Pipeline ULC Trans Mountain Expansion Project September 2019 REV 6

### **Selected Regulatory Instrument Numbers**

- OC-065

### **Additional Project-specific Requirements or Conditions**

Not specified

### **Facility Details**

- Facility Types
  - Exploration and Production
    - Onshore
      - Construction (Facilities)
  - Pipeline
    - • Pipeline right of way (ROW)
- Life-cycle Phases
  - • Construction

### **Additional Information**

#### **Selected Facilities**

- TRANS MOUNTAIN EXPANSION PROJECT (Pipeline)

### **Observations (No follow-up required)**

## Compliance Summary

### IR #1 Drilling Fluid

#### Discipline

Environmental Protection

#### Categories

- Water Bodies - Fish-bearing
  - Chemical Spills/Releases

#### Facility

- TRANS MOUNTAIN EXPANSION PROJECT

#### Latitude

Not specified

#### Longitude

Not specified

#### Observations

The Environmental Protection Plan indicates the Contractor will have a Bentonite Fluid Release Contingency Plan in place and must be approved by Trans Mountain. The Contractor must comply with the requirements of the Bentonite Fluid Release Contingency Plan.

#### Tool Used

Information Request (IR)

#### Legislative Requirement

Environmental

Plans Volume 2 Pipeline Environmental Protection Plan for the Trans Mountain Pipeline ULC Trans Mountain Expansion Project September 2019 REV 6

#### Applicable Wording from Legislative Document

Page. B-8

Bentonite Fluid Release Contingency Plan

#### Information Requested

Provide the following:

1. Reports on any inadvertent bentonite fluid releases.
2. Details on any additives used in the drilling fluid and provide the MSDS.
3. Description of the method and location of all mud disposal.

4. The contractor site specific Bentonite Fluid Release Contingency Plan prepared for the North Saskatchewan River HDD.

**Due Date**

2020-07-08

**Inspector Analysis**

Documents were provided. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**Requirement  
met**IR #2 Contractor Site Specific Clean-up Plan****Discipline**

Environmental Protection

**Categories**

- Soils and Soil Productivity
  - Restoration

**Facility**

- TRANS MOUNTAIN EXPANSION PROJECT

**Latitude**

Not specified

**Longitude**

Not specified

**Observations**

The Environmental Protection Plan indicates that prior to the commencement of crossing activities, a site-specific clean-up plan will be developed for each crossing. The plan will be prepared by the drilling Contractor in consultation with environment and construction inspection staff.

**Tool Used**Information  
Request (IR)**Legislative Requirement**Environmental  
Plans Volume 2 Pipeline Environmental Protection Plan for the Trans

Mountain Pipeline ULC Trans Mountain Expansion Project September 2019 REV  
6

**Applicable Wording from Legislative Document**

Page. G-151

Prior to the commencement of crossing activities, a site-specific clean-up plan will be developed for each crossing.

**Information Requested**

Provide the Contractor Site Specific Clean-up Plan prepared for the North Saskatchewan River HDD.

**Due Date**

2020-07-08

**Inspector Analysis**

Documents were provided. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**

Requirement  
met

**IR #3 Depth of Cover Below the North Saskatchewan**

**Discipline**

Environmental Protection

**Categories**

- Water Bodies - Fish-bearing
  - Disturbance

**Facility**

- TRANS MOUNTAIN EXPANSION PROJECT

**Latitude**

Not specified

**Longitude**

Not specified

**Observations**

First Nation communities and CER staff are interested in the depth of cover and the potential effects of drilling on fish.

**Tool Used**

Information  
Request (IR)

**Legislative Requirement**

National  
Energy Board Onshore Pipeline Regulations (OPR)

**Sections Of The Act**

- National Energy Board Onshore Pipeline Regulations (OPR)
  - 6. When a company designs, constructs, operates or abandons a pipeline, it shall do so in a manner that ensures
    - ? (a) the safety and security of the public and the company's employees;
    - ? (b) the safety and security of the pipeline; and
    - ? (c) the protection of property and the environment.

**Information Requested**

1. Provide the depth of cover of the pipeline below the North Saskatchewan River.
2. Provide any information on potential impacts to fish from vibrations during HDD drilling activities.

**Due Date**

2020-07-08

**Inspector Analysis**

Requested information was provided. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**

Requirement  
met

**IR #4 Culturally Significant Plants****Discipline**

Environmental Protection

**Categories**

- Socio-economic
  - Traditional Land and Resource Use

**Facility**

- TRANS MOUNTAIN EXPANSION PROJECT

**Latitude**

Not specified

**Longitude**

Not specified

**Observations**

The Environmental Protection Plan indicates Trans Mountain will work in consultation with the Resource Specialist and Indigenous Monitors to determine what other site specific mitigation measures may be considered for TLU features.

**Tool Used**

Information  
Request (IR)

**Legislative Requirement**

Environmental  
Plans Volume 2 Pipeline Environmental Protection Plan for the Trans Mountain Pipeline ULC Trans Mountain Expansion Project September 2019 REV 6

**Applicable Wording from Legislative Document**

Page. 21

Traditional Land and Resource Use 25. Implement the contingency measures identified in the TLU Sites Discovery Contingency Plan (see Appendix B) in the event TLU sites not previously identified are found during pipeline construction. Notify an Environmental Inspector who will collaborate with an Indigenous Monitor for appropriate mitigations, where warranted.

**Information Requested**

1. Clarify if culturally significant plants were identified near the North Saskatchewan HDD site during construction and if so, what mitigation measures were implemented as per the TLU Sites Discovery Contingency Plan.
2. Specify the location of any inadvertent returns with reference to culturally significant plants or TLU site locations and if these sites were impacted in any way.

**Due Date**

2020-07-08

**Inspector Analysis**

Requested information was provided. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**

Requirement  
met

**IR #5 Water Quality Monitoring**

**Discipline**

Environmental Protection

**Categories**

- Water Bodies - Fish-bearing
  - Sedimentation/Turbidity

**Facility**

- TRANS MOUNTAIN EXPANSION PROJECT

**Latitude**

Not specified

**Longitude**

Not specified

**Observations**

Water quality is determined by its biological, chemical and physical characteristics. Alteration of these characteristics can affect its potential value for the biotic species present and/or human needs or use. If not mitigated, construction of the Project could negatively influence water quality, primarily through sediment releases resulting from instream activities or on-shore and marine Project-related construction activities.

**Tool Used**

Information  
Request (IR)

**Legislative Requirement**

Environmental  
Plans Volume 2 Pipeline Environmental Protection Plan for the Trans  
Mountain Pipeline ULC Trans Mountain Expansion Project September 2019 REV  
6



**Applicable Wording from Legislative Document**

Page. G-143 8.2

Water Quality Monitoring Management Plan

**Information Requested**

Provide details of the site specific water quality sampling methods and if any turbidity increases were detected during drilling activities.

**Due Date**

2020-07-08

**Inspector Analysis**

Requested information was provided. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**

Requirement  
met

**IR #6 Aboriginal Monitors****Discipline**

Environmental Protection

**Categories**

- Socio-economic
  - Effects on Communities (including indigenous)
  - Traditional Land and Resource Use
  - Heritage Resources

**Facility**

- TRANS MOUNTAIN EXPANSION PROJECT

**Latitude**

Not specified

**Longitude**

Not specified

**Observations**

Plan for Indigenous Group Participation in Construction Monitoring.

**Tool Used**

Information  
Request (IR)

**Legislative Requirement**

OC-065

**Condition Requirement**

98

**Applicable Wording from Legislative Document**

Indigenous

Monitors onsite through the construction to commissioning of the of the Project will work with environmental inspector to provide traditional knowledge to the construction program to ensure protection of the environment; to discuss upcoming traditional and western science elements with the environmental inspector to insure protection and monitoring; and to monitor mitigation success in protecting the environment.

**Information Requested**

Confirm if the company representative Aboriginal Monitors were onsite during drilling activities.

**Due Date**

2020-07-08

**Inspector Analysis**

Company representatives confirmed Aboriginal monitors were onsite during drilling activities. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**

Requirement  
met

**IR #7 Clean-up of Drill Pad Site**

**Discipline**

Environmental Protection

**Categories**

- Soils and Soil Productivity
  - Restoration

**Facility**

- TRANS MOUNTAIN EXPANSION PROJECT

**Latitude**

Not specified

**Longitude**

Not specified

**Observations**

The Environmental Protection Plan indicates there are activity-specific mitigation measures for reclamation to be implemented, where applicable, by Trans Mountain, its Contractors and/or Subcontractors.

**Tool Used**

Information  
Request (IR)

**Legislative Requirement**

Environmental  
Plans Volume 2 Pipeline Environmental Protection Plan for the Trans  
Mountain Pipeline ULC Trans Mountain Expansion Project September 2019 REV  
6

**Applicable Wording from Legislative Document**

13.0 Clean up  
and Reclamation

**Information Requested**

Provide the stage of clean-up at the drill pad site and any planned future reclamation activities.

**Due Date**

2020-07-08

**Inspector Analysis**

Requested information was provided. No additional information required.

**Date Response Submitted**

2020-07-08

**Reason Closed**

Requirement  
met

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