

Operations Regulatory Compliance

Closed Report - CV1920-155 - 13 January 2020

Event Type

Field
Inspection

CV Event Number

CV1920-155

Project Companies

- Trans Mountain Pipeline ULC

Name of the Operating Company

Trans Mountain
Pipeline ULC (TransMountain)

Rationale, Scope, and Additional Description

Environmental Program based inspection of the Trans Mountain Expansion Project (TMEP), Spread 2. In accordance to the CERs approach and Terms of Reference for the Indigenous Advisory and Monitoring Committee (IAMC), CER Officers, pursuant to subsection 102(5) of the Canadian Energy Regulator Act (CERA), will be accompanied by Indigenous Monitors (IMs). The purpose of these inspections is to verify compliance with the CERA, the National Energy Board Onshore Pipeline Regulations (OPR), referenced standards such as the CAN/CSA Z662 Oil and Gas Pipeline Systems, Certificate OC-065 and associated conditions, notably condition 72 (Pipeline Environmental Protection) and Condition 100 (Heritage Resources), Amending Order AO-001-XO-T260-007-201, Order OPL-002-2019, as well as other associated relevant Regulatory Instruments. The primary focus area for this Compliance Verification Activity (CVA) will be, but may not be limited to, Environmental Protection. Inspections will include verification of implementation of mitigation measures, commitments, and other information associated with Project Environmental Protection Plans (EPPs), and any other relevant plans, manuals, and procedures, as well as management plans. The scope of these inspections will include, but will not be limited to: Ongoing activities along Spread 2, Temporary Sites (Bone Yards, Construction Sites/Yards, Staging Areas), as well as Survey, Access, and Forestry Activities. Areas of interest include wildlife mitigation, wetland and watercourse crossings, waste management, storage and handling of hazardous materials, traditional land & resource use, heritage resource sites, invasive species management, and erosion and sediment controls while focusing on pre-clearing survey methods, delineation and staking activities occurring on the RoW.

Selected Province/Territory

- Alberta

Start Date

2019-11-12

End Date

2019-11-15

Inspection Officer Number

- 2463
- 2864

Selected Disciplines

- Environmental Protection
- Safety Management
- IAMC Observation

Tool Used:

- Corrected Non-compliance (CNC) (1)
- Information Request (IR) (2)

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)
- Canada Labour Code (CLC)
 - Canada Labour Code (CLC)
 - Canada Occupational Health and Safety Regulations (COHSR) 2016-06-14
- Standards
 - CSA Z662-19 - Oil and Gas Pipeline Systems
- Plans And Procedures
 - Project-specific Environmental Protection Plan (EPP)
 - Pipeline Environmental Environmental Protection Plan For The Trans Mountain Pipeline Project - Condition 72. Rev 4
 - Project-specific plan or procedure
 - TMEP Health and Safety Management Plan

Selected Regulatory Instrument Numbers

Not Selected

Facility Details**Facility Types**

Pipeline

- Pipeline right of way (ROW)

Life-cycle Phases

- Construction
- Operations

Additional Information**Selected Facilities**

- TRANS MOUNTAIN EXPANSION PROJECT (Pipeline)
- Mainline (Pipeline)

Observations (No follow-up required)

Meeting with TransMountain Representatives - Safety

Date

2019-11-12

Discipline

Safety

Management

Categories

- Workplace Exposures and Protections
 - Personal Protective Equipment
 - Limits of Exposure
 - Hazard Assessment
- Training and Competency
 - Training and Competency

Facility

- TRANS MOUNTAIN EXPANSION PROJECT
- Mainline

Observations

The Canada Labour Code requires that this information be kept confidential

Tool Used

No

Tool Used

Meeting with TransMountain Representatives - TMEP Environmental Handbook

Date

2019-11-12

Discipline

Environmental Protection

Categories

- Soils and Soil Productivity
 - Biosecurity
 - Soil Integrity
 - Restoration
- Wildlife
 - Species of Concern
- Vegetation
 - Species of Concern
- Housekeeping
 - Waste Management
- Training and Documentation
 - Training
- Socio-economic

- Effects on Communities (including indigenous)
- Traditional Land and Resource Use
- Navigation and Navigation Safety
- Heritage Resources
- Human Occupancy and Resource Use

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

Company Representatives provided a copy of, and reviewed with the CER Inspection Team, the TMEP Environmental Handbook. Company Representatives indicated this document is provided to all visitors on the TMEP following completion of visitors' orientation.

Topics included but are not limited to:

- Environment, Health and Safety Policy;
- Environmental Features;
- Wildlife, Species at Risk;
- Wetlands and Watercourses;
- Vegetation, Soils; Marine Environment; and
- Community Interactions.

Tool Used

No Tool Used

Clear Stream Energy Services (Pipe Yard) Yard B & Yard A

Date

2019-11-12

Discipline

Safety

Management

Categories

- Workplace Exposures and Protections
 - Safeguarding
 - Personal Protective Equipment
 - Industrial Sanitation and Personnel Facilities
 - Fire Protection
 - Flammable and Combustible Liquids
 - Hazard Assessment
- Materials Handling
 - Ropes, Chains and Slings
- Temporary Structures
 - Temporary Stairs, Ramps and Platforms
 - Signage

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

General

- Visitors' orientation provided which included discussion on ongoing activities and associated hazards, muster point, and first aid.
- Given yard winter conditions, Company Representatives provided CER Inspection Team with traction aids as mitigation to slippery winter conditions.
- Onsite trailer has posted Project and site relevant documentation including:
 - Site Specific - Emergency Response Plan (SSERP);
 - Site Specific - Traffic Management Plan (SSTMP)- EDS003;
 - Hazard Registry – Site Specific Hazard Risk Assessment (SSHRA);
 - TMEP Stockpile Management – Orientation Plan;
 - Site Specific Construction Environmental Execution Plan EDS003;
 - Clear Stream Energy Services 106484 TMEP Stockpile Management – Waste Management Plan;
 - First Aid Responders;
 - Edson Pipe Storage Facility Security Plan; and
 - Site Specific Safety Plan (SSSP).

Yard B

- Washrooms (toilet room & wash basins) trailers are present adjacent to site office trailer.
- Housekeeping is appropriate at site trailer, and throughout the yard.
- Waste bins available and segregated in different streams (garbage, cardboard, contaminated soils, spent aerosols, plastic end caps, epoxy, hazardous materials).
- Designated smoking area present with appropriate signage and fire extinguisher.
- Access matting (rig mats) are present throughout the majority of the yard. Company Representatives indicated this was completed to mitigate compaction and erosion as well as worker safety and to minimize muddy conditions.
- Stockpiles throughout the yards are organized by size, wall thickness, and coating.
- Endcaps present on stockpiled pipes and stockpiles are chocked.

Yard A

- Observed ongoing pipe unloading of a pipe truck and stockpiling of pipe.
 - Worker positioning appropriate for suspended loads, equipment, pipe.
 - Observed pipes being stockpiled, aligned and chocked.
 - Observed good communication between operators and workers with the use of signals (hand, horn).
 - Company Representatives indicated they are receiving and unloading approximately 12 pipe trucks a day.
- Stockpiles throughout the yards are organized by size, wall thickness, and coating.
- Endcaps present on stockpiled pipes and stockpiles are chocked.

Tool Used

No

Tool Used

TMEP Pipeline RoW – General Observations

Date

2019-11-13

Discipline

Environmental Protection

Categories

- Soils and Soil Productivity

- Biosecurity
- Wildlife
 - Species of Concern
- Vegetation
 - Invasive Plant Management
 - Species of Concern
- Training and Documentation
 - Documentation Available/Up to Date
- Socio-economic
 - Effects on Communities (including indigenous)
 - Traditional Land and Resource Use
 - Navigation and Navigation Safety
 - Heritage Resources
 - Human Occupancy and Resource Use

Facility

- TRANS MOUNTAIN EXPANSION PROJECT
- Mainline

Observations

KP244 to KP255

- Pipeline identification signage present along existing RoW road crossing.
- No ongoing activities at time of inspection.
- Staking and flagging present identifying wetlands and wetland buffers are appropriate.
- Staking and flagging identifying buffers to identified cultural resources, and to the Little Sundance Creek are in place.
- CER Inspection Team and Company Representatives discussed current planned isolated open cut crossing and challenges likely to occur using that crossing method in this area in consideration of the size of the watercourse, associated wetland complexes, slopes, and vegetation. Company Representatives indicated TransMountain is currently reviewing planned crossing method and the possibility of changing it to a trenchless method such as a horizontal directional drill (HDD), and the environmental benefits and possible minimization of impacts to environmental features that could be attained.
- CER Inspection Team and Company Representatives discussed planned wood salvage in the Little Sundance Creek valley, as well as methods and equipment to be used in clearing activities and associated woody debris commitment for cleanup and reclamation.

~KP 269+700 to 270+700

- Forest cover in this area was cleared along the Project RoW prior to the revocation of the applicable NEB Certificate in 2018 and the cessation of construction activities that ensued.
- No ongoing activities at time of inspection.
- Trees along RoW, Temporary Work Space (TWS) and log decks have been removed / cleared, no logs present.
- Coarse woody debris (CWD) is present.
- Access from private roadway crossing and TWS access to RoW on the southern side of the roadway had been previously removed and cleaned-up (grade & topsoil replaced). Appropriately keyed in sediment fencing is present. TransMountain Representatives indicated this had likely been completed at cessation of activities in 2018.
- On the southern side of transmission powerlines, an environmental feature (wetland) and buffer is adequately staked and flagged.
- South of transmission powerlines, TMEPs RoW parallels the existing OD36" and OD24" TransMountain pipelines.

~KP 273 + 900

- Observed recently staked and flagged environmental features.
- Company Representatives explained process for identification and delineation at this site for the field identified wetland which is predominantly treed with Larch and Black Spruce.

Tool Used

No

Tool Used

Meeting with TransMountain Representatives - Environment Inspectors (EIs)**Date**

2019-11-14

Discipline

Environmental Protection

Categories

- Water Bodies - Non-Fish-bearing
 - Temporary Access Structures
 - Reclamation
- Water Bodies - Fish-bearing
 - Temporary Access Structures
 - Erosion

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

NEB Inspection Team and TransMountain Representatives had discussions on several topics including:

- Current TMEP RoW access restrictions, particularly about Profile Plan and Book of Reference (PPBORs), landowner complaints, and associated CER processes.
- Watercourse crossing methods and approval requirements from the Regulator, the Department of Fisheries and Oceans (DFO), and Transport Canada (TC).
- Alignment sheets, ongoing and planned activities along Spread 2 for the next day, and logistics for the remainder of field inspections.

Tool Used

No Tool Used

TMEP Pipeline RoW – General Observations**Date**

2019-11-14

Discipline

Environmental Protection

Categories

- Soils and Soil Productivity

- Biosecurity
- Water Bodies - Fish-bearing
 - Temporary Access Structures
- Wildlife
 - Species of Concern
- Vegetation
 - Invasive Plant Management
 - Species of Concern
- Socio-economic
 - Effects on Communities (including indigenous)
 - Traditional Land and Resource Use
 - Navigation and Navigation Safety
 - Heritage Resources
 - Human Occupancy and Resource Use

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

~KP 135+500 to ~ KP 136+600

- No ongoing activities at time of inspection.
- Buffers and wetland features identified by staking and flagging.
- Company Representatives discussed how these environmental features are being field verified for actual conditions.
- For one wetland complex in this area, the initial desktop delineation identified on the applicable alignment sheet was initially portrayed as a larger wetland complex. Wetland boundaries were reduced upon field identification, staked and flagged.
- Watercourse (ephemeral stream) identified with a 10 m buffer which is flagged and staked.
- Drainage with identification and buffers staked and flagged.

~KP157+000 to ~KP 158+000

- Resource Specialists crew actively surveying, staking and flagging Environmental, Heritage Resource (HER), as well as Traditional Land Use (TLU) sites along the RoW.
- Accompanied by TransMountain Representatives, CER Inspection Team met with TransMountain third party Resource Specialists.
- Resource Specialists explained process and techniques being utilized to field verify and delineate environmental features in this area. Known and newly identified features are recorded, all new points of interest are communicated to Trans Mountain before they are entered into the data logging software to make necessary updates to Project information.
- CER Team examined completed staking and flagging for wetlands, invasive and/or Noxious Weed species (Oxeye Daisy and Tall Buttercup), and drainage which included associated buffers in this area.
- Observed transitions into another wetland/watercourse site (i.e., non-classified drainage) and TLU site.
- Flagged and staked boundaries are placed to identify the abundance of features present in a single location.
- Mature trees, potentially old growth forests are present next to existing RoW and planned TWS. TransMountain Representatives confirmed additional determinations of clearing requirements for access in the area will be completed.
- Review and discussion of Biosecurity requirements in this area revealed that required protocols are being exceeded by the Resource Specialists as they have been actively applying level three cleaning protocols which are not required.

~KP 175+000 to ~KP 74+000

- Staking and flagging have not yet occurred in this area.
- TMEP RoW in this area is forested and dominant forest ecosystems are stands of mature lodge pole pine.
- CER Inspection Team visited a previously identified TLU site. Trans Mountain Representatives confirmed that commitments and requirements for mitigation measures had already occurred in 2018 for this location.

Little Brulé Creek

- No ongoing activities at time of inspection.
- Staking and flagging have not yet occurred for environmental features in this area.
- TransMountain Representatives indicated that the planned watercourse crossing method is an open cut isolation.
- Forested canopy present along TMEP RoW, merchantable timber present in this parcel of public lands.

Unnamed Creek / Tributary (West of AB114)

- No ongoing activities at time of inspection.
- Staking and flagging have not yet occurred in this area.
- TMEP RoW in this area is primarily pasture lands with some forested tracts.
- TransMountain Representatives indicated that TLU sites are present in the area and that mitigation measures have been identified.
- TMEP RoW through AB114 traverses an unnamed creek, and has signs of a historic beaver dam and beaver lodge, inactive for many years as banks of the dam have been heavily vegetated.
- TransMountain Representatives indicated that the planned watercourse crossing method is an open cut isolation.

Carrot Creek

- No ongoing activities at time of inspection.
- Cultivated lands present on either side of the watercourse.
- Pipeline identification markers present on TransMountain Operating pipeline RoW at watercourse.
- TLU sites are present in the area, mitigation measures have been identified.
- CER Inspection Team and TransMountain Representatives discussed this site in some detail with TLU, Paleontology, Cultural, Heritage, watercourse crossings method implications for this fish bearing and Navigable waterway.

Tool Used

No

Tool Used

IM Observation**Date**

2019-11-15

Discipline

IAMC

Observation

Categories

- General
 - General

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

TMX-IMAC Environmental Inspection Report
Spread 2 Edson, Alberta
November 12-15, 2019

Edson Environmental inspection:

Observation focus: stated to be surveying and previous work done in the area.

November 12, 2019

Hotel Conference Room

Meeting:

- Two TMX officers, two CER Inspection officers (IO), one other Indigenous Monitor (IM) and myself (Inspection Team) participated.
- IOs and TMX representatives spoke to the work being done in the area, what sites the company had access to, which sites expected to be inspected.
- No areas of interest to see for myself.
- TMX also stated that two more personnel would be joining us in the morning.
- TMX stated our inspection was very early in the beginning stages of their planning, surveying, construction etc. (work has been split into 5 different areas).

November 13, 2019

Hotel conference room,

Morning meeting:

- Four TMX officers, two IO's, one other IM and myself participated.
- Morning tailgate/warm up goes as planned.
- TMX representatives and IO's information share (covered everything we are expecting to inspect, expected arrival times, information to site specific requirements, weather forecast, and what is to be expected for our visit.
- End of day meet up / run down of tomorrow (debrief).

TMX Pipe Yard A and B

Environment:

- Waste receptacles are clearly labeled and visible.
- Yard works all in order; very clean.
- Staff are very knowledgeable of day to day operations.
- Any information asked for was given freely and promptly.
- Inspection of Yard A was a site tour, much information on all aspects of operations in yard.
- All of my questions were answered.
- Not enough to report on as we were on site early in the beginning of construction; No issues.

Watercourse Crossing Site

Environment:

- Surveying stakes marked well.
- Farm fields to watercourse were marked out / staked.
- TMX officers spoke as to what type of crossing it would be and it is still in discussions.
- All my questions answered.
- No issues.

Watercourse/Wetland Site 3

Environment:

- Survey staking marked well.
- Silt fencing was left off Right of Way (ROW) from previous work, no definite answer on what it was there for.
- ROW easily accessed by roadway.
- No issues.

Watercourse / Wetland site 4

Environment:

- Survey staking marked,
- Easily accessed by roadway.
- No areas of interest on my part.
- All questions answered.
- No issues.

November 13, 2019

Hotel conference room; end of day meeting:

- Inspection Team shared thoughts on next day site visits.
- Discussion of PPE requirements for next day.
- Viewed TMX company orientation video.
- No areas of interest for IAMC to view.
- Also mention of more TMX personnel meetings.
- All questions answered.

November 14, 2019

Hotel conference room; morning meeting:

- Discussed information on site specific requirements, sites to be visited, and arrival times.
- Some sites to be determined if access has been granted.
- Meeting with more TMX personnel.

Watercourse /Wetland Site 5

Environment:

- Survey stakes / markers visible.
- Not easily accessed; long hike to area of interest.
- No areas of interest to me.
- No issues.

Watercourse crossing Site 6

Environment:

- Survey stakes / markers visible.
- Not easily accessed
- No areas of interest on my part.
- All questions about area were answered.
- No issues.

Wetland Site 7

Environment:

- Scheduled meet up with more TMX personnel (Survey Crew)
- Surveying crew (2 individuals). Introductions made, knowledge shared of work being done in the areas visited and being inspected.
- Survey shares buffering zones information.
- Areas of interest to me (all TLU sites are clearly staked and mitigation measures will be met when sensitive areas/rare plants are found).

- Site had survey stakes out, clearly marked.
- Any questions about area were answered.
- TMX representatives and surveying crew share their knowledge of other works in area
- Not enough in this area to report on; no issues.

Watercourse crossing Site 8

Environment:

- TMX representatives speak to what type of crossing is in the plans for this site.
- No easy access to site; farm pastures surround the location.
- Potential for chance find during construction, considering the landscape and topography.

Watercourse crossing Site 9

Environment:

- Surveying stakes / markers visible.
- Well water testing area observed on way to site.
- Site has snow and silt fencing near watercourse from previous work activities.
- Site easily accessed by roadway.
- Potential of chance find during construction, considering area and topography.
- Not enough to report.

Watercourse crossing Site 10

Environment:

- Farm fields to crossing site.
- TMX officer speaks to what type of crossing is planned at this site.
- No areas of interest observed.
- Potential for chance find when during construction phase, considering landscape and topography.
- IM shares information of area from knowledge as his nation is near area.
- Road access is easy.
- All questions answered
- No issues.

November 14, 2019

Hotel Conference Room

End of day meeting / run down of tomorrow's activities

- TMX confirms meeting with CER for finalizing reports.
- TMX informs that more company personnel will be joining us.
- CER affirms reports will be good as this inspection was early at this stage in construction.
- Any and all my questions answered.

November 15

Hotel conference room,

Morning warm up,

- TMX representatives speak on information pertaining to scheduled construction.
- Shift changes as of daybreak will occur
- TMX representatives speak of TMX Company IM's being on site that day.
- CER IOs speaks to having nothing but good words for this report for work, construction, and plans.

End of meeting.

Tool Used

No

Tool Used

IM Observation

Date

2019-11-15

Discipline

IAMC

Observation

Categories

- General
 - General

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

On November 12, we had an initial meeting to discuss the scope of work for the inspection. The following people from TMX:

CER IOS

IAMC IM

Chief Environmental Inspector

Spread 2 Lead Environmental Inspector

H&S Lead Inspector

H&S Inspector

During the meeting it was discussed that we would look at the pipe yard outside of Edson. We discussed the IAMC IMs concerns consisted of Carrot Creek and Little Brule Creek along with some accessible TLU sites. Some sites were not accessible due to the weather and ROW conditions. We were given traction aids as a safety measure to prevent and slips or trips. It was discussed what PPE we needed to be out on Row.

Observation made during our inspection:

- **The laydown yard was well organized and maintained**
- **Little Brule Creek had some erosion and sediment control measures are in place on the slope west of the watercourse channel.**
- **Little Brule Creek also had some reclamation work left unattended (i.e., T posts, Snow fencing)**
- **The TLU sites were correctly buffered and staked**
- **Significant TLU sites are to remain protected**
- **Carrot Creek had the riparian zone stripped (e.g., Agricultural purposes)**
- **Carrot Creek is a navigable watercourse; fish bearing**
- **During inspection we continued discussions of watercourse crossings (i.e., HDD, Open Cut)**

- **The water crossings we visited we discussed the mitigation measures, preventative measures**
- **We met with flaggers and were taught how much of a buffer zone different zones were given(TLU site, Rare plant sites, waterways or potential Emergence marsh etc)**
- **Certain farmlands are going to have cleaning stations to avoid the spread of invasive weeds (e.g., clubroot and soil pathogens)**
- **In parts of our inspection we came across evidence of wildlife (e.g., signs of presence or past presence including Deer, Elk, Coyotes, and Beavers)**
- **Little Sundance Creek is a navigable watercourse; fish bearing**

Tool Used

No

Tool Used

Compliance Summary

Corrected Non-Compliance (CNC) – CNC No.1 Pipeline Identification Signage – Unnamed Tributary (TMP RoW)

Date

2019-11-14

Discipline

Damage

Prevention

Categories

- Pipeline Identification
 - Signs
 - Watercourses

Facility

- Mainline

Observations

Along the existing and operating TransMountain Pipeline RoW, at an Unnamed Tributary identified on the TMEP as feature (AB 114), pipeline identification signage does not identify the current operating company and the emergency number is out of service.

Tool Used

Corrected

Non-compliance (CNC)

Legislative Requirement

CSA

Z662-19 - Oil and Gas Pipeline Systems

Applicable Wording from Legislative Document

CSAZ662, Clause 10.5.3.3 Signs shall include the following information, printed on a background of sharply contrasting colour: a)

the word "Warning"*, "Caution"*, or "Danger"* prominently displayed, in 25 mm high, bold lettering; b) the type of pipeline system, such as "High-Pressure Natural Gas Pipeline"†, prominently displayed in 13 mm high bold lettering; and c) the name of the operating company and emergency notification information, including an emergency telephone number with area code.

Company Action Required

Install appropriate signage as required.

Due Date

2019-11-15

Information Request (IR) - IR No.1 - Little Brule Creek - Existing Trans Mountain Pipeline RoW (TMP-RoW)

Date

2019-11-15

Discipline

Environmental Protection

Categories

- Soils and Soil Productivity
 - Erosion Control
 - Restoration
- Water Bodies - Fish-bearing
 - Erosion
 - Destruction/Loss of Habitat
 - Reclamation

Facility

- Mainline

Observations

- On the western side of the watercourse (pipeline downstream side), erosion and sediment control (E&SC) measures are in place on the western side slope (western bank) of the watercourse channel.
- On the eastern side of the creek crossing (pipeline upstream side), weathered sediment fencing, snow fencing, and "T-posts", are present.

Tool Used

Information Request (IR)

Legislative Requirement

CSA Z662-19 - Oil and Gas Pipeline Systems

Applicable Wording from Legislative Document

10.5.8

Environmental effects Operating companies shall establish effective prevention and control measures to maintain the effect of pipeline system operations upon the environment within acceptable levels

Company Action Required

Provide a response outlining what operations and maintenance activities (O&M Activities) have occurred at the site; under what O&M Notification number was the Board (now Regulator) Notified of O&M Activities which have occurred in the vicinity of Little Brule Creek for the existing and operating TransMountain Pipeline RoW. Please provide a description of and details surrounding O&M Activities conducted and their timing. Provide available environmental monitoring / inspection report(s) of the site following ground disturbances or clean-up activities including the installation of erosion and sediment control measures at Little Brule Creek.

Due Date

2019-11-21

Information Request (IR) IR No. 2 - Little Brule Creek - Existing Trans Mountain Pipeline RoW (TMP-RoW)

Date

2019-11-15

Discipline

Environmental Protection

Categories

- Groundwater
 - Monitoring and Testing

Facility

- Mainline

Observations

Approximately a dozen groundwater monitoring wells present along the northern edge of the Existing TMP RoW on the eastern side of Little Brule Creek. An ATCO Gas RoW is adjacent to TMP-RoW in the vicinity of these groundwater wells.

Tool Used

Information
Request (IR)

Legislative Requirement

CSA
Z662-19 - Oil and Gas Pipeline Systems

Applicable Wording from Legislative Document

10.5.8 Environmental effects Operating companies shall establish effective prevention and control measures to maintain the effect of pipeline system operations upon the environment within acceptable levels.

Company Action Required

A response providing additional information on the groundwater monitoring wells identified by the CER Inspection Team near Brule Creek located to the northern side to the TMP-RoW. In your response, please indicate if TransMountain is aware of their presence, their purpose, and if these are owned by TransMountain or owned and the responsibility of another party.

Due Date

2019-11-21