

Project Name	Coastal GasLink Pipeline Project	Inspection Status	Final
EA Certificate #	E14-03	Inspection No.	IR2022-054
Project Status	Certified	Inspection Start	2022-11-02
Sector	Energy	UTM	10N 533609 6071561
Trigger	Planned Inspection	Inspection Type	Field
Project Description	The Coastal GasLink Pipeline Project (Project) is an approximately 650 kilometer (km) long natural gas pipeline connecting facilities in northeast British Columbia (BC) to the LNG Canada facility near Kitimat.		
Location Description	The Project is near Groundbirch (40 km west of Dawson Creek) in northeast BC to the LNG Canada facility near Kitimat. This inspection covered work being carried out in Sections 3 and 4. The UTM referenced above is approximately in the center of the sections of where the inspection took place.		
Inspection Summary	<p>On November 2 to 4, 2022, Environmental Assessment Office (EAO) Senior Compliance and Enforcement Officer Shayla Frechette and Compliance and Enforcement Specialist Sarah Ellis inspected the Project against requirements of the Environmental Assessment Certificate (EAC) #E14-03 (Appendix 1-4).</p> <p>The Project was in Construction at the time of inspection.</p> <p>Project areas inspected include Work Execution Plan (WEP) kilometer point (KP) 163+960 to 164+670, 186+530 to 186+870, 381+320 to 381+690 and portions of the Right of Way (ROW) within Section 2, 3 and 5. This inspection included a verbal debrief of observations with Project staff on November 4, 2022.</p> <p>On December 7, 2022, EAO Officer Frechette provided the preliminary inspection record to the Certificate Holder.</p> <p>On December 15, 2022, the Certificate Holder provided comments pertaining to the preliminary inspection record. These comments were reviewed and edits were made to the record by EAO C&E Branch (CEB) to correct identified errors of fact or omission prior to finalizing.</p> <p>The compliance determinations in this report reflect the findings from the inspection dates noted above. These determinations can change at any time upon information gathered through future inspections or if new information is obtained by EAO CEB.</p>		
In Attendance	CGL Environmental Construction Coordinator – East CGL Senior Environmental Compliance Advisor CGL Lead Environmental Inspector- Work Pack 3 CGL Environmental Inspector CGL Environmental Inspector Somerville. Aecon Energy Group Environment Manager Somerville. Aecon Energy Group Erosion and Sediment Control- Competent Person Somerville. Aecon Energy Group Forman Construction Monitoring Community Liaison- Nak’azdli Whut’en Construction Monitoring Community Liaison- Nadleh Whut’en		

	Construction Monitoring Community Liaison- Saik'uz Construction Monitoring Community Coordinator
Certificate Holder	Coastal GasLink Pipeline Ltd.
Mailing Address	450 1st Street S.W. Calgary, AB T2P 5H1
Contact	Dan Wyman, Manager, Regulatory Services, Coastal GasLink, TransCanada
Phone No.	403 920-6296
Email	dan_wyman@tcenergy.com

INSPECTION DETAILS

Requirement 1:

Condition 26 of Schedule B (Appendix 3)

Environmental Management Plan

The Holder must develop and implement an Environmental Management Plan (EMP) in accordance with Section 25 and Appendix 2A of the Application.

The Holder must develop the EMP in consultation with the Relevant Regulatory Authorities and Aboriginal Groups for the approval of EAO per Appendix A to this EAC.

The Holder must not commence Construction until the EMP has been approved. The EMP approved must be submitted to OGC prior to the Holder's planned date to commence Construction.

The Holder must carry out a Post-Construction Monitoring Program to monitor and report on the effectiveness of the mitigation set out in the EMP.

Section 8.1 General Environmental Protection Measures (Appendix 5)

Section 8.1.3 Specific Measures

Equipment Refuelling and Servicing

The contractor will ensure equipment is well-maintained and free of fluid leaks.

Findings:

On November 3, 2022, Officers Frechette and Ellis were accompanied by local Construction Monitoring Community Liaisons (CMCLs) who indicated that they first observed a spill on a fuel tank at the 10A Laydown on October 6, 2022. The CMCLs provided a copy of the photograph to Officer Frechette (Photo 1). During the inspection Officer Frechette noted the fuel tank, which appeared to have previously overflowed and dripped fuel down the sides and onto the ground (Photo 2). The tank appeared to be cleaned but still contained residue on the top and bottom of the tank (Photo 3). On November 4, 2022, Officer Frechette requested a copy of the spill report for this location. On November 22, Manager, CGL Regulatory Services stated the following: *"Coastal GasLink understands that a spill was reported to EAO independently by the CMCLs. However, neither Coastal GasLink, nor the Prime [contractor] have a record of a spill at this location and I'm not aware of a spill report being filed by the CMCLs. Coastal GasLink personnel who participated in the inspection also reported that no evidence of a spill was observed during the inspection. If EAO has specific information related to a spill at this location, Coastal GasLink would appreciate EAO sharing that information so we can conduct an investigation."*

Coastal GasLink understands that a minor incident occurred in early October where a small amount of fuel was splashed during fueling, however the errant fuel was contained, no fuel made contact with the ground, and therefore this would not qualify as a reportable spill under the OGC spill reporting guidelines."

These observations have been referred to the BC Oil and Gas Commission, Compliance and Enforcement Branch.



Photo 1: Photo taken on October 6, 2022, of fuel tank at 10A laydown provided by CMCL representative.

Date & Time: Thu, Nov 03, 2022, 14:15:40 PDT
Position: 10 N 417549 6001772 (± 15.5 ft)
Altitude: 2992ft (± 11.1 ft)
Datum: WGS-84
Azimuth: $+083^\circ + 1476$ mils ($\pm 12^\circ$)
Elevation Angle: $+07.3^\circ$
Horizon Angle: -51.4°
Zoom: 1.0X
CGL 10a



Photo 2: Spill residue on fuel tank at 10A laydown.

Date & Time: Thu, Nov 03, 2022, 14:15:21 PDT
Position: 10 N 417550 6001768 (±15.1ft)
Altitude: 2980ft (±11.7ft)
Datum: WGS-84
Azimuth: ±098° +1742mils (±12°)
Elevation Angle: -20.9°
Horizon Angle: -50.3°
Zoom: 0.5X
CGL 10a

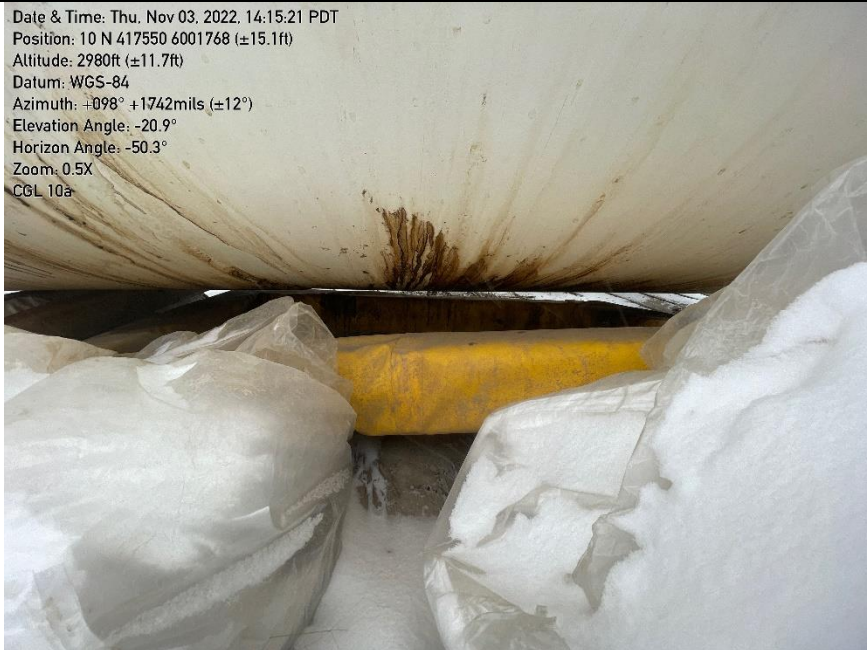


Photo 3: Spill residue on fuel tank at 10A laydown.

Compliance Determination: Referred to BC Oil and Gas Commission, Compliance and Enforcement Branch

Requirement 2:

Compliance Agreement Under Section 55 of the Environmental Assessment Act (Appendix 6)

Article 2 – Compliance Obligations

Section 2.4 Work Execution Plan Implementation

For each Identified Area, the Holder must:

(2) after receiving approval under section 2.3(1)(b) or (c), implement the applicable Work Execution Plan until such time that the portion of the Identified Area covered by the Work Execution Plan demonstrates final site stabilization in relation to ESC risks to ESRs as determined by a Qualified Professional to the satisfaction of EAO.

Schedule B – Identified Areas

The following kilometer point (KP) ranges are Identified Areas for the purposes of this Agreement:

KP 163+960 to 164+670 (Appendix 7)

Environmental Assessment Act, 2018, Order Under Section 53(1)

Enforcement Order EN2022-028, October 14, 2022 (Appendix 8)

- 1) Construction may not occur in any Identified Area unless in full compliance with an Approved WEP or Approved amended WEP, or as otherwise provided for in the Agreement.
- 2) The Certificate Holder must cease all variations from an Approved Work Execution Plan that are not in accordance with the Agreement.
- 3) The Certificate Holder must cease installation of Measures that are not as specified in the Work Execution Plans.

Findings:

On September 15, 2022, CGL submitted the WEP for KP 163+960 to 164+670 to EAO CEB. On September 16, 2022, EAO CEB approved the WEP. No amendments to this WEP were approved nor requested of EAO as of November 2, 2022. No notification of deviations were approved or requested of EAO by November 2, 2022.

On November 2, 2022, Officer Frechette inspected the ROW, which was in active grubbing and stripping phase and noted the following as examples of what was observed in the field versus the site-specific erosion and sediment control plan (SSESCP) included in the WEP.

Examples of deviations from WEP include:

- KP164+720 - Lack of energy dissipater at the end of a rock lined perimeter ditch with respect to material size used as specified by the SSESCPs (Photo 4); and,
- KP164+311 - Lack of sediment fence behind stockpile as specified by the SSESCPs. It was noted by the Environmental Construction Coordinator on November 3, 2022, that the sediment fence had since been installed. However, Officer Frechette could not confirm if it was installed as per specification (Photo 5).

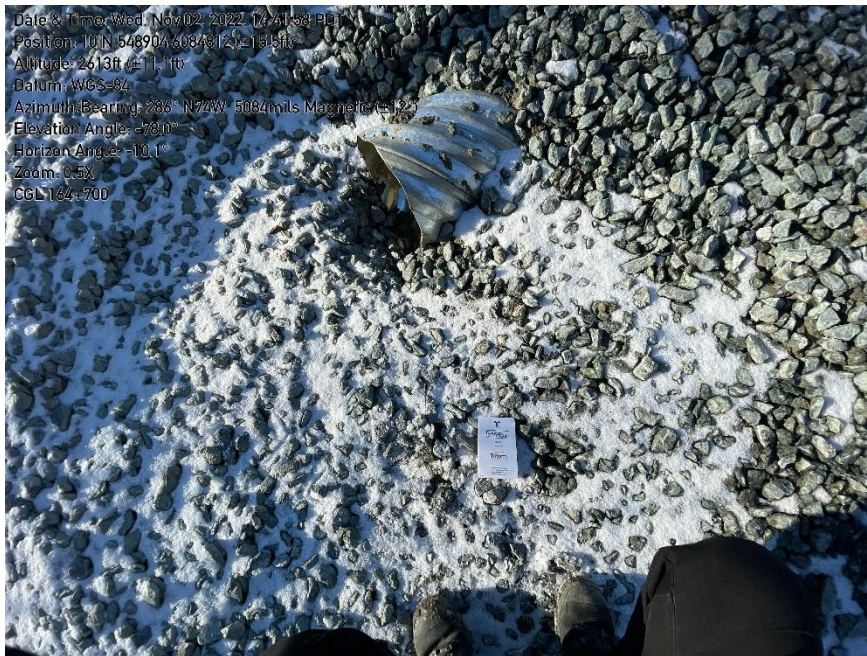


Photo 4: KP164+720 - Lack of energy dissipater at end of perimeter ditch and entrance to culvert.

Date & Time: Wed, Nov 02, 2022, 15:38:30 PDT
Position: 10 N 549105 6085131 (± 15.5 ft)
Altitude: 2690ft (± 11.1 ft)
Datum: WGS-84
Azimuth/Bearing: 027° N27E 0480mils Magnetic ($\pm 14^\circ$)
Elevation Angle: -14.5°
Horizon Angle: +01.8°
Zoom: 0.5X
CGL 164+340



Photo 5: KP164+311 - Lack of sediment fence located behind stockpile.

The observations noted at the time of the inspection provide evidence of non-compliance with respect to the implementation of the WEP and EN2022-028.

Compliance Determination: Out - Notice of Non-Compliance

Requirement 3:

Compliance Agreement Under Section 55 of the Environmental Assessment Act (Appendix 14)

Article 2 – Compliance Obligations

Section 2.4 Work Execution Plan Implementation

For each Identified Area, the Holder must:

(2) after receiving approval under section 2.3(1)(b) or (c), implement the applicable Work Execution Plan until such time that the portion of the Identified Area covered by the Work Execution Plan demonstrates final site stabilization in relation to ESC risks to ESRs as determined by a Qualified Professional to the satisfaction of EAO.

Schedule B – Identified Areas

The following kilometer point (KP) ranges are Identified Areas for the purposes of this Agreement:

KP 186+530 to 186+870 (Appendix 9)

Environmental Assessment Act, 2018, Order Under Section 53(1)

Enforcement Order EN2022-028, October 14, 2022 (Appendix 8)

1) Construction may not occur in any Identified Area unless in full compliance with an Approved WEP or Approved amended WEP, or as otherwise provided for in the Agreement.

2) The Certificate Holder must cease all variations from an Approved Work Execution Plan that are not in accordance with the Agreement.

3) The Certificate Holder must cease installation of Measures that are not as specified in the Work Execution Plans

Findings:

On October 7, 2022, CGL submitted a WEP for KP 186+530 to 186+870 to EAO CEB. On October 14, 2022, EAO CEB approved the WEP. No amendments to this WEP were approved nor requested of EAO as of November 2, 2022. No notification of deviations were approved by or requested of EAO by November 4, 2022.

On November 4, 2022, Officers Frechette and Ellis inspected the ROW, which was in the grubbing and stripping phase and noted the following as examples of what was observed in the field versus the SSESCPs included in the WEP.

Examples of deviations from WEP include:

- KP186+720 - Sediment fence installed protecting stockpile on north-east side of ROW not to specification with respect to spacing between stockpile and sediment fence as specified by the SSESCPs (Photo 7);
- KP186+740 - Sediment fence installed protecting stockpile on south-west side of ROW not to specification with respect to spacing between stockpile and sediment fence as specified by the SSESCP (Photo 8); and,
- KP186+740 - Lack of perimeter ditch behind stockpile on south-west side of ROW as specified by the SSESCP (Photo 8).



Photo 6: KP186+720 - Sediment fence installed protecting stockpile not to specification.



Photo 7: KP186+740 - Sediment fence installed protecting stockpile not to specification.



Photo 8: KP186+740 - Lack of perimeter ditch behind stockpile.

The observations noted at the time of the inspection provide evidence of non-compliance with respect to the implementation of the WEP and EN2022-028.

Compliance Determination: Out - Notice of Non-Compliance

Requirement 4:

Compliance Agreement Under Section 55 of the Environmental Assessment Act (Appendix 14)

Article 2 – Compliance Obligations

Section 2.4 Work Execution Plans Implementation

The Holder must ensure that each Work Execution Plan includes at least the following information with respect to the relevant area within the applicable Identified Area:

(2) after receiving approval under section 2.3(1)(b) or (c), implement the applicable Work Execution Plan until such time that the portion of the Identified Area covered by the Work Execution Plan demonstrates final site stabilization in relation to ESC risks to ESRs as determined by a Qualified Professional to the satisfaction of EAO.

Schedule B – Identified Areas

The following kilometer point (KP) ranges are Identified Areas for the purposes of this Agreement:

KP 381+320 to 381+690 (Appendix 10)

Environmental Assessment Act, 2018, Order Under Section 53(1)

Enforcement Order EN2022-028, October 14, 2022 (Appendix 8)

- 1) Construction may not occur in any Identified Area unless in full compliance with an Approved WEP or Approved amended WEP, or as otherwise provided for in the Agreement.
- 2) The Certificate Holder must cease all variations from an Approved Work Execution Plan that are not in accordance with the Agreement.
- 3) The Certificate Holder must cease installation of Measures that are not as specified in the Work Execution Plans

Findings:

On September 22, 2022, CGL submitted a WEP for KP 381+320 to 381+690 to EAO CEB. On October 21, 2022, EAO CEB approved the WEP. No amendments to this WEP were approved nor requested of EAO as of November 3, 2022. No notification of deviations were approved or requested of EAO by November 3, 2022.

On November 3, 2022, Officers Frechette and Ellis inspected the ROW, which was in active grubbing and stripping phase. Project staff indicated that the ROW was grubbed and stripped approximately two weeks prior to the site inspection. CMCLs, who participated in the inspection, noted that only one piece of active equipment was in operation the day before the inspection, which was working at the top of the slope. Officer Frechette noted the following as examples of what was observed in the field versus the SSESCP included in the WEP.

Examples of substantive deviations from WEP include:

- KP381+440 to 381+575 - Missing five correctly installed straw wattles on north-east side of ROW as specified by the SSECP (Photo 9);
- KP381+440 to 381+575 - Missing five sediment fences on north-east side of ROW as specified by the SSECP (Photo 9);
- KP381+440 to 381+575 - Five water bars located along slope not constructed to specification with respect to size as specified by the SSECP (Photo 9 & 10);
- KP381+520 to 381+575 - Lack of rock lined feature on south-east side of ROW as specified by the SSECP (Photo 11);
- KP381+520 to 381+575 - Lack of two straw wattles on south-east side of ROW as specified by the SSECP (Photo 11);
- KP381+520 to 381+575 - Lack of two sediment fences on south-east side of ROW as specified by the SSECP (Photo 11);

- KP381+570 - Unapproved stockpiles located on the southeast base of the slope not specified by the SSECP (Photo 11);
- KP381+575 - Unapproved discharge located behind unapproved stockpiles located on the south-east base of the slope not specified by the SSECP (Photo 12). Project staff indicate that dewatering occurs when required at this location;
- KP381+580 - Unapproved pumping from sump located on the north-west side of the ROW not specified by the SSECP (Photo 13). Project staff indicate that the sump is dewatered into near by vegetation when required;
- KP381+600 - Culvert flume outlet crossing non-classified drainage 62C1, lacking straw wattles inside sediment fence as specified by the SSECP (Photo 14);
- KP381+600 - Vehicle crossing over culvert not constructed with respect to crowning of crossing as specified by SSECP (Photo 14); and,
- KP381+625 - Unapproved stockpile located on slope on high chain, north-west side of non-classified drainage 62C1 (Photo 15).



Photo 9: KP381+440 to 381+575 - Missing five correctly installed straw wattles and sediment fences.



Photo 10: KP381+440 to 381+575 - Five water bars located along slope not constructed to specification.



Photo 11: KP381+520 to 381+575 - Lack of rock lined feature (indicated by red arrows), straw wattles, sediment fences (indicated by red x's) and unapproved stockpiles (indicated in red circle).



Photo 12: KP381+575 - Unapproved discharge located behind unapproved stockpiles.



Photo 13: KP381+580 - Unapproved pumping from sump.

Date & Time: Thu, Nov 03, 2022, 12:34:46 PDT
Position: 10 N 377638 5997224 (±15.5ft)
Altitude: 2732ft (±11.2ft)
Datum: WGS-84
Azimuth: +138° +2453mils (±12°)
Elevation Angle: -24.7°
Horizon Angle: -53.5°
Zoom: 0.5X
CGL KP381 wep



Photo 14: KP381+600 - Culvert flume outlet lacking straw wattles.

Date & Time: Thu, Nov 03, 2022, 12:35:51 PDT
Position: 10 N 377627 5997236 (±15.5ft)
Altitude: 2734ft (±11.1ft)
Datum: WGS-84
Azimuth: +115° +2044mils (±12°)
Elevation Angle: -01.4°
Horizon Angle: -53.9°
Zoom: 1.0X
CGL KP381 wep




Photo 15: KP381+625 - Unapproved stockpile located on slope

The observations noted at the time of the inspection provide evidence of non-compliance with respect to the implementation of the WEP and EN2022-028.

Compliance Determination: Out - Referred to Administrative Penalty

Actions Required by Certificate Holder & Additional Comments

None at this time.	
Enforcement Summary	
<p>REQUIREMENT 4 HAS BEEN REFERRED TO A DECISION MAKER FOR CONSIDERATION OF AN ADMINISTRATIVE PENALTY.</p> <p>EAO CEB MAY INSPECT TO DETERMINE IF THE COASTAL GASLINK PROJECT HAS BEEN BROUGHT BACK INTO COMPLIANCE WITH THESE REQUIREMENTS. CONTINUED NON-COMPLIANCE WITH THESE REQUIREMENTS MAY RESULT IN ADDITIONAL ENFORCEMENT UNDER THE ENVIRONMENTAL ASSESSMENT ACT. SEE REGULATORY CONSIDERATIONS SECTION FOR ADDITIONAL INFORMATION.</p>	
Regulatory Considerations	
Requirement 1 has been referred to the BC Oil and Gas Commission, Compliance and Enforcement Branch.	
Inspection Conducted by	
 Shayla Frechette Senior Compliance & Enforcement Officer	<p>Date Preliminary Report Sent to Certificate Holder 2022-12-07</p> <p>Date Finalized 2023-01-10</p>
Appendices	
Appendix 1- CGL Environmental Assessment Certificate E14-03 Appendix 2- Schedule A Appendix 3- Schedule B Appendix 4- CGL Certificate E14-03 Amendment 1 Appendix 5 - Environmental Management Plan (Rev 5-Sept2021) Appendix 6 - 2022-07-14_CGL Compliance Agreement Appendix 7- WEP_KP163+960-164+670 Appendix 8- EN2022-028_Coastal GasLink_CGL WEP Order Appendix 9- WEP_KP_186+530-186+870 Appendix 10- WEP_KP 381+320 to 381+690	
Environmental Assessment Office - Compliance & Enforcement Branch	
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