

July 6th, 2026

File: PE - 110163

FortisBC Energy Inc.
16705 Fraser Highway
Surrey, B.C, V4N 0E8

Attn: Todd Lewis, Environment Manager-EGP

Dear Permittee,

Enclosed is newly issued amended waste discharge Permit PE 110163, issued under the provisions of the *Environmental Management Act*, for the discharge of effluent to the environment from the Eagle Mountain pipeline tunnel project. Your attention is respectfully directed to the conditions outlined in the Permit. A Permit fee will be determined according to the *Permit and Approval Fees and Charges Regulation*.

This Permit does not authorize entry upon, crossing over, or use for any purpose of private or Crown Lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority shall rest with the Permittee.

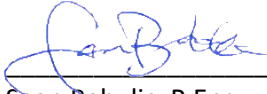
The Permittee shall ensure that any discharge under the Permit meet the requirements of other regulatory agencies including, but not restricted to Environment Canada and the Department of Fisheries and Oceans (Canada).

The administration of this Permit will be carried out by staff at the BC Energy Regulator, telephone (250) 794-5200. Plans, data and reports pertinent to the Permit are to be submitted to Environmental Stewardship, 6534 100th Ave, Fort St. John, B.C, V1J 8C5, Waste.Management@bc-er.ca.

This decision may be appealed by persons aggrieved by the decision in accordance with Part 8 of the *Environmental Management Act*. Notice of the appeal must:

- (1) be in writing,
- (2) include the grounds for appeal,
- (3) be directed by registered mail or personally delivered to the Chair, Environmental Appeal Board, Fourth Floor, 747 Fort Street, Victoria, British Columbia, V8W 3E9,
- (4) be delivered within 30 days from the date notice of the decision is given, and
- (5) be accompanied by a fee of \$25.00, payable to the Minister of Finance.

Should you have any questions, please do not hesitate to contact me.



Sean Babulic, P.Eng.
Manager, Environmental Support
BC Energy Regulator

Cc: **Environmental Protection Branch**
Manager, Compliance Promotion and Expert Support
201 - 401 Burrard Street
Vancouver, B.C.
V6C 3S5

British Columbia Energy Regulator

6534 100th Avenue, Fort St. John, B.C
V1J 8C5

PERMIT
PE-110163

Under Section 14 of the Environmental Management Act

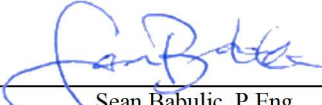
FortisBC Energy Inc.
16705 Fraser Highway
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is authorized to discharge effluent to the environment from the **Eagle Mountain Pipeline Tunnel** construction project subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

1. DEFINITIONS

For the purpose of this permit, the following definitions apply:

- 1.1. **Act** means the Environmental Management Act;
- 1.2. **BCER** means the British Columbia Energy Regulator;
- 1.3. **Discharge** means the total mass of a solid, liquid or gaseous material introduced into the environment;
- 1.4. **Manager** means a BCER employee authorized to exercise the powers of the BCER under Section 14 of the *Environmental Management Act*;
- 1.5. **Permittee** means FortisBC Energy Inc.
- 1.6. **Qualified Professional** a person who has training, experience and expertise in a discipline relevant to the area of practice set out in the condition, and who is registered with the appropriate professional organization in British Columbia, is acting under that organization's code of ethics and is subject to disciplinary action by that organization.



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Manager, Environmental Support

- 1.7. **Operational Phase Change** – refers to the transitions between distinct stages of tunnel construction that could result in quantifiable changes to the effluent quality (i.e. site and portal preparation, tunneling process, pipeline hydrostatic testing, and tunnel backfilling).

2. AUTHORIZED DISCHARGES

- 2.1 This subsection applies to the discharge of effluent from the **BC RAIL SITE**. The site reference number for this discharge is E331334.
- 2.1.1. The location of the source of the discharge is described as the BC Rail Site, PID 013-336-282, District Lot 4262. The source of the discharge includes contact water from precipitation, groundwater and water generated during the construction process including drilling, grouting and tunnel boring.
- 2.1.2. The authorized point of discharge into the existing BC Rail Properties Ltd. storm sewer is described as 49.7236 N, -123.1597W, referenced in this permit as the point of compliance.
- 2.1.3. The authorized point of discharge into the receiving environment is described as from the existing BC Rail Properties Ltd. storm sewer outfall located at 49.7261 N, -123.1646 W.
- 2.1.4. During heavy rainfall or melt events, the discharge input shall not cause the storm system to be overwhelmed, discharge rates shall be adjusted accordingly.
- 2.1.5. The maximum authorized rate of discharge is 515 m³/day.
- 2.1.6. The authorized discharge period is continuous.
- 2.1.7. The Permittee shall measure and record the daily volumetric rate of discharge.
- 2.1.8. The authorized works include a wastewater treatment system, tanks, pumps, hoses, energy dissipating equipment, sediment controls and ancillary equipment.
- 2.1.9. The effluent discharged from the wastewater treatment system at the point of compliance, shall not exceed the applicable British Columbia Approved and Working Water Quality Guidelines for Freshwater & Marine Aquatic Life, as published by the Ministry of Environment & Climate Change

Strategy. Additionally, the effluent shall be free of other contaminants in concentrations that may have an adverse effect on the receiving environment.

2.1.10. The effluent shall not be discharged in a manner or quantity that impairs the proper ecological function or otherwise causes excessive erosion of the receiving environment into which the discharge of water is conveyed.

2.2 This subsection applies to the discharge of effluent from pipeline hydrostatic testing at the **BC RAIL SITE**. The site reference number for this discharge is E331351.

2.2.1. The source of the discharge is non treated water obtained for the purposes of conducting the hydrostatic pipeline test.

2.2.2. The authorized point of discharge into the existing BC Rail Properties Ltd. storm sewer is described as 49.7236 N, -123.1597 W, referenced in this permit as the point of compliance.

2.2.3. The authorized point of discharge into the receiving environment is described as from the existing BC Rail Properties Ltd. storm sewer outfall located at 49.7261 N, -123.1646 W.

2.2.4. During heavy rainfall or melt events, the discharge input shall not cause the storm system to be overwhelmed, discharge rates shall be adjusted accordingly.

2.2.5. The maximum authorized volume of discharge is 2700 m³.

2.2.6. The authorized discharge period is continuous.

2.2.7. The Permittee shall measure and record the daily volumetric rate of discharge.

2.2.8. The authorized works include hydrostatic test equipment, wastewater treatment system, tanks, pumps, hoses, energy dissipating equipment, sediment controls and ancillary equipment.

2.2.9. The effluent discharged from the wastewater treatment system at the point of compliance, shall not exceed the applicable British Columbia Approved and Working Water Quality Guidelines for Freshwater & Marine Aquatic Life, as published by the Ministry of Environment & Climate Change Strategy. Additionally, the effluent shall be free of other contaminants in

concentrations that may have an adverse effect on the receiving environment.

2.2.10. The effluent shall not be discharged in a manner or quantity that impairs the proper ecological function or otherwise causes excessive erosion of the receiving environment into which the discharge of water is conveyed.

2.3 This section applies to the discharge of effluent from the **WOODFIBRE SITE**. The site reference number for this discharge is E331335.

2.3.1. The location of the source of the discharge is described as the Woodfibre Site, PID 015-791-611, District Lot 6237, DL1337 & DL6232. The source of the discharge includes contact water from precipitation, runoff, groundwater inflow within the bedrock tunnel and tunnel boring machine industrial water including water for drilling, probing and cleaning equipment, and precipitation and runoff from the potential acid generating rock temporary storage.

2.3.2. The authorized point of discharge is described as into East Creek, discharge outfall located at 49.6694 N, -123.2484 W.

2.3.3. The maximum authorized rate of discharge is 6,815 m³/day.

2.3.4. The authorized discharge period is continuous.

2.3.5. The Permittee shall measure and record the daily volumetric rate of discharge.

2.3.6. The authorized works include wastewater treatment system, tanks, pumps, hoses, energy dissipating equipment, sediment controls and ancillary equipment.

2.3.7. The effluent quality shall meet the following criteria at the point of discharge:

- Copper (Dissolved): Maximum 0.00366 mg/L

With the exception of dissolved copper, the effluent discharged from the wastewater treatment system shall not exceed the applicable British Columbia Approved and Working Water Quality Guidelines for Freshwater & Marine Aquatic Life, as published by the Ministry of Environment & Climate Change Strategy. Additionally, the effluent shall

be free of other contaminants in concentrations that may have an adverse effect on the receiving environment.

- 2.3.8. The effluent shall not be discharged in a manner or quantity that impairs the proper ecological function or otherwise causes excessive erosion of the receiving environment into which the discharge of water is conveyed.
- 2.3.9. The Permittee shall implement and maintain a management framework to monitor biological, hydrological and geomorphic conditions in East Creek for the purpose of ensuring compliance with Section 2.3.8.

3.0 GENERAL REQUIREMENTS

3.1 Maintenance of Works and Emergency Procedures

The Permittee shall inspect the authorized works regularly and maintain them in good working order. Records of inspection shall be maintained and made available to BCER upon request.

In the event of an emergency or condition beyond the control of the Permittee, which prevents continuing operation of the authorized works, the Permittee shall immediately notify the Manager and take appropriate remedial action.

Instances of permit non-compliance shall be self-disclosed upon discovery, as outlined within Chapter 3 of the BCER Compliance & Enforcement Manual; Waste.Management@bc-er.ca shall also be informed of the self-disclosure.

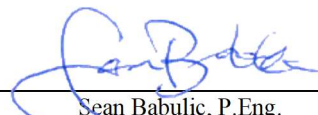
For spills which meet the Spill Reporting Regulation reporting criteria, a report shall be made immediately to the Provincial Emergency Program telephone 1-800-663-3456.

3.2 Bypasses

The discharge of contaminants, which have bypassed the authorized works, is prohibited unless the consent of the Manager is obtained and confirmed in writing.

3.3 Process Modifications

The Permittee shall notify the Manager prior to implementing changes to any process that may affect the quality and/or quantity of the discharge.



Sean Babulic, P.Eng.
Manager, Environmental Support

3.4 Sampling Procedures

The Permittee shall carry out sampling in accordance with the procedures described in the most recent edition of the “British Columbia Field Sampling Manual”. Alternative procedures shall be authorized by the Manager.

3.5 Analytical Procedures

The Permittee shall carry out analyses in accordance with the procedures described in the latest edition of the “British Columbia Laboratory Manual”. Alternative procedures shall be authorized by the Manager.

3.6 Post Discharge

The Permittee shall ensure that all temporary equipment associated with the discharge is removed from the work area in a manner as to minimize environmental impact.

3.7 Methods and Mitigations

The Permittee shall undertake all authorized works based on the methods and mitigations set out in the permit application, unless superseded by conditions in this permit.

4 SAMPLING, MONITORING AND REPORTING REQUIREMENTS

The Manager may alter the monitoring and reporting program as needed. The need for changes to the program shall be based upon the results submitted as well as any other information obtained by the BCER and Environmental Protection staff in connection with the discharges.

4.1 Discharge and Compliance Monitoring

4.1.1. The Permittee shall maintain information, analytical data and flow measurements as described in Section 2 for records and inspection by BCER.

4.1.2. The Permittee shall retain a qualified professional to implement and oversee the monitoring and sampling program. The monitoring and sampling program shall demonstrate the discharge quality meets the discharge quality defined in Section 2 and that increased flows to the receiving environment do not impact water quality or the receiving environment.

Table 1. B.C Rail Site Sampling and Monitoring Program

Description	Sampling Location*	Sampling Frequency*	Parameters*
<p>Batch Testing Prior to Discharge</p>	<p>At the point of discharge from the water treatment system</p>	<p>Once to confirm compliance with each operational phase change</p>	<ul style="list-style-type: none"> • In situ field parameters including turbidity, dissolved oxygen (mg/L), pH, temperature (°C), electrical conductivity (µS/cm), visible sheen (visual), oxidation reduction potential (ORP), salinity (ppt) • Routine parameters including pH, salinity, hardness, alkalinity, electrical conductivity (µS/cm), solids total dissolved (TDS), solids total suspended (TSS), turbidity, ORP • Major Ions including Br, Ca, Cl, F, Mg, K, Na, SO₄, sulphide (as unionized H₂S) • Nutrients including NH₃, NH₄, NO₂, NO₃, total nitrogen, total phosphorous, • Dissolved and Total Contaminated Sites Regulation (CSR) metals, • Glycols including ethylene glycol, propylene glycol, 1, 2- • Organics including EPH₍₁₀₋₁₉₎, Polycyclic Aromatic Hydrocarbons acenaphthene, acridine, anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene • Organics including Volatile Organic

			<p>Compounds, VPHs, benzene, ethylbenzene (C₈H₁₀), monochlorobenzene, styrene, toluene, xylene (C₆H₄(CH₃)₂)</p> <ul style="list-style-type: none"> Organics - Others phenols, total & dissolved organic carbon 	
Active Operations	Discharge	At the point of discharge from the water treatment system	Real Time	pH, temperature, NTU, electrical conductivity
			Daily	Visible sheen, DO, ORP, salinity
			Daily for one week following an operational phase change Weekly thereafter	<ul style="list-style-type: none"> Routine parameters Major Ions Nutrients Dissolved and Total CSR metals Glycols including ethylene glycol, propylene glycol, 1, 2- Organics including EPH₍₁₀₋₁₉₎, Polycyclic Aromatic Hydrocarbons acenaphthene, acridine, anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene Organics including Volatile Organic Compounds VPHs, benzene, ethylbenzene (C₈H₁₀), monochlorobenzene, styrene, toluene, xylene (C₆H₄(CH₃)₂) Organics – Others Phenols, total & dissolved organic carbon
			Every two weeks	Toxicity Testing 96-hr LC50 Rainbow Trout

	Receiving Environment Upstream of Discharge (49.726866N, -123.163912W)	Real Time	pH, temperature, NTU, electrical conductivity
		Daily	Visible sheen, DO, ORP, salinity
		Weekly	<ul style="list-style-type: none"> • Routine parameters
		As necessary based on the discharge & downstream data	<ul style="list-style-type: none"> • Routine parameters • Major Ions • Nutrients • Dissolved and Total CSR metals
	Receiving Environment Downstream of Discharge (49.725282N, -123.165175W)	Real Time	pH, temperature, NTU, electrical conductivity
		Daily	Visible sheen, DO, ORP, salinity
		Weekly	<ul style="list-style-type: none"> • Routine parameters • Major Ions • Nutrients • Dissolved and Total CSR metals

*The sampling frequency, parameters and locations may be revised or reduced upon a history of compliance and stabilization of parameters. Sampling frequency, parameters and locations may be revised or reduced upon written confirmation from the BCER. Upon monitored/measured exceedance the sampling frequency for the exceeding parameter(s) shall revert to the most stringent.

Table 2. Woodfibre Site Sampling and Monitoring Program

Description	Sampling Location*	Sampling Frequency*	Parameters*
Batch Testing Prior to Discharge	At the point of discharge from the water treatment system	Once to confirm compliance with each operational phase change	<ul style="list-style-type: none"> • In situ field parameters including turbidity, dissolved oxygen (mg/L), pH, temperature (°C), electrical conductivity (µS/cm), visible sheen (visual), oxidation reduction potential (ORP), salinity (ppt) • Routine parameters including pH, salinity, hardness, alkalinity, electrical conductivity (µS/cm), solids total dissolved (TDS), solids total suspended (TSS), turbidity, ORP • Major Ions including Br, Ca, Cl, F, Mg, K,

			<p>Na, SO₄, sulphide (as unionized H₂S)</p> <ul style="list-style-type: none"> • Nutrients including NH₃, NH₄, NO₂, NO₃, total nitrogen, total phosphorous, • Dissolved and Total Contaminated Sites Regulation (CRD) metals, • Glycols including ethylene glycol, propylene glycol, 1, 2- • Organics including EPH₍₁₀₋₁₉₎, Polycyclic Aromatic Hydrocarbons acenaphthene, acridine, anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene • Organics including Volatile Organic Compounds, VPHs, benzene, ethylbenzene (C₈H₁₀), monochlorobenzene, styrene, toluene, xylene (C₆H₄(CH₃)₂) • Organics – Others Phenols, total & dissolved organic carbon 	
Active Operations	Discharge	At the point of discharge from the water treatment system	Real Time	pH, temperature, NTU, electrical conductivity
			Daily	Visible sheen, DO, ORP, salinity
			Daily for one week following an operational phase change. Weekly thereafter	<ul style="list-style-type: none"> • Routine parameters • Major Ions • Nutrients • Dissolved and Total CSR metals

		<ul style="list-style-type: none"> • Glycols including ethylene glycol, propylene glycol, 1, 2- • Organics including EPH₍₁₀₋₁₉₎, Polycyclic Aromatic Hydrocarbons acenaphthene, acridine, anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene • Organics including Volatile Organic Compounds VPHs, benzene, ethylbenzene (C₈H₁₀), monochlorobenzene, styrene, toluene, xylene (C₆H₄(CH₃)₂) • Organics – Others phenols, total & dissolved organic carbon
	Every two weeks	Toxicity Testing <ul style="list-style-type: none"> • 96-hr LC50 Rainbow trout • 48-hr Daphnia magna
Receiving Environment Upstream of Discharge (49.669455°N, -123.250870°W)	Real Time	pH, temperature, NTU, electrical conductivity
	Daily	Visible sheen, DO, ORP, salinity
	Weekly	<ul style="list-style-type: none"> • Routine parameters
	As necessary based on the discharge & downstream data	<ul style="list-style-type: none"> • Routine parameters • Major Ions • Nutrients • Dissolved and Total CSR metals
Receiving Environment Downstream of Discharge (49.668300°N, -123.247958°W)	Real Time	pH, temperature, NTU, electrical conductivity
	Daily	Visible sheen, DO, ORP, salinity

		Weekly	<ul style="list-style-type: none"> • Routine parameters • Major Ions • Nutrients • Dissolved and Total CSR metals
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* The sampling frequency, parameters and locations may be revised or reduced upon a history of compliance and stabilization of parameters. Sampling frequency, parameters and locations may be revised or reduced upon written confirmation from the BCER. Upon monitored/measured exceedance the sampling frequency for the exceeding parameter(s) shall revert to the most stringent.

Table 3. Hydrostatic Test Discharge Monitoring Program BC Rail Site

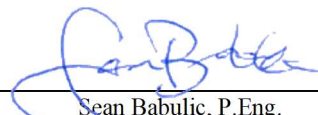
Description	Sampling Location	Frequency	Parameters
Active Discharge Operations	Point of Discharge from the Water Treatment System	Daily	In situ field parameters
	Receiving Environment Downstream of Discharge (49.725282N, -123.165175W)	Daily	In situ field parameters

- 4.1.3. The Permittee shall provide notification to the BCER, Waste.Management@bc-er.ca, at the start of the commissioning phase of the water treatment plant. Process flow as-builts of the water treatment plant shall be submitted to the BCER at the same email address.
- 4.1.4. Discharge to the receiving environment shall be halted immediately upon observed exceedance of any parameter at the point of discharge from the water treatment system.
- 4.1.5. The Permittee shall track the status of the daily discharge, including discharge rates, monitoring logs, field and lab sample results, field notes, field meter calibration logs, reports & photos. Daily records shall be compiled.
- 4.1.6. If, in the opinion of the qualified professional responsible for the monitoring program, the discharge is or is likely causing adverse effects to the environment, the discharge shall be halted immediately.
- 4.1.7. If, in the opinion of the qualified professional responsible for the monitoring program, the discharge is or is likely causing adverse effect to the environment, the Manager shall be notified immediately at (250) 883-4958.
- 4.1.8. Photographs of the authorized works and authorized discharge shall be taken prior to, throughout and after the discharge. These shall be submitted upon request from the BCER and included as part of the weekly reporting.

4.2 Reporting

The Permittee shall summarize the results of the discharge and receiving environment compliance sampling and monitoring program in a report that shall be submitted weekly over the term of this permit. The sampling and monitoring results shall be suitably tabulated and include comparison to the respective British Columbia Approved and Working Water Quality Guidelines for Freshwater & Marine Aquatic Life, as published by the Ministry of Environment & Climate Change Strategy. Any exceedance of regulatory guidelines shall be clearly highlighted, and any missed sampling events/missing data shall be identified with an explanation provided. Reporting frequency may be reduced upon a history of compliance and by written confirmation from the BCER. These reports shall be submitted to Waste.Management@bc-er.ca. A copy of the reports shall be provided to each First Nation consulted with regarding the subject permit and also made publicly available on the [FortisBC Eagle Mountain-Woodfibre Gas Pipeline Project | Talking Energy](#) webpage.

Within 90 days of completing construction, or as requested by the BCER, the Permittee shall submit a final cumulative discharge impact report to the BCER. The report shall be prepared by a Qualified Professional and shall summarize the cumulative volume, quality, duration, and frequency of all discharges authorized under this permit. The report shall include an assessment of cumulative effects to the receiving environment, including consideration of upstream and downstream monitoring results, observed trends, exceedances, non-compliances, shutdowns, corrective actions, and any changes to water quality, hydrology, geomorphology, or biological conditions attributable to the discharge. The report shall identify whether the cumulative discharge caused or contributed to adverse effects to the receiving environment and shall include recommendations for additional mitigation or post-discharge monitoring, where warranted. The report shall be submitted to Waste.Management@bc-er.ca, provided to each First Nation consulted with regarding the subject permit, and made publicly available on the [FortisBC Eagle Mountain-Woodfibre Gas Pipeline Project | Talking Energy](#) webpage.



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