

Ministry of Environment

Approval Application or Notification for Changes In and About a Stream

Under Section 9 of the *Water Act* and Part 7 of the *Water Act Regulations*

*Incomplete or inaccurate forms do not constitute **Notification** & will not be accepted.*

Proceeding with works after submission of an incomplete or inaccurate form would be a violation of the Water Regulation

☒ **APPROVAL APPLICATION**

☐ **NOTIFICATION¹ (see USERS' GUIDE)**

1. Applicant Information (also complete sections 6 and 7)

Name: Spectra Energy Transmission		
Address: 3885 – 22 nd Ave.		
City: Prince George	Province: B.C.	Postal code: V2N 5N9
Phone: 250-960-2034	e-mail: dtisseur@spectraenergy.com	

2. Location of Works

Street Address of Works (or nearest town): ~20 km north of Quesnel, B.C.		
Stream Name: Cottonwood River	Flows Into: Fraser River	
Location on Stream: Pipeline Right-of-Way Crossing approx. 7.4 km upstream of the confluence with the Fraser River		
Reference Landmarks: 3.1 km west of Cottonwood River bridge on Quesnel-Hixon Road	Amount of disturbance in m ² : 5000-7000	
Multiple Sites: YES / NO: No	Number of sites: 1	
Latitude: 53° 09' 35.3" N	Longitude: 122° 31' 26.72" W	Elevation: 518 m
Legal description of property where work is proposed: RoW over district lots 8599 and 8600, Cariboo Regional District		

3. Drawing, Plan and Site Map

1. Attach drawing showing lot boundaries, location of buildings and of proposed works, stream direction and flow.
2. Attach a key map at an appropriate scale showing the location of the site.
3. Attach engineering drawings (may be required for works identified with ^E under **Requires Approval** section below).

4. Proposed Timing for Work

Start (day/month/year): 31-01-2012	Finish (day/month/year): 30-4-2012
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FOR OFFICE USE ONLY

Date Received:	Water File Number:
	Client Number:
	Application Number:
	Amount Received:
	Receipt Number:

5. Type of Works

Requires Approval:

- ☐ Bank Erosion Protection ^E
- ☐ Bridge Installation/maintenance/removal (other than clear span) ^E
- ☐ Stream Diversion ^{QP} Diversion berm structure plan required
- ☐ Large Debris Removal – by machine ^{QP} plan required
- ☐ Gravel Removal ^{QP}
- ☒ Other: Provide details in space below

*Provide culvert dimensions:

Length:

Width:

Diameter:

^E Professional Engineer may be required
^{QP} Qualified Professional may be required

Requires Notification:

- ☐ Installation*/maintenance/removal of road crossing **culvert** (*follow Forest Practices Code Stream Crossing Guidebook)
- ☐ Construction/maintenance/removal of a **clear span bridge**
- ☒ Construction/maintenance of a **pipeline crossing**
- ☐ Construction/maintenance/removal of a **pier or wharf**
- ☐ Cutting of **annual vegetation** in a stream channel
- ☐ Repair/maintenance of existing **dike or erosion protection works**
- ☐ Construction/maintenance of **storm water outfalls**
- ☐ Control of **Eurasian Watermilfoil** or other **aquatic vegetation**
- ☐ Construction/maintenance of **ice bridge, winter ford or snowfall**
- ☐ Maintenance of minor and routine nature by a public utility
- ☐ Removal of a **beaver dam** (As authorized under the Wildlife Act)
- ☐ Small debris removal – by hand
- ☐ Construction of a **temporary ford**
- ☒ Construction of a **temporary diversion** around a worksite

The following require Notification and may only be undertaken by the Crown in right of either Canada or British Columbia, or their Agents:

Federal/Provincial

- ☐ Construction/maintenance/removal of a flow or water level **measuring device**
- ☐ Construction/removal of a **fish fence** or **screen, fish or game guard**
- ☐ Restoration/maintenance of **fish habitat**

The following require Notification and may only be undertaken by the Crown in right of either British Columbia, or a Municipality, or their Agents:

Provincial/Municipal

- ☐ Restoration/maintenance of a **stream channel**
- ☐ Clearing of an obstruction from a bridge or culvert during a flood emergency¹
- ☐ Construction or placement of **erosion protection works or flood protection** works during a flood emergency²

¹ Some activities fitting the description for Notification may be reviewed by Ministry/Agency staff, who may decide that an Approval is required.

² Must be completed under direction of the Crown. No notification is required prior to undertaking works, but a description of changes must be submitted to a habitat officer within 72 hours of the change.

^{QP} QP means a professional who through suitable education, experience, accreditation and knowledge may be reasonably relied on to provide advice within their area of expertise.

Detailed Description of Work to be Performed (continue on next page):

Total area disturbed by proposed works (all sites): 5000-7000 m²

Spectra's 30-inch natural gas pipeline has been exposed in the Cottonwood River. Repair activities are required at this location prior to freshet 2012 (Type 2 emergency), as flow conditions during freshet will place the pipeline at an unacceptable level of risk. In the interest of public, environmental and corporate safety, the pipeline must be adequately protected.

In order to provide this protection, Spectra proposes to bury a new section of pipeline under the Cottonwood River, and tie this section into the existing mainline. The method of least environmental risk for this process is outlined in the following steps, and represented graphically in the attached "General Construction Order" document.

1. Delineate workspace and clear required vegetation (including riparian area).
2. Install river diversion structures to force flows into a channel constructed on the south side of the active river channel.
3. Excavate to suitable depth a pathway for a casing pipe to a midway point within the river channel on the dewatered north

side.

4. Restore substrates and flow overtop of the previously excavated area, and excavate the south side to uncover the end of the casing pipe and construct trench for pipe burial.
5. Pull prepared pipeline through casing pipe and install in excavated area within the south half of the channel.
6. Tie in to existing pipeline and restore cover and channel form throughout the wetted channel
7. Complete site restoration and stabilization

Additional details on the proposed methodology, as well as details of the proposed mitigation are included in the attached Proponent Action Plan. Given that construction MUST occur prior to freshet 2012 (for the purposes of this project, considered to be March 15th based on historical flow patterns analyzed by BC Rivers Consulting), it was imperative to submit this application ahead of all plans being finalized. Although our best estimates were incorporated into the Proponent Action Plan at the time of preparation, further refinements are likely to occur as project planning progresses. That said, our estimates of disturbance footprint are believed to be conservative and refinements are likely to decrease estimated disturbance footprint areas.

In addition to the mitigative measures presented in the PAP, this effort will be completed as per the guidelines established in the following documents:

Standards and Best Practices for Instream Works (MWLAP 2004)

Pipeline Associated Watercourse Crossings 3rd ed (CAPP, CEPA and CGA 2005)

Spectra Energy Environmental Manual for Construction Projects 2nd ed. (2010)

6. Land Ownership

Please check one of the following:

- ☐ The applicant is the owner of the property.
- ☐ The property is Crown land. Tenure/licence number:

☒ The property is owned by the following Landowner (i.e. Landowner is different from

Right-of-Way over DL 8600 & 8599, Cariboo District

Landowner's Name: Don Lund

Address: 1350 Tertiary Road

City: Quesnel

Phone: 250-998-4703

Province: B.C.

Postal code: V0K 1S1

Do you have the Landowner's written approval to enter the land(s) to complete the works? ☒ Yes

e-mail: dlund@uniserve.com

7. Who is doing the Work?

Contact information for company designing and supervising construction of the work (if different from applicant):

Company Name:

Contact Name:

Address:

Professional Affiliation:

City:

Phone:

Province:

Postal Code:

Contact information for company undertaking the construction (if different from applicant):

e-mail:

Company Name:

Contact Name:

Address:

City:

Phone:

Province:

Postal
Code:

8. Statement of Intent

By submitting this application form, I declare that the information contained on this form is complete and accurate information. I have read, understood and will meet the requirements to construct works and changes in and about a stream in accordance with Section 9 of the *Water Act* and Part 7 Water Act Regulations including, for Notifications, Terms and Conditions as specified by a Habitat Officer of the Ministry of Environment.

With respect to a Notification, in accordance with Part 7 of the Water Regulation, Section 40(1), I declare that I have submitted my application 45 days prior to the commencement of any work by me, or anyone employed by me. I understand that I will be receiving a confirmation of receipt of the application by Ministry of Environment (including confirmation of the applicable dates for the 45 day period) and that, unless I receive a response from a Habitat Officer within this 45 day notification period, I understand that I should not commence any activities until the 45 day notification period has passed. I understand that it is an offence under the Water Act to make changes in and about a stream without authority.



On behalf of Dan Tisseur,

Signed: Spectra Energy

Application Date: 30/11/2011
day/month/year

9. Submission Instructions

Send the completed form along with the following attachments to the local office in which the proposed works are located. Addresses for local offices are listed on the instruction sheet.

Please note that if you are providing a Notification, no fees are required. However, a fee of \$130.00 is required if you are submitting an application for an Approval. The \$130.00 Approval application fee is not refundable. Payment for the Approval fee may be made at FrontCounter BC offices with a credit card.

If the proposed works require an Approval, prior to proceeding further with this application please ensure that this project will be able to proceed under the Federal *Fisheries Act*.

Required Attachments for both Notifications and Approvals:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Sketch plan (mandatory) | <input type="checkbox"/> Engineering drawing (mandatory for works requiring approval noted with ^E) |
| <input checked="" type="checkbox"/> Key location map (mandatory) | <input type="checkbox"/> For works requiring an Approval only , a cheque, money order or deposit by credit card for \$130 payable to: Minister of Finance. The fee is non-refundable. No fee is required for a Notification. |

10. Responsibilities

You are required to comply with all applicable federal, provincial and municipal laws and regulations. If you anticipate that the planned work may result in harmful alteration, disruption or destruction of fish habitat you should send a copy of your completed Notification/Approval Application directly to the nearest office of Fisheries and Oceans Canada. Review and comment by DFO may necessitate changes to the proposed works.

Has a copy of this notification/approval application been sent to Fisheries and Oceans Canada (check one)?
YES ☒ NO ☐

If YES, indicate the DFO office that the notification/approval application has been sent (for DFO offices, see Users' Guide):

Prince George _____