



Wildfire on the Woodfibre LNG Property: July 20th 2021 – 90d Report

1. Introduction

A wildfire occurred on the existing brownfield Woodfibre site formerly the Skwxwú7mesh Úxwumixw (Squamish Nation) village known as Swiýát on July 20, 2021. Pursuant to the Federal environmental assessment approval and Federal Decision Statement (FDS), as amended March 7, 2018, Woodfibre LNG Limited (Woodfibre LNG) is providing this report consistent with the reporting requirements of condition 11.4.4 of the FDS. The report is structured consistent with conditions.

The Woodfibre LNG Project is not currently under construction, however, as a brownfield site a number of activities are ongoing e.g., power generation, compliance with applicable permits and approvals and site maintenance. Further, the site is crossed by utilities infrastructure e.g., gas lines operated by FortisBC and power transmission systems operated by BC Hydro. A preliminary report was filed on August 18th, 2021; this report is to be read in addition to the preliminary report prepared pursuant to condition 11.4.3 of the FDS.

2. Changes to Avoid Subsequent Occurrence of Wildfire

In response to the wildfire, Woodfibre LNG is advancing two activities;

1. Working with an external qualified professional to conduct a fuel hazard assessment based on the Guide to Fuel Hazard Assessment and Abatement in British Columbia (BC Wildfire Management Branch, 2012); and
2. Woodfibre LNG will inspect Woodfibre LNG-owned high voltage power lines and poles.

Implementation of changes, if any, will be subject to the outcome of these two activities.

3. Mitigation measures relating to Residual Adverse Environmental Effects

Woodfibre LNG contracted a Qualified Professional to conduct an assessment of the area disturbed by the fire. Their inspection was conducted on August 31, 2021 and their report is included in Attachment 1. Key findings from their report include;

- The fire response conducted by the BC Wildfire Service and BC Hydro included earthworks, vegetation removal and soil disturbance in the vicinity of a tributary to Mill Creek;
- Approximately 8 m of an ephemeral non-fish bearing tributary to Mill Creek was infilled; and
- Subject to discussions and agreement with BC Hydro remedial actions are recommended to prevent erosion and sediment mobilisation e.g., channel stabilisation, placing of angular rock, installation of erosion prevention and sediment control measures and soil stabilisation.

The fire occurred within a BC Hydro right of way, underneath high voltage power lines and as such Woodfibre LNG will support BC Hydro in the completion of remedial actions undertaken by BC Hydro.

Attachments

1. 211018 WLNG Wildfire Response Assessment and Recommendations



October 18, 2021

Mr. Nigel Fisher
Senior Regulatory Manager
Woodfibre LNG Limited

Dear Mr. Fisher:

**Re: Wildfire Response Assessment and Recommendations
Squamish, BC
Project No. 16276**

On August 31, 2021, Keystone Environmental completed a visual assessment of the location of a wildfire that occurred within the BC Hydro Right of Way, adjacent to the Woodfibre LNG property in Squamish, BC. The wildfire occurrence and response took place in July 2021. The perimeter of the area disturbed by the wildfire was mapped using GPS (see attached **Figure 1**) and lies outside of the Woodfibre LNG certified project area. As part of the wildfire response, it appears that a small section of watercourse was infilled (see attached **Figure 1** and **Photograph 1**). The location of the infilled watercourse was mapped using GPS and the watercourse alignment was mapped using Lidar.

The infilled watercourse has been confirmed as an ephemeral tributary of watercourse M3, a non-fish-bearing tributary of Mill Creek. An approximate 8 m section of channel was infilled to provide access to fire response crews to extinguish the wildfire immediately east of the creek. The fire fighting efforts included significant earthworks, vegetation removal, and soil disturbance (see attached **Photograph 2**) in the vicinity of the tributary up to the immediate channel banks.

The work to respond to the wildfire appears to have been completed pursuant to respective provisions of provincial legislation that allow for emergency measures e.g., water extraction for fire fighting and establishment of access. As the activities were completed by the BC Wildfire Service and BC Hydro and predominantly within the BC Hydro Right-of-Way, any recommendations and responsibility for implementation must be completed in discussion and agreement with BC Hydro. Recommendations include:

1. Following applicable legislation, and subject to review by a Qualified Environmental Professional (QEP), an approximate 8 m section of a non-fish bearing, ephemeral tributary of Mill Creek which was infilled will require restoration to prevent erosion and sediment mobilization to downstream areas and downstream impacts. It is understood that the prior location was used as an "open ford crossing," and that re-establishment of a ford crossing is desired. A design which includes armoured approach aprons at the banks and armoured

channel invert is recommended. Angular rock of 3" to 8" size class or similar may be utilized so long as it is clean and free of sediment or as determined by a QEP.

2. Re-grade/finish grade disturbed soils to re-establish the pre-disturbance ground profile. Leave soils "rough and loose" to promote seed germination and infiltration. Spread native topsoil, organic matter, and logs over mineral soils (where present) to promote infiltration and seed germination
3. Install erosion prevention and sediment control measures such as 8" straw wattles along the stream banks to prevent sediment transport to the tributary and downslope watercourses. Wattles must be staked in place as per the manufacturer's specifications. Additional wattles should be laid along the lower slope contour and at the mid slope contour within the disturbed area.
4. Stabilize soils with a "coastal reclamation grass seed mix" or equivalent at a rate of 56-112 kg per hectare. A late fall seed mix coupled with application of straw mulch applied at a rate of one bale per 75 m² is recommended. Alternatively, the area can be hydroseeded with a bonded fibre matrix (BFM) hydroseed utilizing a "fall mix" reclamation grass seed.

It is recommended that instream works be monitored full time by a QEP, with QEP oversight for the site stabilization measures described above.

LIMITATIONS

Findings presented in this report are based upon (i) reviews of available documentation, (ii) observations of the project area and surrounding lands. The conclusions and recommendations documented in this report have been prepared in a manner consistent with that level of care and skill normally exercised by other members of the environmental science profession, practicing under similar circumstances in the area at the time of the performance of the work.

This report has been prepared solely for the internal use of Woodfibre LNG Limited pursuant to the agreement between Keystone Environmental Ltd. and Woodfibre LNG Limited. By using this report Woodfibre LNG agrees that they will review and use the report in its entirety. Any use which other parties make of this report, or any reliance on or decisions made based on it, are the responsibility of such parties. Keystone Environmental Ltd. accepts no responsibility for damages, if any, suffered by other parties as a result of decisions made or actions based on this report.

Keystone Environmental Ltd. would like to thank Woodfibre LNG for this opportunity and trust the information in this report is sufficient for their current needs.

Yours truly,

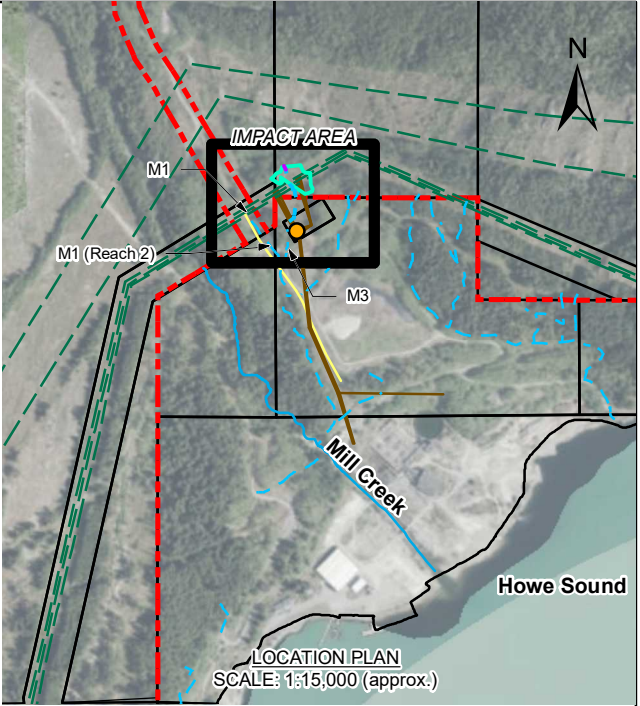
Keystone Environmental Ltd.

ATTACHMENTS:

- Appendix A: Figure
- Appendix B: Photographs

APPENDIX A

FIGURE



Legend

- CERTIFIED PROJECT AREA
- PARCEL BOUNDARY
- BC HYDRO SUBSTATIONS
- BC HYDRO TRANSMISSION LINE
- EXISTING HV TRANSMISSION LINES
- EXISTING LV TRANSMISSION LINES
- NON FISH BEARING
- PERMANENT FISH BEARING
- APPROXIMATE IMPACTED AREA OF WATERCOURSE
- APPROXIMATE WILDFIRE DISTURBED AREA

NOTES:

1. THIS DRAWING IS FOR GENERAL INFORMATION ONLY.
LOT BOUNDARIES AND FEATURES ARE APPROXIMATE.

2. DATA COURTESY OF CANVEC - GEOGRATIS, GOVERNMENT OF BRITISH COLUMBIA, AMEC

3. DATE OF AERIAL PHOTO IS 2019.

SCALE: 1:1,000 (approx.)

Woodfibre Squamish, B C Woodfibre LNG Limited		
REVISION No.	DATE	PROJECT No.
00	Sep. 2021	15748-100

Figure 1

July 2021 Approximate Wildfire Location

APPENDIX B

PHOTOGRAPHS



Photograph 1: View of small section of watercourse that was infilled as part of wildfire response (indicated by orange arrow).



Photograph 2: View of disturbed area due to wildfire response within BC Hydro Right-of-Way.