

Technical Reports

BC Coastal Forest Sector Hem-Fir Initiative

PROGRAM: Bioenergy and Biorefinery Program

PROJECT #: B.01

PROJECT TITLE: The Need to Mitigate in the Presence of Sodium Chloride in Coastal Biomass

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Abstract

The presence of chlorine in biomass poses a challenge to companies contemplating biomass-to-energy projects, and in particular to those operating on the BC coast where transporting and storing logs in saltwater is common. The primary concern is corrosion of equipment exposed to process streams containing chlorine, but chlorine can also act as a poison to catalysts used for conversion of biomass to liquid fuels and contributes to emissions of dioxins and other regulated chemical compounds in gaseous, liquid and solid effluents from plants. This report constitutes a short review of both public and internal documents available to FPIinnovations on the topic of chloride in sea-floated logs and the removal of chloride from wood and bark.

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