



# Air Quality Briefing Note

**Date:** November 2019

**Issued by:** Prince George Refinery

**Agency:** Tidewater Midstream and Infrastructure Ltd.



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## Description

Each member of PGAIR is requested to provide an annual update on implementation activities related to the 5-Year Strategic Plan. Tidewater Midstream and Infrastructure Ltd. activities (existing and planned) pertaining to the Prince George Refinery are provided below.

### 2016 - 2021 PM 2.5 Goal

- Strive towards meeting long-term annual fine particulate matter (PM<sub>2.5</sub>) targets of 8 ug/m<sup>3</sup> (BC's Annual Air Quality Objective) and 5 ug/m<sup>3</sup>.

## Questions

### What have you done in the last 12 months?

- The refinery executed a planned turnaround in the spring of 2019, where the refinery was shut down to allow inspections, maintenance and cleaning to occur. These activities will ensure ongoing efficient operation of the refinery. The turnaround provided an opportunity to complete several small projects to improve refinery reliability and efficiency. Additionally, contractor vehicles were restricted on site during the turnaround, with many using bicycles as a means of transport, helping to reduce road dust. During the turnaround new catalyst was loaded in one unit that will allow the future development of a renewable co-processing opportunity.
- Refinery road dust control measures include applying a calcium chloride solution which retains moisture for prolonged periods. Calcium chloride helps to hold down dust on unpaved roads.
- Completion and implementation of a project to add renewable biodiesel into fuel sold by the refinery. This renewable fuel is called FAME and is blended into fuels sold at the refinery to reduce the carbon intensity in transportation fuels used across BC. Combined with the existing renewable ethanol blending in gasoline, this led to the avoidance of the use of 43 million litres of non-renewable fuels in one year.
- Participated in the CleanBC Program for Industry to aid the Ministry of Environment and Climate Change in developing best in class benchmarks as a goal for industrial operators. This program aims to reduce greenhouse gas emissions from industry to world leading benchmarks levels.

**What is your long-term plan to meet the 2016 -2021 goal?**

- Further participation in the CleanBC Program for Industry to work with the Ministry of Environment and Climate Change to complete projects with the primary purpose of reducing greenhouse gas emissions.
- Increase the volume of renewable content in fuels sold by the refinery through co-processing. This planned initiative will involve the use of renewable feedstock at the refinery, which in addition to the existing renewable ethanol and biodiesel blending, will significantly reduce greenhouse gas emissions related to the consumption of fuels produced by the refinery by reducing the carbon intensity of these fuels.

**Please indicate your self-assessed progress during the past 12 months:**

Low

Medium

High