

Summary of Metro Vancouver Air Quality Permit Amendment (GVA0117) issued to Parkland Refining (B.C.) Ltd. on March 15, 2018

Please refer to the signed permit for full details of the permit amendment. This summary is meant to highlight the key amendments. A signed copy of Permit GVA0117 is available at www.metrovancouver.org and can be found using the “Doing Business” tab.

The permit amendment includes:

- Emissions Reductions,
- Data Collection,
- Dispersion Modeling,
- Emission Control Technology Assessment,
- A Permit Expiry

Emission Reductions

- New definition of a SO_x Curtailment Event that lowers action threshold from 0.19 ppm over 10 minutes to either 0.19 over 10 minutes or 0.07 ppm one-hour average.
- Restrictions applied for non-standard operations that were previously unlimited.

Data Collection

- Requirement to install on-site meteorological station - Completed
- Requirement to conduct off-site ambient monitoring of SO₂, PM and possibly NO_x, depending on the results of dispersion modelling.
 - Ambient AQ Monitoring Plan - due June 29, 2018.
 - Ambient Monitoring Station to be installed & operational by December 31, 2018.

Dispersion Modelling

- First round of modelling includes one-hour & annual SO₂, 24-hour and annual PM and one-hour and annual NO₂ - due May 31, 2018.
- Second round of modelling will include one year of data from the on-site meteorological station – due January 31, 2020.
- Modelling will be used for the emission control technology assessment.
- Modelling scenarios will include permitted levels, upset events and non-standard operating conditions, such as when boilers are fired using fuel oil.

Emission Control Technology Assessment

- Technology Scoping Plan: outlines methodologies for assessing potential control technologies - due July 31, 2018.
- Technology Scoping Report: preliminary evaluation of possible options for Refined Technology Assessment - due December 31, 2018.
- Interim Solutions Plan: plan describing measures that Parkland will take to reduce emissions until a permanent technology solution is implemented - due December 1, 2018.
- Refined Technology Assessment Plan: engineering assessment of top-ranked technologies and dispersion modelling - due May 15, 2019.
- Refined Technology Assessment Report: identify preferred emission control technology & implementation schedule - due January 31, 2020.

Permit Term

- Permit expires on January 31, 2021.
- Parkland will need to apply for a new permit
 - studies conclude on January 31, 2020
 - permit term provides 1 year for the permit application process.
- Permit application will be subject to Public Notification Regulation requirements.