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O. Reg. 88/22: Air Pollution – Discharge of Sulphur Dioxide from Petroleum Facilities

Petro-Canada Lubricants Inc., O. Reg. 88/22 s.35(1) Public Report for 2025

March 27, 2026

This annual report has been prepared in accordance with subsection 35(1) of Ontario Regulation 88/22 and provides the information required for the calendar year 2025 for Petro-Canada Lubricants Inc. (PCLI). This report is being made public in accordance with subsection 41(1) paragraph 2 of O. Reg. 88/22.

A description of the information to be reported under subsection 35(1), along with its applicability to Petro-Canada Lubricants Inc. (PCLI) is listed in Table 1.

Table 1: Applicability of subsection 35(1)

Paragraph	Information to be Reported	Applicability
1.i. and 2.i	The average, maximum and minimum hourly mass emission rate and the total amount, in kilograms, of sulphur dioxide discharged into the air from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22 (1) during the calendar year	Applicable to PCLI
1.ii. and 2.ii	The average, maximum and minimum hourly mass emission rate and the total amount, in kilograms, of total reduced sulphur discharged into the air from each sulphur recovery unit at the petroleum facility that is not associated with an incinerator during the calendar year	Not applicable to PCLI
3	The total amount of sulphur dioxide, in tonnes, discharged from the facility during the calendar year as required to be calculated under clause 26 (2) (b) in respect of the fourth quarter of the calendar year, if applicable.	Applicable to PCLI
4	A summary of the information in any reports submitted under section 32 during the calendar year	Section 32 is not yet applicable
5	An assessment of the effectiveness of any measures identified under subparagraph 6 iii of section 32 that were implemented during the calendar year	Section 32 is not yet applicable
6	Any actions taken during the calendar year to minimize, prevent or reduce the discharge of sulphur dioxide from the facility, including any actions identified in the plan required under section 36	Applicable to PCLI

Hourly Mass Emission Rates

The average, maximum and minimum hourly mass emission rate of sulphur dioxide from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22 (1) for the calendar year 2025 are provided in Table 2.

Table 2: Mass emission rates of sulphur dioxide discharged to air

Equipment	Hourly Emission Rate (kg/hr)		
	Average	Minimum	Maximum
17 South	28.47	0.02	834.48
30 North	20.14	0.39	121.42
07 Heaters	0.38	0.00	6.31
98 Flares	11.95	0.00	516.55

Total Mass Discharge

The total amounts, in kilograms, of sulphur dioxide discharged into the air from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22 (1) for the calendar year 2025 are provided in Table 3.

Table 3: Total mass discharge of sulphur dioxide

Equipment	Mass (kg)
17 South	249,379
30 North	175,837
07 Heaters	3,319
98 Flares	104,679
Total	533,215

Total Mass Discharge from Facility Per Section 35(1), Paragraph 3

533.2 tonnes of sulphur dioxide was discharged from the facility in calendar year 2025.

Information to be Reported Per Section 35(1), Paragraphs 4 and 5

PCLI has not prepared a Root Cause Analysis and Corrective/Preventative Action Report under section 32, which is not yet applicable; therefore, no information is provided pursuant to section 35(1) paragraphs 4 and 5.

Information to be Reported Per Section 35(1), Paragraph 6

The key action undertaken to reduce sulphur dioxide emissions was to switch fuels from No6 Fuel oil at up to 1.75 wt% Sulphur to VLSFO at 0.5 wt%. Transition of the tank was completed, reducing our tank's fuel oil sulphur content to 0.48 wt% in December 2025. This represents a reduction of approximately 280 tonnes of sulphur dioxide emissions had 1.75 wt% Sulphur Fuel Oil been used instead.