



O. Reg. 530/18: Air Pollution – Discharge of Sulphur Dioxide from Petroleum Facilities Before 2029

Sulphur Dioxide Discharged on June 28, 2023

Nanticoke Refinery, Imperial Oil

August 24, 2023

Introduction

This report is being made pursuant to subsection 6(4) of O. Reg 530/18, and provides a public posting of the amount of sulphur dioxide (SO₂) discharged from acid gas combustion equipment when the sulphur recovery unit failed to operate in a normal manner.

The table below provides the hourly SO₂ discharged on June 28, 2023 and the rolling preceding 24 hour sum of SO₂ discharged.

Hour Start	Hour End	SO ₂ discharged (kg/ hr)	Rolling preceding 24 hr sum of SO ₂ discharged (kg)
Jun 28 05:00	Jun 28 06:00	456	456
Jun 28 06:00	Jun 28 07:00	1,886	2,342
Jun 28 07:00	Jun 28 08:00	3,361	5,704
Jun 28 08:00	Jun 28 09:00	5,272	10,975
Jun 28 09:00	Jun 28 10:00	5,787	16,763
Jun 28 10:00	Jun 28 11:00	5,852	22,615
Jun 28 11:00	Jun 28 12:00	5,839	28,454
Jun 28 12:00	Jun 28 13:00	5,619	34,074
Jun 28 13:00	Jun 28 14:00	3,879	37,953
Jun 28 14:00	Jun 28 15:00	2,331	40,284
Jun 28 15:00	Jun 28 16:00	324	40,608
Jun 28 16:00	Jun 28 17:00	0	40,608
Jun 28 17:00	Jun 28 18:00	0	40,608
Jun 28 18:00	Jun 28 19:00	0	40,608
Jun 28 19:00	Jun 28 20:00	0	40,608
Jun 28 20:00	Jun 28 21:00	0	40,608
Jun 28 21:00	Jun 28 22:00	0	40,608
Jun 28 22:00	Jun 28 23:00	0	40,608
Jun 28 23:00	Jun 29 00:00	0	40,608
Jun 29 00:00	Jun 29 01:00	0	40,608
Jun 29 01:00	Jun 29 02:00	0	40,608
Jun 29 02:00	Jun 29 03:00	0	40,608
Jun 29 03:00	Jun 29 04:00	0	40,608
Jun 29 04:00	Jun 29 05:00	0	40,608
Jun 29 05:00	Jun 29 06:00	0	40,152
Jun 29 06:00	Jun 29 07:00	0	38,266
Jun 29 07:00	Jun 29 08:00	0	34,905
Jun 29 08:00	Jun 29 09:00	0	29,633
Jun 29 09:00	Jun 29 10:00	0	23,846
Jun 29 10:00	Jun 29 11:00	0	17,993
Jun 29 11:00	Jun 29 12:00	0	12,154
Jun 29 12:00	Jun 29 13:00	0	6,535

Hour Start	Hour End	SO₂ discharged (kg/ hr)	Rolling preceding 24 hr sum of SO₂ discharged (kg)
Jun 29 13:00	Jun 29 14:00	0	2,656
Jun 29 14:00	Jun 29 15:00	0	324