



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

**Sulphur Dioxide discharged Sept 12<sup>th</sup> to 14<sup>th</sup>, 2021**

**Nanticoke Refinery, Imperial**

**November 12<sup>th</sup>, 2021**

## 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 (SO<sub>2</sub>) discharged from acid gas combustion equipment when the sulphur recovery unit fails to operate in a normal manner.

The table below provides the hourly and rolling preceding 24 hour sum of SO<sub>2</sub> discharged from September 12 to 14, 2021.

| Hour Start          | Hour End     | SO <sub>2</sub> discharged (kg/hr) | Rolling preceding 24 hr sum of SO <sub>2</sub> discharged (kg) |
|---------------------|--------------|------------------------------------|--|
| <b>Sep 12 13:00</b> | Sep 12 14:00 | 0                                  | 0  |
| <b>Sep 12 14:00</b> | Sep 12 15:00 | 459                                | 459  |
| <b>Sep 12 15:00</b> | Sep 12 16:00 | 1,061                              | 1,520  |
| <b>Sep 12 16:00</b> | Sep 12 17:00 | 1,280                              | 2,799  |
| <b>Sep 12 17:00</b> | Sep 12 18:00 | 1,349                              | 4,148  |
| <b>Sep 12 18:00</b> | Sep 12 19:00 | 1,065                              | 5,213  |
| <b>Sep 12 19:00</b> | Sep 12 20:00 | 690                                | 5,903  |
| <b>Sep 12 20:00</b> | Sep 12 21:00 | 912                                | 6,815  |
| <b>Sep 12 21:00</b> | Sep 12 22:00 | 1,153                              | 7,967  |
| <b>Sep 12 22:00</b> | Sep 12 23:00 | 1,759                              | 9,726  |
| <b>Sep 12 23:00</b> | Sep 13 00:00 | 1,714                              | 11,441   |
| <b>Sep 13 00:00</b> | Sep 13 01:00 | 73                                 | 11,514   |
| <b>Sep 13 01:00</b> | Sep 13 02:00 | 64                                 | 11,578   |
| <b>Sep 13 02:00</b> | Sep 13 03:00 | 47                                 | 11,625   |
| <b>Sep 13 03:00</b> | Sep 13 04:00 | 39                                 | 11,664   |
| <b>Sep 13 04:00</b> | Sep 13 05:00 | 24                                 | 11,688   |
| <b>Sep 13 05:00</b> | Sep 13 06:00 | 13                                 | 11,702   |
| <b>Sep 13 06:00</b> | Sep 13 07:00 | 37                                 | 11,739   |
| <b>Sep 13 07:00</b> | Sep 13 08:00 | 235                                | 11,973   |
| <b>Sep 13 08:00</b> | Sep 13 09:00 | 111                                | 12,084   |
| <b>Sep 13 09:00</b> | Sep 13 10:00 | 0                                  | 12,084   |
| <b>Sep 13 10:00</b> | Sep 13 11:00 | 0                                  | 12,084   |
| <b>Sep 13 11:00</b> | Sep 13 12:00 | 0                                  | 12,084   |
| <b>Sep 13 12:00</b> | Sep 13 13:00 | 0                                  | 12,084   |
| <b>Sep 13 13:00</b> | Sep 13 14:00 | 0                                  | 12,084   |
| <b>Sep 13 14:00</b> | Sep 13 15:00 | 0                                  | 11,625   |
| <b>Sep 13 15:00</b> | Sep 13 16:00 | 0                                  | 10,564   |
| <b>Sep 13 16:00</b> | Sep 13 17:00 | 0                                  | 9,285  |
| <b>Sep 13 17:00</b> | Sep 13 18:00 | 0                                  | 7,936  |
| <b>Sep 13 18:00</b> | Sep 13 19:00 | 0                                  | 6,871  |
| <b>Sep 13 19:00</b> | Sep 13 20:00 | 0                                  | 6,181  |
| <b>Sep 13 20:00</b> | Sep 13 21:00 | 0                                  | 5,269  |

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| <b>Hour Start</b>   | <b>Hour End</b> | <b>SO<sub>2</sub> discharged (kg/hr)</b> | <b>Rolling preceding 24 hr sum of SO<sub>2</sub> discharged (kg)</b> |
|---------------------|-----------------|--|--|
| <b>Sep 13 21:00</b> | Sep 13 22:00    | 0  | 4,117  |
| <b>Sep 13 22:00</b> | Sep 13 23:00    | 0  | 2,358  |
| <b>Sep 13 23:00</b> | Sep 14 00:00    | 0  | 643  |
| <b>Sep 14 00:00</b> | Sep 14 01:00    | 0  | 570  |
| <b>Sep 14 01:00</b> | Sep 14 02:00    | 0  | 506  |
| <b>Sep 14 02:00</b> | Sep 14 03:00    | 0  | 459  |
| <b>Sep 14 03:00</b> | Sep 14 04:00    | 0  | 419  |
| <b>Sep 14 04:00</b> | Sep 14 05:00    | 0  | 396  |
| <b>Sep 14 05:00</b> | Sep 14 06:00    | 0  | 382  |
| <b>Sep 14 06:00</b> | Sep 14 07:00    | 0  | 345  |
| <b>Sep 14 07:00</b> | Sep 14 08:00    | 0  | 111  |
| <b>Sep 14 08:00</b> | Sep 14 09:00    | 0  | 0  |