



February 2021 - Carrington Grain Terminal Monitoring Summary Report

The following Newcastle Grain Terminal monthly monitoring summary report has been prepared by GrainCorp in accordance with Section 66 of the *Pollution of the Environment Operations Act 1997*. Monitoring data shared with the public on the website includes that collected as part of the Environmental Protection Licence (EPL) for the Newcastle Grain Terminal site. Monthly monitoring summaries are completed on the last day of any given month for the data collected.

Report contents

Section A. Map of Newcastle Grain Terminal and the location of sampling points as per the Environmental Protection Licence

Section B. Newcastle Grain Terminal fumigation emissions monitoring (Sampling Point 2)

| Monitoring triggered in this period and summarised in report? | <input checked="" type="checkbox"/> Yes see Section B | <input type="checkbox"/> No has not been included in report |
|---|--|--|
|---|--|--|

Site details

| | |
|---------------------------------|---|
| EPL Number | 1296 |
| Licensee Name | GrainCorp Operations Limited |
| Address | Newcastle Grain Terminal |
| EPL Public Register Link | https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=1296&id=1296&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued |

Technical Reviewer

M. Kennedy
Name

18/03/2021
Date

Date published to website

18/03/2021
Date

B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: February 2021

All air monitoring has been conducted in accordance with the methodology prescribed or a methodology approved in writing with NSW EPA.

Monitoring frequency: Continuous during every ventilation

No. of ventilation events during month: 10

| Sampling date (start of ventilation event) and silo number | Pollutant (discharged to air) | Sampler (fumigator) | Result | | Limit | Units of measure | Monitoring point location | Exceedance (yes/no) |
|--|-------------------------------|-------------------------|------------|------------|-------------------------------|-----------------------|---------------------------------|------------------------|
| | | | Min. value | Max. value | 100 percentile (allowable) | | | |
| 03/02/21 8:30am Silo K5 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 4 | 9.8 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.166 | 0.19 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | - | - | - | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | - | - | 0.17 | meters cubed/ second | Point 2 | no |
| 04/02/21 14:06pm Silo J7 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 0.2 | 0.2 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.201 | 0.204 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 6 | 13.4 | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.111 | 0.124 | 0.17 | meters cubed/ second | Point 2 | no |
| 11/02/21 9:07am Silo K7 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 1.8 | 8.6 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.391 | 0.428 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | - | - | - | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | - | - | 0.17 | meters cubed/ second | Point 2 | no |
| 12/02/21 10:43am Silo J1 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 0.8 | 6.2 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.27 | 0.327 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | - | - | - | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | - | - | 0.17 | meters cubed/ second | Point 2 | no |
| 24/02/21 13:00pm Silo G7 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 1.4 | 7.4 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.02 | 0.137 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | - | - | - | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | - | - | 0.17 | meters cubed/ second | Point 2 | no |
| 26/02/21 08:57am Silo K5 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 0.2 | 2.8 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.119 | 0.142 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | - | - | - | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | - | - | 0.17 | meters cubed/ second | Point 2 | no |
| 27/02/21 09:35am Silo K7 | Scenario 1 | | | | | | | |
| | Methyl bromide | A.Donnelly P.Cowling | 2.4 | 7 | 10 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | 0.269 | 0.31 | 0.494 | meters cubed/ second | Point 2 | no |
| | Scenario 2 | | | | | | | |
| | Methyl bromide | - | - | - | 19.4 | grams per cubic meter | Point 2 | no |
| | Volumetric flow rate | - | - | - | 0.17 | meters cubed/ second | Point 2 | no |
| 16-02-21 0835am Silo J5 | Phosphine | A.Donnelly P.Cowling | 33 | 51 | 73 | parts per million | Point 2 | no |
| 22/02/21 1120am Silo K1 | Phosphine | A.Donnelly P.Cowling | 5 | 41 | 73 | parts per million | Point 2 | no |
| 23/02/21 11:50am Silo H3. Vent incomplete | Phosphine | A.Donnelly P.Cowling | 36 | 51 | 73 | parts per million | Point 2 | no |

MONITORING NOTES:

Scenario 1 is defined as having a fumigation concentration of 10 grams per cubic meter and a one hour initial ventilation period

Scenario 2 is defined as having a fumigation concentration of 19.4 grams per cubic meter and a three hour initial ventilation period