



## March 2023- 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?

Yes  
see Section B

No  
has not been included in report

### Site details

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

### Technical Reviewer

A. Costa  
Name

12/04/2023  
Date

### Date published to website

12/04/2023  
Date

### A. Sampling points as per EPL - Newcastle Grain Terminal



### Environment Protection licence (EPL) Monitoring Locations

Point	Location at Newcastle Grain Terminal
2	Discharge from the vent stack fumigation chamber located at the northern-most grain silos

## B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: March 2023

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:** 13

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)			
02/03/2023 0945 Silo H3	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly G.Fryer	1.8	3.2	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.167	0.169	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-
16/03/2023 0858 Silo G4	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly G.Fryer	0.8	6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.097	0.1	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

## B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: March 2023

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**Monitoring frequency:** Continuous during every ventilation

**No. of ventilation events during month:** 13

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)			
17/03/2023 0855 Silo J1	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly G.Fryer	3.2	6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.445	0.453	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-
20/03/2023 0900 Silo H1	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly G.Fryer	2.4	8.2	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.157	0.167	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	A.Donnelly G.Fryer	9.4	10	19.4	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.077	0.08	0.17	meters cubed/ second	Point 2	no

## B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: March 2023

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:** 13

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)			
20/03/2023 1150 Silo K7	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly T.Brown	0.6	5.6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.445	0.449	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-
22/03/23 0920 Silo G3	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly G.Fryer	1	5.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.354	0.388	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

## B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: March 2023

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:** 13

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)			
23/03/2023 0850 Silo J5	<i>Scenario 1</i>							
	Methyl bromide	J.Neill S.Flanagan	0.2	7.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.419	0.431	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-
24/03/2023 0720 Silo H6	<i>Scenario 1</i>							
	Methyl bromide	J.Neill S.Flanagan	0.2	7.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.419	0.431	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

## B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: March 2023

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:** 13

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)			
29/03/2023 1110 Silo H4	<i>Scenario 1</i>							
	Methyl bromide	T.Brown S.Flanagan	3	9.2	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.122	0.123	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	T.Brown S.Flanagan	7.6	8.6	19.4	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.05	0.06	0.17	meters cubed/ second	Point 2	no
30/03/2023 0940 Silo G7	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly P.Carpenter	1.8	9.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.425	0.451	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	0	0	19.4	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0	0	0.17	meters cubed/ second	Point 2	no

## B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: March 2023

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:** 13

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)			
31/03/2023 0720 Silo J3	<i>Scenario 1</i>							
	Methyl bromide	A.Donnelly P.Carpenter	1.2	5.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.401	0.41	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	0	0	19.4	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0	0	0.17	meters cubed/ second	Point 2	no
06/03/2023 1135 Silo K5	Phosphine	A.Donnelly G.Fryer	N/A	43	73	parts per million	Point 2	no
28/03/2023 0900 Silo H5	Phosphine	T.Brown S.Flanagan	N/A	56	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