APR 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?**	☑ Yes see Section B	☐ 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

A. Costa
Name

18/05/2021
Date

Date published to website

18/05/2021
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: APR 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: 7

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)			
07/04/21 10:20am Silo H2	*Scenario 1*							
	Methyl bromide	A.Donnelly T.Brown	2.2	5.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.147	0.154	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	-	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	-	-
19/04/21 11:30am Silo H1	*Scenario 1*							
	Methyl bromide	J.Neill P.Cowling	1.8	5.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.248	0.254	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	-	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	-	-
17/04/21 9:25am Silo K7	*Scenario 1*							
	Methyl bromide				10	grams per cubic meter	Point 2	-
	Volumetric flow rate	-			0.494	meters cubed/ second	Point 2	-
	Scenario 2							
	Methyl bromide	J.Neill P.Cowling	8.8	16.2	19.4	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.081	0.099	0.17	meters cubed/ second	Point 2	no

B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: APR 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: 7

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)			
19/04/21 8:25am Silo K3	*Scenario 1*							
	Methyl bromide	**J.Neill P.Cowling**	**1.4**	**9.2**	**10**	grams per cubic meter	Point 2	**no**
	Volumetric flow rate	**-**	**0.38**	**0.39**	**0.494**	meters cubed/ second	Point 2	**no**
	Scenario 2							
	Methyl bromide	**-**	**-**	**-**	**19.4**	grams per cubic meter	-	-
	Volumetric flow rate	**-**	**-**	**-**	**0.17**	meters cubed/ second	-	-
17/04/21 6:30am Silo H6	*Scenario 1*							
	Methyl bromide	**J.Neill P.Cowling**	**1.6**	**7**	**10**	grams per cubic meter	Point 2	**no**
	Volumetric flow rate	**-**	**0.085**	**0.089**	**0.494**	meters cubed/ second	Point 2	**no**
	Scenario 2							
	Methyl bromide	**-**	**-**	**-**	**19.4**	grams per cubic meter	-	-
	Volumetric flow rate	**-**	**-**	**-**	**0.17**	meters cubed/ second	-	-
29/04/21 10:40am Silo H3	*Scenario 1*							
	Methyl bromide	**J.Forman P.Carpenter**	**4.8**	**6**	**10**	grams per cubic meter	Point 2	**no**
	Volumetric flow rate	**-**	**0.135**	**0.264**	**0.494**	meters cubed/ second	Point 2	**no**
	Scenario 2							
	Methyl bromide	**-**	**-**	**-**	**19.4**	grams per cubic meter	-	-
	Volumetric flow rate	**-**	**-**	**-**	**0.17**	meters cubed/ second	-	-

B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: APR 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: 7

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)			
30/04/21 10:10am Silo H5	*Scenario 1*							
	Methyl bromide	**J.Forman P.Cowling**	**3.2**	**6.8**	**10**	grams per cubic meter	Point 2	**no**
	Volumetric flow rate	**-**	**0.111**	**0.12**	**0.494**	meters cubed/ second	Point 2	**no**
	Scenario 2							
	Methyl bromide	**-**	**-**	**-**	**19.4**	grams per cubic meter	**-**	**-**
	Volumetric flow rate	**-**	**-**	**-**	**0.17**	meters cubed/ second	**-**	**-**

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