

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

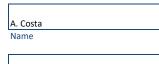
Section A. Map of Newcastle Grain Terminal and the location of sampling points as per the Environmental Protection Licence

	Monitoring triggered in this period and	✓ Yes	🗌 No	
Section B. Newcastle Grain Terminal fumigation emissions monitoring (Sampling Point 2)	summarised in report?	see Section B	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⦥=POEO%20licence&prp=no&status=Issued

Technical Reviewer



18/03/2022 Date

Date published to website

18/03/2022 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

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

Sampling date			R	esult	Limit		Monitoring	
(start of ventilation event) and silo number	Pollutant (discharged to air)	Sampler (fumigator)	Min. value	Max. value	100 percentile (allowable)	Units of measure	point location	Exceedance (<mark>yes/no</mark>)
	1							
1/2/22 11:00am silo K3	Scenario 1	_	-					
		P.Carpenter						
	Methyl bromide	P.Cowling	0.4	2.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.23	0.259	0.494	meters cubed/ second	Point 2	no
			•	•	•			
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-
1/2/22 16:20 silo J5	Scenario 1							
		P.Carpenter						
	Methyl bromide	J.Neill	0.2	7.2	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.231	0.237	0.494	meters cubed/ second	Point 2	no
			•					
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

2/2/22 8:30 Silo H1	Scenario 1							
		P.Carpenter						
	Methyl bromide	S.Kidd	0.4	5.2	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.277	0.355	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

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Monitoring frequency: Continuous during every ventilation

Sampling date (start of ventilation event) and silo number	Pollutant (discharged to air) r	Sampler (fumigator)	Re	esult	Limit		Monitoring	
			Min. value	Max. value	100 percentile (allowable)	Units of measure	point location	Exceedance (<mark>yes</mark> /no)
4/2/22 11:10 Silo K7	Scenario 1							
		P.Carpenter						
	Methyl bromide	S.Kidd	0.6	3.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.155	0.324	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

5/02/2022 9:25 Silo K5	Scenario 1							
		A.Donnelly						
	Methyl bromide	S.Kidd	0.4	5.2	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.256	0.266	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

6/02/2022 9:40 Silo J1	Scenario 1							
	Methyl bromide	A.Donnelly J.Neil	0.4	6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.259	0.293	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

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Monitoring frequency: Continuous during every ventilation

Sampling date			R	esult	Limit		Monitoring	
(start of ventilation event) and silo number	Pollutant (discharged to air)	Sampler (fumigator)	Min. value	Max. value	100 percentile (allowable)	Units of measure	point location	Exceedance (yes/no)
7/02/2022 9:00 Silo G7	Scenario 1							
	Methyl bromide	A.Donnelly J.Neil	0.8	4.6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.179	0.182	0.494	meters cubed/ second	Point 2	no
					-			
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

1/02/2022 8:57 Silo G3	Scenario 1							
	Methyl bromide	A.Donnelly J.Neil	0.4	2.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.266	0.269	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

9/02/2022 8:45 Silo G5	Scenario 1							
		A.Donnelly						
	Methyl bromide	P.Cowing	1.2	6.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.203	0.207	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

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Monitoring frequency: Continuous during every ventilation

Sampling date			Re	esult	Limit		Monitoring	
(start of ventilation event) and silo number	Pollutant (discharged to air) r	Sampler (fumigator)	Min. value	Max. value	100 percentile (allowable)	Units of measure	point location	Exceedance (yes/no)
10/02/2022 14:50 Silo	Scenario 1							
H5		A.Donnelly						
	Methyl bromide	P.Cowing	1.2	7.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.102	0.16	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

15/02/22 7:50 Silo J3	Scenario 1								
		A.Donnelly							
	Methyl bromide	P.Cowing	0.6	6	10	grams per cubic meter	Point 2	no	
	Volumetric flow rate	-	0.102	0.344	0.494	meters cubed/ second	Point 2	no	
	Scenario 2								
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-	
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	

17/02/2022 8:40 Silo	Scenario 1							
H4		A.Donnelly						
	Methyl bromide	J.Neill	0.2	4.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.167	0.176	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

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: 14

Sampling date (start of ventilation event) and silo number	Pollutant (discharged to air)	Sampler (fumigator)	Result		Limit		Monitoring	
			Min. value	Max. value	100 percentile (allowable)	Units of measure	point location	Exceedance (yes/no)
24/02/22 17:03 Silo K5	Scenario 1							
		A.Donnelly						
	Methyl bromide	P.Carpenter	1.8	5	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.387	0.394	0.494	meters cubed/ second	Point 2	no
	Scenario 2							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-

25/02/22 16:00 Silo G7	2 16:00 Silo G7 Scenario 1								
		A.Donnelly							
	Methyl bromide	P.Carpenter	4.2	6.2	10	grams per cubic meter	Point 2	no	
	Volumetric flow rate	-	0.321	0.351	0.494	meters cubed/ second	Point 2	no	
	Scenario 2								
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-	
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	

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