

February 2022 - PKGT Monitoring Summary Report

The following Port Kembla Grain Terminal (PKGT) 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 Port Kembla Grain Terminal Site. Monthly monitoring summaries are completed on the last day of any given month for the data collected.

Report contents

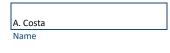
Section A. Map of PKGT and the location of sampling points as per the Environmental Protection Licence

		✓ Yes	🗆 No
Section B. PKGT fumigation emissions monitoring (Sampling Points 3,4,5,6,7 and 8)		see Section B	has not been included in report
	Monitoring triggered in this period	✓ Yes	No
Section C. PKGT interceptor water monitoring (Sampling Point 1)	and summarised in report?	see Section C	has not been included in report
		Yes	✓ No
Section D. PKGT diesel boiler monitoring (Sampling Point 2)		see Section D	has not been included in report

Site details

EPL Number	3693
Licensee Name	GrainCorp Operations Limited
Address	Port Kembla Grain Terminal, Morton Way, Port Kembla NSW 2505
EPL Public Register Link	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=3693&id=3693&option=licence&searchrange=licence⦥=POEO licence&prp=no&status=Issued

Technical Reviewer

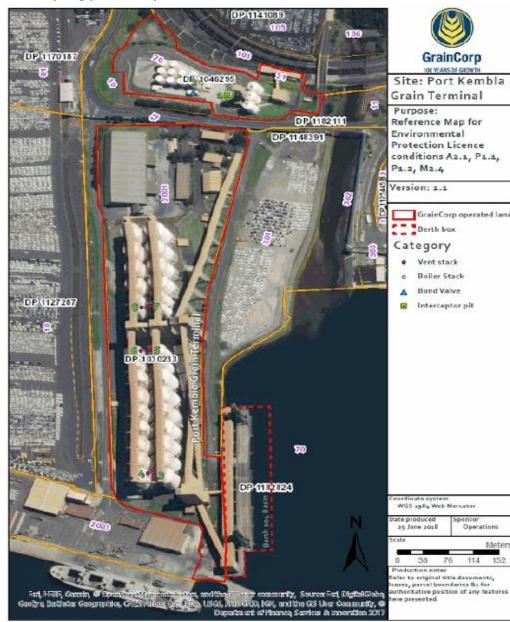


18/03/2022	
Date	

Date published to website

18/03/2022		
Date		

A. Sampling points as per EPL - Port Kembla Grain Terminal



Environment Protection licence (EPL) Monitoring Locations

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Point	Location at PKGT
1	Located at the Bulk Liquid Storage area of the Port Kembla Grain Terminal. The water sample is collected downstream the bund valve from the final section of the interceptor.
2	Diesel boiler air vent located within the bulk liquid storage area directly east of the bulk storage tank area bund.
3 and 4	Most southern fumigation vents located beside silos A1 and B1.
5 and 6	Fumigation vent located in the centre of the site beside silos A9 and B9.
7 and 8	The northern most fumigation vents located beside silos A10 and B10, just north of points 5 and 6.

B. GrainCorp - Port Kembla Fumigation monitoring data summary: February 2022

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: 9

No discharge occurred

					Exceedance			Re	sult	Limit			
Sampling date (ventilation event)	Pollutant (discharged to air)	Silo Vent No.	Initial Purge start time^	Initial Purge end time*	More than one silo vent in initial purge phase?* (yes/no)	Sampler (fumigator)	Parameter	Min. value	Max. value	100 percentile (allowable)	Units of measure	Monitoring point location	Exceedance (yes/no)
	Single silo ventilation event												
	Methyl bromide	B13	14:14	n/a	No	R. Newton	Concentration	NA	6.27	8	grams per second	8	no
4/02/2022							Velocity	1.54	NA	1.4	metres per second		no
	Second silo ventilation event								r		T		
	No discharge occurred						Concentration	NA		-	grams per second		
							Velocity		NA	-	metres per second		
	Single silo ventilation event												
	Methyl bromide	B14	15:17	n/a	Νο	R. Newton	Concentration	NA	6.28	8	grams per second	8	no
2/02/2022		614	13.17	iiya	NO	R. Newton	Velocity	1.53	NA	1.4	metres per second	0	no
2,02,2022	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second		
							Velocity		NA	-	metres per second		
	Single silo ventilation event												
	Single sho ventilution event						-			-	grams per		
	Methyl bromide	A12	15:10	n/a	No	R. Newton	Concentration	NA	6.07	8	second metres per	7	no
6/02/2022							Velocity	1.51	NA	1.4	second		no
0,00,000	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second		
							Velocity		NA	-	metres per second		
	Circle sile weekiletien event												
	Single silo ventilation event										grams per		
	Phosphine	B12	18:00	n/a	No	R. Newton	Concentration	NA	0.0374	0.0424	second	- 8	no
9/02/2022				n/a	INO	R. Newton	Velocity	0.65	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second		
	and anothing of the state of th												

metres per

second

NA

Velocity

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Sampling date (ventilation event)	Pollutant (discharged to air)	Silo Vent No.	Initial Purge start time^	Initial Purge end time*	More than one silo vent in initial purge phase?* (yes/no)	Sampler (fumigator)	Parameter	Min. value	Max. value	100 percentile (allowable)	Units of measure	Monitoring point location	Exceedance (yes/no)
	Single silo ventilation event												
	Phosphine	A14	10:38	n/a	No	R. Newton –	Concentration	NA	0.313	0.0424	grams per second	7	no
13/02/2022			10.56				Velocity	0.65	NA	0.5	metres per second	,	no
15/02/2022	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second		
	No discharge occurred						Velocity		NA	-	metres per second		

	Single silo ventilation event														
	Phosphine	A8	12:40	n/a	No	R. Newton	Concentration	NA	0.33	0.0424	grams per second	E	no		
16/02/2022	Phosphine	A0 12.40	12.40				Velocity	0.69	NA	0.5	metres per second	5	no		
10/02/2022	Second silo ventilation event														
	No discharge occurred						Concentration	NA		-	grams per second				
							Velocity		NA	-	metres per second				

	Single silo ventilation event												
	Methyl bromide	A11	13:12	n/a	Νο	R. Newton	Concentration	NA	5.1	8	grams per second	7	no
22/02/2022		/	13.12	.,, 0		n. newton	Velocity	1.52	NA	1.4	metres per second	,	no
22,02,2022	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second		
							Velocity		NA	-	metres per second		

Γ		Single silo ventilation event	ingle silo ventilation event													
		Methyl bromide	B13	16:04	n/a	No	R. Newton	Concentration	NA	5.25	8	grams per second	o	no		
	24/02/2022	Methyrbronnue		10.04				Velocity	1.53	NA	1.4	metres per second	0	no		
	24/02/2022	Second silo ventilation event														
	3	No discharge occurred						Concentration	NA		-	grams per second				
								Velocity		NA	-	metres per second				

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					Exceedance			Re	sult	Limit			
Sampling date (ventilation event)	Pollutant (discharged to air)	Silo Vent No.	Initial Purge start time^		More than one silo vent in initial purge phase?* (yes/no)	Sampler (fumigator)	Parameter	Min. value	Max. value	100 percentile (allowable)	Units of measure	Monitoring point location	Exceedance (yes/no)
	Single silo ventilation event												
	Methyl bromide	B10	11:27	n/a	No	R. Newton	Concentration	NA	4.02	8	grams per second	8	no
27/02/2022	Methy bronnae	510	11.27	17 8	110	R. Newton	Velocity	1.54	NA	1.4	metres per second	0	no
27/02/2022	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second		
	No discharge occurred						Velocity		NA	-	metres per second		

Methyl bromide max concentration = 8g/sec, min velocity = 1.4m/sec

Phosphine max concentration = 0.0424g/sec; min velocity = 0.5m/sec

^ Initial Purge times that coincide are shaded in purple.

*The Initial Purge phase is the time between the start of vent and until emission rate from the grain silo is either 1 gram per second of Methyl Bromide or 0.01 grams per second of Phosphine. Only one grain silo can be in the initial purge phase at any one time. The maximum number of grain silos venting at any one time must not exceed two.

C. GrainCorp - Port Kembla water monitoring data summary: February 2022

The concentration of each pollutant specified below has been determined using the required sampling method, units of measure and sample frequency specified in the EPL. Water parameters and water samples are collected by suitably qualified staff and, where required, water samples are analysed at a NATA accredited laboratory.

Monitoring frequency: Single sample each day during any discharge (i.e. daily)

Number of water release events during month: 9

Monitoring Point Location: Point 1

			Result		Limit		
Number of times measured/sampled during month	Pollutant (discharge to water)	Min. value	Max. value	Visible or not visible?	100 percentile (allowable)	Units of measure	Exceedance (<mark>yes</mark> /no)
	Oil and Grease	NA	NA	Not visible	Not visible	Visible	no
0	рН	6.62	7.2		6.5-8.5	рН	no
9	Total suspended solids	< 5	12	NA	50	mg/L	no
	Turbidity	0.25	4.32		40	NTU	no

Sampling Event details			
Sampling date	Sampler	Lab report date	Lab report ID
2/02/2022	D Jackson	9/02/2022	EW2200489
7/02/2022	D Jackson	14/02/2022	EW2200537
14/02/2022	D Jackson	23/02/2022	EW2200811
18/02/2022	D Jackson	1/03/2022	EW2200827
23/02/2022	B Loke	1/03/2022	EW2200870
24/02/2022	B Loke	4/03/2022	EW2200887
24/02/2022	B Loke	1/03/2022	EW2200888
25/02/2022	R Newton	7/02/2022	EW2200908
25/02/2022	R Newton	3/03/2022	EW2200909
26/02/2022	R Newton	7/03/2022	EW2200910
26/02/2022	R Newton	3/03/2022	EW2200911
28/02/2022	D Jackson	9/03/2022	EW2200950
28/02/2022	D Jackson	3/03/2022	EW2200951

Unit of Measure Abbreviation	Unit of Measure	
mg/L	milligrams per litre	
рН	рН	
Visible	Visible	
NTU	nephelometric turbidity units	