B. GrainCorp Kembla Fur

September 2024 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

	Monitoring triggered in this period and summarised in report?		
Section B. PKGT fumigation emissions monitoring (Sampling Points 3,4,5,6,7 and 8)		☑ Yes see Section B	☐ No has not been included in report
Section C. PKGT interceptor water monitoring (Sampling Point 1)		☑ Yes see Section C	☐ No has not been included in report
Section D. PKGT diesel boiler monitoring (Sampling Point 2)		☐ Yes see Section D	☑ No 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&range=POEO licence&prp=no&status=Issued

Technical Reviewer

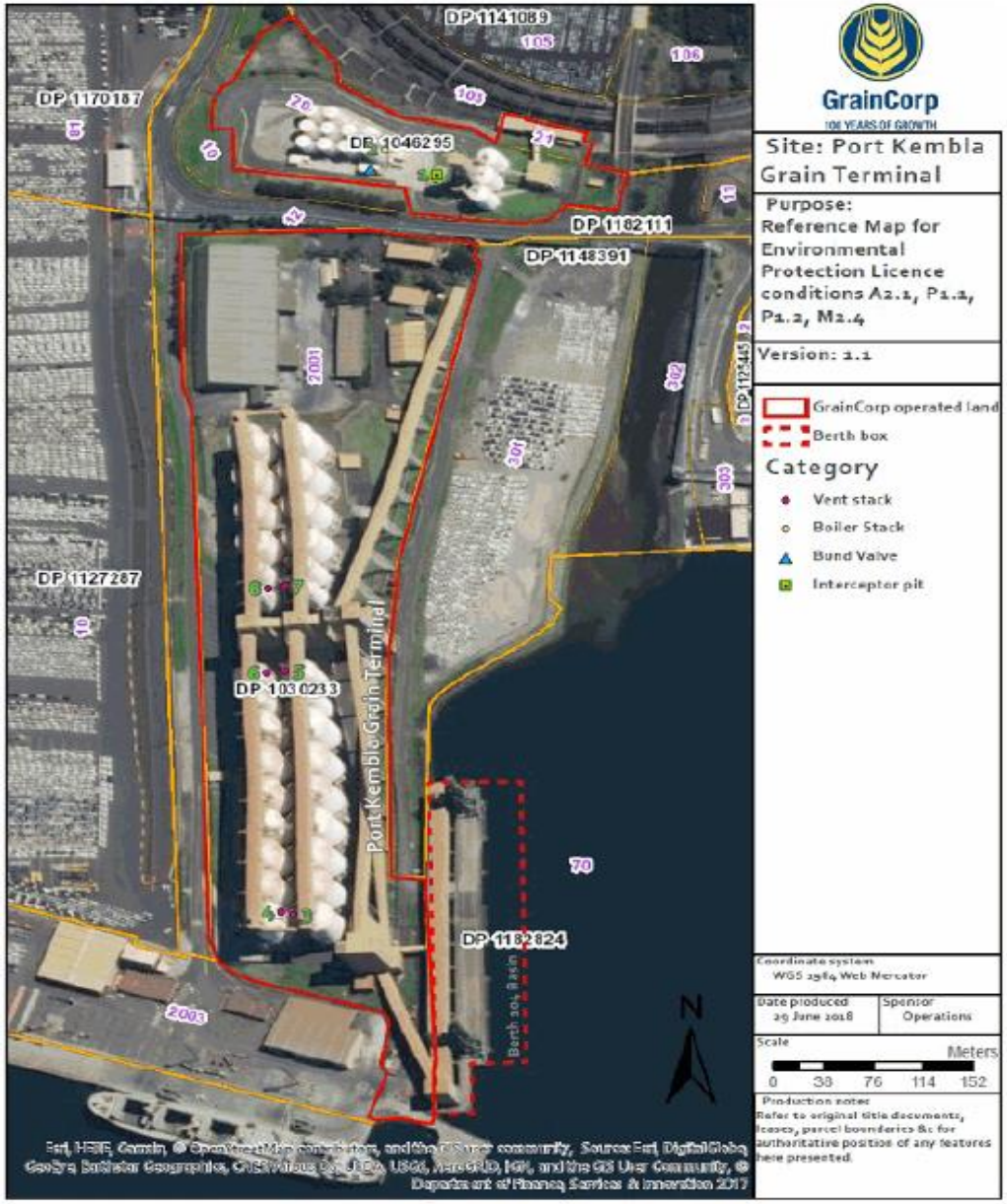
M. Anderton
Name

2/10/2024
Date

Date published to website

9/10/2024
Date

B. GrainCorp - Port Kembla Fumigation monitoring data summary: Septembe September 2024 PKGT Monitoring Summary Report



Environment Protection licence (EPL) Monitoring Locations

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.

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B. GrainCorp - Port Kembla Fumigation monitoring data summary: September 2024

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 (ventilation event)	Pollutant (discharged to air)	Silo Vent No.	Initial Purge start time^	Initial Purge end time*	Exceedance: More than one silo vent in initial purge phase?* (yes/no)	Sampler (fumigator)	Parameter	Result: Min. value	Result: Max. value	Limit: 100 percentile (allowable)	Units of measure	Monitoring point location	Exceedance (yes/no)
4/09/2024	*Single silo ventilation event*												
	Phosphine	B15	15:12	n/a	no	R.Newton	Concentration	NA	0.0403	0.0424	grams per second	7	no
							Velocity	0.66	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second	-	
							Velocity		NA	-	metres per second		
7/09/2024	*Single silo ventilation event*												
	Phosphine	B9	11:06	n/a	No	R.Newton	Concentration	NA	0.0385	0.0424	grams per second	6	no
							Velocity	0.67	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second	-	
							Velocity		NA	-	metres per second		
13/09/2024	*Single silo ventilation event*												
	Phosphine	A6	15:27	n/a	no	R.Newton	Concentration	NA	0.0396	0.0424	grams per second	5	no
							Velocity	0.67	NA	0.5	metres per second		no
	Second silo ventilation event												
							Concentration	NA		#N/A	grams per second	-	
							Velocity		NA	#N/A	metres per second		
23/09/2024	*Single silo ventilation event*												
	Phosphine	A4	11:49	n/a	no	R.Newton	Concentration	NA	0.0379	0.0424	grams per second	7	no
							Velocity	0.68	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second	-	
							Velocity		NA	-	metres per second		
	Single silo ventilation event												

B. GrainCorp - Port Kembla Fumigation monitoring data summary: September 2024

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 (ventilation event)	Pollutant (discharged to air)	Silo Vent No.	Initial Purge start time^	Initial Purge end time*	Exceedance	Sampler (fumigator)	Parameter	Result		Limit	Units of measure	Monitoring point location	Exceedance (yes/no)
					More than one silo vent in initial purge phase?* (yes/no)			Min. value	Max. value	100 percentile (allowable)			
24/09/2024	Phosphine	B12	13:48	n/a	no	R.Newton	Concentration	NA	0.0342	0.0424	grams per second	5	no
							Velocity	0.66	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second	-	
							Velocity		NA	-	metres per second		
26/09/2024	*Single silo ventilation event*												
	Phosphine	B4	15:32	n/a	no	R.Newton	Concentration	NA	0.0314	0.0424	grams per second	5	no
							Velocity	0.66	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second	-	
							Velocity		NA	-	metres per second		
28/09/2024	*Single silo ventilation event*												
	Phosphine	B5	09:51	n/a	no	R.Newton	Concentration	NA	0.04	0.0424	grams per second	5	no
							Velocity	0.68	NA	0.5	metres per second		no
	Second silo ventilation event												
	No discharge occurred						Concentration	NA		-	grams per second	-	
							Velocity		NA	-	metres per second		

B. GrainCorp - Port Kembla Fumigation monitoring data summary: September 2024

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: 3

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 (yes/no)**
3	Oil and Grease	NA	NA	Not Visible	Not visible	Visible	no
	pH	7.02	8.39	NA	6.5-8.5	R.Newton	no
	Total suspended solids	<5	5.5		50	mg/L	no
	Turbidity	2.7	5.5		40	NTU	no

Sampling Event details

Sampling date	Sampler	Lab report date	Lab report ID
26/09/2024	B.Lowe	4/10/2024	EW2404437
27/09/2024	B.Lowe	3/10/2024	EW2404438
30/09/2024	B.Lowe	No COA	EW2404488

Unit of Measure Abbreviation	Unit of Measure
mg/L	milligrams per litre
pH	pH
R.Newton	Visible
mg/L	nephelometric turbidity units

D. GrainCorp - Port Kembla boiler air monitoring summary: January 1900

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. Sampling is completed annually by an external NATA accredited specialist and standardised where required.

EPL period monitored/number of samples required by EPL: On commission and annually thereafter within anniversary period of licence. One sample is collected during monitoring.

Monitoring Point Location: Point 2
Sampling date: 9/07/2021

	Result			Limit		
Pollutant (discharge to air)	**Min. Value**	**Mean**	**Max. Value**	**100 Percentile (allowable) (mg/m^3)**	**Unit of Measure**	**Exceedance (yes/no)**
Carbon monoxide	180	17	230	125	mg/m^3	No
Moisture	5.8	5.8	5.8		%	NA
Nitrogen Oxides	180	210	230	250	mg/m^3	No
Oxygen (O_2)	8.3	9	9.9		%	NA
Solid Particles	<2	<2	<2	50	mg/m^3	No
Sulphur dioxide	0.058	0.058	0.058	1.5	mg/m^3	No
Temperature	224	224	224		^oC	NA
Velocity	6.5	6.5	6.5		m/s	NA
Volumetric flowrate	0.1	0.1	0.1		m^3/s	NA

Unit of Measure Abbreviation	Unit of Measure
^oC	degrees Celsius
$\mu g/m^3$	micrograms per cubic metre
m/s	metres per second
mg/m^3	milligrams per cubic metre
%	percent