Boral Cement Berrima - POELA Act 2011 Monitoring Data

New Berrima, NSW - Environmental Protection Licence No. 1698

Record updated on: 08 September 2025

Further analysis of monitoring data can be found within the Annual Environmental Management Reports prepared for Kiln 6 within public reporting.

https://www.boral.com.au/locations/boral-cement-works-berrima

1. Stack emission monitoring (Standard Fuels)

1.1 Continuous Monitoring

Solid Particles Concentration (milligrams per cubic metre)

Licence limit: 50 milligrams per cubic metre; based on 24 hours averaging period

Date published	08/12/21	08/01/22	08/02/22	08/03/22	08/04/22	08/05/22	08/06/22	08/07/22
Date	**Nov-21**	**Dec-21**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**
1	10.0	10.2	11.1	0.0	0.0	14.5	42.2	40.7
2	7.3	10.3	12.8	12.4	0.0	19.9	31.5	32.7
3	7.6	13.7	13.8	0.0	0.0	24.9	30.1	42.8
4	8.0	0.0	14.8	0.0	21.1	21.6	31.4	45.6
5	9.7	7.0	15.4	0.0	0.0	24.4	0.0	43.9
6	7.2	18.7	16.2	0.0	0.0	25.8	0.0	39.7
7	7.3	13.0	14.7	0.0	35.4	33.1	0.0	20.6
8	8.4	0.0	15.4	0.0	22.9	36.6	8.3	25.6
9	8.5	13.8	15.0	0.0	20.1	34.9	14.6	42.3
10	6.7	13.4	16.0	0.0	23.3	28.4	18.4	34.7
11	7.1	11.5	14.1	0.0	30.0	28.8	19.1	25.9
12	6.9	12.2	9.3	0.0	26.8	32.5	24.2	23.3
13	7.2	16.2	12.5	0.0	44.9	34.5	24.7	33.3
14	6.5	19.2	17.6	0.0	30.0	22.7	20.9	32.1
15	5.9	23.8	10.4	0.0	30.1	22.6	27.0	29.5
16	5.9	28.7	12.1	0.0	29.6	22.8	42.7	31.5
17	7.5	41.1	11.1	0.0	29.6	27.1	48.2	17.0
18	11.3	43.3	14.5	0.0	16.7	36.0	37.5	19.8
19	9.4	46.1	13.1	0.0	17.7	43.9	36.4	20.4
20	10.2	36.8	13.5	0.0	20.9	15.6	34.6	24.9
21	9.9	11.1	11.8	0.0	0.0	20.0	35.5	26.8
22	7.3	11.8	11.2	0.0	19.8	23.1	32.5	31.2
23	9.9	10.6	10.9	0.0	20.1	30.5	39.1	28.0
24	16.8	10.0	14.7	0.0	21.5	29.6	45.0	27.3
25	20.7	8.8	16.4	0.0	15.2	42.7	47.3	25.5
26	9.7	9.0	14.5	0.0	15.2	46.6	43.8	41.7
27	9.3	8.6	13.4	0.0	14.5	0.0	33.5	40.6
28	8.9	10.5	14.7	0.0	15.6	42.8	33.6	30.6
29	10.2	10.4	0.0	x	0.0	39.3	40.1	28.8
30	9.9	8.5	0.0	x	0.0	48.1	36.5	20.3
31	x	10	0	x	10	x	47	40.7

Date published	08/08/22	08/09/22	08/10/22	08/11/22	08/12/22	08/01/23	08/02/23	08/03/23
Date	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**
1	19.2	35.3	37.3	39.8	43.0	44.6	32.1	0.0
2	28.1	44.4	0.0	39.0	44.3	43.2	35.4	0.0
3	21.1	47.0	0.0	32.8	36.3	42.9	32.3	44.6
4	22.7	45.0	0.0	44.4	40.7	36.5	28.2	41.0
5	24.2	44.1	0.0	35.6	39.9	20.6	22.3	32.5
6	0.0	42.2	0.0	27.1	45.5	0.0	17.2	21.6
7	33.5	23.5	0.0	23.0	41.0	40.2	19.0	22.8
8	28.3	21.7	0.0	36.4	44.8	28.4	42.3	20.9
9	24.4	24.3	0.0	32.6	37.3	26.3	38.1	27.2
10	23.0	32.3	0.0	42.7	37.3	30.3	34.9	23.1
11	26.8	27.6	0.0	44.4	41.3	39.0	21.9	21.6
12	34.6	32.0	0.0	43.9	43.6	39.4	0.0	22.3
13	34.3	42.4	40.4	44.8	47.3	31.9	0.0	26.3
14	42.9	32.0	19.8	34.4	54.4	33.5	0.0	25.0
15	24.0	32.8	21.0	42.5	45.5	40.7	0.0	25.8
16	20.3	39.0	18.6	37.7	40.6	39.2	0.0	0.0
17	20.6	38.4	18.3	38.7	41.7	34.9	0.0	32.8
18	28.7	29.9	25.1	34.3	39.7	30.9	0.0	30.9
19	30.4	29.7	26.5	29.0	45.0	38.8	0.0	28.2
20	43.6	31.0	28.6	30.4	47.9	38.8	0.0	31.0
21	43.9	38.3	32.5	37.2	47.7	38.6	0.0	27.7
22	46.2	34.0	31.5	30.8	44.2	31.2	0.0	31.1
23	40.2	31.6	28.6	29.0	39.3	29.1	0.0	0.0
24	38.4	27.5	33.9	32.9	39.9	30.9	0.0	23.4
25	33.7	25.5	37.0	42.5	38.1	32.3	0.0	27.5
26	45.2	23.1	41.8	43.6	41.3	34.9	0.0	27.2
27	42.1	21.1	44.7	39.0	42.6	41.6	0.0	24.3
28	36.7	23.4	39.8	42.6	45.8	32.6	0.0	24.5
29	42.1	29.6	34.9	46.6	46.6	36.0	0.0	x
30	37.5	40.7	30.7	45.1	40.3	27.8	0.0	x
31	36	42	x	46.2	x	30	0.0	x

Date published	08/04/23	08/05/23	08/06/23	08/07/23	08/08/23	08/09/23	08/10/23	08/11/23
Date	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**
1	24.3	36.1	29.4	41.7	36.2	39.0	21.8	32.1
2	27.3	39.7	0.0	30.9	29.1	39.6	28.6	40.2
3	24.0	20.5	0.0	39.2	27.8	0.0	34.0	47.9
4	25.2	30.6	0.0	38.6	28.1	39.5	42.8	34.2
5	24.3	40.1	17.0	41.6	26.8	37.1	40.4	42.2
6	25.8	0.0	19.9	43.9	32.8	29.8	41.2	42.3
7	26.0	0.0	19.0	0.0	36.8	33.7	32.8	38.7
8	39.7	0.0	30.7	42.3	35.7	45.0	46.4	38.6
9	35.9	0.0	29.8	37.9	47.8	39.8	39.7	42.3
10	37.2	0.0	0.0	40.6	51.5	37.0	42.1	33.9
11	34.7	0.0	0.0	47.6	41.4	36.0	39.9	46.9
12	38.9	0.0	0.0	36.3	75.5	39.8	39.1	41.7
13	44.3	0.0	0.0	34.9	63.7	48.4	34.0	40.6
14	47.7	0.0	0.0	33.8	42.8	46.2	37.3	44.5
15	41.9	0.0	37.4	20.7	40.0	45.7	36.5	45.6
16	34.4	0.0	23.6	17.4	37.0	0.0	44.0	41.9
17	28.3	27.4	36.6	31.8	47.1	0.0	44.2	44.2
18	28.2	23.3	33.3	34.2	43.9	0.0	38.4	25.9
19	29.9	23.3	30.6	38.8	35.0	0.0	41.4	36.3
20	27.9	17.3	36.2	45.4	42.8	0.0	46.1	40.0
21	20.9	23.9	37.2	0.0	41.9	0.0	41.8	43.6
22	26.7	24.4	33.5	0.0	43.6	0.0	36.7	42.6
23	26.2	24.9	32.6	0.0	40.3	0.0	34.2	43.5
24	31.1	30.1	32.1	0.0	40.2	0.0	31.4	45.9
25	36.1	29.3	37.2	0.0	45.6	27.5	37.8	42.9
26	31.1	28.0	43.9	0.0	45.2	39.1	28.5	37.2
27	30.5	25.7	28.0	0.0	40.6	0.0	28.8	46.0
28	33.3	32.6	32.2	0.0	42.4	0.0	33.6	45.2
29	34.8	25.6	34.4	0.0	46.3	32.8	47.0	38.7
30	36.9	25.9	36.4	0.0	32.5	34.1	41.8	43.7
31	47	x	34.4	x	46.2	20	x	43

Date published	08/12/23	08/01/24	08/02/24	08/03/24	08/04/24	08/05/24	08/06/24	08/07/24
Date	**Nov-23**	**Dec-23**	**Jan-24**	**Feb-24**	**Mar-24**	**Apr-24**	**May-24**	**June-24**
1	42.9	40.1	34.2	0.0	37.9	47.0	21.6	22.1
2	44.0	43.0	40.4	0.0	32.4	44.9	24.8	30.4
3	35.2	47.3	35.9	0.0	24.6	35.3	39.3	38.3
4	42.6	39.4	37.5	0.0	21.0	47.6	39.6	30.2
5	43.8	43.1	25.4	32.8	20.9	59.3	39.8	33.4
6	35.3	38.9	26.6	31.0	25.5	60.4	30.1	34.8
7	0.0	39.9	32.2	0.0	41.0	27.9	25.8	0.0
8	23.1	0.0	33.4	38.1	31.0	32.7	18.5	39.8
9	30.5	42.0	27.1	36.0	27.4	17.9	32.6	0.0
10	42.3	37.5	0.0	34.2	33.0	17.5	34.5	0.0
11	38.5	38.8	0.0	38.3	39.4	23.9	31.2	36.8
12	36.8	45.4	0.0	37.5	35.5	31.0	29.5	27.0
13	43.0	43.9	0.0	43.6	42.0	24.0	35.3	22.2
14	0.0	43.1	0.0	39.1	33.1	31.1	32.8	23.4
15	0.0	46.5	0.0	37.9	36.0	32.9	40.4	28.3
16	0.0	46.2	0.0	25.2	39.0	33.7	0.0	22.4
17	0.3	37.1	0.0	27.7	36.1	29.1	0.0	22.0
18	42.2	0.0	0.0	32.3	34.5	40.8	0.0	19.5
19	39.1	0.0	0.0	41.1	38.2	37.4	25.3	25.0
20	44.0	0.0	0.0	34.1	41.5	44.5	25.3	37.6
21	32.2	0.0	0.0	30.6	40.6	37.8	15.9	35.8
22	0.0	44.3	0.0	37.7	37.9	38.5	12.4	24.9
23	0.0	37.7	0.0	44.1	41.0	32.6	18.1	27.1
24	0.0	41.0	0.0	42.2	39.3	28.2	22.2	23.2
25	0.0	43.2	0.0	43.2	34.1	33.3	23.7	18.9
26	23.9	41.6	0.0	36.1	44.9	26.6	28.2	19.7
27	36.2	37.3	0.1	32.9	46.6	22.8	27.0	20.0
28	43.5	34.5	0.0	34.2	41.0	27.0	20.7	19.2
29	46.9	39.2	0.0	38.7	40.7	33.3	27.1	20.5
30	39.9	30.6	0.0	x	41.8	32.0	23.9	19.0
31	x	35	0	x	47	x	30	x

Date published	08/08/24	08/09/24	08/10/24	08/11/24	08/12/24	08/01/25	08/02/25	08/03/25
Date	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**
1	27.3	11.5	31.4	19.9	39.9	0.0	0.0	0.0
2	29.0	16.3	36.6	20.9	39.1	0.0	0.0	0.0
3	24.1	17.3	40.2	27.0	35.0	0.0	0.0	33.0
4	12.5	17.9	36.4	25.5	46.4	0.0	0.0	26.5
5	25.9	15.6	41.1	30.5	38.1	0.0	0.0	32.5
6	19.8	14.7	44.8	29.9	40.5	43.3	0.0	24.5
7	26.8	15.1	40.3	34.7	41.6	44.8	0.0	24.1
8	21.8	18.8	29.3	31.8	38.7	45.7	0.0	29.6
9	28.5	22.4	26.2	36.0	46.6	45.7	0.0	15.8
10	26.5	0.0	45.5	29.6	44.2	42.3	0.0	14.5
11	25.8	0.0	41.9	27.7	40.5	44.4	0.0	22.5
12	29.8	0.0	28.8	28.5	42.1	46.1	0.0	31.1
13	31.3	0.0	16.3	24.3	42.4	42.0	0.0	36.3
14	29.6	0.0	13.3	30.5	40.5	42.3	0.0	22.6
15	33.4	0.0	17.7	38.4	42.0	43.0	0.0	16.4
16	39.5	0.0	14.1	37.4	37.5	47.5	0.0	19.5
17	41.4	0.0	18.6	33.8	46.0	43.9	0.0	19.2
18	19.8	18.6	19.2	31.9	47.2	45.9	0.0	18.4
19	9.3	24.5	24.2	30.9	45.0	42.1	0.0	15.0
20	13.9	24.5	27.5	28.8	40.2	44.5	0.0	21.5
21	13.0	38.1	30.3	31.7	47.4	41.2	0.0	22.4
22	11.8	35.0	32.1	44.0	39.9	37.6	0.0	20.1
23	7.4	21.0	17.9	27.7	23.5	42.4	0.0	18.3
24	12.4	26.0	34.2	41.0	39.7	0.0	0.0	15.7
25	15.1	29.9	31.1	32.3	41.3	0.0	0.0	11.6
26	11.4	29.6	42.9	27.2	44.1	0.0	0.0	16.4
27	11.3	25.0	33.9	32.4	35.0	0.0	0.0	18.7
28	7.3	16.9	21.2	38.9	35.0	0.0	0.0	12.8
29	12.0	18.1	19.8	39.5	37.4	0.0	0.0	x
30	13.8	27.3	21.2	43.8	0.0	0.0	0.0	x
31	15	27	x	39	x	0	0.0	x

Date published	08/04/25	08/05/25	8/6/25	08/07/25	08/08/25	08/09/25		
Date	**Mar-25**	**Apr-25**	**May-25**	**June-25**	**July-25**	**Aug-25**		
1	14.8	14.7	25.0	14.7	0.0	21.9		
2	15.5	15.8	30.1	14.6	0.0	20.3		
3	16.5	14.5	35.0	14.3	0.0	20.7		
4	19.7	14.5	35.7	6.2	0.0	20.9		
5	15.1	18.6	29.6	13.3	0.0	24.5		
6	11.5	18.4	32.4	16.8	0.0	25.1		
7	13.6	13.1	25.3	16.8	0.0	26.5		
8	17.8	14.5	31.6	0.0	0.0	29.6		
9	18.0	23.4	0.0	0.0	26.1	30.7		
10	16.3	18.0	15.5	11.2	0.0	28.5		
11	17.1	19.2	16.9	20.8	0.0	28.0		
12	22.9	23.5	18.7	24.2	0.0	28.7		
13	16.4	0.0	17.9	17.7	0.0	26.2		
14	15.7	23.0	14.2	20.5	0.0	21.0		
15	13.9	0.0	12.1	14.2	0.0	0.0		
16	16.4	15.6	14.1	12.6	19.8	28.5		
17	15.3	18.5	13.4	13.9	19.3	39.2		
18	14.8	21.2	17.7	0.0	26.3	32.8		
19	12.6	24.9	16.0	20.3	22.4	0.0		
20	10.8	21.4	17.0	18.1	21.6	43.5		
21	11.6	21.8	13.8	17.1	20.4	13.5		
22	11.8	16.7	13.1	20.5	16.7	12.9		
23	0.0	21.0	12.4	19.5	23.6	15.6		
24	0.0	18.6	13.3	20.2	21.6	15.6		
25	0.0	32.1	13.9	0.0	24.9	17.6		
26	22.4	23.3	15.5	43.5	20.2	26.2		
27	19.9	25.2	14.9	26.5	21.1	24.5		
28	26.9	21.1	13.9	20.7	22.4	21.0		
29	17.5	14.1	13.2	17.5	17.5	34.9		
30	15.3	22.8	14.4	0.0	16.2	22.2		
31	13	x	15	x	18	22		

Compliance Summary: The cement plant is compliant with the Licence limits

Note: “0” emissions means that the kiln is not operating.

1.2 Annual Stack Monitoring

2024-25: Date of stack testing: 01/10/2024 - 02/10/2024; Report received: 06/02/2025; Date published: 08/03/2025

Assessable Parameter (milligrams per cubic metre)	Licence Limit	2024-25
Emission Source: Cement Mill No 6 Stack (EPA Identification No. 4)		
Solid Particles 'Duct A'	100	4.5
Solid Particles 'Duct B'	100	4.5
Emission Source: Kiln No 6 Cooler Stack (EPA Identification No. 5)		
Solid Particles	100	3.6
Emission Source: Cement Mill No 7 Stack (EPA Identification No. 10)		
Solid Particles	20	4

Emission Source: Kiln No 6 Stack (EPA Identification No.2)

2024-25: Date of stack testing: 08/10/2024 - 05/12/2024; Report received: 06/02/2025; Date published: 08/03/2025

Assessable Parameter (mg/m^3)	Units	Licence Limit	Oct 24
Mercury	mg/m3	0.05	<0.005
Type 1 +2 substances	mg/m3	0.5	<0.1
Solid Particles	mg/m3	50	44
Nitrogen Oxides	mg/m3	1250	730
Cadmium + Thalium	mg/m3	0.05	<0.0066
Chlorine	mg/m3	50	<0.05
Dioxins and furans (I-TEQ middle bound)	ng/m3	0.1	0.0013
Hydrogen chloride	mg/m3	10	0.73
Hydrogen Fluoride	mg/m3	1	0.16
Sulphur dioxide	mg/m3	50	<0.052
Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	50	0.13
Volatile Organic Compounds	mg/m3	40	1.2

Compliance summary: The cement plant is compliant with the Licence limits.

2. *Ambient air/dust monitoring*

2.1 Dust Deposition Gauges: Total Insoluble Matter (grams per square metre per month)

This test measures the levels of the coarse dust (generated mostly from unsealed roads, raw material handling, open stockpiles, etc.). It is a measure of dust *nuisance* (dust on cars, washing, window panes) in the immediate vicinity of the source, as the heavy dust settles quickly and doesn't travel far. It is not an indication of potential health problems as it doesn't penetrate into the respiratory system due to a large size of dust particles.

Licence limit: Not specified.
The NSW State guideline of 4 g/m^2/month (presented as 12-month rolling average) was adopted.

Note: Dust Gauges 4 and 6 were removed, and Dust Gauges 5 and 7 relocated closer to the boundary in December 2012.

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
Jan 2020 Report received: 18/12/19 Date published: 08/01/20	1.0	1.3	2.8	1.7	0.7	1.3	2.2
Feb 2020 Report received: 14/02/20 Date published: 08/03/20	1.2	1.7	2.6	1.9	0.8	1.6	2.6
March 2020 Report received: 13/03/20 Date published: 08/04/20	1.3	1.7	2.9	2.1	0.9	1.7	2.7
April 2020 Report received: 17/04/20 Date published: 08/05/20	1.2	1.7	2.9	2.0	0.8	1.6	2.5
May 2020 Report received: 17/05/20 Date published: 08/06/20	1.2	1.7	2.9	2.0	0.9	1.7	2.5
June 2020 Report received: 16/06/20 Date published: 08/07/20	1.2	1.6	3.1	1.9	0.8	1.7	2.5
July 2020 Report received: 16/06/20 Date published: 08/08/20	1.2	1.6	2.9	1.7	0.8	1.6	2.4
August 2020 Report received: 16/06/20 Date published: 08/09/20	1.2	1.7	3.5	1.9	0.9	1.7	2.5
September 2020 Report received: 18/09/20 Date published: 08/10/20	1.2	1.6	3.3	1.9	0.9	1.6	2.4
October 2020 Report received: 13/10/20 Date published: 08/11/20	1.1	1.6	2.9	1.7	0.9	1.5	2.2
November 2020 Report received: 13/11/20 Date published: 08/12/20	1.1	1.5	3.1	1.8	1.0	1.6	2.2

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
November 2020 Report received: 16/12/20 Date published: 08/01/21	1.0	1.5	3.3	1.9	1.0	1.6	2.1
December 2020 Report received: 16/01/21 Date published: 08/02/21	1.0	1.1	3.3	1.8	0.9	1.5	1.7
January 2021 Report received: 16/02/21 Date published: 08/03/21	0.8	0.7	3.1	1.8	0.8	1.2	1.2
February 2021 Report received: 12/03/21 Date published: 08/04/21	0.6	0.6	3.1	1.8	0.8	1.0	1.2
March 2021 Report received: 16/04/21 Date published: 08/05/21	0.6	0.6	3.0	1.6	0.9	1.0	1.1
April 2021 Report received: 12/05/21 Date published: 08/06/21	0.6	0.6	3.0	1.6	0.8	1.0	1.1
May 2021 Report received: 16/06/21 Date published: 08/07/21	0.6	0.6	2.8	1.7	0.9	0.9	1.1
June 2021 Report received: 14/07/21 Date published: 08/08/21	0.6	0.6	2.8	1.9	0.9	0.9	1.1
July 2021 Report received: 17/08/21 Date published: 08/09/21	0.5	0.6	2.3	1.7	0.8	0.8	1.0
August 2021 Report received: 13/09/21 Date published: 08/10/21	0.5	0.6	2.6	1.8	0.8	0.8	1.1
September 2021 Report received: 16/10/21 Date published: 08/11/21	0.5	0.6	2.6	1.9	0.8	0.8	1.1
October 2021 Report received: 18/11/21 Date published: 08/12/21	0.5	0.6	2.5	1.8	0.8	0.7	1.1
November 2021 Report received: 23/12/21 Date published: 08/01/22	0.5	0.5	2.8	1.8	0.8	0.7	1.2
December 2021 Report received: 21/01/22 Date published: 08/02/22	0.5	0.6	2.8	2.4	0.8	0.8	1.2
January 2022 Report received: 21/02/22 Date published: 08/03/22	0.5	0.5	2.8	2.3	0.8	0.7	1.1
February 2022 Report received: 05/04/22 Date published: 08/04/22	0.5	0.6	2.6	2.1	0.6	0.7	0.9
March 2022 Report received: 21/04/22	0.5	0.6	2.5	2.1	0.5	0.7	1.1

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
Date published: 08/05/22							
April 2022 Report received: 19/05/22 Date published: 08/06/22	0.5	0.6	2.5	2.1	0.5	0.6	1.1
May 2022 Report received: 29/06/22 Date published: 08/07/22	0.5	0.7	2.5	1.9	0.5	0.7	1.1
June 2022 Report received: 20/07/22 Date published: 08/08/22	0.6	0.7	2.7	1.7	0.6	0.6	1.3
July 2022 Report received: 16/08/22 Date published: 08/09/22	0.6	0.8	2.7	1.6	0.6	0.6	1.3
August 2022 Report received: 15/09/22 Date published: 08/10/22	0.6	0.8	2.6	1.4	0.5	0.6	1.4
September 2022 Report received: 18/10/22 Date published: 08/11/22	0.7	1.0	3.1	1.4	0.6	0.6	1.4
October 2022 Report received: 16/11/22 Date published: 08/12/22	0.7	1.2	3.2	1.6	0.7	0.6	1.4
November 2022 Report received: 21/12/22 Date published: 08/01/23	0.8	1.2	2.9	1.5	0.8	0.6	1.4
December 2022 Report received: 19/01/23 Date published: 08/02/23	0.9	1.0	2.9	1.2	0.8	0.6	1.5
January 2023 Report received: 15/02/23 Date published: 08/03/23	0.9	1.0	3.0	1.3	0.8	0.6	1.5
February 2023 Report received: 20/03/23 Date published: 08/04/23	1.0	1.0	3.1	1.4	0.9	0.6	1.6
March 2023 Report received: 19/04/23 Date published: 08/05/23	1.0	1.0	3.4	1.4	1.0	0.6	1.5
April 2023 Report received: 18/05/23 Date published: 08/06/23	1.1	1.0	3.5	1.4	1.0	0.6	1.5
May 2023 Report received: 21/06/23 Date published: 08/07/23	1.1	1.0	3.5	1.5	1.0	0.6	1.5
June 2023 Report received: 21/07/23 Date published: 08/08/23	1.1	1.0	3.6	1.5	1.0	0.6	1.3
July 2023 Report received: 22/08/23 Date published: 08/09/23	1.4	1.0	3.6	1.5	1.0	0.6	1.2

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
August 2023 Report received: 20/09/23 Date published: 08/10/23	1.9	1.0	3.8	1.6	1.1	0.6	1.2
September 2023 Report received: 20/10/23 Date published: 08/11/23	1.9	1.0	3.5	1.6	1.2	0.6	1.1
October 2023 Report received: 20/11/23 Date published: 08/12/23	1.9	1.0	3.7	1.4	1.1	0.6	1.2
November 2023 Report received: 20/12/23 Date published: 08/01/24	2.0	1.0	3.6	1.4	1.1	0.6	1.2
December 2023 Report received: 18/01/24 Date published: 08/02/24	1.9	1.0	3.5	1.3	1.1	0.6	0.9
January 2024 Report received: 20/02/24 Date published: 08/03/24	1.9	1.0	3.5	1.2	1.1	0.6	0.9
February 2024 Report received: 18/03/24 Date published: 08/04/24	2.0	1.0	3.5	1.1	1.1	0.6	0.9
March 2024 Report received: 17/04/24 Date published: 08/05/24	2.0	1.0	3.3	1.3	1.1	0.6	0.8
April 2024 Report received: 18/05/24 Date published: 08/06/24	1.9	1.0	3.2	1.2	1.1	0.6	0.7
May 2024 Report received: 25/06/24 Date published: 08/07/24	2.0	1.0	3.3	1.2	1.1	0.6	0.6
June 2024 Report received: 24/07/24 Date published: 08/08/24	2.1	1.0	2.9	1.2	1.2	0.7	0.6
July 2024 Report received: 19/08/24 Date published: 08/09/24	1.6	1.0	2.9	1.2	1.1	0.8	0.7
Aug 2024 Report received: 24/09/24 Date published: 08/10/24	1.4	1.0	2.9	1.2	1.0	0.9	0.7
Sep 2024 Report received: 25/10/24 Date published: 08/11/24	1.4	1.0	3.0	1.2	1.1	1.0	0.8
Oct 2024 Report received: 11/11/24 Date published: 08/12/24	1.3	1.0	2.9	1.2	0.9	1.0	0.7
Nov 2024 Report received: 17/12/24 Date published: 08/01/25	1.4	1.0	2.9	1.3	1.1	1.1	0.8
Dec 2024 Report received: 17/01/25	1.4	1.0	2.9	1.3	1.2	1.2	0.9

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
Date published: 08/02/25							
Jan 2025 Report received: 18/02/25 Date published: 08/03/25	1.4	1.0	2.8	1.3	1.1	1.2	1.0
Feb 2025 Report received: 15/03/25 Date published: 08/04/25	1.2	1.0	2.8	1.4	1.1	1.2	0.9
Mar 2025 Report received: 14/04/25 Date published: 08/05/25	1.1	1.0	2.8	1.4	1.0	1.2	1.1
Apr 2025 Report received: 19/05/25 Date published: 08/06/25	1.1	1.0	2.7	1.5	1.1	1.1	1.3
May 2025 Report received: 19/06/25 Date published: 08/07/25	1.0	1.0	2.5	1.5	1.1	1.1	1.5
June 2025 Report received: 18/07/25 Date published: 08/08/25	0.8	1.0	2.8	1.6	0.9	1.1	1.6
July 2025 Report received: 19/08/25 Date published: 08/08/25	0.7	1.0	2.7	1.6	0.9	1.1	1.8

Compliance Summary: The cement plant is compliant with the adopted State guideline value.

2.2 High Volume Air Sampling: Total Suspended Particulates (TSP) and PM_{10}

This test measures the levels of the fine dust suspended in the air (generated mostly from stack emissions). It is a measure of potential *health effects* (irritation of the respiratory track) as the small particles can penetrate into the airways and the lungs. Fine dust can persist in the atmosphere for days or even months before it settles and can travel some distance.

Licence limits: Not specified. Samples are collected every 6 days. Occasionally equipment failure or weather can impact sampling. Where reasonably practicable additional samples are collected to make up any missed samples are per the sites Air Quality Management Plan.
The following guideline values were adopted:

- TSP: 90 micrograms per cubic metre (annual rolling average) - NSW State guideline
- PM_{10}: 50 micrograms per cubic metre (daily average)

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
5/11/2021	13/12/21	08/01/22	29.5	2.8
11/11/2021			29.5	4.5
17/11/2021			29.3	6.5
23/11/2021			29.2	4.3
29/11/2021			28.5	10.8
5/12/2021	21/01/22	08/02/22	27.9	5
11/12/2021			25.9	2.8
17/12/2021			25.4	8.6
23/12/2021			24.9	2.8
29/12/2021			24.9	0.1
04/01/2022	21/02/22	08/03/22	24.6	1.4
10/01/2022			24.2	3.5
16/01/2022			24.3	9.3
22/01/2022			24.3	1.4
28/01/2022			23.2	4.7
03/03/2022	14/03/22	08/04/22	23.0	1.4
09/03/2022			23.0	4.9
11/03/2022	29/04/22	08/05/22	23.2	1.4
17/03/2022			22.8	4.4
20/03/2022			22.8	4.2
23/03/2022			23.0	10.4
24/03/2022			23.0	0.8
29/03/2022			23.3	0.1
04/04/2022	18/05/22	08/06/22	23.6	4.7
10/04/2022			23.6	4.8
12/04/2022			23.6	1.9
16/04/2022			23.4	1.3
22/04/2022			22.7	1.6
28/04/2022			22.0	3.9
04/05/2022	15/06/22	08/07/22	22.4	9.3
10/05/2022			21.6	1.3
16/05/2022			21.0	3.5
22/05/2022			20.7	3.8
28/05/2022			20.7	1.5

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
03/06/2022	14/07/22	08/08/22	20.7	3.5
09/06/2022			21.1	7.4
15/06/2022			21.2	5.6
21/06/2022			21.5	8.1
27/06/2022			21.5	0.2
03/07/2022	12/08/22	08/09/22	21.4	0.1
09/07/2022			21.1	0.7
15/07/2022			21.1	3.6
21/07/2022			20.9	1.2
27/07/2022			19.3	0.1
02/08/2022	12/08/22	08/10/22	19.7	8.1
08/08/2022			19.6	0.1
14/08/2022			19.4	1.8
20/08/2022			19.5	0.2
26/08/2022			19.0	0.5
1/09/2022	16/10/22	08/11/22	18.9	7.2
7/09/2022			18.9	3.6
13/09/2022			18.8	1.7
19/09/2022			18.9	3.3
25/09/2022			18.4	2.5
1/10/2022	16/11/22	08/12/22	17.6	0.8
7/10/2022			16.9	1.5
13/10/2022			16.9	0
19/10/2022			16.7	7.6
25/10/2022			16.7	0.1
31/10/2022			17.5	21.7
06/11/2022	23/12/22	08/01/23	17.5	5.5
12/11/2022			17.5	5.6
18/11/2022			17.8	0.1
24/11/2022			18.1	0.1
30/11/2022			17.9	11.8
06/12/2022	24/01/23	08/02/23	18.3	12
12/12/2022			19.2	22.4
18/12/2022			19.0	2.1
24/12/2022			19.5	8.3
30/12/2022			19.1	3
05/01/2023	15/02/23	08/03/23	19.1	3.8
11/01/2023			19.3	7.7
17/01/2023			19.5	5.7
23/01/2023			19.6	5.6
29/01/2023			19.8	11.8
4/02/2023	20/03/23	08/04/23	20.2	9.1
10/02/2023			20.4	9.6
16/02/2023			20.6	14.4
22/02/2023			20.6	6.5
28/02/2023			20.6	8.1
6/03/2023	21/04/23	08/05/23	21.2	23.7
8/03/2023			21.3	24.3
12/03/2023			21.4	10.2
14/03/2023			21.8	3.6
18/03/2023			21.8	12.9

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
21/03/2023			21.4	5.7
24/03/2023			21.4	4.4
28/03/2023			21.1	11.1
5/04/2023			21.1	5.3
11/04/2023			21.3	5.6
17/04/2023	16/05/23	08/06/23	21.2	6.4
23/04/2023			21.1	3.7
29/04/2023			21.3	7.1
5/05/2023			21.8	13.3
11/05/2023			21.6	9.7
17/05/2023	15/06/23	08/07/23	21.7	3.2
23/05/2023			21.9	9.4
29/05/2023			22.1	3.1
4/06/2023			22.1	2.5
10/06/2023			21.7	2.4
16/06/2023	13/07/23	08/08/23	21.2	1.9
22/06/2023			20.9	6
28/06/2023			20.1	0.5
4/07/2023			20.1	0.7
10/07/2023			20.2	0.1
16/07/2023	15/08/23	08/09/23	20.5	5.3
22/07/2023			20.3	3.1
28/07/2023			21.3	19.7
3/08/2023			21.8	35.2
9/08/2023			22.2	52.1
15/08/2023	21/09/23	08/10/23	22.5	20.3
21/08/2023			22.5	12.6
27/08/2023			22.6	21.6
2/09/2023			22.7	0.5
8/09/2023			22.6	3.8
14/09/2023	25/10/23	08/11/23	23.1	18.7
20/09/2023			23.1	4.1
26/09/2023			23.3	10.3
2/10/2023			24.0	15.8
8/10/2023			24.2	1.6
14/10/2023	13/11/23	08/12/23	24.5	1.9
20/10/2023			24.7	8
26/10/2023			24.8	8.2
1/11/2023			25.1	7.9
7/11/2023			24.2	4.6
13/11/2023	08/12/23	08/01/24	24.6	10.3
19/11/2023			24.7	11
25/11/2023			24.9	12
1/12/2023			25.1	3.6
7/12/2023			25.6	21.2
13/12/2023		08/02/24	25.7	18.4
19/12/2023			25.4	25.7
25/12/2023			25.4	4.1
31/12/2023	18/01/24		25.0	5
6/01/2024	16/02/24	08/03/24	25.1	7.6
12/01/2024			25.2	5.9

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
18/01/2024			25.4	12.7
24/01/2024			25.8	17.1
30/01/2024			25.9	9.4
5/02/2024	16/03/24	08/04/24	25.8	10.3
11/02/2024			25.7	8.1
17/02/2024			25.5	6.8
23/02/2024			26.1	16.8
29/02/2024			26.6	17.5
6/03/2024	22/04/24	08/05/24	26.8	12.9
12/03/2024			26.5	14.6
18/03/2024			26.3	3.1
24/03/2024			26.1	6.2
30/03/2024			26.3	11.8
5/04/2024	17/05/24	08/06/24	25.8	2
11/04/2024			25.6	5
17/04/2024			25.7	8.1
23/04/2024			25.9	10.5
29/04/2024			26.1	7.4
5/05/2024	18/06/24	08/07/24	25.9	0.6
11/05/2024			25.7	3.8
17/05/2024			25.7	7
23/05/2024			26.1	7.5
29/05/2024			26.5	10.6
4/06/2024	26/07/24	08/08/24	25.9	3.6
10/06/2024			25.7	5.5
16/06/2024			25.6	0.3
22/06/2024			25.2	2.4
28/06/2024			25.5	8.2
4/07/2024	14/08/24	08/09/24	25.5	3.6
10/07/2024			25.6	5.5
16/07/2024			25.5	0.3
22/07/2024			25.3	2.4
28/07/2024			25.7	8.2
3/08/2024	16/09/24	08/10/24	26.1	5.1
9/08/2024			26.5	7.2
15/08/2024			26.3	3.9
21/08/2024			26.8	12.8
27/08/2024			27.0	18
2/09/2024	18/10/24	08/11/24	27.3	22.8
8/09/2024			27.0	6
14/09/2024			27.2	1.9
20/09/2024			27.4	7.3
26/09/2024			27.3	1.5
2/10/2024	18/11/24	08/12/24	27.3	6.4
8/10/2024			27.3	2.3
14/10/2024			27.1	7.8
20/10/2024			27.1	2.7
26/10/2024			26.9	1.4
1/11/2024	18/12/24	08/01/25	26.6	2.4
7/11/2024			27.7	27.2
13/11/2024			27.6	3.1

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
19/11/2024			27.6	6.5
25/11/2024			28.9	18.2
1/12/2024	23/01/25	08/02/25	29.1	9.5
7/12/2024			29.7	11.3
13/12/2024			30.0	14.6
19/12/2024			29.7	4.4
25/12/2024			29.5	4.9
31/12/2024			29.3	7.7
6/01/2025	24/02/25	08/03/25	28.5	5.9
12/01/2025			28.0	5.7
18/01/2025			27.0	1.6
24/01/2025			26.9	1.6
30/01/2025			26.6	4.5
5/02/2025	20/03/25	08/04/25	26.8	10.2
11/02/2025			26.7	2.7
17/02/2025			26.5	1.7
23/02/2025			26.1	5.5
1/03/2025	24/04/25	08/05/25	26.7	17.8
7/03/2025			26.4	1
13/03/2025			26.6	5.1
19/03/2025			26.7	8.2
25/03/2025			26.0	1.6
31/03/2025			25.3	0.1
6/04/2025	22/05/25	08/06/25	25.5	10.3
12/04/2025			25.2	6.1
18/04/2025			25.3	2.9
24/04/2025			25.2	1
30/04/2025			24.7	0.1
6/05/2025	01/07/25	08/07/25	25.2	9.5
12/05/2025			25.1	0.1
18/05/2025			24.9	0.1
24/05/2025			24.6	2.3
30/05/2025			24.7	2.8
5/06/2025	27/07/25	08/08/25	24.8	0.6
11/06/2025			24.9	0.1
17/06/2025			25.6	13.0
23/06/2025			26.2	11.6
29/06/2025			26.1	2.0
5/07/2025	02/09/25	08/09/25	26.1	3.3
11/07/2025			26.1	1.2
17/07/2025			26.5	4.9
23/07/2025			26.7	4.2
29/07/2025			26.4	2.0

Compliance Summary:

The plant is compliant with the adopted guideline values.
HVAS was relocated on 18th February 2018.
High values for PM10 recorded during the month of December 2019 due to bush fires.
PM10 monitoring restricted during February 2022 due to wet weather preventing access.

3. Water monitoring

Runoff water from the cement works and surrounding agricultural land is captured in various storage dams on site and used as process water. In heavy rain, excess stormwater from the dam called “Lake Quality” is allowed to overflow into the Wingecarribee River. The quality of that water is required by the licence to be monitored once per overflow event. The licence specifies the parameters to be monitored, but does not specify any limits for these parameters.

Licence limits: Not specified.
The NSW State guidelines: Typical discharge limits are as follows:
Biological Oxygen Demand: 20 milligrams per litre
pH: 6.5-8.5
Oil and Grease: 10 milligrams per litre
Total Suspended Solids: 30-50 milligrams per litre

Sampling Date	Report received	Date published	Biological Oxygen Demand (milligrams per litre)	pH	Oil and Grease (milligrams per litre)	Total Suspended Solids (milligrams per litre)
27/02/18	06/03/18	08/03/18	<2	8.6	<5	26
15/12/18	31/12/18	08/01/19	<2	8.8	<5	24
19/03/19	27/03/19	08/04/19	<2	7.4	<5	30
10/02/20	18/02/20	08/03/20	<2	9.0	<5	26
14/02/20	26/02/20	08/03/20	2	8.9	<5	21
27/07/20	04/08/20	08/09/20	2	9.3	<5	72
11/08/20	18/08/20	08/09/20	2	8.0	<5	19
02/11/20	09/11/20	08/12/20	3	8.4	<5	13
23/03/21	30/03/21	08/04/21	2	8.1	<5	10
06/04/21	13/04/21	08/05/21	3	8.5	<5	8
05/05/21	12/05/21	08/06/21	<2	8.4	<5	15
26/08/21	03/09/21	08/09/21	<2	8.7	<5	44
14/10/21	22/10/21	08/11/21	3	8.1	<5	6
12/11/21	19/11/21	08/12/21	<2	8.5	<5	32
22/11/21	29/11/21	08/12/21	2	8.2	<5	13
10/12/21	17/12/21	08/01/22	4	8.3	<5	23
23/02/22	04/03/22	08/03/22	<2	7.9	<5	11
08/03/22	15/03/22	08/03/22	4	7.9	<5	18
06/07/22	15/07/22	08/08/22	3	8.2	<5	18
14/11/22	21/11/22	08/12/22	<2	8.3	<5	22
20/02/24	28/02/24	08/03/24	3	8.3	<5	<5
08/04/24	17/04/24	08/05/24	<2	8.2	<5	10
14/05/24	24/05/24	08/06/24	5	8.2	<5	<5
06/06/24	18/06/24	08/07/24	5	8.5	17	30
02/05/25	13/05/25	08/06/25	<2	7.9	<5	<5
27/05/25	03/06/25	08/06/25	4	8.1	<5	<5
01/08/25	18/09/25	18/09/25	<2	8.3	<5	<5

Compliance summary: Lake Quality’s overflow generally meets the typical NSW discharge criteria. Occasionally, an exceedance of pH may occur in the overflow due to alkaline nature of raw materials and products handled on site.

4. Noise monitoring

The Annual Noise Monitoring Reports by Recognition Research are being uploaded to the Berrima webpage in their entirety.

In the Summary and Conclusions of each Annual Report, Recognition Research confirm that Berrima Cement Works “is in compliance with its licence conditions for noise”.

REPORT ENDS