Building something great

Environmental Monitoring Report

Berrima Cement

November 2026

Date Published: 18th November 2026

This monitoring report is to satisfy the requirements of Section 66 (6) of the Protection of the Environment and Operations Act 1997, to make available, within 14 days of request, any monitoring data that relates to pollution under an Environment Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 1698 (EPL 1698 – Boral Berrima Cement)

This report provides environmental monitoring data for Boral Berrima Cement for the period May 2022 to November 2026.

Berrima Cement Information	
Premise Details	Boral Berrima Cement
Address	Taylor Avenue Berrima, NSW
Licensee	Boral Cement
EPL N°	1698
EPL Location	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx

Monitoring data in this report relates to the monitoring undertaken for the Licence Period 1 May 2026 to the 30th April 2027 for the following environmental pollutants:

- Continuous Stack emissions
- Annual Stack monitoring
- Deposited Dust
- Dust PM10
- Dust TSP
- Water discharge
- Noise

Previous Years reporting can be found in the Appendices of this report.

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. Air Quality

Air Quality Monitoring is conducted as per condition M2 of EPL 1698.
Air monitoring at Berrima Cement includes

- Continuous Emission monitoring on #6 Kiln Stack
- Annual stack emission monitoring
- Dust deposition gauges
- High Volume air sampling for PM10 and
- Real time dust monitoring.

The following section is divided into each of the required monitoring and the associated EPL monitoring point. The location of the monitoring points is shown in the map below.
The results for the current licence period 1st May 2026 to 30th April 2027 are included below. Results for the previous 4 licence periods can be found in Appendices 1 to 7.



1.1 Point Source Monitoring

1.1.1 Continuous Stack Monitoring - Licence Period 1st May 2026 to 30th April 2027

Monitoring for the past 4 years prior to May 2026 (Current Licence Period) can be found in Appendix 1.
Note there are different Nitrous Oxide limits for the production of Grey and Off-White Clinker.
These are included in the table below.

1.1.1A: Monitoring Location: EPL Identification #4 Cement Kiln Stack #6

EPL Identification #4 Monitoring data with Limit conditions

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
October 2026 Date Published: 08/11/2026	Nitrous Oxides	mg/m3	Continuous	Continuous	557	937	1000 (grey) 1250 (off-white) (24hour)	Yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	249	1224	1250 (grey) 1500 (off-white) (1hour)	Yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.01	0.44	10 (1hour)	Yes
	Solid Particles	mg/m3	Continuous	Continuous	17	46	50 (24hour)	Yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	32	50 (1hour block)	Yes
	VOCs	Parts/million	Continuous	Continuous	0.1	25.3	40 (1hour rolling)	Yes
September 2026 Date Published: 27/10/26	Nitrous Oxides	mg/m3	Continuous	Continuous	542	902	1000 (grey) 1250 (off-white) (24hour)	Yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	403	1166	1250 (grey) 1500 (off-white) (1hour)	Yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.13	0.89	10 (1hour)	Yes
	Solid Particles	mg/m3	Continuous	Continuous	13	42	50 (24hour)	Yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.14	2.1	50 (1hour block)	Yes
	VOCs	Parts/million	Continuous	Continuous	0.17	19.9	40 (1hour rolling)	Yes
August 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	530	929	1000 (grey) 1250 (off-white) (24hour)	Yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	463	1152	1250 (grey) 1500 (off-white) (1hour)	Yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.15	0.68	10 (1hour)	Yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
	Solid Particles	mg/m3	Continuous	Continuous	10	45	50 (24hour)	Yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.2	24.3	50 (1hour block)	Yes
	VOCs	Parts/million	Continuous	Continuous	0.2	15.3	40 (1hour rolling)	Yes
July 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	662	982	1000 (grey) 1250 (off-white) (24hour)	Yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	375	1148	1250 (grey) 1500 (off-white) (1hour)	Yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.13	0.95	10 (1hour)	Yes
	Solid Particles	mg/m3	Continuous	Continuous	14	44	50 (24hour)	Yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	22.5	50 (1hour block)	Yes
	VOCs	Parts/million	Continuous	Continuous	0.5	25.5	40 (1hour rolling)	Yes
June 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	632	973	1000 (grey) 1250 (off-white) (24hour)	Yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	418	1101	1250 (grey) 1500 (off-white) (1hour)	Yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.14	0.58	10 (1hour)	Yes
	Solid Particles	mg/m3	Continuous	Continuous	14	33	50 (24hour)	Yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	32	50 (1hour block)	Yes
	VOCs	Parts/million	Continuous	Continuous	7.1	20.1	40 (1hour rolling)	Yes
May 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	590	918	1000 (grey) 1250 (off-white) (24hour)	Yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	482	1081	1250 (grey) 1500 (off-white) (1hour)	Yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.13	0.78	10 (1hour)	Yes
	Solid Particles	mg/m3	Continuous	Continuous	16	40	50 (24hour)	Yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	27	50 (1hour block)	Yes
	VOCs	Parts/million	Continuous	Continuous	0.2	22.5	40 (1hour rolling)	Yes

Results commentary: Commentary will be provided here for any non-compliant results.

EPL Identification #4 Monitoring data with no limits

Sampling Period	Pollutant	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
October 2026 Date Published 08/11/2026	Carbon Dioxide	%	Continuous	Continuous	13.21	15.71	15.78	23.34
	Carbon Monoxide	%	Continuous	Continuous	0.01	0.04	0.04	0.1
September 2026 Date Published 27/10/20	Carbon Dioxide	%	Continuous	Continuous	12.45	15.44	15.48	18.58
	Carbon Monoxide	%	Continuous	Continuous	0.01	0.03	0.04	0.07
August 2026	Carbon Dioxide	%	Continuous	Continuous	13.7	17.0	17.1	20.6
	Carbon Monoxide	%	Continuous	Continuous	0.024	0.038	0.037	0.065
July 2026	Carbon Dioxide	%	Continuous	Continuous	12.9	15.62	15.64	17.3
	Carbon Monoxide	%	Continuous	Continuous	0.003	0.029	0.031	0.063
June 2026	Carbon Dioxide	%	Continuous	Continuous	12	16.78	16.81	18.7
	Carbon Monoxide	%	Continuous	Continuous	0.011	0.04	0.038	0.09
May 2026	Carbon Dioxide	%	Continuous	Continuous	13.7	15.49	15.51	17.3
	Carbon Monoxide	%	Continuous	Continuous	0.028	0.046	0.046	0.062

NOTE 1: Carbon Dioxide stack measurements in % are not related to the National Greenhouse Energy Reporting and calculation requirements.

NOTE 2: It is a requirement of EPL 1689 that Temperature, Volumetric flowrate, velocity and Oxygen are to be measured continuously at the Cement Kin Stack #6 (EPL Identification #4). The EPA 's guidelines for "requirements for publishing Pollution monitoring data" (2012), Section 3.2 Providing Meaningful information, recognises "that publishing large amounts of monitoring data will not necessarily provide meaningful information for the public" and that "what is a meaningful summary will vary depending on the pollutant, the specifics of the monitoring requirement and any related limit conditions that specify the environmental performance the licensee is obliged to meet. Further it identifies that" Licensees will need to use their own judgement and cat in good faith to ensure the information provided is meaningful."
To this end, Temperature, Volumetric flowrate, velocity and Oxygen have no limit conditions and are monitored as part of the operational processes and are therefore not published in this report. The information however is available on request.

1.1.2: Monitoring Location: EPL Identification # 19 Calciner

NOTE 3: It is a requirement of EPL 1689 that Temperature is to be measured continuously at the Calciner (EPL Identification #19). The EPA 's guidelines for "requirements for publishing Pollution monitoring data" (2012), Section 3.2 Providing Meaningful information, recognises "that publishing large amounts of monitoring data will not necessarily provide meaningful information for the public" and that "what is a meaningful summary will vary depending on the pollutant, the specifics of the monitoring requirement and any related limit conditions that specify the environmental performance the licensee is obliged to meet.

Further it identifies that" Licensees will need to use their own judgement and cat in good faith to ensure the information provided is meaningful."

To this end, even though temperature has a limit of 850 degrees Celsius and is monitored, the temperature is in relation to the operational processes and is therefore not published in this report. The information however is available on request.

1.1.2 Annual Stack Monitoring - Licence Period 1st May 2026 to 30th April 2027

Monitoring for the past 4 years prior to May 2026 (Current Licence Period) can be found in Appendix 2.

No stack tests results received during the reporting period.

1.1.2A: Monitoring Location: **EPL Identification #4** **Cement Kiln Stack #6**

Report received: 13/08/2026; Date published: 27/10/2026

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
6/7/26 to 8/7/26 (July 2026)	Mercury	mg/m3	Annual	0.00067	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	< 0.076	0.5	Yes
	Solid Particles	mg/m3	Annual	40	50	yes
	Nitrogen Oxides	mg/m3	Annual	750	1250	yes
	Cadmium + Thalium	mg/m3	Annual	< 0.004	0.05	yes
	Chlorine	mg/m3	Annual	3.7	50	yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.022	0.1	yes
	Hydrogen chloride	mg/m3	Annual	0.44	10	yes
	Hydrogen Fluoride	mg/m3	Annual	0.07	1	yes
	Sulphur dioxide	mg/m3	Annual	< 7	50	yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	< 0.08	50	yes
	Volatile Organic Compounds	mg/m3	Annual	3.6	40	yes

NOTE 4: It is a requirement of EPL 1689 that Dry gas density, moisture content, Molecular weight of stack gases, Temperature, Volumetric flowrate, velocity and Oxygen are to be measured on a 6 monthly basis as a stack test at the Cement Kin Stack #6 (EPL Identification #4). The EPA 's guidelines for "requirements for publishing Pollution monitoring data" (2012), Section 3.2 Providing Meaningful information, recognises "that publishing large amounts of monitoring data will not necessarily provide meaningful information for the public" and that "what is a meaningful summary will vary depending on the pollutant, the specifics of the monitoring requirement and any related limit conditions that specify the environmental performance the licensee is obliged to meet.
Further it identifies that" Licensees will need to use their own judgement and cat in good faith to ensure the information provided is meaningful."
To this end, Dry gas density, moisture content, Molecular weight of stack gases, Temperature, Volumetric flowrate, velocity and Oxygen have no limit conditions and are monitored as part of the operational processes and are therefore not published in this report. The information however is available on request.

1.1.2B Monitoring Location EPL Identification #4 Cement Kiln Stack #6

Annual Stack testing for the current licence period is planned for November 2026.
Results for the previous stack testing conducted in November 2025 are included below.
Results for the previous licence period are in Appendix 2.

Report received: 14/3/2026 Date published: 8/4/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
13/11/2025	Solid Particles 'Duct A'	mg/m3	Annual	<2.2	100	yes
13/11/2025	Solid Particles 'Duct B'	mg/m3	Annual	<2.2	100	yes

1.1.2C Monitoring Location EPL Identification #5 : Kiln No 6 Cooler Stack

Annual Stack testing for the current licence period is planned for November 2026.
Results for the previous stack testing conducted in November 2025 are included below.
Results for the previous licence period are in Appendix 2.

Report received: 14/3/2026 Date published: 8/4/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
13/11/2025	Solid Particles	mg/m3	Annual	12	100	Yes

1.1.2D Monitoring Location EPL Identification #10 : Cement Mill No 7 Stack

Annual Stack testing for the current licence period is planned for November 2026.
Results for the previous stack testing conducted in November 2025 are included below
Results for the previous licence period are in Appendix 2.

Report received: 14/3/2026 Date published: 8/4/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
13/11/2025	Solid Particles	mg/m3	Annual	12	20	yes

1.1.1E Monitoring Location EPL Identification #7 : Cement Mill No 5 Stack

Due to operations in the Cement Mills, #5 stack is no longer in use.

1.2 Ambient Monitoring

1.2.1 Dust Deposition Monitoring - Licence Period 1st May 2026 to 30th April 2027

Coarse Dust particles are monitored via Dust deposition gauges, located at sites adjacent to the boundary. This monitoring method collects any windblown dust from the area and is not specific to Berrima Cement operations. The dust deposition data allows trends to be determined that are occurring in the environment. These samples are collected on a monthly basis.

There is no licence limit, however, the NSW State guideline of 4 g/m^2/month (presented as 12-month rolling average) is used to assess performance.

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

Monitoring for the past 4 years prior to May 2026 (Current Licence Period) can be found in Appendix 3.

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
May 2026 Report received: 18/06/26 Date published: 08/07/26	0.5	1.0	2.9	1.9	0.7	1.3	1.8
June 2026 Report received: 15/07/26 Date published: 08/08/26	0.5	1.0	2.7	2.3	0.8	1.3	1.7
July 2026 Report received: 27/08/26 Date published: 08/09/26	0.6	1.0	3.2	2.3	0.8	1.5	1.8
August 2026 Report received: 14/09/26 Date published: 08/10/26	0.5	1.0	3.5	2.4	0.9	1.5	1.7
September 2026 Report received: 15/10/26 Date published: 08/11/26	0.6	1.0	3.4	2.4	1.0	1.7	1.6

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

1.2.2 High Volume Air Sampler - Licence Period 1st May 2026 to 30th April 2027

PM10 and Total Suspended Particulates are monitored with a High-Volume Air Sampler.

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.

There is no licence limit, however, the following guideline values are used to assess performance.:

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

Monitoring for the past 4 years prior to May 2026 (Current Licence Period) can be found in Appendix 4.

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
1/05/2026	23/06/26	08/07/26	32.0	2.4
7/05/2026			31.7	3.7
13/05/2026			31.4	0.9
19/05/2026			31.2	0.7
25/05/2026			31.2	1.2
31/05/2026			31.4	1.1
6/06/2026	23/07/26	08/08/26	30.9	1.5
12/06/2026			31.1	2.5
18/06/2026			32.4	13.5
24/06/2026			32.4	3.7
30/06/2026			31.9	1.2
6/07/2026	18/08/26	08/09/26	31.9	1
12/07/2026			32.0	3.3
18/07/2026			31.2	2.3
24/07/2026			30.4	3.2
30/07/2026			30.3	2.7
5/08/2026	21/09/26	08/10/26	30.4	2
11/08/2026			30.4	3.8
17/08/2026			30.1	1.7
23/08/2026			30.4	4
29/08/2026			31.3	7.2
4/09/2026	16/10/26	08/11/26	31.4	1
10/09/2026			32.3	18.4
16/09/2026			32.3	4.3
22/09/2026			32.5	4.2
28/09/2026			32.5	8.5

Compliance Summary:
The plant is compliant with the adopted guideline values.

1.2.3 Real Time Monitoring - Licence Period 1st May 2026 to 30th April 2027

Real Time dust monitors were installed and became operational in December 2025. Four monitors are operational and monitor PM10 continuously, allowing operations to respond to any changes in increasing dust levels, where possible.

There is no licence limit, however Boral have established trigger levels at which responses are required by operations. These are a PM10 1 hour average of 80mg/m3 trigger for action and PM10 24 hr average of 50mg/m3 goal.

Monitoring for the past 4 months prior to May 2026 (Current Licence Period) can be found in Appendix 5.

Location 1

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
October 2026 Date Published 8/11/2026	PM10	ug/m3	Continuous	Continuous	1.96	7.19	5.44	18.78
September 2026 Date Published 27/10/26	PM10	ug/m3	Continuous	Continuous	3.22	10.08	9.44	21.21
August 2026	PM10	ug/m3	Continuous	Continuous	2.72	5.55	4.88	10.15
July 2026	PM10	ug/m3	Continuous	Continuous	0.68	5.89	5.61	11.54
June 2026	PM10	ug/m3	Continuous	Continuous	1.42	4.51	4.09	10.75
May 2026	PM10	ug/m3	Continuous	Continuous	2.57	6.32	5.13	21.99

Location 2

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
October 2026 Date Published 8/11/2026	PM10	ug/m3	Continuous	Continuous	3.27	7.72	7.31	13.57
September 2026 Date Published 27/10/26	PM10	ug/m3	Continuous	Continuous	3.95	7.87	7.15	17.05
August 2026	PM10	ug/m3	Continuous	Continuous	2.18	5.39	4.84	10.56
July 2026	PM10	ug/m3	Continuous	Continuous	2.26	5.6	4.93	13.91
June 2026	PM10	ug/m3	Continuous	Continuous	1.09	2.92	3	6.24
May 2026	PM10	ug/m3	Continuous	Continuous	1.79	5.23	4.51	15.57

Location 3

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
October 2026 Date Published 8/11/2026	PM10	ug/m3	Continuous	Continuous	2.36	4.14	3.65	7.92
September 2026 Date Published 27/10/26	PM10	ug/m3	Continuous	Continuous	2.13	4.49	4.13	8.35
August 2026	PM10	ug/m3	Continuous	Continuous	1	3.33	2.96	6.69
July 2026	PM10	ug/m3	Continuous	Continuous	0.25	3.36	2.72	7.51
June 2026	PM10	ug/m3	Continuous	Continuous	1.16	2.53	2.55	4.19
May 2026	PM10	ug/m3	Continuous	Continuous	2.12	7.13	9.59	9.59

Location 4

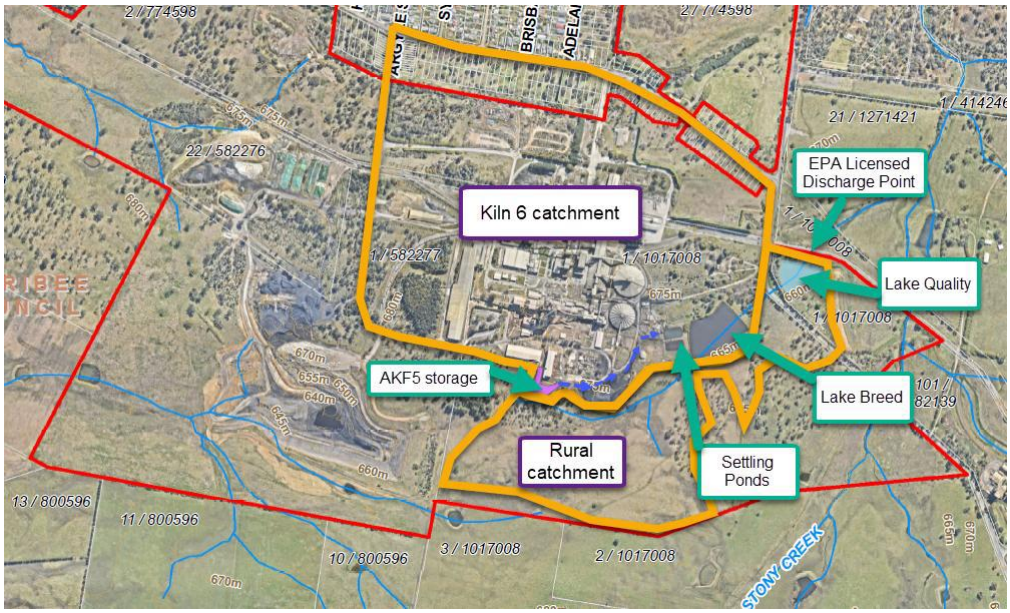
Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
October 2026 Date Published 8/11/2026	PM10	ug/m3	Continuous	Continuous	4.93	10.28	9.01	22.85
September 2026 Date Published 27/10/26	PM10	ug/m3	Continuous	Continuous	6.47	13.3	13.38	24.69
August 2026	PM10	ug/m3	Continuous	Continuous	2.05	10.27	10.57	20.77
July 2026	PM10	ug/m3	Continuous	Continuous	1.32	12.96	10.97	35.45
June 2026	PM10	ug/m3	Continuous	Continuous	2.46	8.07	8.27	12.34
May 2026	PM10	ug/m3	Continuous	Continuous	0.80	4.73	1.04	19.26

2. Water Monitoring - Licence Period 1st May 2026 to 30th April 2027

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 location of the Discharge point is shown on the map below.
Sampling is required by the licence to be monitored once per overflow event.
There is no licence limit, however the NSW State guidelines, listed below are used to assess performance.

- 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

Results for the Previous four years are in Appendix 6.



Monitoring Location EPL #9 Overflow discharge from Lake Quality

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)
17/06/26	26/06/26	08/07/26	3	8.1	<5	<5

Compliance summary: There has only been 1 overflow event to date in the current Licence period. Lake Quality's overflow meets the requirements of the guidelines.

3. Noise Monitoring - Licence Period 1st May 2026 to 30th April 2027

The Annual Noise Monitoring Reports by Recognition Research are available on the Berrima webpage in their entirety.
Monitoring for the current licence period was undertaken in October 2026 with the results and report pending.
The results from the previous round of Noise monitoring are below.

The EPL designated noise monitoring point is known as "Location 20" and is shown on the map below in relation to operations.



Location 20 Unattended Monitoring October and November 2025											
Day				Evening				Night			
Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}
55	50	53	53	58	49	53	53	56	49	53	53

Location 20 Attended Monitoring					
Period	**Date**	**End time**	**LA90 15minutes (dB(A))**	**Limit (LA90 (15minutes) in dB(A))**	**Compliance (Yes / No)**
Day	5/11/2025	12:55:00 PM	53	58	yes
day	23/10/2025	3:50:00 PM	5	58	yes
evening	27/10/2025	10:00:00 PM	57	58	yes
evening	3/11/2025	9:4:.00 PM	52	58	yes
evening	1/11/2025	8:00:00 PM	55	58	yes
evening	1/11/2025	8:00:00 PM	55	58	yes
evening	1/11/2025	11:30:00 PM	54	58	yes
Night	4/11/2025	2:00:00 AM	51	58	yes
Night	25/10/2025	4:00:00 AM	51	58	yes
Night	27/10/2025	1:00:00 AM	50	58	yes

4. Correction Log

November 2026

Real time air monitoring unit of measure corrected from mg/m3 to ug/m3

October 2026

1. The Berrima Cement POEO monitoring report has been revised and updated to meet the requirements outlined in the EPA "Requirements for publishing Pollution monitoring data" 2012 and referenced in Section 66(6) of the POEO Act.
   The changes include...
   a. Current licence period monitoring information is contained in the main body of the report, with all other data pertaining up to 4 years in dedicated appendices.
   b. Continuous emission monitoring data for all pollutants with a limit condition are published
   c. Location maps for monitoring locations have been included
   d. Pervious continuous emission monitoring for particulates has been replaced with 4 years continuous emission monitoring of all pollutants with a limit condition
   e. Real time air monitor information has been included
   f. Relevant noise monitoring information is included

APPENDIX 1 Continuous Stack Emissions
Licence Period 1st May 2025 to 30th April 2026

1.1.1A: Monitoring Location: EPL Identification #4 Cement Kiln Stack #6

EPL Identification #4 Monitoring data with Limit conditions

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
April 2026 Date Published:	Nitrous Oxides	mg/m3	Continuous	Continuous	711	962	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	515	1148	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.2	1.5	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	9	41	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	25	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.2	15	40 (1hour rolling)	yes
March 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	674	863	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	427	1093	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	3.1	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	10	30	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	11.8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.3	27	40 (1hour rolling)	yes
February 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	730	967	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	494	1141	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.2	0.5	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	6	34	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	23.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.2	18.6	40 (1hour rolling)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
January 2026	Nitrous Oxides	mg/m3	Continuous	Continuous	840	840	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	746	1012	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.2	0.4	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	11	11	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	1.2	5.2	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	5.8	15.7	40 (1hour rolling)	yes
December 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	643	989	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	529	1147	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	5.4	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	11	45	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	24.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	23.2	40 (1hour rolling)	yes
November 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	766	987	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	501	1199	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.16	7.5	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	10	43	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.4	29.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	16.6	40 (1hour rolling)	yes
October 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	746	979	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	447	1141	1250 (grey) 1500 (off-white) (1hour)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	18	21	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	31.8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	6	29	40 (1hour rolling)	yes
September 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	748	976	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	572	1159	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	7.9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	18	23	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	11.5	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	8	24	40 (1hour rolling)	yes
August 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	643	1018	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	421	1179	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	7.8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	13	43	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	19	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	19	40 (1hour rolling)	yes
July 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	674	974	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	545	1147	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.15	6.6	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	16	27	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	10	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	1.2	18.2	40	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
							(1hour rolling)	
June 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	513	921	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	701	1137	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.3	7.4	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	6	43	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	5.8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.8	20	40 (1hour rolling)	yes
May 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	606	932	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	368	1145	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	6.8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	12	36	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	25.7	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	1.16	27.7	40 (1hour rolling)	yes

1.1.1A: Monitoring Location: EPL Identification #4 Cement Kiln Stack #6

EPL Identification #4 Monitoring data with Limit conditions

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
April 2025 Date Published:	Nitrous Oxides	mg/m3	Continuous	Continuous	649	953	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	439	1140	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	6.8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	13	32	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.3	15.8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.2	28	40 (1hour rolling)	yes
March 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	570	966	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	512	1104	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	5.9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	11	27	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	6.5	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.9	8.5	40 (1hour rolling)	yes
February 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	637	984	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	367	1190	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8.5	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	12	36	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.3	31.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.4	12.7	40 (1hour rolling)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
January 2025	Nitrous Oxides	mg/m3	Continuous	Continuous	Kiln off	Kiln off	1000 (grey) 1250 (off-white) (24hour)	
	Nitrous Oxides	mg/m3	Continuous	Continuous	Kiln off	Kiln off	1250 (grey) 1500 (off-white) (1hour)	
	Hydrogen Chloride	mg/m3	Continuous	Continuous	Kiln off	Kiln off	10 (1hour)	
	Solid Particles	mg/m3	Continuous	Continuous	Kiln off	Kiln off	50 (24hour)	
	Sulphur dioxide	mg/m3	Continuous	Continuous	Kiln off	Kiln off	50 (1hour block)	
	VOCs	Parts/million	Continuous	Continuous	Kiln off	Kiln off	40 (1hour rolling)	
December 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	463	869	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	393	1113	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	6	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	38	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	17.4	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	15.9	40 (1hour rolling)	yes
November 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	488	819	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	389	1016	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.12	7.8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	24	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.3	10.4	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	6.5	24.1	40 (1hour rolling)	yes
October 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	471	801	1000 (grey) 1250 (off-white) (24hour)	
	Nitrous Oxides	mg/m3	Continuous	Continuous	408	931	1250 (grey) 1500 (off-white) (1hour)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.13	8.1	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	20	44	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	4	34	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	3.7	40 (1hour rolling)	yes
September 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	465	795	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	338	967	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.9	8.1	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	13	45	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.6	8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	0.4	40 (1hour rolling)	yes
August 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	481	920	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	307	931	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.5	8.7	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	11	38	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	7.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	2.4	40 (1hour rolling)	yes
July 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	496	701	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	327	1068	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.3	8.4	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	7	41	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	1	35	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	31	40	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
							(1hour rolling)	
June 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	499	854	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	310	951	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.5	6.7	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	19	38	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	1.1	41	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.5	26	40 (1hour rolling)	yes
May 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	510	822	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	404	963	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.9	7.4	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	12	39	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.6	8.1	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	5	30.6	40 (1hour rolling)	yes

Licence Period 1st May 2023 to 30th April 2024

1.1.1A: Monitoring Location: EPL Identification #4 Cement Kiln Stack #6

EPL Identification #4 Monitoring data with Limit conditions

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
April 2024 Date Published:	Nitrous Oxides	mg/m3	Continuous	Continuous	434	862	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	310	1162	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.9	6.8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	17	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	4	35	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.3	32.6	40 (1hour rolling)	yes
March 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	593	955	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	310	1144	1250 (grey) 1500 (off-white) (1hour)	yes yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	1.7	7.9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	21	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	1.8	33	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.2	29	40 (1hour rolling)	yes
February 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	395	921	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	320	1182	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	1.5	7.8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	23	44	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	1.9	29.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	1	40 (1hour rolling)	yes
January 2024	Nitrous Oxides	mg/m3	Continuous	Continuous	642	963	1000 (grey) 1250 (off-white)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
							(24hour)	
	Nitrous Oxides	mg/m3	Continuous	Continuous	346	979	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.4	3.9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	25	40	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.2	3.4	40 (1hour rolling)	yes
December 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	495	801	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	410	957	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	1.2	8.1	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	31	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.4	13	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	5.3	40 (1hour rolling)	yes
November 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	476	752	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	313	867	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.3	5.7	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	23	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	30	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	3.1	3.3	40 (1hour rolling)	yes
October 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	411	972	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	317	1147	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.4	7.7	10 (1hour)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
	Solid Particles	mg/m3	Continuous	Continuous	26	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	1.1	21.8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.4	9.6	40 (1hour rolling)	yes
September 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	368	710	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	341	847	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	1.1	7.3	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	20	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.9	32	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.7	11.3	40 (1hour rolling)	yes
August 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	431	724	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	352	928	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	7.3	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	19	48	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.4	32	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	9	40 (1hour rolling)	yes
July 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	363	782	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	370	1162	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8.2	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	27	75	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.4	14.4	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	5.3	40 (1hour rolling)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
June 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	516	966	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	402	1178	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.8	6.3	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	17	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	8.3	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	12	40 (1hour rolling)	yes
May 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	857	989	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	409	1198	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.5	8.7	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	17	44	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.2	7.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.2	1.5	40 (1hour rolling)	yes

1.1.1A: Monitoring Location: EPL Identification #4 Cement Kiln Stack #6

EPL Identification #4 Monitoring data with Limit conditions

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
April 2023 Date Published:	Nitrous Oxides	mg/m3	Continuous	Continuous	657	986	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	399	1192	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8.9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	17	46	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.3	24.5	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	5.4	40 (1hour rolling)	yes
March 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	632	988	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	304	1201	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.8	7	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	21	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.6	20	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	11.5	40 (1hour rolling)	yes
February 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	635	953	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	308	1219	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	5	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	21	44	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	5.4	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	2.5	40 (1hour rolling)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
January 2023	Nitrous Oxides	mg/m3	Continuous	Continuous	737	830	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	301	1004	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	17	42	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	1.7	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	0.3	40 (1hour rolling)	yes
December 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	630	983	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	308	1227	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	26	45	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	10.6	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	3.7	40 (1hour rolling)	yes
November 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	602	981	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	318	1232	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	7.4	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	31	48	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	2.9	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	22.4	40 (1hour rolling)	yes
October 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	574	969	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	306	1192	1250 (grey) 1500 (off-white) (1hour)	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	23	46	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	34	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	3.7	40 (1hour rolling)	yes
September 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	579	934	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	540	1059	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	5.2	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	18	45	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.7	1	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	2.6	40 (1hour rolling)	yes
August 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	668	831	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	304	1071	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.8	9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	21	47	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.6	8	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	0.4	40 (1hour rolling)	yes
July 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	596	892	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	300	1067	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.1	8.6	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	19	46	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	30.5	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	11.5	40	yes

Sampling Period	Pollutant	Unit of measure	Monitoring Frequency required by licence	No. of times measured during month	Min Value	Max value	100 percentile limit (averaging period)	Compliance (yes/No)
							(1hour rolling)	
June 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	616	969	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	350	1015	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.9	8.9	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	17	46	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	10	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0.1	5.2	40 (1hour rolling)	yes
May 2022	Nitrous Oxides	mg/m3	Continuous	Continuous	584	970	1000 (grey) 1250 (off-white) (24hour)	yes
	Nitrous Oxides	mg/m3	Continuous	Continuous	398	1206	1250 (grey) 1500 (off-white) (1hour)	yes
	Hydrogen Chloride	mg/m3	Continuous	Continuous	0.5	7	10 (1hour)	yes
	Solid Particles	mg/m3	Continuous	Continuous	8	48	50 (24hour)	yes
	Sulphur dioxide	mg/m3	Continuous	Continuous	0.1	2.2	50 (1hour block)	yes
	VOCs	Parts/million	Continuous	Continuous	0	32	40 (1hour rolling)	yes

APPENDIX 2 Annual stack Monitoring

Licence Period 1st May 2025 to 30th April 2026

1.1.2A: Monitoring Location: **EPL Identification #4** **Cement Kiln Stack #6**

Report received: 14/03/2026; Date published: 08/04/2026

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
19/11/25 to 4/12/2025	Mercury	mg/m3	Annual	<0.0034	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	<0.29	0.5	yes
	Solid Particles	mg/m3	Annual	48	50	yes
	Nitrogen Oxides	mg/m3	Annual	730	1250	yes
	Cadmium + Thalium	mg/m3	Annual	0.023	0.05	yes
	Chlorine	mg/m3	Annual	<0.47	50	yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0016	0.1	yes
	Hydrogen chloride	mg/m3	Annual	0.2	10	yes
	Hydrogen Fluoride	mg/m3	Annual	0.099	1	yes
	Sulphur dioxide	mg/m3	Annual	<0.068	50	yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.1	50	yes
	Volatile Organic Compounds	mg/m3	Annual	1.5	40	yes

1.1.2B Monitoring Location EPL Identification #4 Cement Kiln Stack #6

Report received: 14/03/2026; Date published: 08/04/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
13/11/2025	Solid Particles 'Duct A'	mg/m3	Annual	<2.2	100	Yes
	Solid Particles 'Duct B'	mg/m3	Annual	<2.2	100	Yes

1.1.2C Monitoring Location EPL Identification #5 : Kiln No 6 Cooler Stack

Report received: 14/03/2026; Date published: 08/04/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
13/11/2025	Solid Particles	mg/m3	Annual	12	100	Yes

1.1.2D Monitoring Location EPL Identification #10 : Cement Mill No 7 Stack

Report received: 14/03/2026; Date published: 08/04/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
13/11/2025	Solid Particles	mg/m3	Annual	12	20	Yes

1.1.1E Monitoring Location EPL Identification #7 : Cement Mill No 5 Stack

Due to operations in the Cement Mills, #5 stack is no longer in use.

1.1.2A: Monitoring Location: **EPL Identification #4** **Cement Kiln Stack #6**

Report received: 6/02/2025; Date published: 08/03/2025

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (Y/N)
8/10/2024 to 5/12/2024	Mercury	mg/m3	Annual	<0.005	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	<0.1	0.5	Yes
	Solid Particles	mg/m3	Annual	44	50	Yes
	Nitrogen Oxides	mg/m3	Annual	730	1250	Yes
	Cadmium + Thalium	mg/m3	Annual	<0.0066	0.05	Yes
	Chlorine	mg/m3	Annual	<0.05	50	Yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0013	0.1	Yes
	Hydrogen chloride	mg/m3	Annual	0.73	10	Yes
	Hydrogen Fluoride	mg/m3	Annual	0.16	1	Yes
	Sulphur dioxide	mg/m3	Annual	<0.052	50	Yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.13	50	Yes
	Volatile Organic Compounds	mg/m3	Annual	1.2	40	Yes

Report received: 30/07/2025;

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (Y/N)
18/3/2025, 20/3/2025, 28/3/2025	Mercury	mg/m3	Annual	0.0039	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	<0.035	0.5	Yes
	Solid Particles	mg/m3	Annual	15	50	Yes
	Nitrogen Oxides	mg/m3	Annual	810	1250	Yes
	Cadmium + Thalium	mg/m3	Annual	<0.0022	0.05	Yes
	Chlorine	mg/m3	Annual	<0.09	50	Yes

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (Y/N)
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0053	0.1	Yes
	Hydrogen chloride	mg/m3	Annual	6.6	10	Yes
	Hydrogen Fluoride	mg/m3	Annual	<0.04	1	Yes
	Sulphur dioxide	mg/m3	Annual	<0.01	50	Yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.14	50	Yes
	Volatile Organic Compounds	mg/m3	Annual	1.5	40	Yes

1.1.2B Monitoring Location EPL Identification #4 Cement Kiln Stack #6

Report received: 16/02/2025; Date published: 08/03/2025

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
1/10/24 to 2/10/24	Solid Particles 'Duct A'	mg/m3	Annual	4.5	100	Yes
	Solid Particles 'Duct B'	mg/m3	Annual	4.5	100	Yes

1.1.2C Monitoring Location EPL Identification #5 : Kiln No 6 Cooler Stack

Report received: 16/02/2025; Date published: 08/03/2025

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
1/10/24 to 2/10/24	Solid Particles	mg/m3	Annual	3.2	100	Yes

1.1.2D Monitoring Location EPL Identification #10 : Cement Mill No 7 Stack

Report received: 16/02/2025; Date published: 08/03/2025

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
5/12/2024	Solid Particles	mg/m3	Annual	4	20	Yes

1.1.1E Monitoring Location EPL Identification #7 : Cement Mill No 5 Stack

Due to operations in the Cement Mills, #5 stack is no longer in use.

Licence Period 1st May 2023 to 30th April 2024

1.1.2A: Monitoring Location: **EPL Identification #4** **Cement Kiln Stack #6**

Report received: 25/06/2024; Date published: 08/07/2024

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
April 2024 (30/4/24)	Mercury	mg/m3	Annual	<0.02	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	<0.08	0.5	Yes
	Solid Particles	mg/m3	Annual	30	50	Yes
	Nitrogen Oxides	mg/m3	Annual	750	1250	Yes
	Cadmium + Thalium	mg/m3	Annual	<0.005	0.05	Yes
	Chlorine	mg/m3	Annual	0.49	50	Yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0033	0.1	Yes
	Hydrogen chloride	mg/m3	Annual	0.96	10	Yes
	Hydrogen Fluoride	mg/m3	Annual	<0.04	1	Yes
	Sulphur dioxide	mg/m3	Annual	<0.031	50	Yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.064	50	Yes
	Volatile Organic Compounds	mg/m3	Annual	1.9	40	Yes

Report received: 24/01/2024;

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
November 2023 28 to 29/11/23) AKF5	Mercury	mg/m3	Annual	0.0056	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	<0.064	0.5	Yes
	Solid Particles	mg/m3	Annual	38	50	Yes
	Nitrogen Oxides	mg/m3	Annual	1000	1250	Yes
	Cadmium + Thalium	mg/m3	Annual	<0.003	0.05	Yes
	Chlorine	mg/m3	Annual	0.33	50	Yes

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0025	0.1	Yes
	Hydrogen chloride	mg/m3	Annual	0.19	10	Yes
	Hydrogen Fluoride	mg/m3	Annual	0.2	1	Yes
	Sulphur dioxide	mg/m3	Annual	0.042	50	Yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.11	50	Yes
	Volatile Organic Compounds	mg/m3	Annual	2.9	40	Yes

Report received: 15/01/2024; Date published: 08/01/2024

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limits (averaging period)	Compliance (yes/No)
October 2023 (12/10/23 TO 13/10/23)	Mercury	mg/m3	Annual	0.02	0.05	Yes
	Type 1 +2 substances	mg/m3	Annual	0.054	0.5	Yes
	Solid Particles	mg/m3	Annual	42	50	Yes
	Nitrogen Oxides	mg/m3	Annual	1100	1250	Yes
	Cadmium + Thalium	mg/m3	Annual	0.003	0.05	Yes
	Chlorine	mg/m3	Annual	0.33	50	Yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0027	0.1	Yes
	Hydrogen chloride	mg/m3	Annual	0.19	10	Yes
	Hydrogen Fluoride	mg/m3	Annual	0.083	1	Yes
	Sulphur dioxide	mg/m3	Annual	0.057	50	Yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.06	50	Yes
	Volatile Organic Compounds	mg/m3	Annual	2.6	40	Yes

1.1.2B Monitoring Location EPL Identification #4 Cement Kiln Stack #6

Report received: 7/01/2024; Date published: 08/01/2024

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
12/09/2023	Solid Particles 'Duct A'	mg/m3	Annual	6.6	100	Yes
	Solid Particles 'Duct B'	mg/m3	Annual	18	100	Yes

1.1.2C Monitoring Location EPL Identification #5 : Kiln No 6 Cooler Stack

Report received: 14/03/2026; Date published: 08/04/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
12/09/2023	Solid Particles	mg/m3	Annual	<1.7	100	Yes

1.1.2D Monitoring Location EPL Identification #10 : Cement Mill No 7 Stack

Report received: 14/03/2026; Date published: 08/04/2026

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
12/09/2023	Solid Particles	mg/m3	Annual	14	20	Yes

1.1.1E Monitoring Location EPL Identification #7 : Cement Mill No 5 Stack

Due to operations in the Cement Mills, #5 stack is no longer in use.

1.1.2A: Monitoring Location: **EPL Identification #4** **Cement Kiln Stack #6**

Report received: 30/05/2023; Date published: 08/06/2023

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
April 2023 (18/4/23 to 20/4/23)	Mercury	mg/m3	Annual	0.0047	0.05	yes
	Type 1 +2 substances	mg/m3	Annual	<0.034	0.5	yes
	Solid Particles	mg/m3	Annual	19	50	yes
	Nitrogen Oxides	mg/m3	Annual	790	1250	yes
	Cadmium + Thalium	mg/m3	Annual	<0.0024	0.05	yes
	Chlorine	mg/m3	Annual	<0.06	50	yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.0074	0.1	yes
	Hydrogen chloride	mg/m3	Annual	0.15	10	yes
	Hydrogen Fluoride	mg/m3	Annual	0.074	1	yes
	Sulphur dioxide	mg/m3	Annual	6.1	50	yes
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	5.3	50	yes
	Volatile Organic Compounds	mg/m3	Annual	2.5	40	yes

Report received: 22/11/2022;

EPL Identification #4 Monitoring data with Limit conditions

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
November 2022 (14/11/23 to 15/11/23)	Mercury	mg/m3	Annual	0.0091	0.05	yes
	Type 1 +2 substances	mg/m3	Annual	<0.036	0.5	yes
	Solid Particles	mg/m3	Annual	30	50	yes
	Nitrogen Oxides	mg/m3	Annual	1000	1250	yes
	Cadmium + Thalium	mg/m3	Annual	0.0045	0.05	yes
	Chlorine	mg/m3	Annual	<0.07	50	yes
	Dioxins and furans (I-TEQ middle bound)	ng/m3	Annual	0.005	0.1	yes
	Hydrogen chloride	mg/m3	Annual	0.14	10	yes
	Hydrogen Fluoride	mg/m3	Annual	<0.026	1	yes
	Sulphur dioxide	mg/m3	Annual	0.017	50	yes

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m3	Annual	0.061	50	yes
	Volatile Organic Compounds	mg/m3	Annual	1.1	40	yes

1.1.2B Monitoring Location EPL Identification #4 Cement Kiln Stack #6
Report received: 22/1/2022; Date published: 08/12/2022

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
15/9/22 to 9/11/22	Solid Particles 'Duct A'	mg/m3	Annual	<2.7	100	yes
	Solid Particles 'Duct B'	mg/m3	Annual	12	100	yes

1.1.2C Monitoring Location EPL Identification #5 : Kiln No 6 Cooler Stack
Report received: 22/11/2022; Date published: 08/12/2022

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
15/9/22 to 9/11/22	Solid Particles	mg/m3	Annual	9.8	100	yes

1.1.2D Monitoring Location EPL Identification #10 : Cement Mill No 7 Stack
Report received: 22/1/2022; Date published: 08/12/2022

Date of Stack testing	Pollutant	Unit of measure	Monitoring Frequency required by licence	Measured value	100 percentile limit (averaging period)	Compliance (yes/No)
15/9/22 to 9/11/22	Solid Particles	mg/m3	Annual	3.3	20	yes

1.1.1E Monitoring Location EPL Identification #7 : Cement Mill No 5 Stack
Due to operations in the Cement Mills, #5 stack is no longer in use.

APPENDIX 3 Dust Deposition

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
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
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

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
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 Date published: 08/02/25	1.4	1.0	2.9	1.3	1.2	1.2	0.9
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

	Dust Deposition Gauges (grams per square metre per month as 12-month rolling average)						
	1	2	3	5	7	8	9
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
August 2025 Report received: 17/09/25 Date published: 08/10/25	0.7	1.0	2.5	1.5	0.9	1.0	2.0
September 2025 Report received: 16/10/25 Date published: 08/11/25	0.6	1.0	2.5	1.4	0.9	1.1	1.9
October 2025 Report received: 19/11/25 Date published: 08/12/25	0.6	1.0	2.5	1.5	0.9	1.2	2.0
November 2025 Report received: 17/12/25 Date published: 08/01/26	0.4	1.0	2.6	1.4	0.8	1.3	2.0
December 2025 Report received: 16/01/26 Date published: 08/02/26	0.4	1.0	2.5	1.7	0.8	1.3	2.0
January 2026 Report received: 17/02/26 Date published: 08/03/26	0.5	1.0	2.6	1.8	0.8	1.3	2.0
February 2026 Report received: 17/03/26 Date published: 08/04/26	0.5	1.0	2.7	1.9	0.8	1.4	2.0
March 2026 Report received: 15/04/26 Date published: 08/05/26	0.5	1.0	2.6	1.7	0.8	1.3	2.0
April 2026 Report received: 13/05/26 Date published: 08/06/26	0.5	1.0	2.8	1.7	0.8	1.3	1.9

APPENDIX 4 High Volume Air monitoring

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.

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
03/06/2022	14/07/22	08/08/22	20.7	3.5
09/06/2022			21.1	7.4

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
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

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

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
1/11/2023	08/12/23	08/01/24	25.1	7.9
7/11/2023			24.2	4.6
13/11/2023			24.6	10.3
19/11/2023			24.7	11
25/11/2023			24.9	12
1/12/2023	18/01/24	08/02/24	25.1	3.6
7/12/2023			25.6	21.2
13/12/2023			25.7	18.4
19/12/2023			25.4	25.7
25/12/2023			25.4	4.1
31/12/2023			25.0	5
6/01/2024	16/02/24	08/03/24	25.1	7.6
12/01/2024			25.2	5.9
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

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
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
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

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
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
4/08/2025	29/09/25	08/10/25	26.3	0.4
10/08/2025			26.1	0.1
16/08/2025			26.2	1.2
22/08/2025			26.3	1
28/08/2025			26.1	1.2
3/09/2025	17/10/25	08/11/25	26.1	6.4
9/09/2025			26.1	5.5
15/09/2025			26.7	7.2
21/09/2025			26.4	0.7
27/09/2025			26.1	17.9
3/10/2025	20/11/25	08/12/25	25.9	6.6
9/10/2025			26.8	20
15/10/2025			27.5	8.4
21/10/2025			27.9	10.4
27/10/2025			27.9	3.3
2/11/2025	23/12/25	08/01/26	28.1	4.6
8/11/2025			29.4	26.8
14/11/2025			29.8	11
20/11/2025			30.5	11.1
26/11/2025			32.2	37.1
8/12/2025	23/01/26	08/02/26	31.6	9.6
14/12/2025			31.8	7.7
20/12/2025			32.0	9.4

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
26/12/2025			30.5	2.2
1/01/2026	28/02/26	08/03/26	30.0	5
7/01/2026			29.7	9.8
13/01/2026			29.2	9.1
19/01/2026			29.0	3.2
25/01/2026			29.3	15.1
31/01/2026			29.9	23.5
6/02/2026	19/03/26	08/04/26	30.1	10.4
12/02/2026			30.4	9.5
18/02/2026			31.5	20.6
24/02/2026			31.8	2.4
2/03/2026	24/04/26	08/05/26	31.9	3.3
8/03/2026			31.5	0.6
14/03/2026			31.7	3.1
20/03/2026			31.6	0.9
26/03/2026			31.7	6.0
1/04/2026	18/05/26	08/06/26	31.1	3.3
7/04/2026			31.4	7.1
13/04/2026			31.3	2.4
19/04/2026			31.1	5.4
25/04/2026			31.9	8.9
1/05/2026	23/06/26	08/07/26	32.0	2.4
7/05/2026			31.7	3.7
13/05/2026			31.4	0.9
19/05/2026			31.2	0.7
25/05/2026			31.2	1.2
31/05/2026			31.4	1.1
1/01/2026	28/02/26	08/03/26	30.0	5
7/01/2026			29.7	9.8
13/01/2026			29.2	9.1
19/01/2026			29.0	3.2
25/01/2026			29.3	15.1
31/01/2026			29.9	23.5
6/02/2026	19/03/26	08/04/26	30.1	10.4
12/02/2026			30.4	9.5
18/02/2026			31.5	20.6
24/02/2026			31.8	2.4
2/03/2026	24/04/26	08/05/26	31.9	3.3
8/03/2026			31.5	0.6
14/03/2026			31.7	3.1
20/03/2026			31.6	0.9

Sampling Date	Report received	Date published	Parameter (micrograms per cubic metre)	
			TSP (annual rolling average)	PM_{10} (24-hr average)
26/03/2026			31.7	6.0
1/04/2026	18/05/26	08/06/26	31.1	3.3
7/04/2026			31.4	7.1
13/04/2026			31.3	2.4
19/04/2026			31.1	5.4
25/04/2026			31.9	8.9

APPENDIX 5 Real time Air monitoring

Location 1

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
April 2026	PM10	mg/m3	Continuous	Continuous	4.17	7.08	6.73	12.41
March 2026	PM10	mg/m3	Continuous	Continuous	3.10	7.68	7.31	13/74
February 2026	PM10	mg/m3	Continuous	Continuous	2.86	10.27	10.66	20.91
January 2026	PM10	mg/m3	Continuous	Continuous	2.55	9.44	8.78	23.38

Location 2

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
April 2026	PM10	mg/m3	Continuous	Continuous	2.91	6.2	6.3	11.35
March 2026	PM10	mg/m3	Continuous	Continuous	3.42	7.92	7.85	13.52
February 2026	PM10	mg/m3	Continuous	Continuous	3.5	8.58	8.62	19.96
January 2026	PM10	mg/m3	Continuous	Continuous	2.17	8.02	7.6	17.28

Location 3

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
April 2026	PM10	mg/m3	Continuous	Continuous	5.55	11.94	10.39	19.29
March 2026	PM10	mg/m3	Continuous	Continuous	5.7	12.37	10.94	22.9
February 2026	PM10	mg/m3	Continuous	Continuous	7.19	16.53	15.61	32.07
January 2026	PM10	mg/m3	Continuous	Continuous	5.19	16.38	16	33.1

Location 4

Sampling Period	Pollutant (24hr average)	Unit of measure	Monitoring frequency required by licence	No. Of times measured in the month	Min Value	Mean value	Median value	Max Value
April 2026	PM10	mg/m3	Continuous	Continuous	0.66	2.27	1.99	4.92
March 2026	PM10	mg/m3	Continuous	Continuous	0.53	1.58	1.42	3.69
February 2026	PM10	mg/m3	Continuous	Continuous	1.14	2.62	2.32	5.92
January 2026	PM10	mg/m3	Continuous	Continuous	1.21	3.13	2.8	7.17

APPENDIX 6 Water Monitoring

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)
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
10/03/26	18/03/26	08/04/26	<2	7.9	<5	<5

APPENDIX 7 Noise Monitoring

Licence Period 1st May 2025 to 30th April 2026

Location 20 Unattended Monitoring October and November 2025											
Day				Evening				Night			
Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}
55	50	53	53	58	49	53	53	56	49	53	53

Location 20 Attended Monitoring					
Period	Date	End time	LA90 15minutes (dB(A))	Limit (LA90 (15minutes) in dB(A))	Compliance (Yes / No)
Day	5/11/2025	12:55:00 PM	53	58	yes
day	23/10/2025	3:50:00 PM	5	58	yes
evening	27/10/2025	10:00:00 PM	57	58	yes
evening	3/11/2025	9:4:.00 PM	52	58	yes
evening	1/11/2025	8:00:00 PM	55	58	yes
evening	1/11/2025	8:00:00 PM	55	58	yes
evening	1/11/2025	11:30:00 PM	54	58	yes
Night	4/11/2025	2:00:00 AM	51	58	yes
Night	25/10/2025	4:00:00 AM	51	58	yes
Night	27/10/2025	1:00:00 AM	50	58	yes

Licence Period 1st May 2024 to 30th April 2025

Location 20 Unattended Monitoring November and December 2024											
Day				Evening				Night			
Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}
54	51	53	52	55	51	53	52	55	52	53	53

Location 20 Attended Monitoring					
Period	Date	End time	LA90 15minutes (dB(A))	Limit (LA90 (15minutes) in dB(A))	Compliance (Yes / No)
Day	27/11/24	3:23:00 PM	54	58	yes
Day	2311/12/24	11:15:00 PM	54	58	yes

Licence Period 1st May 2023 to 30th April 2024

Location 20 Unattended Monitoring December 2023											
Day				Evening				Night			
Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}
55	49	53	53	56	44	53	54	57	51	54	54

Location 20 Attended Monitoring					
Period	Date	End time	LA90 15minutes (dB(A))	Limit (LA90 (15minutes) in dB(A))	Compliance (Yes / No)
Day	1/12/23	2:43:00 PM	54	58	yes
Day	14/12/23	4:11:00 PM	51	58	yes

Licence Period 1st May 2022 to 30th April 2023

Location 20 Unattended Monitoring October 2022											
Day				Evening				Night			
Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}	Max L_{A90}	Min L_{A90}	Ave L_{A90}	Median L_{A90}
57	50	53	53	56	52	54	53	57	51	53	53

Location 20 Attended Monitoring					
Period	Date	End time	LA90 15minutes (dB(A))	Limit (LA90 (15minutes) in dB(A))	Compliance (Yes / No)
Day	10/10/22	4:47:48 PM	51	58	yes
Day	16/10/22	8:00:00 AM	51	58	yes
Day	16/10/22	8:45:00 AM	53	58	yes
Day	25/10/22	5:50:00 PM	54	58	yes
Night	13/10/22	12:45:00 AM	55	58	yes
Night	16/10/22	11:30:00 PM	54	58	yes
Night	10/10/22	6:00:00 AM	47	58	yes
Night	19/10/22	3:30:00 AM	56	58	yes
Night	20/10/22	1:00:00 AM	56	58	yes