

| Central Coast Sands Quarry Information | |
|--|---|
| Premise Details | Hanson – Williamsdale Quarry |
| Address | Williamsdale Road Williamsdale NSW 2620 |
| Licensee | Hanson Construction Materials Pty Ltd |
| EPL Number | 10406 |
| EPL Location | https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=182784&SYSUID=1&LICID=10406 |

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

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 10406 (EPL 10406 – Williamsdale Quarry)

This report provides environmental monitoring data for Williamsdale Quarry for the period 1 January 2016 to 30 April 2022.

Monitoring data in this report relates to the monitoring undertaken in the reporting period for the following environmental pollutants:

- Deposited Dust (monthly monitoring)
- Blasting

| Discharge at Point 1, 2, 3, 4 require the following monitoring requirements | | | |
|---|----------------------------------|-----------|------------------------------------|
| Pollutant | Units of measure | Frequency | Sampling Method |
| Ash | grams per square metre per month | Monthly | Australian Standard 3580.10.1-1991 |
| Insoluble solids | grams per square metre per month | Monthly | Australian Standard 3580.10.1-1991 |
| Soluble matter | grams per square metre per month | Monthly | Australian Standard 3580.10.1-1991 |
| Total Solid Particles | grams per square metre per month | Monthly | Australian Standard 3580.10.1-1991 |

Noise (L2)

L2.2 Noise from the premises must not exceed an Laeq (15 minute) noise emission criterion of 35 dB(A) (6am to 10pm) at the boundary (or within 30 metres of the dwelling) of any dwelling at Lot 61 "Briarlea" and Lot 20.

Blast (L3)

L3.1 The overpressure level from blasting operations on the premises must not:

- Exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over a period of 12 months; and
- Exceed 120dB (Lin Peak) at any time.

L3.2 Ground vibration peak particle velocity from the blasting operations at the premises must not:

- Exceed 5mm/s for more than 5% of the total number of blasts over a period of 12 months; and
- Exceed 10mm/s at any time.

when measured at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital

Annual Blast Monitoring Summary

| Pollutant | Unit of measure | Monitoring frequency required by licence | No. of times measured during the year | Min value | Max. value | Blast monitor not triggered | Exceedance (yes/no) | Comment |
|---|-----------------|--|---------------------------------------|-----------|------------|-----------------------------|---------------------|---------|
| 2022 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 3 | 100.2 | 113.2 | 0 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 3 | 1.85 | 4.32 | 0 | No | |
| 2021 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 5 | 97.7 | 112.9 | 0 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 5 | 0.46 | 3.83 | 0 | No | |
| 2020 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 7 | 86.1 | 111.6 | 0 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 7 | 1.76 | 2.74 | 0 | No | |
| 2019 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 9 | 82.6 | 110.6 | 1 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 9 | 0.98 | 3.43 | 1 | No | |
| 2018 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 15 | 97.3 | 111.3 | 2 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 15 | 0.76 | 2.15 | 2 | No | |
| 2017 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 12 | 86.3 | 108.7 | 0 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 12 | 0.81 | 4.34 | 0 | No | |
| 2016 | | | | | | | | |
| Blast (overpressure) | dB (Lin Peak) | Every blast event | 15 | 94.3 | 107.8 | 1 | No | |
| Blast (ground vibration peak particle velocity) | mm/s | Every blast event | 15 | 0.76 | 3.25 | 1 | No | |

Annual DDG Monitoring Summary

| Pollutant | Unit of measure | Monitoring frequency required by licence | No. of times measured during the year | Point 1 DDG Annual Average | Point 2 DDG Annual Average | Point 3 DDG Annual Average | Point 4 DDG Annual Average | Exceedance (yes/no) |
|------------------------|-----------------|--|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------|
| 2021-2021 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 8 - 11 | 3.7 | 0.8 | 1.3 | 1.3 | No |
| Ash content | g/m2/month | Monthly | 8 - 11 | | | | | No |
| 2020-2021 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 12 | 0.6 | 2 | 1 | 0.8 | No |
| Ash content | g/m2/month | Monthly | 12 | 0.3 | 1.4 | 0.5 | 0.3 | No |
| 2019-2020 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 12 | 1.6 | 2.9 | 1.8 | 1.6 | No |
| Ash content | g/m2/month | Monthly | 12 | N/A | N/A | N/A | N/A | No |
| 2018-2019 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 12 | 3 | 3.5 | 3.7 | 1.5 | No |
| Ash content | g/m2/month | Monthly | 12 | 1.8 | 2.2 | 3.1 | 1.2 | No |
| 2017-2018 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 12 | 2.9 | 2.6 | 3.9 | 1.7 | No |
| Ash content | g/m2/month | Monthly | 12 | 2 | 1.4 | 3.4 | 1.1 | No |
| 2016-2017 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 12 | 2.3 | 2.6 | 3.9 | 1.7 | No |
| Ash content | g/m2/month | Monthly | 12 | 1.3 | 0.5 | 3.1 | 0.6 | No |
| 2015-2016 | | | | | | | | |
| Total Insoluble Matter | g/m2/month | Monthly | 12 | 1.3 | 0.8 | 2.9 | 1.2 | No |
| Ash content | g/m2/month | Monthly | 12 | 0.8 | 0.5 | 2.5 | 0.7 | No |

Dust Deposition Gauge Monthly Monitoring

| DDG 1 (located near lease boundary at the North of the site) | | | | DDG 2 (located at southern lease boundary) | | | | DDG 3 (located East of the Processing Area) | | | | DDG 4 (located West of the Processing Area) | | | |
|--|--------------------|-----------------------------------|------------------------|--|--------------------|-----------------------------------|------------------------|---|--------------------|-----------------------------------|------------------------|---|--------------------|-----------------------------------|------------------------|
| Month and Year | Date data obtained | Total Insoluble Solids g/m2/month | Rolling Annual Average | Month and Year | Date data obtained | Total Insoluble Matter g/m2/month | Rolling Annual Average | Month and Year | Date data obtained | Total Insoluble Matter g/m2/month | Rolling Annual Average | Month and Year | Date data obtained | Total Insoluble Matter g/m2/month | Rolling Annual Average |
| 2022 | | | | | | | | | | | | | | | |
| December 2022 | | | | December 2021 | | | | December 2021 | | | | December 2021 | | | |
| November 2022 | 30/11/2022 | 11.1 | 3.7 | November 2021 | 30/11/2022 | 0.6 | 0.8 | November 2021 | 30/11/2022 | No Data | 1.3 | November 2021 | 30/11/2022 | 0.6 | 1.3 |
| October 2022 | 2/11/2022 | 0.6 | 2.8 | October 2021 | 2/11/2022 | No Data | 1.0 | October 2021 | 2/11/2022 | No Data | 1.4 | October 2021 | 2/11/2022 | No Data | 1.3 |
| September 2022 | 12/10/2022 | 18 | 2.8 | September 2021 | 12/10/2022 | 0.4 | 4.5 | September 2021 | 12/10/2022 | 0.4 | 1.3 | September 2021 | 12/10/2022 | 0.3 | 1.3 |
| August 2022 | 25/08/2022 | 5.8 | 1.2 | August 2021 | 25/08/2022 | 0.9 | 6.1 | August 2021 | 25/08/2022 | 5.2 | 1.4 | August 2021 | 25/08/2022 | 0.5 | 1.3 |
| July 2022 | 26/07/2022 | 0.4 | 0.7 | July 2021 | 26/07/2022 | 0.4 | 6.1 | July 2021 | 26/07/2022 | 0.4 | 0.9 | July 2021 | 26/07/2022 | 0.3 | 1.2 |
| June 2022 | 5/07/2022 | 1.1 | 0.7 | June 2021 | 29/06/2022 | 0.9 | 6.1 | June 2021 | 29/06/2022 | 0.2 | 0.9 | June 2021 | 29/06/2022 | 0.2 | 1.2 |
| May 2022 | 2/06/2022 | 0.3 | 0.6 | May 2021 | 2/06/2022 | 1.6 | 6.2 | May 2021 | 2/06/2022 | 0.6 | 0.9 | May 2021 | 2/06/2022 | 0.2 | 1.3 |
| April 2022 | No Data | No Data | 0.6 | April 2021 | No Data | No Data | 6.1 | April 2021 | No Data | No Data | 1.0 | April 2021 | No Data | No Data | 1.3 |
| March 2022 | 19/04/2022 | 0.4 | 0.6 | March 2021 | 19/04/2022 | Not Sampled | 5.5 | March 2021 | 19/04/2022 | 1.5 | 0.9 | March 2021 | 19/04/2022 | 0.3 | 1.2 |
| February 2022 | 7/03/2022 | 0.5 | 0.6 | February 2021 | 7/03/2022 | Not Sampled | 5.1 | February 2021 | 7/03/2022 | Not Sampled | 0.9 | February 2021 | 7/03/2022 | 0.5 | 1.2 |
| January 2022 | 31/01/2022 | 1.1 | 0.6 | January 2021 | 31/01/2022 | 0.8 | 4.7 | January 2021 | 31/01/2022 | 0.9 | 0.9 | January 2021 | 31/01/2022 | 1.5 | 1.3 |
| 2021 | | | | | | | | | | | | | | | |
| December 2021 | 14/07/2022 | 1 | 0.5 | December 2021 | 14/01/2022 | 1.1 | 4.7 | December 2021 | 14/01/2022 | 0.8 | 0.8 | December 2021 | 14/01/2022 | 8.4 | 1.2 |
| November 2021 | 30/11/2021 | 1.1 | 0.6 | November 2021 | 30/11/2021 | 1.6 | 5.2 | November 2021 | 30/11/2021 | 2.5 | 0.9 | November 2021 | 30/11/2021 | 1 | 0.7 |
| October 2021 | 26/10/2021 | 0.7 | 0.5 | October 2021 | 26/10/2021 | 33 | 10.8 | October 2021 | 0/01/1900 | 0.9 | 0.8 | October 2021 | 26/10/2021 | 0.6 | 0.7 |
| September 2021 | 5/10/2021 | 0.3 | 0.5 | September 2021 | 5/10/2021 | 15 | 11.4 | September 2021 | 5/10/2021 | 0.6 | 0.8 | September 2021 | 5/10/2021 | 0.3 | 0.6 |
| August 2021 | 31/08/2021 | 0.4 | 0.6 | August 2021 | 31/08/2021 | 0.4 | 10.3 | August 2021 | 31/08/2021 | 0.5 | 0.9 | August 2021 | 31/08/2021 | 0.3 | 0.7 |
| July 2021 | 27/07/2021 | 0.3 | 0.6 | July 2021 | 27/07/2021 | 0.4 | 10.6 | July 2021 | 27/07/2021 | 0.3 | 1.0 | July 2021 | 27/07/2021 | 0.2 | 0.7 |
| June 2021 | 30/06/2021 | 0.6 | 0.6 | June 2021 | 30/06/2021 | 1.8 | 10.8 | June 2021 | 30/06/2021 | 0.8 | 1.0 | June 2021 | 30/06/2021 | 0.5 | 0.8 |
| May 2021 | 28/05/2021 | 0.3 | 0.6 | May 2021 | 28/05/2021 | 0.5 | 10.8 | May 2021 | 28/05/2021 | 0.7 | 1.0 | May 2021 | 28/05/2021 | 0.5 | 0.7 |
| April 2021 | 27/04/2021 | 0.2 | 0.6 | April 2021 | 27/04/2021 | 0.3 | 10.9 | April 2021 | 27/04/2021 | 0.4 | 1.0 | April 2021 | 27/04/2021 | 0.3 | 0.7 |
| March 2021 | 29/03/2021 | 0.6 | 0.6 | March 2021 | 29/03/2021 | 0.7 | 13.1 | March 2021 | 29/03/2021 | 1.1 | 1.0 | March 2021 | 29/03/2021 | 0.8 | 0.7 |
| February 2021 | 23/02/2021 | 0.5 | 0.6 | February 2021 | 23/02/2021 | 0.7 | 15.2 | February 2021 | 23/02/2021 | 0.9 | 1.0 | February 2021 | 23/02/2021 | 1.4 | 0.7 |
| January 2021 | 25/01/2021 | 0.5 | 0.7 | January 2021 | 25/01/2021 | 0.9 | 17.6 | January 2021 | 25/01/2021 | 0.6 | 1.0 | January 2021 | 25/01/2021 | 0.6 | 0.7 |
| 2020 | | | | | | | | | | | | | | | |
| December 2020 | 29/12/2020 | 1.1 | 1.2 | December 2020 | 29/12/2020 | 6.7 | 18.0 | December 2020 | 29/12/2020 | 1.7 | 1.5 | December 2020 | 29/12/2020 | 1.7 | 1.4 |
| November 2020 | 20/11/2020 | 0.8 | 1.2 | November 2020 | 20/11/2020 | 68.9 | 17.5 | November 2020 | 20/11/2020 | 1.3 | 1.4 | November 2020 | 20/11/2020 | 0.6 | 1.3 |
| October 2020 | 3/11/2020 | 0.8 | 1.3 | October 2020 | 3/11/2020 | 40.8 | 11.9 | October 2020 | 3/11/2020 | 1.1 | 1.5 | October 2020 | 3/11/2020 | 0.5 | 1.6 |
| September 2020 | 28/09/2020 | 0.9 | 1.4 | September 2020 | 28/09/2020 | 1.1 | 8.6 | September 2020 | 28/09/2020 | 1.2 | 1.5 | September 2020 | 28/09/2020 | 0.6 | 1.6 |
| August 2020 | 31/08/2020 | 0.4 | 1.4 | August 2020 | 31/08/2020 | 4.4 | 8.7 | August 2020 | 31/08/2020 | 2 | 1.5 | August 2020 | 31/08/2020 | 0.8 | 1.7 |
| July 2020 | 3/08/2020 | 0.4 | 1.6 | July 2020 | 3/08/2020 | 2.4 | 8.5 | July 2020 | 3/08/2020 | 0.4 | 1.6 | July 2020 | 3/08/2020 | <0.2 | 1.7 |
| June 2020 | 30/06/2020 | 0.6 | 1.6 | June 2020 | 30/06/2020 | 2.6 | 9.6 | June 2020 | 30/06/2020 | 0.5 | 1.8 | June 2020 | 30/06/2020 | 0.4 | 1.6 |
| May 2020 | | 0.5 | 1.6 | May 2020 | | 0.8 | 8.9 | May 2020 | | 0.9 | 1.9 | May 2020 | | 0.4 | 1.6 |
| April 2020 | | 0.3 | 1.7 | April 2020 | | 26.8 | 8.9 | April 2020 | | 0.6 | 2.0 | April 2020 | | 0.4 | 1.7 |
| March 2020 | | 0.3 | 1.8 | March 2020 | | 26.8 | 6.8 | March 2020 | | 0.6 | 2.3 | March 2020 | | 0.4 | 1.7 |
| February 2020 | | 1.6 | 2.2 | February 2020 | | 29.3 | 5.1 | February 2020 | | 1.6 | 2.8 | February 2020 | | 1.6 | 1.9 |
| January 2020 | | 6.1 | 2.9 | January 2020 | | 5.9 | 3.1 | January 2020 | | 6.3 | 3.3 | January 2020 | | 8.4 | 2.0 |
| 2019 | | | | | | | | | | | | | | | |
| December 2019 | | 1.1 | 2.8 | December 2019 | | 0.2 | 3.3 | December 2019 | | 0.2 | 3.2 | December 2019 | | 0.2 | 1.5 |
| November 2019 | | 2.9 | 3.1 | November 2019 | | 2 | 3.5 | November 2019 | | 2.6 | 3.5 | November 2019 | | 3.6 | 1.6 |
| October 2019 | | 1.2 | 3.0 | October 2019 | | 0.8 | 3.5 | October 2019 | | 0.8 | 3.7 | October 2019 | | 0.8 | 1.5 |
| September 2019 | | 1.8 | 3.3 | September 2019 | | 2.1 | 3.5 | September 2019 | | 2 | 3.8 | September 2019 | | 1.9 | 1.5 |
| August 2019 | | 2.3 | 3.4 | August 2019 | | 2.4 | 3.5 | August 2019 | | 2.5 | 4.0 | August 2019 | | 1 | 1.4 |
| July 2019 | | 0.9 | 3.4 | July 2019 | | 8.7 | 3.4 | July 2019 | | 3 | 4.3 | July 2019 | | 0.5 | 1.5 |
| June 2019 | | 0.4 | 3.7 | June 2019 | | 0.5 | 2.8 | June 2019 | | 1.4 | 4.5 | June 2019 | | 0.4 | 1.5 |
| May 2019 | | 1 | 3.7 | May 2019 | | 1.1 | 3.0 | May 2019 | | 2.8 | 4.4 | May 2019 | | 0.6 | 1.5 |
| April 2019 | | 1.6 | 3.6 | April 2019 | | 1.3 | 2.9 | April 2019 | | 3.8 | 4.3 | April 2019 | | 0.7 | 1.5 |
| March 2019 | | 5.4 | 3.6 | March 2019 | | 7.1 | 3.0 | March 2019 | | 7 | 4.3 | March 2019 | | 2.8 | 1.6 |
| February 2019 | | 9.9 | 3.3 | February 2019 | | 4.5 | 2.5 | February 2019 | | 7.2 | 4.1 | February 2019 | | 3.5 | 1.5 |

| | | | | | | | | | | | | | | | |
|----------------|--|-----|-----|----------------|--|------|-----|----------------|--|-----|-----|----------------|--|-----|-----|
| January 2019 | | 4.6 | 2.7 | January 2019 | | 9.2 | 3.2 | January 2019 | | 4.6 | 3.7 | January 2019 | | 1.8 | 1.3 |
| 2018 | | | | | | | | | | | | | | | |
| December 2018 | | 4.7 | 2.6 | December 2018 | | 2.3 | 2.7 | December 2018 | | 4.3 | 3.7 | December 2018 | | 1.6 | 1.3 |
| November 2018 | | 2.6 | 2.7 | November 2018 | | 1.6 | 2.7 | November 2018 | | 4.7 | 3.6 | November 2018 | | 2.1 | 1.7 |
| October 2018 | | 4.4 | 2.6 | October 2018 | | 1.2 | 2.8 | October 2018 | | 2 | 3.6 | October 2018 | | 0.9 | 1.6 |
| September 2018 | | 3.2 | 2.3 | September 2018 | | 2.4 | 2.7 | September 2018 | | 4.9 | 4.0 | September 2018 | | 1 | 1.7 |
| August 2018 | | 2.6 | 2.1 | August 2018 | | 1.2 | 2.5 | August 2018 | | 5.8 | 3.8 | August 2018 | | 1.9 | 1.7 |
| July 2018 | | 3.6 | 2.4 | July 2018 | | 1 | 2.5 | July 2018 | | 5.6 | 3.6 | July 2018 | | 0.9 | 1.6 |
| June 2018 | | 0.6 | 2.2 | June 2018 | | 2.6 | 2.4 | June 2018 | | 0.5 | 3.4 | June 2018 | | 0.4 | 1.6 |
| May 2018 | | 0.5 | 2.2 | May 2018 | | 0.8 | 2.2 | May 2018 | | 0.9 | 3.8 | May 2018 | | 0.4 | 1.6 |
| April 2018 | | 0.8 | 2.3 | April 2018 | | 2.1 | 2.2 | April 2018 | | 4.2 | 4.0 | April 2018 | | 1.6 | 1.6 |
| March 2018 | | 1.9 | 2.4 | March 2018 | | 1.4 | 2.1 | March 2018 | | 4 | 3.8 | March 2018 | | 1.6 | 1.5 |
| February 2018 | | 2.4 | 2.6 | February 2018 | | 12.3 | 2.0 | February 2018 | | 3.3 | 3.7 | February 2018 | | 1.8 | 1.4 |
| January 2018 | | 3.5 | 2.4 | January 2018 | | 3.7 | 1.1 | January 2018 | | 3.6 | 3.9 | January 2018 | | 1.2 | 1.4 |
| 2017 | | | | | | | | | | | | | | | |
| December 2017 | | 5.9 | 2.2 | December 2017 | | 1.7 | 0.9 | December 2017 | | 3.5 | 4.0 | December 2017 | | 6.3 | 1.4 |
| November 2017 | | 1.6 | 1.9 | November 2017 | | 1.1 | 0.8 | November 2017 | | 4.8 | 4.1 | November 2017 | | 1.4 | 0.9 |
| October 2017 | | 1.5 | 1.9 | October 2017 | | 1.8 | 0.8 | October 2017 | | 6.6 | 4.0 | October 2017 | | 1.7 | 0.9 |
| September 2017 | | 0.3 | 2.0 | September 2017 | | 0.5 | 0.7 | September 2017 | | 3.2 | 3.7 | September 2017 | | 1 | 0.8 |
| August 2017 | | 6 | 2.2 | August 2017 | | 0.5 | 0.7 | August 2017 | | 3 | 3.8 | August 2017 | | 0.7 | 0.8 |
| July 2017 | | 1 | 1.7 | July 2017 | | 0.5 | 0.8 | July 2017 | | 3.4 | 3.9 | July 2017 | | 0.7 | 0.8 |
| June 2017 | | 1.3 | 1.8 | June 2017 | | 0.5 | 0.8 | June 2017 | | 5.1 | 4.0 | June 2017 | | 0.3 | 0.8 |
| May 2017 | | 1.7 | 1.9 | May 2017 | | 0.4 | 0.9 | May 2017 | | 3.2 | 3.8 | May 2017 | | 0.4 | 0.9 |
| April 2017 | | 1.2 | 1.9 | April 2017 | | 0.6 | 1.0 | April 2017 | | 2.2 | 3.9 | April 2017 | | 0.8 | 1.0 |
| March 2017 | | 4.3 | 2.1 | March 2017 | | 0.7 | 1.1 | March 2017 | | 2.6 | 4.5 | March 2017 | | 1 | 1.1 |
| February 2017 | | 0.8 | 1.1 | February 2017 | | 0.8 | 1.3 | February 2017 | | 5.7 | 5.4 | February 2017 | | 0.9 | 1.2 |
| January 2017 | | 1.3 | 1.3 | January 2017 | | 1.8 | 1.8 | January 2017 | | 5.1 | 5.1 | January 2017 | | 1.4 | 1.4 |
| 2016 | | | | | | | | | | | | | | | |
| December 2016 | | 1.3 | 1.9 | December 2016 | | 1.8 | 0.9 | December 2016 | | 5.1 | 2.8 | December 2016 | | 1.4 | 1.2 |
| November 2016 | | 7.1 | 1.9 | November 2016 | | 1.7 | 0.9 | November 2016 | | 3.4 | 2.6 | November 2016 | | 1.4 | 1.2 |
| October 2016 | | 1 | 1.4 | October 2016 | | 0.9 | 0.8 | October 2016 | | 2.4 | 2.5 | October 2016 | | 0.8 | 1.2 |
| September 2016 | | 1.3 | 1.4 | September 2016 | | 0.5 | 0.8 | September 2016 | | 1.2 | 2.6 | September 2016 | | 0.7 | 1.2 |
| August 2016 | | 1.2 | 1.4 | August 2016 | | 0.7 | 0.8 | August 2016 | | 3 | 2.7 | August 2016 | | 0.8 | 1.3 |
| July 2016 | | 1.4 | 1.5 | July 2016 | | 0.7 | 0.8 | July 2016 | | 2.8 | 2.7 | July 2016 | | 1.4 | 1.4 |
| June 2016 | | 3.6 | 1.5 | June 2016 | | 1 | 0.8 | June 2016 | | 3.3 | 2.7 | June 2016 | | 2.9 | 1.4 |
| May 2016 | | 0.8 | 1.1 | May 2016 | | 0.4 | 0.8 | May 2016 | | 3.9 | 2.5 | May 2016 | | 1.5 | 1.1 |
| April 2016 | | 0.8 | 1.1 | April 2016 | | 0.9 | 0.9 | April 2016 | | 5.4 | 2.2 | April 2016 | | 1.4 | 1.0 |
| March 2016 | | 0.9 | 1.2 | March 2016 | | 0.7 | 0.9 | March 2016 | | 1.7 | 1.1 | March 2016 | | 0.6 | 0.8 |
| February 2016 | | 0.9 | 1.4 | February 2016 | | 0.7 | 1.0 | February 2016 | | 1.7 | 0.9 | February 2016 | | 0.6 | 0.9 |
| January 2016 | | 1.9 | 1.9 | January 2016 | | 1.2 | 1.2 | January 2016 | | 0 | 0.0 | January 2016 | | 1.2 | 1.2 |

Blast Monitoring

| Date | Time | Blast Location | Blast # | Monitor Location | Air Blast dBL | Ground Vibration (m/s) | Comment |
|-------------|----------|-------------------------|-----------|------------------|---------------|------------------------|---------|
| 2022 | | | | | | | |
| 28/10/2022 | 2:27 PM | RL Bench 940 East | 177 | Royalla Estate | 100.2 | 4.32 | |
| 20/12/2022 | 1:15 PM | RL Bench 940 West | 176 | Royalla Estate | 113.2 | 3.82 | |
| 30/03/2022 | 2:07 PM | RL Bench 955 East | 175 | Royalla Estate | 105.1 | 1.85 | |
| 2021 | | | | | | | |
| 21/12/2021 | 1:25 PM | RL Bench 955 | 174 | Royalla Estate | 100.4 | 2.55 | |
| 5/10/2021 | 2:09 PM | RL Bench 955 | 173 | Royalla Estate | 97.7 | 2.35 | |
| 20/07/2021 | 12:52 PM | RL Bench 955 | 172 | Royalla Estate | 98.1 | 3.83 | |
| 20/04/2021 | 2:36 PM | RL Bench 940 | 171 | Royalla Estate | 112.9 | 1.11 | |
| 5/03/2021 | 1:42 PM | RL Bench 940 | 170 | Royalla Estate | 99.8 | 1.29 | |
| 21/01/2021 | 11:32 AM | RL Bench 955 | 169 | Royalla Estate | 106.2 | 0.46 | |
| 2020 | | | | | | | |
| 24/11/2020 | 1:35 PM | RL Bench 925 | 168 | Royalla Estate | 111.6 | 2.51 | |
| 29/10/2020 | 2:19 PM | RL Bench 955 | 167 | Royalla Estate | 105.5 | 2.35 | |
| 9/10/2020 | 12:21 PM | RL Bench 925 | 166 | Royalla Estate | 103.7 | 2.74 | |
| 18/08/2020 | 1:18 PM | RL Bench 940 | 165 | Royalla Estate | 109 | 2.08 | |
| 12/06/2020 | 12:51 PM | RL Bench 955 & 940 | 164 a & b | Royalla Estate | 102.3 | 1.76 | |
| 31/03/2020 | 2:27 PM | RL Bench 940 | 163 | Royalla Estate | 98.4 | 2.5 | |
| 10/01/2020 | 1:12 PM | RL Bench 925 | 162 | Royalla Estate | 86.1 | 1.88 | |
| 2019 | | | | | | | |
| 13/12/2019 | 1:41 PM | RL Bench 925 | 161 | Royalla Estate | 82.6 | 1.65 | |
| 12/11/2019 | 12:02 PM | RL Bench 955 | 160 | Royalla Estate | Nil Trigger | Nil Trigger | |
| 15/08/2019 | 2:25 PM | RL Bench 940 | 159 | Royalla Estate | 99.2 | 3.39 | |
| 19/07/2019 | 2:40 PM | RL Bench 940 | 158 | Royalla Estate | 93.2 | 1.44 | |
| 21/05/2019 | 12:10 PM | RL Bench 955 | 157 | Royalla Estate | 104.8 | 3.43 | |
| 16/04/2019 | 1:36 PM | RL Bench 955 | 156 | Royalla Estate | 106.6 | 3.34 | |
| 26./03/2019 | 1:25 PM | RL Bench 910 | 155 | Royalla Estate | 110.6 | 2.75 | |
| 8/03/2019 | 10:23 AM | RL Bench 955 | 154 | Royalla Estate | 104.9 | 1.61 | |
| 12/02/2019 | 1:10 PM | RL Bench 910 | 153 | Royalla Estate | 105.8 | 0.98 | |
| 2018 | | | | | | | |
| 19/12/2018 | 1:29 PM | RL Bench 955 | 152 | Royalla Estate | 100.8 | 1.39 | |
| 23/11/2018 | 1:32 PM | RL Bench 925 | 151 | Royalla Estate | 97.3 | 0.76 | |
| 13/11/2018 | 11:45 AM | RL Bench 955 | 150 | Royalla Estate | 102 | 1.33 | |
| 26/10/2018 | 12:15 PM | Ramp Decline | 149 | Royalla Estate | Nil Trigger | Nil Trigger | |
| 12/10/2018 | 10:01 AM | RL Bench 955 | 148 | Royalla Estate | 103 | 2.15 | |
| 14/09/2018 | 2:02 PM | RL Bench 955 | 147 | Royalla Estate | 100.8 | 1.18 | |
| 27/08/2018 | 9:50 AM | RL Bench 955 | 146 | Royalla Estate | Nil Trigger | Nil Trigger | |
| 21/08/2019 | 1:31 PM | RL Bench 970 | 145 | Royalla Estate | 108.4 | 0.78 | |
| 17/07/2018 | 2:43 PM | RL Bench 970 | 144 | Royalla Estate | 101 | 1.22 | |
| 22/06/2018 | 1:01 PM | RL 910Bench | 143 | Royalla Estate | 99.8 | 0.86 | |
| 4/05/2018 | 1:44 PM | RL Bench 940 | 142 | Sherins Lane | 98.3 | 1.35 | |
| 22/05/2018 | 1:44 PM | RL Bench 970 | 141 | Royalla Estate | 102.1 | 1.69 | |
| 27/03/2018 | 1:15 PM | RL Bench 940 | 140 | Royalla Estate | 100.7 | 1.08 | |
| 16/02/2018 | 2:46 PM | RL Bench 925 | 139 | Royalla Estate | 111.3 | 0.92 | |
| 9/01/2018 | 2:58 PM | RL Bench 925 | 138 | Royalla Estate | 102.8 | 1.43 | |
| 2017 | | | | | | | |
| 14/11/2017 | 12:33 PM | RL Bench 940 | 137 | Royalla Estate | 94.4 | 1.94 | |
| 6/10/2017 | 12:52 PM | RL Bench 925 | 136 | Royalla Estate | 103.7 | 2.97 | |
| 18/08/2017 | 2:16 PM | RL Bench 925 | 135a | Royalla Estate | 86.3 | 2.14 | |
| 18/08/2017 | 2:16 PM | RL Bench 925 | 135 | Royalla Estate | 101.4 | 2.64 | |
| 5/07/2017 | 2:41 PM | RL Bench 925 | 134 | Royalla Estate | 101.9 | 2.72 | |
| 9/06/2017 | 1:53 PM | RL Bench 925 | 133 | Royalla Estate | 107.9 | 4.34 | |
| 9/05/2017 | 2:02 PM | | 132 | Royalla Estate | 100.9 | 1.46 | |
| 26/04/2017 | 2:10 PM | RL Bench 940 | 131 | Royalla Estate | 102 | 2.19 | |
| 8/03/2017 | | RL bench 955 | 130 | Royalla Estate | 86.3 | 2.14 | |
| 10/03/2017 | 9:39 AM | RL Bench 925 | 128 & 129 | Royalla Estate | 108.7 | 2.16 | |
| 23/02/2017 | 11:55 AM | RL940 Bench | 127 | Royalla Estate | 96.2 | 1 | |
| 31/01/2017 | 11:30 AM | Decline | 126 | Royalla Estate | 98 | 0.81 | |
| 2016 | | | | | | | |
| 19/12/2016 | 11:45 AM | Sheerins Lane 940 Bench | 125 | Royalla Estate | 94.5 | 0.76 | |
| 22/11/2016 | 2:43 PM | Sheerins Lane 940 Bench | 124 | Royalla Estate | 103.8 | 3.25 | |

| | | | | | | | |
|-------------|----------|--------------------------------------|-----|----------------|-------------|-------------|--|
| 11/10/2016 | 1:57 PM | Sheerins Lane 940 Bench | 123 | Royalla Estate | 97.2 | 2.56 | |
| 5/09/2016 | 1:47 PM | Sheerins Lane 940 Bench | 122 | Royalla Estate | 98.7 | 2.56 | |
| 15/08/2016 | 1:49 PM | Sheerins Lane 121 Decline Bench | 121 | Royalla Estate | 95.9 | 2.91 | |
| 20/07/2016 | 12:56 PM | Sheerins Lane 940 Bench | 120 | Royalla Estate | 97.2 | 2.72 | |
| 5/07/2016 | 1:57 PM | Sheerins Lane 940 Bench | 119 | Royalla Estate | 103.2 | 1.82 | |
| 17/06/2016 | 11:16 AM | Sheerins Lane 925 Bench | 118 | Royalla Estate | 94.3 | 2.85 | |
| 24/05/2016 | 1:32 PM | Sheerins Lane 955 Bench | 117 | Royalla Estate | 103.7 | 1.95 | |
| 17/05/2016 | 2:01 PM | Sheerins Lane 955 bench | 116 | Royalla Estate | 101.5 | 1.54 | |
| 10/05/2016 | 2:14 PM | Sheerins Lane 955 Bench Eastern Wall | 115 | Royalla Estate | 103.1 | 1.14 | |
| 1/04/2016 | 12:55 PM | Sheerins Lane RL940 Bench | 114 | Royalla Estate | 107.8 | 2.94 | |
| 29/02/2016 | 2:03 PM | Sheerins Lane 955 Bench | 113 | Royalla Estate | 99 | 1.27 | |
| 29./01/2016 | 12:00 PM | Sheerins Lane RL 940 Bench | 112 | Royalla Estate | Nil Trigger | Nil Trigger | |
| 22/01/2016 | 12:00 PM | Sheerins Lane RL 940 Bench | 111 | Royalla Estate | 102.8 | 1.17 | |

Summary of Noise Monitoring November 2018

| Location and Period | Criteria Level (dBA) | Measured noise levels (dBA) | | | Estimated site contribution (dBA) |
|---|----------------------|-----------------------------|------------------|------|-----------------------------------|
| | | LAMAX | L _{Aeq} | LA90 | L _{Aeq, 15 min} |
| N1 (South-west of quarry boundary) – Morning Shoulder | 35 | 87 | 64 | 36 | 33 |
| N1 (South-west of quarry boundary) - Day | 35 | 85 | 62 | 36 | 33 |
| N2 (Southern boundary) – Morning Shoulder | 35 | 83 | 60 | 34 | 32 |
| N2 (Southern boundary) - Day | 35 | 79 | 54 | 36 | 32 |
| N3 (Northern boundary) – Morning Shoulder | N/A | 64 | 45 | 32 | <30 |
| N3 (Northern boundary) – Day | N/A | 71 | 45 | 36 | <30 |

