



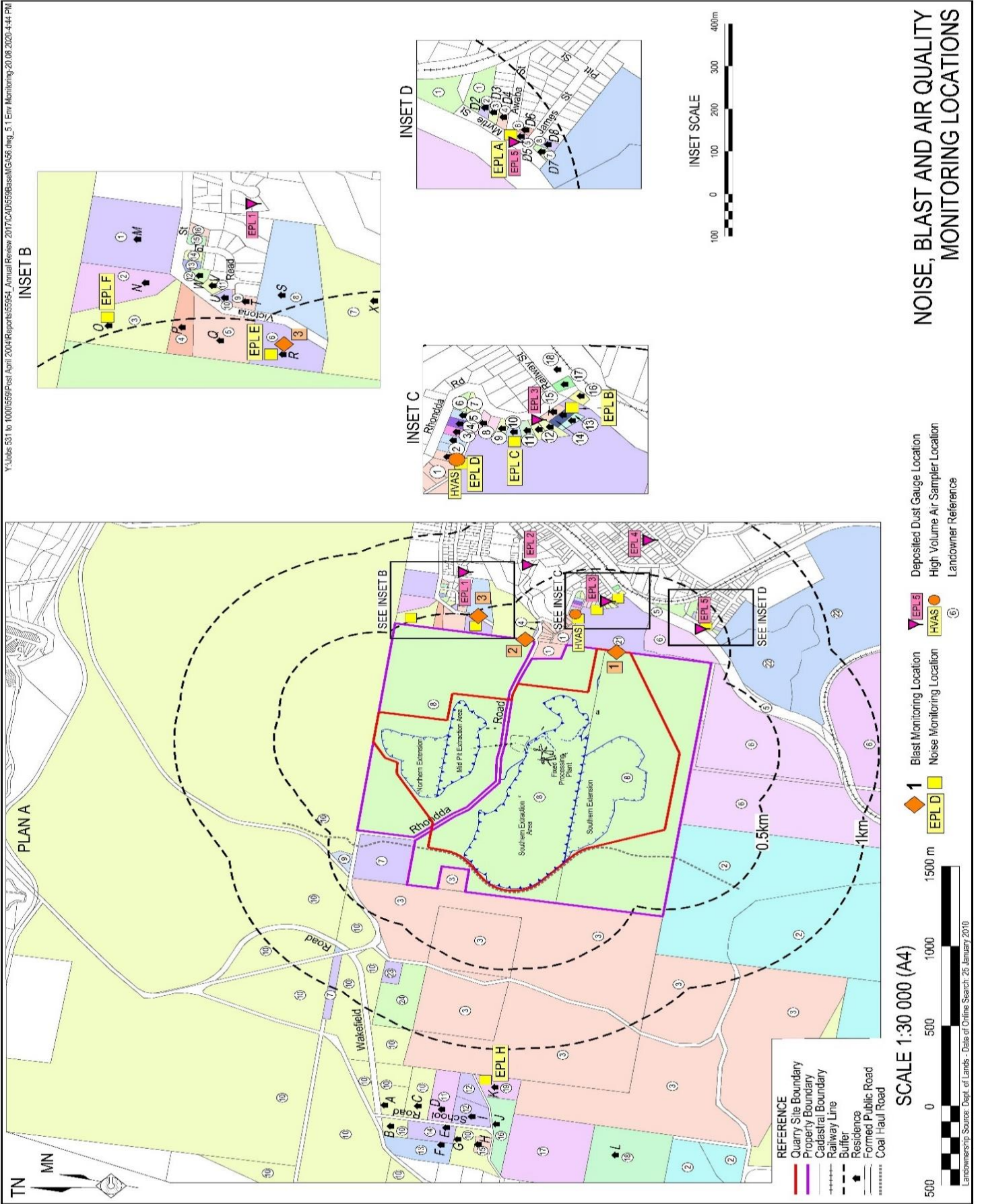
Teralba Quarry Environmental Monitoring Summary

October 2023

| | |
|--|---|
| Environmental Protection Licence (EPL): | 536 |
| Licensee: | Metromix Pty Limited |
| Licensee Address: | PO Box 1295 Parramatta, NSW 2124 |
| Premises: | Metromix Pty Limited Teralba Quarry Rhondda Road Teralba, NSW 2284 |
| Licensee Website: | https://www.metromix.com.au/ |
| Licensee Website - Monitoring Results: | https://www.metromix.com.au/resources/#quarry |
| EPA Public Register: | https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers |
| Prepared by: | R. W. Corkery & Co. |
| Sample Period: | October 2023 |
| Date Last Data Received | 13 November 2023 |
| Date of Report | 14 November 2023 |

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Deposited Dust

Sample Period Start: 03/10/2023
Sample Period End: 01/11/2023
Sample Frequency: 30 ± 2 days
Sample Collected By: Metromix - CD
Date Received by Laboratory: 01/11/2023
Date Results Received by Metromix: 10/11/2023

| EPA Identification No. | Location | Criteria (g/m ² /month) | Insoluble Solids (g/m ² /month) | Ash Fraction (g/m ² /month) | % Ash Fraction |
|------------------------|-------------------|------------------------------------|--|--|----------------|
| 1 | Hillside Crescent | 4.0 | 0.6 | 0.1 | 17 |
| 8 | Rodgers Street | 4.0 | 0.6 | 0.3 | 50 |
| 9 | Rhondda Road | 4.0 | 0.9 | 0.5 | 56 |
| 11 | Myrtle Street | 4.0 | 1.0 | 0.5 | 50 |
| 23 | York Street | 4.0 | 1.6 | 0.7 | 44 |

Comments

No exceedances of the approved criteria were detected during the sample period.

Deposited Dust - Year to Date

| | Rhondda Road | | | Myrtle Street | | | Hillside Crescent | | | Rodgers Street | | | York Street | | |
|---------------------------|-------------------------|-------------------------|------------|-------------------------|-------------------------|------------|-------------------------|-------------------------|------------|-------------------------|-------------------------|------------|-------------------------|-------------------------|------------|
| | Total Insoluble Solids | Ash Fraction | % Ash | Total Insoluble Solids | Ash Fraction | % Ash | Total Insoluble Solids | Ash Fraction | % Ash | Total Insoluble Solids | Ash Fraction | % Ash | Total Insoluble Solids | Ash Fraction | % Ash |
| Units | g/m ² /month | g/m ² /month | | g/m ² /month | g/m ² /month | | g/m ² /month | g/m ² /month | | g/m ² /month | g/m ² /month | | g/m ² /month | g/m ² /month | |
| EPA Approved Level | 4.0 | | | 4.0 | | | 4.0 | | | 4.0 | | | 4.0 | | |
| January | 0.2 | 0.2 | 100 | 0.5 | 0.4 | 80 | 0.3 | 0.3 | 100 | 0.4 | 0.2 | 50 | 0.8 | 0.6 | 75 |
| February | 5.2 | 4.5 | 87 | 0.4 | 0.1 | 25 | 0.5 | 0.1 | 20 | 0.4 | 0.2 | 50 | 0.8 | 0.2 | 25 |
| March | 2.1 | 1.6 | 76 | 1.3 | 0.8 | 62 | 0.7 | 0.3 | 43 | 0.8 | 0.5 | 63 | 1.1 | 0.7 | 64 |
| April | 0.4 | 0.2 | 50 | 0.4 | 0.1 | 25 | 0.3 | 0.1 | 33 | 0.3 | 0.1 | 33 | 0.4 | 0.2 | 50 |
| May | 0.5 | 0.2 | 40 | 0.3 | 0.1 | 33 | 0.4 | 0.1 | 25 | 0.3 | 0.1 | 33 | 0.7 | 0.2 | 29 |
| June | 0.3 | 0.2 | 67 | 0.3 | 0.2 | 67 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 100 | 0.5 | 0.3 | 60 |
| July | 1.2 | 1.0 | 83 | 0.3 | 0.3 | 100 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 100 |
| August | 0.5 | 0.2 | 40 | 0.6 | 0.2 | 33 | 0.4 | 0.4 | 100 | 0.4 | 0.1 | 25 | 0.7 | 0.3 | 43 |
| September | 1.0 | 0.7 | 70 | 0.4 | 0.3 | 75 | 0.2 | 0.2 | 100 | 0.3 | 0.2 | 67 | 0.4 | 0.1 | 25 |
| October | 0.9 | 0.5 | 56 | 1.0 | 0.5 | 50 | 0.6 | 0.1 | 17 | 0.6 | 0.3 | 50 | 1.6 | 0.7 | 44 |
| November | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | |
| Annual Average | 1.2 | 0.9 | 67 | 0.6 | 0.3 | 55 | 0.4 | 0.2 | 64 | 0.4 | 0.2 | 57 | 0.7 | 0.3 | 51 |
| Annual Maximum | 5.2 | 4.5 | 100 | 1.3 | 0.8 | 100 | 0.7 | 0.4 | 100 | 0.8 | 0.5 | 100 | 1.6 | 0.7 | 100 |
| Annual Minimum | 0.2 | 0.2 | 40 | 0.3 | 0.1 | 25 | 0.1 | 0.1 | 17 | 0.1 | 0.1 | 25 | 0.1 | 0.1 | 25 |

Particulate Matter (PM₁₀)

Sample Location: EPA 3 - Rodgers Street
Sample Frequency: 6 days

| Date Sample Taken (24-hr) | Collected by | Date Results Received | PM ₁₀ µg/m ³ | Monthly Average Criteria (µg/m ³) | Annual Average Criteria (µg/m ³) |
|---------------------------|--------------|-----------------------|------------------------------------|---|--|
| 02/10/2023 | CBased - AH | 10/10/2023 | 35.5 | 50 | |
| 08/10/2023 | CBased - TD | 16/10/2023 | 5.4 | 50 | |
| 14/10/2023 | CBased - TD | 25/10/2023 | 6.9 | 50 | |
| 20/10/2023 | CBased - TD | 31/10/2023 | 16.9 | 50 | |
| 26/10/2023 | CBased - LK | 06/11/2023 | 7.5 | 50 | |
| Monthly Average | | | 14.4 | | 25/30* |

*Project Approval (PA 10_0183) outlines the annual average PM₁₀ criteria to be 30µg/m³. However, EPL 536 Condition R4.5a) requires that the air quality monitoring data is assessed against the Air Impact Assessment Criteria outlined in EPA's *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW*. The most up to date version of this guideline was published in 2022 and outlines the annual average PM₁₀ criteria to be 25µg/m³. Metromix has considered both criteria for its review of particulate matter monitoring.

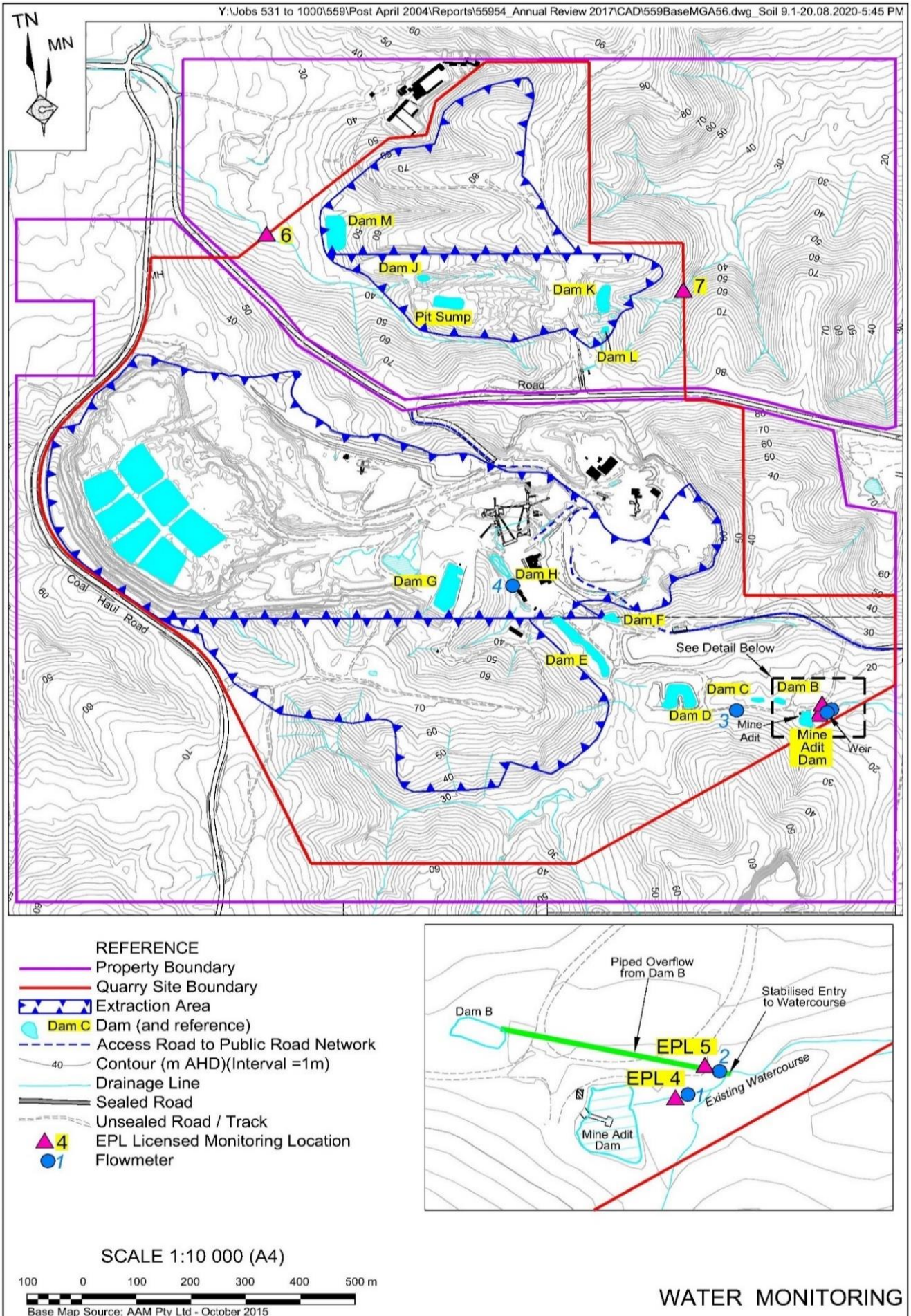
Comments

The monthly average of PM₁₀ results remained below the approved criteria for the sample period.

Particulate Matter (PM₁₀) - Year to Date

| Date | PM ₁₀ (µg/m ³) | Monthly Average (µg/m ³) | Year to Date Average (µg/m ³) | 24-Hr Criteria (µg/m ³) | Comments |
|------------|--|--|--|--|---|
| 05/01/2023 | 15.0 | 12.5 | 15.0 | 50 | |
| 11/01/2023 | 11.4 | | 13.2 | 50 | |
| 17/01/2023 | 10.5 | | 12.3 | 50 | |
| 23/01/2023 | 9.6 | | 11.6 | 50 | |
| 29/01/2023 | 16.1 | | 12.5 | 50 | |
| 04/02/2023 | 11.5 | 14.9 | 12.4 | 50 | |
| 10/02/2023 | 12.8 | | 12.4 | 50 | |
| 16/02/2023 | 23.6 | | 13.8 | 50 | |
| 22/02/2023 | 12.0 | | 13.6 | 50 | |
| 28/02/2023 | 14.4 | | 13.7 | 50 | |
| 06/03/2023 | 27.3 | 20.7 | 14.9 | 50 | |
| 12/03/2023 | 23.6 | | 15.7 | 50 | |
| 18/03/2023 | 27.5 | | 16.6 | 50 | |
| 24/03/2023 | 12.4 | | 16.3 | 50 | |
| 30/03/2023 | 12.8 | | 16.0 | 50 | |
| 05/04/2023 | 12.2 | 10.9 | 15.8 | 50 | |
| 11/04/2023 | 10.0 | | 15.5 | 50 | |
| 17/04/2023 | 11.8 | | 15.3 | 50 | |
| 23/04/2023 | 9.3 | | 14.9 | 50 | |
| 29/04/2023 | 11.4 | | 14.8 | 50 | |
| 05/05/2023 | 11.2 | 13.1 | 14.6 | 50 | |
| 11/05/2023 | 14.3 | | 14.6 | 50 | |
| 17/05/2023 | 11.2 | | 14.4 | 50 | Short run due to power outage (1,365 minutes) |
| 23/05/2023 | 21.0 | | 14.7 | 50 | |
| 29/05/2023 | 8.0 | | 14.4 | 50 | |
| 04/06/2023 | 13.2 | 11.4 | 14.4 | 50 | |
| 10/06/2023 | 6.9 | | 14.1 | 50 | |
| 16/06/2023 | 13.3 | | 14.1 | 50 | |
| 22/06/2023 | 16.0 | | 14.1 | 50 | |
| 28/06/2023 | 7.5 | | 13.9 | 50 | |
| 04/07/2023 | 9.4 | 11.6 | 13.8 | 50 | |
| 10/07/2023 | 12.9 | | 13.8 | 50 | |
| 16/07/2023 | 9.3 | | 13.6 | 50 | |
| 22/07/2023 | 9.8 | | 13.5 | 50 | |
| 28/07/2023 | 16.8 | | 13.6 | 50 | |
| 03/08/2023 | 12.9 | 9.7 | 13.6 | 50 | |
| 09/08/2023 | 8.4 | | 13.4 | 50 | |
| 15/08/2023 | 5.9 | | 13.2 | 50 | |
| 21/08/2023 | 13.4 | | 13.2 | 50 | |
| 27/08/2023 | 8.0 | | 13.1 | 50 | |
| 02/09/2023 | 10.2 | 18.7 | 13.0 | 50 | |
| 08/09/2023 | 6.8 | | 12.9 | 50 | |
| 14/09/2023 | 16.8 | | 13.0 | 50 | |
| 20/09/2023 | 39.0 | | 13.6 | 50 | |
| 26/09/2023 | 20.7 | | 13.7 | 50 | |
| 02/10/2023 | 35.5 | 14.4 | 14.2 | 50 | |
| 08/10/2023 | 5.4 | | 14.0 | 50 | |
| 14/10/2023 | 6.9 | | 13.9 | 50 | |
| 20/10/2023 | 16.9 | | 13.9 | 50 | |
| 26/10/2023 | 7.5 | | 13.8 | 50 | |

| | |
|---|--------|
| Minimum | 5.4 |
| Maximum | 39.0 |
| Average | 13.8 |
| Standard Deviation | 7.1 |
| 24-hr Criteria | 50 |
| Number of Exceedences | 0 |
| Annual Average Criteria | 25/30* |
| Annual Average Criteria Exceeded | No |
| *See explanation on previous page. | |



Water**Water Monitoring****EPL Point 4 - Monthly Monitoring**

| Date | Time | Sampled By | Date Results Received | | pH | EC | TSS | Oil & Grease | Comments |
|------------|---------|---------------|-----------------------|-----------------------------|----------|----------|------|--------------|----------|
| | | | | Units | pH Units | µS/cm | mg/L | mg/L | |
| | | | | EPL Criterion* | 6.5-8.5 | NA | <50 | 10 | |
| | | | | ANZECC Water Quality Limits | 6.5-8.5 | 125-2200 | <50 | - | |
| 06/11/2023 | 07:30am | Metromix - CD | 13/11/2023 | | 7.4 | 2050 | <5 | <5 | |

EPL Point 5 - Monitoring Daily During Discharge

| Date | Time | Sampled By | Date Results Received | | pH | EC | TSS | Oil & Grease | Comments |
|---|------|------------|-----------------------|-----------------------------|----------|----------|------|--------------|----------|
| | | | | Units | pH Units | µS/cm | mg/L | mg/L | |
| | | | | EPL Criterion* | 6.5-8.5 | NA | <50 | 10 | |
| | | | | ANZECC Water Quality Limits | 6.5-8.5 | 125-2200 | <50 | - | |
| No discharge occurred at this location and therefore no monitoring was required | | | | | | | | | |

EPL Point 6 - Monthly Monitoring

| Date | Time | Sampled By | Date Results Received | | pH | EC | TSS | Oil & Grease | Comments |
|---|------|------------|-----------------------|-----------------------------|----------|----------|------|--------------|----------|
| | | | | Units | pH Units | µS/cm | mg/L | mg/L | |
| | | | | EPL Criterion* | 6.5-8.5 | NA | <50 | 10 | |
| | | | | ANZECC Water Quality Limits | 6.5-8.5 | 125-2200 | <50 | - | |
| No discharge occurred at this location and therefore no monitoring was required | | | | | | | | | |

EPL Point 7 - Monthly Monitoring

| Date | Time | Sampled By | Date Results Received | | pH | EC | TSS | Oil & Grease | Comments |
|---|------|------------|-----------------------|-----------------------------|----------|----------|------|--------------|----------|
| | | | | Units | pH Units | µS/cm | mg/L | mg/L | |
| | | | | EPL Criterion* | 6.5-8.5 | NA | <50 | 10 | |
| | | | | ANZECC Water Quality Limits | 6.5-8.5 | 125-2200 | <50 | - | |
| No discharge occurred at this location and therefore no monitoring was required | | | | | | | | | |

Flow Meter Records

| EPA Identified Point | Location | Description | Sample Period | Daily Average Flow ML | Monthly Total Flow ML |
|----------------------|----------|--|-------------------------|-----------------------|-----------------------|
| 4 | Adit Dam | Adit Dam to Creek (off site) | 01/10/2023 - 01/11/2023 | 0.04 | 1.4 |
| 5 | Dam B | Discharge from Dam B (from Quarry) | 01/10/2023 - 01/11/2023 | 0.00 | 0.0 |
| 4 | Adit Dam | Water pumped from Adit Dam to Dam G (processing use) | 01/10/2023 - 01/11/2023 | 2.89 | 89.5 |

Comments

All water monitoring results remained within the approved criteria levels during the monitoring period.

Water - Year to Date**EPL Point 4 : Monthly Monitoring**

| | pH | EC | TSS | Oil & Grease | Comments |
|-----------------------------|-----------|-----------|------------|-------------------------|-----------------|
| Units | pH Units | µS/cm | mg/L | mg/L | - |
| EPL Criterion* | 6.5-8.5 | NA | <50 | 10 | - |
| ANZECC Water Quality Limits | 6.5-8.5 | 125-2200 | <50 | - | - |
| January | 7.3 | 2090 | <5 | 6 | - |
| February | 7.2 | 1740 | <5 | <5 | - |
| March | 7.5 | 1710 | <5 | <5 | - |
| April | 7.2 | 1760 | 14 | <5 | - |
| May | 7.3 | 1840 | <5 | <5 | - |
| June | 7.4 | 1980 | <5 | <5 | - |
| July | 8.0 | 1890 | 30 | <5 | - |
| August | 7.3 | 1860 | 16 | <5 | - |
| September | 7.3 | 2170 | 8 | <5 | - |
| October | 7.4 | 2050 | <5 | <5 | - |
| November | | | | | |
| December | | | | | |

EPL Point 5 : Monitoring During Discharge

| | pH | EC | TSS | Oil & Grease | Comments |
|-----------------------------|-----------|-----------|------------|-------------------------|--|
| Units | pH Units | µS/cm | mg/L | mg/L | - |
| EPL Criterion* | 6.5-8.5 | NA | <50 | 10 | - |
| ANZECC Water Quality Limits | 6.5-8.5 | 125-2200 | <50 | - | - |
| 23 February | 7.2 | 332 | 95 | <5 | TSS exceedance due to significant rainfall |
| 1 March | 6.8 | 642 | 12 | <5 | - |
| 3 March | 6.8 | 634 | <5 | <5 | - |
| 3 April | 7.0 | 649 | 18 | <5 | - |
| 1 May | 7.0 | 630 | <5 | <5 | - |

Flow Meter Records

| EPA Identifier | Location | Description | Date | Monthly |
|----------------|----------|--|-------------------------|---------|
| 4 | Adit Dam | Water pumped from Adit Dam to Dam G (processing use) | 03/01/2023 - 02/02/2023 | 0.2 |
| | | | 02/02/2023 - 01/03/2023 | 98.9 |
| | | | 01/03/2023 - 03/04/2023 | 84.8 |
| | | | 03/04/2023 - 01/05/2023 | 80.5 |
| | | | 01/05/2023 - 01/06/2023 | 114.2 |
| | | | 01/06/2023 - 01/07/2023 | 102.0 |
| | | | 01/07/2023 - 01/08/2023 | 96.7 |
| | | | 01/08/2023 - 01/09/2023 | 90.8 |
| | | | 01/09/2023 - 01/10/2023 | 90.0 |
| | | | 01/10/2023 - 01/11/2023 | 89.5 |
| | | | | |
| | | | | |
| | | | | |

| EPA Identifier | Location | Description | Date | Monthly |
|----------------|----------|------------------------------------|-------------------------|---------|
| 5 | Dam B | Discharge from Dam B (from Quarry) | 03/01/2023 - 02/02/2023 | 0.0 |
| | | | 02/02/2023 - 01/03/2023 | 5.1 |
| | | | 01/03/2023 - 03/04/2023 | 3.7 |
| | | | 03/04/2023 - 01/05/2023 | 1.7 |
| | | | 01/05/2023 - 01/06/2023 | 0.1 |
| | | | 01/06/2023 - 01/07/2023 | 0.0 |
| | | | 01/07/2023 - 01/08/2023 | 0.0 |
| | | | 01/08/2023 - 01/09/2023 | 0.0 |
| | | | 01/09/2023 - 01/10/2023 | 0.0 |
| | | | 01/10/2023 - 01/11/2023 | 0.0 |
| | | | | |
| | | | | |
| | | | | |

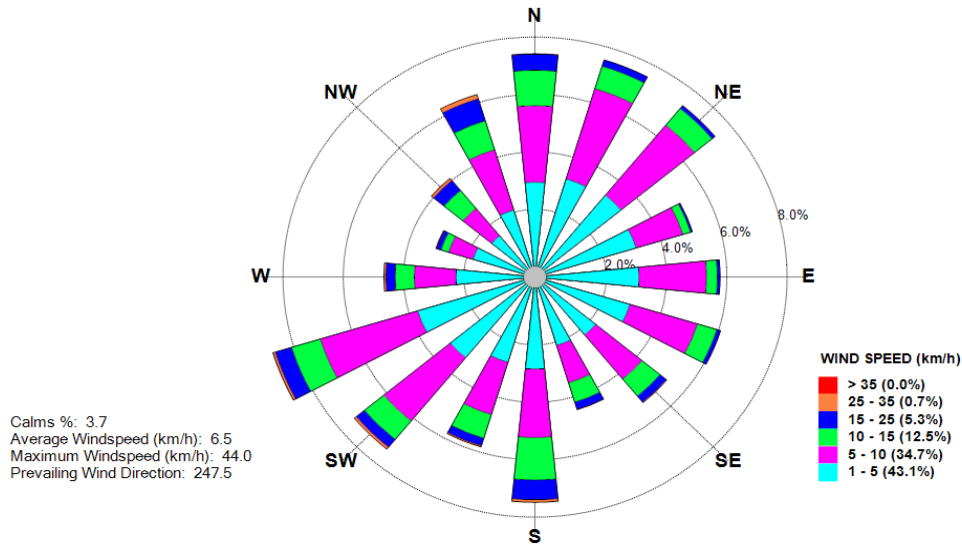
| EPA Identifier | Location | Description | Date | Monthly |
|----------------|----------|------------------------------|-------------------------|---------|
| 4 | Adit Dam | Adit Dam to Creek (off site) | 03/01/2023 - 02/02/2023 | 20.3 |
| | | | 02/02/2023 - 01/03/2023 | 37.6 |
| | | | 01/03/2023 - 03/04/2023 | 106.1 |
| | | | 03/04/2023 - 01/05/2023 | 71.1 |
| | | | 01/05/2023 - 01/06/2023 | 22.1 |
| | | | 01/06/2023 - 01/07/2023 | 11.8 |
| | | | 01/07/2023 - 01/08/2023 | 7.2 |
| | | | 01/08/2023 - 01/09/2023 | 10.4 |
| | | | 01/09/2023 - 01/10/2023 | 0.1 |
| | | | 01/10/2023 - 01/11/2023 | 1.4 |
| | | | | |
| | | | | |
| | | | | |

Meteorological Conditions

Monitoring Location: Mid-Pit Entrance
Monitoring Frequency: Continuous

Windrose

Metromix Teralba - Windrose OCTOBER 2023



Monthly Summary

| Date | Mean Wind Direction (°) | Mean Wind Speed (km/h) | Daily Rainfall (mm) | Mean Sigma Theta | Max Temperature (°C) at 2m | Min Temperature (°C) at 2m |
|----------|-------------------------|------------------------|---------------------|------------------|----------------------------|----------------------------|
| 01/10/23 | 198 | 10.4 | 0.0 | 32.3 | 35.2 | 18.2 |
| 02/10/23 | 154 | 5.7 | 0.0 | 32.7 | 24.0 | 15.8 |
| 03/10/23 | 120 | 6.7 | 0.0 | 26.9 | 36.4 | 14.8 |
| 04/10/23 | 154 | 9.0 | 7.8 | 33.0 | 30.4 | 11.4 |
| 05/10/23 | 249 | 12.5 | 0.0 | 33.5 | 23.2 | 12.2 |
| 06/10/23 | 194 | 6.1 | 6.6 | 34.4 | 22.0 | 10.4 |
| 07/10/23 | 191 | 6.3 | 2.0 | 38.6 | 19.4 | 11.0 |
| 08/10/23 | 164 | 4.4 | 0.0 | 30.5 | 21.8 | 11.2 |
| 09/10/23 | 140 | 4.1 | 0.0 | 26.9 | 26.6 | 10.0 |
| 10/10/23 | 165 | 4.9 | 0.0 | 35.1 | 23.6 | 13.8 |
| 11/10/23 | 125 | 4.0 | 0.0 | 32.6 | 25.6 | 15.6 |
| 12/10/23 | 201 | 8.2 | 0.0 | 28.5 | 33.8 | 12.9 |
| 13/10/23 | 211 | 6.8 | 0.0 | 31.8 | 24.4 | 13.0 |
| 14/10/23 | 262 | 6.2 | 0.0 | 33.3 | 30.6 | 12.8 |
| 15/10/23 | 198 | 5.1 | 0.0 | 29.9 | 27.2 | 15.0 |
| 16/10/23 | 230 | 8.5 | 0.0 | 28.9 | 29.6 | 13.4 |
| 17/10/23 | 203 | 9.3 | 2.6 | 31.3 | 21.4 | 11.4 |
| 18/10/23 | 175 | 5.3 | 0.2 | 37.4 | 21.8 | 12.0 |
| 19/10/23 | 124 | 4.3 | 0.0 | 36.1 | 23.6 | 14.8 |
| 20/10/23 | 128 | 4.2 | 0.0 | 30.1 | 27.8 | 13.0 |
| 21/10/23 | 132 | 4.2 | 0.0 | 29.6 | 29.1 | 15.2 |
| 22/10/23 | 161 | 5.9 | 0.0 | 33.7 | 33.6 | 17.2 |
| 23/10/23 | 175 | 4.8 | 0.0 | 31.2 | 26.4 | 14.8 |
| 24/10/23 | 166 | 4.7 | 0.0 | 27.4 | 33.2 | 13.0 |
| 25/10/23 | 144 | 7.2 | 4.2 | 34.2 | 25.0 | 15.8 |
| 26/10/23 | 183 | 8.5 | 35.2 | 36.2 | 15.8 | 11.4 |
| 27/10/23 | 179 | 8.1 | 16.2 | 37.7 | 19.4 | 11.4 |
| 28/10/23 | 167 | 4.9 | 0.2 | 31.3 | 20.4 | 10.4 |
| 29/10/23 | 92 | 6.1 | 0.0 | 25.4 | 26.8 | 12.2 |
| 30/10/23 | 150 | 9.5 | 0.0 | 23.6 | 33.6 | 13.2 |
| 31/10/23 | 185 | 7.1 | 0.0 | 35.1 | 32.0 | 17.0 |

Meteorological Conditions - Year to Date

| Monitored Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-----|-----|--------|
| Total Rainfall (mm) | 120.0 | 217.0 | 169.4 | 131.8 | 37.8 | 8.6 | 39.4 | 49.0 | 18.6 | 75.0 | | | |
| Average Minimum Temperature (°C) at 2m | 14.8 | 16.2 | 13.2 | 10.1 | 6.0 | 2.4 | 6.4 | 6.8 | 7.0 | 10.0 | | | |
| Average Maximum Temperature (°C) at 2m | 35.6 | 37.6 | 38.4 | 26.8 | 23.6 | 24.6 | 24.8 | 26.8 | 35.2 | 36.4 | | | |
| Average Minimum Temperature (°C) at 10m | 14.9 | 16.7 | 13.7 | 10.7 | 7.0 | 2.9 | 7.1 | 7.4 | 7.5 | 10.8 | | | |
| Average Maximum Temperature (°C) at 10m | 34.9 | 36.4 | 37.7 | 26.2 | 23.1 | 23.6 | 24.4 | 25.9 | 34.6 | 35.4 | | | |
| Average Sigma Theta | 33.6 | 31.9 | 30.7 | 29.5 | 29.9 | 31.1 | 31.5 | 29.8 | 29.4 | 31.9 | | | |
| Average Solar Radiation (W/m ²) | 215.6 | 222.6 | 171.3 | 130.1 | 116.0 | 94.5 | 101.2 | 129.1 | 178.0 | 220.3 | | | |
| Average Relative Humidity (%) | 73.0 | 65.0 | 67.0 | 70.0 | 60.0 | 60.0 | 62.0 | 67.0 | 55.0 | 56.0 | | | |

Blasting

Monitoring Frequency: Each Blast
Blast Monitoring Completed By: MAXAM

| Shot # | Day | Month | Time | Location | Location 1 | | Location 2 | | Location 3 | | Comments |
|--------|-----|-----------|----------|------------|--------------|-----------|--------------|-----------|--------------|-----------|---|
| | | | | | Overpressure | Vibration | Overpressure | Vibration | Overpressure | Vibration | |
| | | | | | dB(L) | mm/s | dB(L) | mm/s | dB(L) | mm/s | |
| 1 | 19 | January | 13:39:30 | Stage 1C | 104.7 | 0.60 | 100.8 | 0.06 | NM | NM | Nil Trigger on monitor at bottom wheel wash |
| 2 | 8 | February | 13:52:29 | Stage 2B-3 | 104.9 | 0.37 | NT | NT | NM | NM | |
| 3 | 22 | February | 12:03:50 | Stage 2B-2 | 104.7 | 0.30 | 101.7 | 0.14 | NM | NM | |
| 4 | 3 | March | 10:44:46 | Stage 2B-3 | 108.0 | 0.28 | 102.7 | 0.16 | NM | NM | |
| 5 | 24 | March | 11:35:01 | Stage 1C | 104.7 | 0.23 | 108.4 | 0.79 | NM | NM | |
| 6 | 31 | March | 14:51:00 | Stage 2B-1 | NT | 0.28 | NT | 0.28 | NM | NM | |
| 7 | 26 | April | 15:06:42 | Stage 1C | NT | NT | 103.9 | 0.48 | NM | NM | |
| 8 | 11 | May | 12:54:29 | Stage 2B-1 | NT | NT | 103.7 | 0.06 | NM | NM | |
| 9 | 23 | May | 14:48:41 | Stage 1C | 105.5 | 0.16 | 98.5 | 0.06 | NM | NM | |
| 10 | 2 | June | 10:25:49 | Stage 2B-2 | 101.6 | 0.16 | 96.8 | 0.06 | NM | NM | |
| 11 | 14 | June | 12:11:36 | Stage 2B-2 | 112.3 | 0.31 | 108.6 | 0.06 | NM | NM | |
| 12 | 23 | June | 11:53:00 | Stage 1C | 108.6 | 0.29 | 104.2 | 0.06 | NM | NM | |
| 13 | 7 | July | 11:31:00 | Stage 2B-3 | 107.2 | 0.30 | 106.3 | 0.06 | NM | NM | Shots #13 and #14 occurred simultaneously |
| 14 | 7 | July | 11:31:00 | Stage 1C | 107.2 | 0.30 | 106.3 | 0.06 | NM | NM | Shots #13 and #14 occurred simultaneously |
| 15 | 19 | July | 11:29:00 | Stage 2B-1 | 108.4 | 0.29 | 106.3 | 0.09 | NM | NM | |
| 16 | 2 | August | 11:31:00 | Stage 1C | 107.8 | 0.37 | 112.0 | 0.48 | NM | NM | |
| 17 | 22 | August | 12:15:00 | Stage 1C | 106.7 | 0.45 | 101.8 | 0.13 | NM | NM | |
| 18 | 20 | September | 13:00:45 | Stage 2B1 | 110.8 | 0.34 | 106 | 0.06 | NM | NM | |
| 19 | 26 | September | 11:41:39 | Stage 2B3 | 107.2 | 0.36 | 107 | 0.06 | NM | NM | |
| 20 | 4 | October | 11:25:26 | Stage 2B1 | 107.4 | 0.34 | 98.5 | 0.06 | NM | NM | |
| 21 | 13 | October | 10:49:22 | Stage 3 | 104.7 | 0.3 | 97.7 | 0.09 | NM | NM | |
| 22 | 25 | October | 11:56:36 | Stage 2B1 | 99.7 | 0.35 | 101.8 | 0.06 | NM | NM | |

NT Not Triggered
NM Not Monitored

Blasting Criteria

| Parameter | Units of Measure | Limit | |
|---|------------------------|------------------------|----------------|
| | | 95% of blasts per year | 100% of blasts |
| Airblast Overpressure (Linear Peak) | decibels (dBL) | 115 | 120 |
| Ground Vibration (Peak Particle Velocity) | millimeters per second | 5 | 10 |

Comments

Three blasting events occurred during the monitoring period. All blast monitoring results were within the approved criteria.

Waste Management**Waste Removal Summary**

| Month | January | February | March | April | May | June | July | August | September | October | November | December |
|--|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| Item | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity | Quantity |
| General Waste Bin (10m ³) | - | - | - | - | - | - | - | - | - | - | | |
| General Waste Bin (4.5m ³) | - | - | - | - | - | - | - | - | - | - | | |
| General Waste Bin (6m ³) | - | - | - | - | - | - | - | - | - | - | | |
| General Waste Bin (20m ³) | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | | |
| Paper & Cardboard Bin (3m ³) | 2 | 1 | - | 1 | 1 | 2 | 1 | 2 | 1 | - | | |
| Shredded Paper Bin (240L) | - | - | - | - | - | - | 1 | - | - | 2 | | |
| Co Mingled Recycling (2 x 240 L) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Tonner Cartridges | - | - | - | - | - | - | - | - | - | - | | |
| Waste Oil (L) | - | - | - | - | - | - | - | - | - | - | | |
| Scrap Steel (t) | - | 4.12 | - | 2.48 | - | 3.58 | 3.66 | 3.66 | - | - | | |
| Timber (m ³) | - | - | - | - | - | - | - | - | - | - | | |
| Engine Coolant (L) | - | - | - | - | - | - | - | - | - | - | | |
| Oil Filters (240L bin) | - | - | - | 6 | - | - | - | 3 | - | - | | |
| Batteries | - | - | - | - | - | - | - | - | - | - | | |
| Oily Rags (240L bin) | - | - | - | - | - | - | - | - | - | - | | |
| Aerosols (120L bin) | - | - | - | - | - | - | - | - | - | - | | |
| Tyres | - | - | - | - | - | - | - | - | - | - | | |
| Other | - | - | - | - | - | - | - | 16.4 | - | - | | |
| Oily Water (L) | - | - | - | - | - | - | - | 3.42 | - | - | | |
| Grease Waste (L) | - | - | - | - | - | - | - | - | - | - | | |