

**AuS-10 Rhyolite - Licence number 12323**

**Dam 1 - SB1 - EPL Point 1**

Licence Discharge Point 1

| Guidance range |                   | Range - 6.5 - 8.5 | <1500us/cm              |                |                        | <30 mg/l             | 20             | 10 mg/l        |                        |               |
|----------------|-------------------|-------------------|-------------------------|----------------|------------------------|----------------------|----------------|----------------|------------------------|---------------|
| Month          | Number of Samples | pH                | Electrical Conductivity | Turbidity      | Total Dissolved Solids | Total Suspend Solids | Oxygen demand  | Oil/Grease     | Volume Discharged - KL | Comment       |
| Jul-2018       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Aug-2018       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Sep-2018       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Oct-2018       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Nov-2018       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Dec-2018       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Jan-2019       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Feb-2019       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Mar-2019       | 0                 |                   |                         |                |                        |                      |                |                |                        | Nil Discharge |
| Apr-2019       |                   |                   |                         |                |                        |                      |                |                |                        |               |
| May-2019       |                   |                   |                         |                |                        |                      |                |                |                        |               |
| Jun-2019       |                   |                   |                         |                |                        |                      |                |                |                        |               |
| <b>Total</b>   |                   | <b>0</b>          | <b>0</b>                | <b>0</b>       | <b>0</b>               | <b>0</b>             | <b>0</b>       | <b>0</b>       |                        |               |
|                | Mean              | <b>#DIV/0!</b>    | <b>#DIV/0!</b>          | <b>#DIV/0!</b> | <b>#DIV/0!</b>         | <b>#DIV/0!</b>       | <b>#DIV/0!</b> | <b>#DIV/0!</b> |                        |               |
|                | Lowest            | <b>0.00</b>       | <b>0.00</b>             | <b>0.00</b>    | <b>0.00</b>            | <b>0.00</b>          | <b>0.00</b>    | <b>0.00</b>    |                        |               |
|                | Highest           | <b>0.00</b>       | <b>0.00</b>             | <b>0.00</b>    | <b>0.00</b>            | <b>0.00</b>          | <b>0.00</b>    | <b>0.00</b>    |                        |               |

**EPL POINT 2** Range - 6.5 - 8.5

Upstream Location AQW-1

| Month        | Number of Samples | pH          | Electrical Conductivity | Turbidity     | Total Dissolved Solids | Total Suspend Solids | Oxygen demand | Oil/Grease     | Volume Discharged - KL |
|--------------|-------------------|-------------|-------------------------|---------------|------------------------|----------------------|---------------|----------------|------------------------|
| Jul-2018     | 1                 | 7.6         | 652                     | 1.2           | 330                    | <5                   | <2            | <5             | Nil Discharge          |
| Aug-2018     | 1                 | 6.5         | 619                     | 1.3           | 398                    | <5                   | <2            | <5             | Nil Discharge          |
| Sep-2018     | 1                 | 8.1         | 704                     | 2.1           | 359                    | <5                   | <2            | <5             | Nil Discharge          |
| Oct-2018     | 1                 | 8.0         | 601                     | 1.3           | 347                    | <5                   | <2            | <5             | Nil Discharge          |
| Nov-2018     | 1                 | 8.5         | 727                     | 1.7           | 408                    | <5                   | 2             | <5             | Nil Discharge          |
| Dec-2018     | 1                 | 8.8         | 232                     | 162           | 188                    | 162                  | 2             | <5             | Nil Discharge          |
| Jan-2019     | 1                 | 8.4         | 794                     | 2.9           | 4.5                    | <5                   | <2            | <5             | Nil Discharge          |
| Feb-2019     | 1                 | 8.1         | 730                     | 2             | 448                    | <5                   | 4             | <5             | Nil Discharge          |
| Mar-2019     | 1                 | 8.1         | 589                     | 2.2           | 386                    | 6                    | <2            | <5             | Nil Discharge          |
| Apr-2019     |                   |             |                         |               |                        |                      |               |                |                        |
| May-2019     |                   |             |                         |               |                        |                      |               |                |                        |
| Jun-2019     |                   |             |                         |               |                        |                      |               |                |                        |
| <b>Total</b> |                   | <b>72.1</b> | <b>5648</b>             | <b>176.7</b>  | <b>2868.5</b>          | <b>168</b>           | <b>8</b>      | <b>0</b>       |                        |
|              | Mean              | <b>6.01</b> | <b>470.67</b>           | <b>14.73</b>  | <b>239.04</b>          | <b>14.00</b>         | <b>0.67</b>   | <b>0.00</b>    |                        |
|              | Lowest            | <b>8.01</b> | <b>627.56</b>           | <b>19.63</b>  | <b>318.72</b>          | <b>84.00</b>         | <b>2.67</b>   | <b>#DIV/0!</b> |                        |
|              | Highest           | <b>6.50</b> | <b>232.00</b>           | <b>1.20</b>   | <b>4.50</b>            | <b>6.00</b>          | <b>2.00</b>   | <b>0.00</b>    |                        |
|              |                   | <b>8.80</b> | <b>794.00</b>           | <b>162.00</b> | <b>448.00</b>          | <b>162.00</b>        | <b>4.00</b>   | <b>0.00</b>    |                        |

**EPL Point 3**  
COXS RIVER LOWER CROSSING 6/7/2011 - AQW3

| Month        | Number of Samples | pH          | Electrical Conductivity | Turbidity     | Total Dissolved Solids | Total Suspend Solids | Oxygen demand | Oil/Grease     | Volume Discharged - KL |
|--------------|-------------------|-------------|-------------------------|---------------|------------------------|----------------------|---------------|----------------|------------------------|
| Jul-2018     | 1                 | 7.8         | 653                     | 1.2           | 328                    | <5                   | <2            | <5             | Nil Discharge          |
| Aug-2018     | 1                 | 7.2         | 607                     | 1.2           | 388                    | <5                   | <2            | <5             | Nil Discharge          |
| Sep-2018     | 1                 | 7.5         | 575                     | 1.8           | 695                    | <5                   | <2            | <5             | Nil Discharge          |
| Oct-2018     | 1                 | 7.8         | 611                     | 1.2           | 327                    | <5                   | 4             | <5             | Nil Discharge          |
| Nov-2018     | 1                 | 8.6         | 715                     | 1.1           | 410                    | <5                   | 2             | <5             | Nil Discharge          |
| Dec-2018     | 1                 | 7.8         | 239                     | 168           | 255                    | 120                  | 2             | <5             | Nil Discharge          |
| 23.01.2019   | 1                 | 8.4         |                         |               |                        | <5                   |               | <5             | EPL 9 discharge        |
| Jan-2019     | 1                 | 8.5         | 704                     | 3.1           | 433                    | <5                   | <2            | <5             | Nil Discharge          |
| Feb-2019     | 1                 | 8.0         | 761                     | 1.7           | 434                    | <5                   | <2            | <5             | Nil Discharge          |
| Mar-2019     | 1                 | 8.0         | 572                     | 2.0           | 332                    | 8                    | <2            | <5             | Nil Discharge          |
| Apr-2019     |                   |             |                         |               |                        |                      |               |                |                        |
| May-2019     |                   |             |                         |               |                        |                      |               |                |                        |
| Jun-2019     |                   |             |                         |               |                        |                      |               |                |                        |
| <b>Total</b> |                   | <b>71.8</b> | <b>4784</b>             | <b>180.1</b>  | <b>3274</b>            | <b>128</b>           | <b>8</b>      | <b>0</b>       |                        |
|              | Mean              | <b>5.98</b> | <b>398.67</b>           | <b>15.01</b>  | <b>272.83</b>          | <b>10.67</b>         | <b>0.67</b>   | <b>0.00</b>    |                        |
|              | Lowest            | <b>7.96</b> | <b>604.11</b>           | <b>20.14</b>  | <b>400.22</b>          | <b>8.00</b>          | <b>2.67</b>   | <b>#DIV/0!</b> | <b>#DIV/0!</b>         |
|              | Highest           | <b>7.20</b> | <b>239.00</b>           | <b>1.10</b>   | <b>255.00</b>          | <b>8.00</b>          | <b>2.00</b>   | <b>0.00</b>    | <b>0.00</b>            |
|              |                   | <b>8.60</b> | <b>761.00</b>           | <b>168.00</b> | <b>695.00</b>          | <b>120.00</b>        | <b>4.00</b>   | <b>0.00</b>    | <b>0.00</b>            |

**Dust Monitoring** EPL Point 4

| Month    | Number of Samples | Sawmill | Insoluble Solids | Combustible Matter | Ash         |
|----------|-------------------|---------|------------------|--------------------|-------------|
| Jul-2018 | continuous        | Sawmill | 0.20             | 0.2                | <0.1        |
| Aug-2018 | continuous        | Sawmill | 0.90             | 0.3                | 0.6         |
| Sep-2018 | continuous        | Sawmill | 1.00             | 0.4                | 0.6         |
| Oct-2018 | continuous        | Sawmill | 3.70             | 1.8                | 1.9         |
| Nov-2018 | continuous        | Sawmill | 2.50             | 0.6                | 1.9         |
| Dec-2018 | continuous        | Sawmill | 3.70             | 0.7                | 3.0         |
| Jan-2019 | continuous        | Sawmill | 0.50             | 0.2                | 0.3         |
| Feb-2019 | continuous        | Sawmill | 0.10             | 0.1                | <0.1        |
| Mar-2019 | continuous        | Sawmill | 1.20             | 0.2                | 1.0         |
| Apr-2019 | continuous        | Sawmill |                  |                    |             |
| May-2019 | continuous        | Sawmill |                  |                    |             |
| Jun-2019 | continuous        | Sawmill |                  |                    |             |
|          | Mean              |         | <b>13.8</b>      | <b>4.5</b>         | <b>9.3</b>  |
|          | Lowest            |         | <b>1.53</b>      | <b>0.50</b>        | <b>1.33</b> |
|          | Highest           |         | <b>0.1</b>       | <b>0.1</b>         | <b>0.3</b>  |
|          |                   |         | <b>3.7</b>       | <b>1.8</b>         | <b>3</b>    |

**Dust Monitoring** EPL Point 5

| Month    | Number of Samples | Baners Lane | Insoluble Solids | Combustible Matter | Ash         |
|----------|-------------------|-------------|------------------|--------------------|-------------|
| Jul-2018 | continuous        | Baners Lane | 0.2              | 0.2                | <0.1        |
| Aug-2018 | continuous        | Baners Lane | 1.1              | 0.2                | 0.9         |
| Sep-2018 | continuous        | Baners Lane | 0.4              | 0.2                | 0.2         |
| Oct-2018 | continuous        | Baners Lane | 0.9              | 0.8                | 0.1         |
| Nov-2018 | continuous        | Baners Lane | 0.90             | 0.3                | 0.6         |
| Dec-2018 | continuous        | Baners Lane | 1.60             | 0.5                | 1.1         |
| Jan-2019 | continuous        | Baners Lane | 2.80             | 1.1                | 1.7         |
| Feb-2019 | continuous        | Baners Lane | 0.80             | 0.3                | 0.5         |
| Mar-2019 | continuous        | Baners Lane | 0.80             | 0.2                | 0.6         |
| Apr-2019 | continuous        | Baners Lane |                  |                    |             |
| May-2019 | continuous        | Baners Lane |                  |                    |             |
| Jun-2019 | continuous        | Baners Lane |                  |                    |             |
|          | Mean              |             | <b>1.06</b>      | <b>0.42</b>        | <b>0.71</b> |
|          | Lowest            |             | <b>0.2</b>       | <b>0.2</b>         | <b>0.1</b>  |
|          | Highest           |             | <b>2.8</b>       | <b>1.1</b>         | <b>1.7</b>  |

**Dust Monitoring** EPL Point 6

| Month    | Number of Samples | Bald Hill | Insoluble Solids | Combustible Matter | Ash  |
|----------|-------------------|-----------|------------------|--------------------|------|
| Jul-2018 | continuous        | Bald Hill | <0.1             | <0.1               | <0.1 |

|          |            |           |      |      |      |
|----------|------------|-----------|------|------|------|
| Aug-2018 | continuous | Bald Hill | 2.3  | 0.5  | 1.8  |
| Sep-2018 | continuous | Bald Hill | 0.9  | 0.3  | 0.6  |
| Oct-2018 | continuous | Bald Hill | 0.5  | 0.3  | 0.2  |
| Nov-2018 | continuous | Bald Hill | 1.7  | 0.5  | 1.2  |
| Dec-2018 | continuous | Bald Hill | 3.3  | 0.8  | 2.5  |
| Jan-2019 | continuous | Bald Hill | 4.1  | 1.9  | 2.2  |
| Feb-2019 | continuous | Bald Hill | 2.5  | 1.1  | 1.4  |
| Mar-2019 | continuous | Bald Hill | 2.3  | 0.8  | 1.5  |
| Apr-2019 | continuous | Bald Hill |      |      |      |
| May-2019 | continuous | Bald Hill |      |      |      |
| Jun-2019 | continuous | Bald Hill |      |      |      |
|          |            |           | 17.6 | 6.2  | 11.4 |
| Mean     |            |           | 2.20 | 0.78 | 1.43 |
| Lowest   |            |           | 0.5  | 0.3  | 0.2  |
| Highest  |            |           | 4.1  | 1.9  | 2.5  |

ND - Not Detected

Requirement to Monitor  
Volume or Mass - Points  
1, 8, 9, 10, 11

|                    |                            |          |  |  |  |  |  |
|--------------------|----------------------------|----------|--|--|--|--|--|
| Kilolitres per day | Daily during any discharge | Estimate |  |  |  |  |  |
|--------------------|----------------------------|----------|--|--|--|--|--|

**EPL POINT 8**

Dam 2 - SB2b Range - 6.5 - 8.5

| Month    | Number of Samples | pH   | Electrical Conductivity | Turbidity | Total Dissolved Solids | Total Suspended Solids | Oxygen demand | Oil/Grease | Volume Discharged - KL | Comment       |
|----------|-------------------|------|-------------------------|-----------|------------------------|------------------------|---------------|------------|------------------------|---------------|
| Jul-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Aug-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Sep-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Oct-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Nov-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Dec-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Jan-2019 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Feb-2019 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Mar-2019 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Apr-2019 |                   |      |                         |           |                        |                        |               |            |                        |               |
| May-2019 |                   |      |                         |           |                        |                        |               |            |                        |               |
| Jun-2019 |                   |      |                         |           |                        |                        |               |            |                        |               |
|          |                   | 0    | 0                       | 0         | 0                      | 0                      | 0             | 0          |                        |               |
| Mean     |                   | 0.00 | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |
| Lowest   |                   | 0.00 | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |
| Highest  |                   | 0.00 | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |

**EPL POINT 9**

South of O/Burden dump  
Dam 3 - SB3a Range - 6.5 - 8.5

| Month      | Number of Samples | pH   | Electrical Conductivity | Turbidity | Total Dissolved Solids | Total Suspended Solids | Oxygen demand | Oil/Grease | Volume Discharged - KL | Comment       |
|------------|-------------------|------|-------------------------|-----------|------------------------|------------------------|---------------|------------|------------------------|---------------|
| Jul-2018   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Aug-2018   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Sep-2018   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Oct-2018   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Nov-2018   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Dec-2018   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| 09.01.2019 | 1                 | 7.6  | 973                     | 9         |                        | 11                     |               |            |                        | Sample only   |
| 23.01.2019 | 1                 | 8.5  |                         |           |                        | 17                     |               | <5         |                        | 1MI approx    |
| Feb-2019   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Mar-2019   | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Apr-2019   |                   |      |                         |           |                        |                        |               |            |                        |               |
| May-2019   |                   |      |                         |           |                        |                        |               |            |                        |               |
| Jun-2019   |                   |      |                         |           |                        |                        |               |            |                        |               |
|            |                   | 16.1 | 973                     | 9         | 0                      | 28                     | 0             | 0          |                        |               |
| Mean       |                   | 8.05 | 973.00                  | 9.00      | #DIV/0!                | 14.00                  | #DIV/0!       | #DIV/0!    |                        |               |
| Lowest     |                   | 7.60 | 973.00                  | 9.00      | 0.00                   | 11.00                  | 0.00          | 0.00       |                        |               |
| Highest    |                   | 8.50 | 973.00                  | 9.00      | 0.00                   | 17.00                  | 0.00          | 0.00       |                        |               |

**EPL POINT 10**

Storage Dam 4  
Dam 4 - SD2 Range - 6.5 - 8.5

| Month    | Number of Samples | pH      | Electrical Conductivity | Turbidity | Total Dissolved Solids | Total Suspended Solids | Oxygen demand | Oil/Grease | Volume Discharged - KL | Comment       |
|----------|-------------------|---------|-------------------------|-----------|------------------------|------------------------|---------------|------------|------------------------|---------------|
| Jul-2018 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Aug-2018 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Sep-2018 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Oct-2018 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Nov-2018 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Dec-2018 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Jan-2019 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Feb-2019 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Mar-2019 | 0                 |         |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Apr-2019 |                   |         |                         |           |                        |                        |               |            |                        |               |
| May-2019 |                   |         |                         |           |                        |                        |               |            |                        |               |
| Jun-2019 |                   |         |                         |           |                        |                        |               |            |                        |               |
|          |                   | 0       | 0                       | 0         | 0                      | 0                      | 0             | 0          |                        |               |
| Mean     |                   | #DIV/0! | #DIV/0!                 | #DIV/0!   | #DIV/0!                | #DIV/0!                | #DIV/0!       | #DIV/0!    |                        |               |
| Lowest   |                   | 0.00    | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |
| Highest  |                   | 0.00    | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |

**EPL POINT 11**

Dam 5 - SD6 - AQW-8 Range - 6.5 - 8.5

| Month    | Number of Samples | pH   | Electrical Conductivity | Turbidity | Total Dissolved Solids | Total Suspended Solids | Oxygen demand | Oil/Grease | Volume Discharged - KL | Comment       |
|----------|-------------------|------|-------------------------|-----------|------------------------|------------------------|---------------|------------|------------------------|---------------|
| Jul-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Aug-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Sep-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Oct-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Nov-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Dec-2018 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Jan-2019 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Feb-2019 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Mar-2019 | 0                 |      |                         |           |                        |                        |               |            |                        | Nil Discharge |
| Apr-2019 |                   |      |                         |           |                        |                        |               |            |                        |               |
| May-2019 |                   |      |                         |           |                        |                        |               |            |                        |               |
| Jun-2019 |                   |      |                         |           |                        |                        |               |            |                        |               |
|          |                   | 0    | 0                       | 0         | 0                      | 0                      | 0             | 0          |                        |               |
| Mean     |                   | 0.00 | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |
| Lowest   |                   | 0.00 | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |
| Highest  |                   | 0.00 | 0.00                    | 0.00      | 0.00                   | 0.00                   | 0.00          | 0.00       |                        |               |

Weather station results available upon request

**AuS-10 Rhyolite - Licence number 12323**

| Blasting         | Frequency | Date       | Blast Number | Limits                  | Units of measure | Results - Hartley Village | Monitor Location - Hartley Village | 2nd Monitor 781 Jenolan Caves Rd |
|------------------|-----------|------------|--------------|-------------------------|------------------|---------------------------|------------------------------------|----------------------------------|
| Ground Vibration | Per Blast | 31.01.2018 | 146          | 5 - trigger point >0.51 | mm/s             | Nil Trigger               | √                                  |                                  |
| Overpressure     | Per Blast | 31.01.2018 | 146          | 115 - Trigger point <88 | dB               | Nil Trigger               | √                                  |                                  |

|                  |           |            |               |                          |      |             |      |             |
|------------------|-----------|------------|---------------|--------------------------|------|-------------|------|-------------|
| Ground Vibration | Per Blast | 14.02.2018 | 147           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 14.02.2018 | 147           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 14.03.2018 | 148           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 14.03.2018 | 148           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 07.03.2018 | 149           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 07.03.2018 | 149           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 28.03.2018 | 150           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 28.03.2018 | 150           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 11.04.2018 | 151           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 11.04.2018 | 151           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 26.04.2018 | 152           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 26.04.2018 | 152           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 22.05.2018 | 153           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 22.05.2018 | 153           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 06.06.2018 | 154           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 06.06.2018 | 154           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 20.06.2018 | 155           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 20.06.2018 | 155           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 04.07.2018 | 156           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 04.07.2018 | 156           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 09.07.2018 | 157           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    |             |
| Overpressure     | Per Blast | 09.07.2018 | 157           | 115 - Trigger point <88  | dB   | Nil Trigger | √    |             |
| Ground Vibration | Per Blast | 18.07.2018 | 158 A & B     | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 18.07.2018 | 158 A & B     | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 15.08.2018 | 159           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | 1.04        |
| Overpressure     | Per Blast | 15.08.2018 | 159           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | 109.2       |
| Ground Vibration | Per Blast | 29.08.2018 | 160           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 29.08.2018 | 160           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 12.09.2018 | 161           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 12.09.2018 | 161           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 12.10.2018 | 162           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 12.10.2018 | 162           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 24.10.2018 | 163           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 24.10.2018 | 163           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 09.11.2018 | 164           | 5 - trigger point >0.50  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 09.11.2018 | 164           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 21.11.2018 | 165           | 5 - trigger point >0.50  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 21.11.2018 | 165           | 115 - Trigger point <88  | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 05.12.2018 | MISFIRE Blast | 5 - trigger point >0.50  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 05.12.2018 | MISFIRE Blast | 115 - Trigger point <100 | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 07.12.2018 | 166 A & B     | 5 - trigger point >0.50  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 07.12.2018 | 166 A & B     | 115 - Trigger point <100 | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 19.12.2018 | 167           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | 0.078       |
| Overpressure     | Per Blast | 19.12.2018 | 167           | 115 - Trigger point <100 | dB   | Nil Trigger | √    | 108.4       |
| Ground Vibration | Per Blast | 30.01.2019 | 168           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 30.01.2019 | 168           | 115 - Trigger point <100 | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 13.02.2019 | 169           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 13.02.2019 | 169           | 115 - Trigger point <100 | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 27.02.2019 | 170           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 27.02.2019 | 170           | 115 - Trigger point <100 | dB   | Nil Trigger | √    | Nil Trigger |
| Ground Vibration | Per Blast | 13.03.2019 | 171           | 5 - trigger point >0.51  | mm/s | Nil Trigger | 0.08 | 0.07        |
| Overpressure     | Per Blast | 13.03.2019 | 171           | 115 - Trigger point <100 | dB   | Nil Trigger | 101  | 108.2       |
| Ground Vibration | Per Blast | 10.04.2019 | 172           | 5 - trigger point >0.51  | mm/s | Nil Trigger | √    | Nil Trigger |
| Overpressure     | Per Blast | 10.04.2019 | 172           | 115 - Trigger point <100 | dB   | Nil Trigger | √    | Nil Trigger |

**Grant's Head Quarry - Licence Number 4040**

| EPL Point 1 - sump | Pollutant         | Aluminium | Arsenic | Cadmium | Chromium | Copper | Lead    | Mercury  | Nickel | Zinc  | Comment  |
|--------------------|-------------------|-----------|---------|---------|----------|--------|---------|----------|--------|-------|----------|
|                    | Units of Measure  | mg/l      | mg/l    | mg/l    | mg/l     | mg/l   | mg/l    | mg/l     | mg/l   | mg/l  |          |
| Month              | Number of Samples |           |         |         |          |        |         |          |        |       |          |
| 29.06.2017         | 1                 | 0.163     | 0.0003  | 0.0008  | 0.0007   | 0.143  | 0.0024  | <0.0003  | 0.0269 | 0.208 |          |
| 19.09.2017         | 1                 | 0.13      | 0.0003  | 0.0008  | 0.0007   | 0.193  | 0.0005  | <0.00001 | 0.0358 | 0.222 |          |
| 07.12.2017         | 1                 | 0.077     | 0.0002  | 0.0008  | 0.0005   | 0.179  | 0.0003  | <0.0003  | 0.0265 | 0.159 |          |
| 15.02.2018         | 1                 | 0.127     | <0.0002 | 0.0007  | 0.0003   | 0.256  | 0.0002  | 0.00004  | 0.0355 | 0.106 |          |
| 23.05.2018         | 1                 | 0.135     | <0.0002 | 0.0007  | 0.0004   | 0.237  | 0.0003  | <0.00001 | 0.0346 | 0.117 |          |
| 22.08.2018         | 1                 | 0.237     | <0.0002 | 0.0007  | 0.0005   | 0.209  | 0.0002  | <0.00001 | 0.0344 | 0.122 |          |
| 17.10.2018         | 1                 | 0.09      | <0.001  | 0.0004  | <0.001   | 0.14   | 0.001   | <0.0001  | 0.02   | 0.068 |          |
| 29.11.2018         | 1                 | 0.305     | 0.0003  | 0.0005  | 0.0032   | 0.293  | 0.0003  | 0.00007  | 0.0259 | 0.073 |          |
| 11.01.2019         | 1                 | 0.1       | <0.001  | 0.0005  | <0.001   | 0.23   | <0.001  | <0.0001  | 0.21   | 0.061 | Filtered |
| 26.02.2019         | 1                 | 0.186     | 0.0002  | 0.0005  | 0.0003   | 0.167  | <0.0001 | 0.00001  | 0.0301 | 0.097 |          |

| Wetland site (new Oct 2018) | Pollutant        | Aluminium | Arsenic | Cadmium | Chromium | Copper | Lead   | Mercury | Nickel | Zinc  |
|-----------------------------|------------------|-----------|---------|---------|----------|--------|--------|---------|--------|-------|
|                             | Units of Measure | mg/l      | mg/l    | mg/l    | mg/l     | mg/l   | mg/l   | mg/l    | mg/l   | mg/l  |
| Date                        | No. of samples   |           |         |         |          |        |        |         |        |       |
| 17.10.2018                  | 1                | 0.52      | <0.001  | <0.0002 | 0.001    | <0.001 | <0.001 | <0.0001 | <0.001 | 0.014 |

| EPL Point 1 - sump | Pollutant         | pH (wet) Range<br>5.3 to 7.0 | Electrical Conductivity | Turbidity | Total Suspended Solids Max 30 Milligrams per litre | Oil and Grease | Hours of pump operation | Requirement to Monitor Volume or Mass - KL |
|--------------------|-------------------|------------------------------|-------------------------|-----------|--|----------------|-------------------------|--|
|                    | Units of Measure  |                              |                         |           |  |                |                         |  |
| Month              | Number of Samples | pH                           | µS/cm                   | NTU       | mg/l   | Visible        | Hours                   | KL   |
| 28.06.2018         | 1                 | 5.9                          | 354                     | 1.3       | <3   | <5             | 24                      | 6,825.6                                    |
| 11.07.2018         | 1                 | 6.2                          | 339                     | 1.4       | <3   | <5             | 24                      | 6,825.6                                    |
| 24.07.2018         | 1                 | 5.4                          | 363                     | 2.5       | <3   | <5             | 24                      | 6,825.6                                    |
| 14.08.2018         | 1                 | 6.2                          | 410                     | 3.9       | 4  | <5             | 24                      | 6,825.6                                    |
| 22.08.2018         | 1                 | 6.4                          | 421                     | 6.2       | 6  | <5             | 24                      | 6,825.6                                    |
| 10.09.2018         | 1                 | 5.5                          | 499                     | 15        | 9  | <5             | 24                      | 6,825.6                                    |
| 04.10.2018         | 1                 | 6.2                          | 441                     | 4.9       | 6  | <5             | 24                      | 6,825.6                                    |
| 15.10.2018         | 1                 | 6.0                          | 389                     | 6.2       | 5  | <5             | 24                      | 6,825.6                                    |
| 17.10.2018         | 1                 | 6.99                         | 127.7                   |           |  |                | Sample Only             | Sample only                                |
| 30.10.2018         | 1                 | 6.10                         | 370                     | 2.4       | 4  | <5             | 24                      | 6,825.6                                    |
| 22.11.2018         | 1                 | 6.6                          | 385                     | 4.0       | 5  | NR             | Sample Only             | Sample only                                |
| 29.11.2018         | 1                 | 6.4                          | 400                     | 14        | 10   | <5             | 24                      | 6,825.6                                    |
| 13.12.2018         | 1                 | 6.4                          | 403                     | 6.7       | 4  | <5             | 24                      | 6,825.6                                    |
| 11.01.2019         | 1                 | 4.18                         | 472.5                   |           |  |                | Sample Only             | Sample Only                                |
| 30.01.2019         | 1                 | 4.60                         | 446                     | 3.2       | <3   | <5             | Sample Only             | Sample only                                |
| 04.02.2019         | 1                 | 6.6                          | 461                     | 2.8       | <3   | <5             | 24                      | 6,825.6                                    |
| 26.02.2019         | 1                 | 6.3                          | 448                     | 4.9       | 3  | <5             | 24                      | 6,825.6                                    |
| 13.03.2019         | 1                 | 6.1                          | 440                     | 7         | 5  | <5             | 24                      | 6,825.6                                    |
| 08.04.2019         | 1                 | 7.1                          | 415                     | 3.5       | 3  | <5             | Sample Only             | Sample only                                |

Table with 10 empty columns.

Table with 5 columns: Grant's Head Points 2 & 3, Position ID, Standing Water Level Meters (mAHD), Position ID, Standing Water Level Metres (mAHD). Rows include dates from 28.03.2017 to 11.01.2019.

Table with 14 columns: Grant's Head Point 4, Position ID, Conductivity, pH, Standing Water Level, Aluminium, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc. Rows include dates from 11.10.2017 to 11.01.2019.

Table with 14 columns: Grant's Head Point 5, Position ID, Conductivity, pH, Standing Water Level, Aluminium, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc. Rows include dates from 11.10.2017 to 11.01.2019.

Table with 14 columns: Grant's Head Point 6, Position ID, Conductivity, pH, Standing Water Level, Aluminium, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc. Rows include dates from 11.10.2017 to 11.01.2019.

Grant's Head Quarry - Licence Number 4040

Table with 8 columns: Blasting, Frequency, Date, Limits, Units of measure, Results Bonny Hills 1st House, Results - Sherrrod Park, Blast No #. Rows include dates from 16.08.2017 to 05.02.2019.

Tumbulgum EPL 3430

Table with 8 columns: Tumbulgum Point 1, WM 1, Pollutant, Oil and Grease -10 Milligrams per Lt., Total Suspended Solids Max 50 Milligrams per litre, pH (wet) Range 6.5 to 8.5, Requirement to Monitor Volume or Mass, Why Sampled - Discharge or Random?. Includes a monthly log from Jul-2018 to Jun-2019.

|                   |                      | Pollutant | OIL and Grease -10<br>Milligrams per Lt. | Total Suspended Solids<br>Max 50 Milligrams per<br>litre | pH (wet) Range<br>6.5 to 8.5 | Requirement to<br>Monitor Volume<br>or Mass                   |  |
|-------------------|----------------------|-----------|--|--|------------------------------|---|--|
| Tumbulgum Point 2 | WM 2                 |           |  |  |                              |   |  |
| Month             | Number of<br>Samples | Frequency |  | Monthly during<br>discharge                              | <24hrs prior to<br>discharge | Daily when<br>wastes (water)<br>discharged<br>Klitres per day | Why Sampled -<br>Discharge or<br>Random? |
| Jul-2018          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Aug-2018          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Sep-2018          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Oct-2018          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Nov-2018          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Dec-2018          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Jan-2019          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Feb-2019          | 0                    |           |  |  |                              |   | Nil Discharge                            |
| Mar-2019          |                      |           |  |  |                              |   |  |
| Apr-2019          |                      |           |  |  |                              |   |  |
| May-2019          |                      |           |  |  |                              |   |  |
| Jun-2019          |                      |           |  |  |                              |   |  |

### Tumbulgum EPL 3430

Tumbulgum Blast Monitoring results

| Blasting         | Frequency | Date       | Limits                       | Units of measure | Loc # 1 - 43<br>Pollard Rd | Loc # 2 - 2<br>Pollard Rd | 731 Dulguigan<br>Rd | Blast # |
|------------------|-----------|------------|------------------------------|------------------|----------------------------|---------------------------|---------------------|---------|
| Ground Vibration | Per Blast | 03.08.2017 | 5 - trigger point >0.26      | mm/s             | 0.6                        | 1.08                      | Not required        | #34     |
| Overpressure     | Per Blast | 03.08.2017 | Max 115 - Trigger point >100 | dB               | 101                        | 104.9                     | Not required        | #34     |
| Ground Vibration | Per Blast | 03.08.2017 | 5 - trigger point >0.26      | mm/s             | No Trigger                 | No Trigger                | Not required        | #35     |
| Overpressure     | Per Blast | 03.08.2017 | Max 115 - Trigger point >100 | dB               | No Trigger                 | No Trigger                | Not required        | #35     |
| Ground Vibration | Per Blast | 20.09.2017 | 5 - trigger point >0.26      | mm/s             | 0.75                       | 0.719                     | Not required        | #36     |
| Overpressure     | Per Blast | 20.09.2017 | Max 115 - Trigger point >100 | dB               | 109.9                      | 112.3                     | Not required        | #36     |
| Ground Vibration | Per Blast | 09.11.2017 | 5 - trigger point >0.26      | mm/s             | 1.528                      | 1.473                     | Not required        | #37     |
| Overpressure     | Per Blast | 09.11.2017 | Max 115 - Trigger point >100 | dB               | 112.6                      | 111.2                     | Not required        | #37     |
| Ground Vibration | Per Blast | 13.03.2018 | 5 - trigger point >0.26      | mm/s             | 1.03                       | 2.77                      | Not required        | #38     |
| Overpressure     | Per Blast | 13.03.2018 | Max 115 - Trigger point >100 | dB               | 108                        | 109.5                     | Not required        | #38     |
| Ground Vibration | Per Blast | 12.06.2018 | 5 - trigger point >0.26      | mm/s             | 1.02                       | 1.17                      | Not required        | #39     |
| Overpressure     | Per Blast | 12.06.2018 | Max 115 - Trigger point >100 | dB               | 107.5                      | 104.2                     | Not required        | #39     |
| Ground Vibration | Per Blast | 02.07.2018 | 5 - trigger point >0.26      | mm/s             | 1.27                       | 1.29                      | Not required        | #40     |
| Overpressure     | Per Blast | 02.07.2018 | Max 115 - Trigger point >100 | dB               | 101.9                      | 107.0                     | Not required        | #40     |
| Ground Vibration | Per Blast | 28.09.2018 | 5 - trigger point >0.26      | mm/s             | 0.52                       | 0.76                      | Not required        | #41     |
| Overpressure     | Per Blast | 28.09.2018 | Max 115 - Trigger point >100 | dB               | 106                        | 106.0                     | Not required        | #41     |
| Ground Vibration | Per Blast | 16.10.2018 | 5 - trigger point >0.26      | mm/s             | 0.71                       | 0.58                      | Not required        | #42     |
| Overpressure     | Per Blast | 16.10.2018 | Max 115 - Trigger point >100 | dB               | 106.0                      | 108.0                     | Not required        | #42     |
| Ground Vibration | Per Blast | 25.01.2019 | 5 - trigger point >0.26      | mm/s             | 0.74                       | 0.49                      | Not required        | #43     |
| Overpressure     | Per Blast | 25.01.2019 | Max 115 - Trigger point >100 | dB               | 103.5                      | 106                       | Not required        | #43     |
| Ground Vibration | Per Blast |            |                              |                  |                            |                           |                     |         |
| Overpressure     | Per Blast |            |                              |                  |                            |                           |                     |         |
| Ground Vibration | Per Blast |            |                              |                  |                            |                           |                     |         |
| Overpressure     | Per Blast |            |                              |                  |                            |                           |                     |         |
| Ground Vibration | Per Blast |            |                              |                  |                            |                           |                     |         |
| Overpressure     | Per Blast |            |                              |                  |                            |                           |                     |         |
| Ground Vibration | Per Blast |            |                              |                  |                            |                           |                     |         |
| Overpressure     | Per Blast |            |                              |                  |                            |                           |                     |         |
| Ground Vibration | Per Blast |            |                              |                  |                            |                           |                     |         |
| Overpressure     | Per Blast |            |                              |                  |                            |                           |                     |         |

### Yarrabee Rd Quarry - Licence Number 11462

| Yarrabee Rd Point 3 |                      | Pollutant | Total Suspended Solids<br>Max 50 Milligrams per<br>litre | pH (wet) Range 6.5 to<br>8.5 | Requirement to<br>Monitor Volume<br>or Mass                  |             |
|---------------------|----------------------|-----------|--|------------------------------|--|-------------|
| Month               | Number of<br>Samples | Frequency | <24hrs prior to discharge                                | <24hrs prior to discharge    | Daily when<br>wastes (water)<br>discharged Litres<br>per day |             |
| 06.03.2017          | 1                    |           | 7  | 8.2                          | 0  | Sample only |
| 01.05.2017          | 1                    |           | <3   | 8.9                          | 0  | Sample only |
| 29.11.2017          | 1                    |           | 30   | 8.3                          | 0  | Sample only |
| 08.03.2018          | 1                    |           | 5  | 7.8                          | 0  | Sample only |
| 29.10.2018          | 1                    |           | 4  | 7.9                          | 0  | Sample only |
|                     |                      |           |  |                              |  |             |
|                     |                      |           |  |                              |  |             |
| Number of samples   | 5                    |           |  |                              |  |             |
| Mean                |                      |           | 11.50  | 8.22                         | -  |             |
| Lowest              |                      |           | 4.00   | 7.80                         | -  |             |
| Highest             |                      |           | 30.00  | 8.90                         | -  |             |

### Yarrabee Rd Quarry - Licence Number 11462

| Blasting         | Frequency | Date       | Limits                         | Units of measure | Results     | Blast # | Blast ID |
|------------------|-----------|------------|--------------------------------|------------------|-------------|---------|----------|
| Ground Vibration | Per Blast | 05.09.2017 | 5 - trigger point >1.00        | mm/s             | 1.06        | #69     | YRQ-1707 |
| Overpressure     | Per Blast | 05.09.2017 | Max 115 - Trigger point >105   | dB               | 113.8       | #69     | YRQ-1707 |
| Ground Vibration | Per Blast | 21.09.2017 | 5 - trigger point >0.30        | mm/s             | Nil Trigger | #70     | YRQ-1708 |
| Overpressure     | Per Blast | 21.09.2017 | Max 115 - Trigger point >100   | dB               | Nil Trigger | #70     | YRQ-1708 |
| Ground Vibration | Per Blast | 02.11.2017 | 5 - trigger point >0.51        | mm/s             | 0.84        | #71     | YRQ-1709 |
| Overpressure     | Per Blast | 02.11.2017 | Max 115 - Trigger point >105   | dB               | 111.8       | #71     | YRQ-1709 |
| Ground Vibration | Per Blast | 24.01.2018 | 5 - trigger point >1.00        | mm/s             | 0.61        | #72     | YRQ-1801 |
| Overpressure     | Per Blast | 24.01.2018 | Max 115 - Trigger point >105   | dB               | 110.7       | #72     | YRQ-1801 |
| Ground Vibration | Per Blast | 20.03.2018 | 5 - trigger point >0.50        | mm/s             | 0.54        | #73     | YRQ-1802 |
| Overpressure     | Per Blast | 20.03.2018 | Max 115 - Trigger point >105   | dB               | 113.2       | #73     | YRQ-1802 |
| Ground Vibration | Per Blast | 21.05.2018 | 5 - trigger point 0.50         | mm/s             | Nil Trigger | #74     | YRQ-1803 |
| Overpressure     | Per Blast | 21.05.2018 | Max 115 - Trigger point >100dB | dB               | Nil Trigger | #74     | YRQ-1803 |
| Ground Vibration | Per Blast | 03.07.2018 | 5 - trigger point >0.50        | mm/s             | 0.80        | #75     | YRQ-1804 |
| Overpressure     | Per Blast | 03.07.2018 | Max 115 - Trigger point >100dB | dB               | 111.0       | #75     | YRQ-1804 |
| Ground Vibration | Per Blast | 31.07.2018 | 5 - trigger point >0.50        | mm/s             | 1.37        | #76     | YRQ-1805 |
| Overpressure     | Per Blast | 31.07.2018 | Max 115 - Trigger point >100dB | dB               | 114.3       | #76     | YRQ-1805 |
| Ground Vibration | Per Blast | 17.09.2018 | 5 - trigger point >0.50        | mm/s             | 0.77        | #77     | YRQ-1806 |
| Overpressure     | Per Blast | 17.09.2018 | Max 115 - Trigger point >100dB | dB               | 106.3       | #77     | YRQ-1806 |
| Ground Vibration | Per Blast | 30.10.2018 | 5 - trigger point >0.50        | mm/s             | Nil Trigger | #78     | YRQ-1807 |
| Overpressure     | Per Blast | 30.10.2018 | Max 115 - Trigger point >100dB | dB               | Nil Trigger | #78     | YRQ-1807 |
| Ground Vibration | Per Blast | 20.11.2018 | 5 - trigger point >0.50        | mm/s             | 0.56        | #79     | YRQ-1808 |
| Overpressure     | Per Blast | 20.11.2018 | Max 115 - Trigger point >100dB | dB               | 108.8       | #79     | YRQ-1808 |

|                  |           |            |                                |      |       |     |          |
|------------------|-----------|------------|--------------------------------|------|-------|-----|----------|
| Ground Vibration | Per Blast | 21.01.2019 | 5 - trigger point >0.50        | mm/s | 0.65  | #80 | YRQ-1901 |
| Overpressure     | Per Blast | 21.01.2019 | Max 115 - Trigger point >100dB | dBI  | 110.2 | #80 | YRQ-1901 |
| Ground Vibration | Per Blast | 06.03.2019 | 5 - trigger point >0.50        | mm/s | 0.87  | #81 | YRQ-1902 |
| Overpressure     | Per Blast | 06.03.2019 | Max 115 - Trigger point >100dB | dBI  | 103.9 | #81 | YRQ-1902 |
| Ground Vibration | Per Blast | 15.04.2019 | 5 - trigger point >0.50        | mm/s | 0.84  | #82 | YRQ-1903 |
| Overpressure     | Per Blast | 15.04.2019 | Max 115 - Trigger point >100dB | dBI  | 110.2 | #82 | YRQ-1903 |
| Ground Vibration | Per Blast |            |                                |      |       |     |          |
| Overpressure     | Per Blast |            |                                |      |       |     |          |