

AuS-10 Rhyolite - Licence number 12323

Dam 1 - SB1 - EPL Point 1

Licence Discharge Point 1

| Guidance range | | Range - 6.5 - 8.5 | <1500µs/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-2017 | 0 | | | | | | | | | Nil Discharge |
| Aug-2017 | 0 | | | | | | | | | Nil Discharge |
| Sep-2017 | 0 | | | | | | | | | Nil Discharge |
| Oct-2017 | 0 | | | | | | | | | Nil Discharge |
| Nov-2017 | 0 | | | | | | | | | Nil Discharge |
| Dec-2017 | 0 | | | | | | | | | Nil Discharge |
| Jan-2018 | 0 | | | | | | | | | Nil Discharge |
| Feb-2018 | 0 | | | | | | | | | Nil Discharge |
| Mar-2018 | 0 | | | | | | | | | Nil Discharge |
| Apr-2018 | 0 | | | | | | | | | Nil Discharge |
| May-2018 | 0 | | | | | | | | | Nil Discharge |
| Jun-2018 | 0 | | | | | | | | | Nil Discharge |
| Total | | 0 | 0 | 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 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-2017 | 1 | 8.1 | 428 | 1.8 | 234 | <5 | 3 | <5 | 0 |
| Aug-2017 | 1 | 7 | 500 | 1.7 | 268 | <5 | 3 | <5 | 0 |
| Sep-2017 | 1 | 8.3 | 576 | 2.2 | 334 | <5 | <2 | <5 | 0 |
| Oct-2017 | 1 | 8 | 574 | 1.9 | 344 | <5 | <2 | <5 | 0 |
| Nov-2017 | 1 | 8.3 | 583 | 3.3 | 325 | 8 | 3 | <5 | 0 |
| Dec-2017 | 1 | 7.5 | 621 | 1.4 | 414 | <5 | <2 | <5 | 0 |
| Jan-2018 | 1 | 8.0 | 437 | 2.5 | 310 | 8 | 5 | <5 | 0 |
| Feb-2018 | 1 | 6.3 | 817 | 2.2 | 343 | <5 | <2 | <5 | 0 |
| Mar-2018 | 1 | 8.2 | 522 | 1.3 | 370 | <5 | <2 | <5 | 0 |
| Apr-2018 | 1 | 8.3 | 640 | 1.4 | 340 | <5 | <2 | <5 | 0 |
| May-2018 | 1 | 7 | 653 | 0.1 | 394 | <5 | 2 | <5 | 0 |
| Jun-2018 | 1 | 7.9 | 619 | 1.2 | 718 | <5 | <2 | <5 | 0 |
| Total | | 92.9 | 6970 | 21 | 4394 | 16 | 16 | 0 | |
| Mean | | 7.74 | 580.83 | 1.75 | 366.17 | 8.00 | 3.20 | #DIV/0! | 0.00 |
| Lowest | | 6.30 | 428.00 | 0.10 | 234.00 | 8.00 | 2.00 | 0.00 | 0.00 |
| Highest | | 8.30 | 817.00 | 3.30 | 718.00 | 8.00 | 5.00 | 0.00 | 0.00 |

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-2017 | 1 | 8.2 | 436 | 1.2 | 229 | <5 | 2 | <5 | 0 |
| Aug-2017 | 1 | 7.8 | 471 | 1.5 | 263 | <5 | 3 | <5 | 0 |
| Sep-2017 | 1 | 8.6 | 566 | 2.8 | 324 | <5 | <2 | <5 | 0 |
| 24.10.2017 | 1 | 8.4 | | 3.1 | | <10 | | | |
| Oct-2017 | 1 | 8.3 | 568 | 2 | 332 | <5 | <2 | <5 | 0 |
| Nov-2017 | 1 | 8.4 | 577 | 1.8 | 345 | <5 | <2 | <5 | 0 |
| Dec-2017 | 1 | 7.1 | 610 | 1.5 | 430 | <5 | <2 | <5 | 0 |
| Jan-2018 | 1 | 8.00 | 526 | 7.6 | 318 | <5 | 4 | <5 | 0 |
| Feb-2018 | 1 | 7.5 | 670 | 2.2 | 334 | <5 | <2 | <5 | 0 |
| Mar-2018 | 1 | 8.2 | 479 | 1.2 | 324 | <5 | 3 | <5 | 0 |
| 06.04.2018 | 1 | 7.9 | | 1 | | <5 | | | 0 |
| Apr-2018 | 1 | 8.4 | 645 | 0.9 | 333 | <5 | <2 | <5 | 0 |
| May-2018 | 1 | 8.3 | 649 | 0.9 | 415 | <5 | <2 | <5 | 0 |
| Jun-2018 | 1 | 7.2 | 652 | 0.9 | 390 | <5 | <2 | <5 | 0 |
| Total | | 104.1 | 6413 | 27.4 | 3808 | 0 | 10 | 0 | |
| Mean | | 8.02 | 534.42 | 2.28 | 317.33 | 0.00 | 0.83 | 0.00 | 0.00 |
| Lowest | | 7.10 | 436.00 | 0.90 | 263.00 | 0.00 | 3.00 | #DIV/0! | 0.00 |
| Highest | | 8.60 | 670.00 | 7.60 | 430.00 | 0.00 | 4.00 | 0.00 | 0.00 |

Dust Monitoring EPL Point 4

| Month | Number of Samples | Sawmill | Insoluble Solids | Combustible Matter | Ash |
|--------------|-------------------|---------|------------------|--------------------|------------|
| Jul-2017 | continuous | Sawmill | 0.20 | 0.1 | 0.10 |
| Aug-2017 | continuous | Sawmill | 0.60 | 0.4 | 0.2 |
| Sep-2017 | continuous | Sawmill | 0.20 | 0.2 | <0.1 |
| Oct-2017 | continuous | Sawmill | 0.90 | 0.4 | 0.5 |
| Nov-2017 | continuous | Sawmill | 1.85 | 1.4 | 0.5 |
| Dec-2017 | continuous | Sawmill | 2.30 | 0.9 | 1.4 |
| Jan-2018 | continuous | Sawmill | 2.40 | 1.6 | 0.8 |
| Feb-2018 | continuous | Sawmill | 1.40 | 0.7 | 0.7 |
| Mar-2018 | continuous | Sawmill | 11.10 | 7.2 | 3.9 |
| Apr-2018 | continuous | Sawmill | 1.20 | 0.4 | 0.8 |
| May-2018 | continuous | Sawmill | 0.34 | <0.1 | 0.3 |
| Jun-2018 | continuous | Sawmill | 0.1 | 0.2 | <0.1 |
| Total | | | 22.59 | 13.5 | 9.2 |
| Mean | | | 1.88 | 1.23 | 0.92 |
| Lowest | | | 0.1 | 0.1 | 0.1 |
| Highest | | | 11.1 | 7.2 | 3.9 |

Dust Monitoring EPL Point 5

| Month | Number of Samples | Baners Lane | Insoluble Solids | Combustible Matter | Ash |
|--------------|-------------------|-------------|------------------|--------------------|------------|
| Jul-2017 | continuous | Baners Lane | 0.3 | .2 | 0.1 |
| Aug-2017 | continuous | Baners Lane | 0.6 | 0.3 | 0.3 |
| Sep-2017 | continuous | Baners Lane | 0.3 | 0.1 | 0.2 |
| Oct-2017 | continuous | Baners Lane | 0.5 | 0.2 | 0.3 |
| Nov-2017 | continuous | Baners Lane | 0.35 | 0.3 | 0.1 |
| Dec-2017 | continuous | Baners Lane | 0.70 | 0.4 | 0.3 |
| Jan-2018 | continuous | Baners Lane | 0.30 | 0.2 | 0.1 |
| Feb-2018 | continuous | Baners Lane | 0.80 | 0.4 | 0.4 |
| Mar-2018 | continuous | Baners Lane | 0.50 | <0.1 | 0.5 |
| Apr-2018 | continuous | Baners Lane | 0.90 | 0.3 | 0.6 |
| May-2018 | continuous | Baners Lane | 0.30 | 0.1 | 0.2 |
| Jun-2018 | continuous | Baners Lane | 0.2 | 0.2 | <0.1 |
| Total | | | 5.75 | 2.5 | 3.1 |
| Mean | | | 0.48 | 0.25 | 0.28 |
| Lowest | | | 0.2 | 0.1 | 0.1 |
| Highest | | | 0.9 | 0.4 | 0.6 |

Dust Monitoring EPL Point 6

| Month | Number of Samples | Bald Hill | Insoluble Solids | Combustible Matter | Ash |
|-------|-------------------|-----------|------------------|--------------------|-----|
|-------|-------------------|-----------|------------------|--------------------|-----|

| | | | | | | | | | | | |
|----------|------------|-----------|-------------|-------------|-------------|--|--|--|--|--|--|
| Jul-2017 | continuous | Bald Hill | 0.5 | 0.4 | 0.1 | | | | | | |
| Aug-2017 | continuous | Bald Hill | 1.1 | 0.9 | 0.2 | | | | | | |
| Sep-2017 | continuous | Bald Hill | No Sample | No Sample | No Sample | | | | | | no water left in bottle due to dry weather conditions to obtain sample |
| Oct-2017 | continuous | Bald Hill | 0.3 | 0.1 | 0.2 | | | | | | |
| Nov-2017 | continuous | Bald Hill | 0.93 | 0.4 | 0.5 | | | | | | |
| Dec-2017 | continuous | Bald Hill | 0.3 | 0.2 | 0.1 | | | | | | |
| Jan-2018 | continuous | Bald Hill | 0.7 | 0.3 | 0.4 | | | | | | |
| Feb-2018 | continuous | Bald Hill | 1.4 | 0.8 | 0.6 | | | | | | |
| Mar-2018 | continuous | Bald Hill | 0.4 | 0.1 | 0.3 | | | | | | |
| Apr-2018 | continuous | Bald Hill | <0.1 | <0.1 | <0.1 | | | | | | |
| May-2018 | continuous | Bald Hill | 0.09 | 0.1 | 0 | | | | | | |
| Jun-2018 | continuous | Bald Hill | 0.3 | 0.2 | 0.1 | | | | | | |
| | | | 6.02 | 3.5 | 2.5 | | | | | | ND - Not Detected |
| | Mean | | 0.60 | 0.35 | 0.25 | | | | | | |
| | Lowest | | 0.09 | 0.1 | 0 | | | | | | |
| | Highest | | 1.4 | 0.9 | 0.6 | | | | | | |

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-2017 | 0 | | | | | | | | | Nil Discharge |
| Aug-2017 | 0 | | | | | | | | | Nil Discharge |
| Sep-2017 | 0 | | | | | | | | | Nil Discharge |
| Oct-2017 | 0 | | | | | | | | | Nil Discharge |
| Nov-2017 | 0 | | | | | | | | | Nil Discharge |
| Dec-2017 | 0 | | | | | | | | | Nil Discharge |
| Jan-2018 | 0 | | | | | | | | | Nil Discharge |
| Feb-2018 | 0 | | | | | | | | | Nil Discharge |
| Mar-2018 | 0 | | | | | | | | | Nil Discharge |
| Apr-2018 | 0 | | | | | | | | | Nil Discharge |
| May-2018 | 0 | | | | | | | | | Nil Discharge |
| Jun-2018 | 0 | | | | | | | | | Nil Discharge |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mean | | 0.00 | 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 | 0.00 | |
| Highest | | 0.00 | 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-2017 | 0 | | | | | | | | | Nil Discharge |
| Aug-2017 | 0 | | | | | | | | | Nil Discharge |
| Sep-2017 | 0 | | | | | | | | | Nil Discharge |
| 23.10.2017 | 1 | 8.3 | | 19 | | 16 | | | | Nil Discharge |
| 24.10.2017 | 1 | 8.6 | | 22 | | 18 | | | | 1ML |
| Nov-2017 | 0 | | | | | | | | | Nil Discharge |
| Dec-2017 | 0 | | | | | | | | | Nil Discharge |
| Jan-2018 | 0 | | | | | | | | | Nil Discharge |
| Feb-2018 | 0 | | | | | | | | | Nil Discharge |
| Mar-2018 | 0 | | | | | | | | | Nil Discharge |
| 05.04.2018 | 1 | 6.9 | | 18 | | 7 | | | | Nil Discharge |
| 06.04.2018 | 1 | 7.8 | | 11 | | 12 | | | | 1ML |
| Apr-2018 | 0 | | | | | | | | | Nil Discharge |
| May-2018 | 0 | | | | | | | | | Nil Discharge |
| Jun-2018 | 0 | | | | | | | | | Nil Discharge |
| | | 31.6 | 0 | 70 | 0 | 53 | 0 | 0 | 0 | |
| Mean | | 7.90 | #DIV/0! | 17.50 | #DIV/0! | 13.25 | #DIV/0! | #DIV/0! | #DIV/0! | |
| Lowest | | 6.90 | 0.00 | 11.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | |
| Highest | | 8.60 | 0.00 | 22.00 | 0.00 | 18.00 | 0.00 | 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-2017 | 0 | | | | | | | | | Nil Discharge |
| Aug-2017 | 0 | | | | | | | | | Nil Discharge |
| Sep-2017 | 0 | | | | | | | | | Nil Discharge |
| Oct-2017 | 0 | | | | | | | | | Nil Discharge |
| Nov-2017 | 0 | | | | | | | | | Nil Discharge |
| Dec-2017 | 0 | | | | | | | | | Nil Discharge |
| Jan-2018 | 0 | | | | | | | | | Nil Discharge |
| Feb-2018 | 0 | | | | | | | | | Nil Discharge |
| Mar-2018 | 0 | | | | | | | | | Nil Discharge |
| Apr-2018 | 0 | | | | | | | | | Nil Discharge |
| May-2018 | 0 | | | | | | | | | Nil Discharge |
| Jun-2018 | 0 | | | | | | | | | Nil Discharge |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mean | | #DIV/0! | #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 | 0.00 | |
| Highest | | 0.00 | 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-2017 | 0 | | | | | | | | | Nil Discharge |
| Aug-2017 | 0 | | | | | | | | | Nil Discharge |
| Sep-2017 | 0 | | | | | | | | | Nil Discharge |
| Oct-2017 | 0 | | | | | | | | | Nil Discharge |
| Nov-2017 | 0 | | | | | | | | | Nil Discharge |
| Dec-2017 | 0 | | | | | | | | | Nil Discharge |
| Jan-2018 | 0 | | | | | | | | | Nil Discharge |
| Feb-2018 | 0 | | | | | | | | | Nil Discharge |
| Mar-2018 | 0 | | | | | | | | | Nil Discharge |
| Apr-2018 | 0 | | | | | | | | | Nil Discharge |
| May-2018 | 0 | | | | | | | | | Nil Discharge |
| Jun-2018 | 0 | | | | | | | | | Nil Discharge |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mean | | 0.00 | 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 | 0.00 | |
| Highest | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| Blasting | Frequency | Date | Blast Number | Limits | Units of measure | Results | Monitor Location - Hartley Village |
|------------------|-----------|------------|--------------|-------------------------|------------------|-------------|------------------------------------|
| Ground Vibration | Per Blast | 13.07.2017 | 135 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 13.07.2017 | 135 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 15.08.2017 | 136 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 15.08.2017 | 136 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 13.09.2017 | 137 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 13.09.2017 | 137 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 30.08.2017 | 138 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 30.08.2017 | 138 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 27.09.2017 | 139 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 27.09.2017 | 139 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 11.10.2017 | 140 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 11.10.2017 | 140 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 25.10.2017 | 141 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 25.10.2017 | 141 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 09.11.2017 | 142 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 09.11.2017 | 142 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 22.11.2017 | 143 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 22.11.2017 | 143 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 06.12.2017 | 144 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 06.12.2017 | 144 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 20.12.2017 | 145 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 20.12.2017 | 145 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 31.01.2018 | 146 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 31.01.2018 | 146 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 14.02.2018 | 147 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 14.02.2018 | 147 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 14.03.2018 | 148 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 14.03.2018 | 148 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 07.03.2018 | 149 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 07.03.2018 | 149 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 28.03.2018 | 150 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 28.03.2018 | 150 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 11.04.2018 | 151 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 11.04.2018 | 151 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 26.04.2018 | 152 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 26.04.2018 | 152 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 22.05.2018 | 153 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 22.05.2018 | 153 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 06.06.2018 | 154 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 06.06.2018 | 154 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 20.06.2018 | 155 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 20.06.2018 | 155 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 04.07.2018 | 156 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 04.07.2018 | 156 | 115 - Trigger point <88 | dB | Nil Trigger | N |
| Ground Vibration | Per Blast | 09.07.2018 | 157 | 5 - trigger point >0.51 | mm/s | Nil Trigger | N |
| Overpressure | Per Blast | 09.07.2018 | 157 | 115 - Trigger point <88 | dB | Nil Trigger | N |

Grant's Head Quarry - Licence Number 4040

| EPL Point 1 - sump | 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 |
| Month | Number of Samples | | | | | | | | | |
| 09.08.2016 | 1 | 0.20 | 0.001 | <0.001 | 0.001 | 0.104 | <0.001 | <0.00001 | 0.014 | 0.091 |
| 16.11.2016 | 1 | 0.275 | 0.0003 | 0.0005 | 0.0011 | 0.158 | 0.0017 | <0.00001 | 0.0256 | 0.126 |
| 24.01.2017 | 1 | 0.096 | 0.0003 | 0.0009 | 0.0012 | 0.17 | 0.0007 | 0.00023 | 0.0373 | 0.169 |
| 20.04.2017 | 1 | 0.215 | <0.0002 | 0.0005 | 0.0005 | 0.324 | 0.0004 | <0.00001 | 0.0244 | 0.09 |
| 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 |

| EPL Point 1 - sump | Pollutant | pH (wet) Range 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 |
| 29.06.2017 | 1 | 6.0 | 369 | 5.8 | 9 | <5 | 24 | 6,825.6 |
| 26.07.2017 | 1 | 6.4 | 419 | 16 | 15 | <5 | 24 | 6,825.6 |
| 10.08.2017 | 1 | 6.7 | 430 | 9.8 | 13 | <5 | 24 | 6,825.6 |
| 05.09.2017 | 1 | 6.9 | 452 | 8.7 | 11 | <5 | 24 | 6,825.6 |
| 19.09.2017 | 1 | 5.9 | 441 | 4.9 | 5 | <5 | 24 | 6,825.6 |
| 14.11.2017 | 1 | 6.3 | 411 | 2.7 | <3 | <5 | 24 | 6,825.6 |
| 23.11.2017 | 1 | 5.9 | 396 | 4.1 | 6 | <5 | 15 | 4,266.0 |
| 07.12.2017 | 1 | 6.7 | 386 | 8.8 | 8 | <5 | 20 | 5,688.0 |
| 18.12.2017 | 1 | 6.0 | 397 | 3.1 | 5 | <5 | 21 | 5,972.4 |
| 08.01.2018 | 1 | 6.5 | 251 | 3.0 | 4 | <5 | 24 | 6,825.6 |
| 09.01.2018 | 1 | 6.4 | 256 | 6.1 | 7 | <5 | 24 | 6,825.6 |
| 10.01.2018 | 1 | 5.8 | 249 | 9 | 7 | <5 | 24 | 6,825.6 |
| 11.01.2018 | 1 | 6.3 | 257 | 6.7 | 5 | <5 | 24 | 6,825.6 |
| 30.01.2018 | 1 | 6.0 | 448 | 3.4 | 5 | <5 | 24 | 6,825.6 |
| 15.02.2018 | 1 | 6.1 | 430 | 3.7 | 5 | <5 | 24 | 6,825.6 |
| 26.02.2018 | 1 | 6.1 | 357 | 2.1 | <4 | <5 | 24 | 6,825.6 |
| 07.03.2018 | 1 | 6.5 | 305 | 1.7 | 12 | <5 | 24 | 6,825.6 |
| 08.03.2018 | 1 | 6.1 | 294 | 7.9 | 7 | <5 | 24 | 6,825.6 |
| 26.03.2018 | 1 | 6.3 | 247 | 6 | 5 | <5 | 24 | 6,825.6 |
| 27.03.2018 | 1 | 6.1 | 244 | 7.3 | 6 | <5 | 24 | 6,825.6 |
| 04.04.2018 | 1 | 6.2 | 271 | 3.3 | 4 | <5 | 24 | 6,825.6 |
| 09.04.2018 | 1 | 6.2 | 320 | 2.8 | 5 | <5 | 24 | 6,825.6 |
| 26.04.2018 | 1 | 6.4 | 327 | 1.7 | 14 | <5 | 24 | 6,825.6 |
| 02.05.2018 | 1 | 6.1 | 318 | 4.8 | 5 | <5 | 24 | 6,825.6 |
| 15.05.2018 | 1 | 5.8 | 354 | 4 | 4 | <5 | 24 | 6,825.6 |
| 23.05.2018 | 1 | 6.0 | 385 | 2.3 | 3 | <5 | 16 | 4,550.4 |
| 06.06.2018 | 1 | 6.0 | 334 | 25 | 21 | <5 | 24 | 6,825.6 |
| 13.06.2018 | 1 | 6.1 | 323 | 2.1 | <3 | <5 | 24 | 6,825.6 |

184,291.2

| Grant's Head Points 2 & 3 | Position ID | Standing Water Level Meters (mAHD) | Position ID | Standing Water Level Meters (mAHD) |
|---------------------------|-------------|------------------------------------|-------------|------------------------------------|
| | | Quarterly | | Quarterly |
| 30.03.2016 | MW05 | 4.609 | MW06 | 4.759 |
| 26.05.2016 | MW05 | 4.644 | MW06 | 4.794 |
| 23.09.2016 | MW05 | 4.589 | MW06 | 4.757 |
| 12.12.2016 | MW05 | 4.443 | MW06 | 4.577 |
| 28.03.2017 | MW05 | 4.814 | MW06 | 4.934 |
| 19.06.2017 | MW05 | 4.619 | MW06 | 4.839 |

| | | | | |
|------------|------|-------|------|-------|
| 11.10.2017 | MW05 | 4.474 | MW06 | 4.529 |
| 17.01.2018 | MW05 | 4.664 | MW06 | 4.809 |
| 11.04.2018 | MW05 | 3.739 | MW06 | 4.849 |

| Grant's Head Point 4 | Position ID | Conductivity | pH | Standing Water Level | Aluminium | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Zinc |
|----------------------|-------------|--------------|------|----------------------|-----------|---------|---------|----------|--------|--------|---------|--------|-------|
| 23.09.2016 | NW01S | 417 | 4.83 | -0.117 | | | | | | | | | |
| 23.09.2016 | NW01D | 410 | 6.62 | -0.556 | | | | | | | | | |
| 12.12.2016 | NW01S | 454 | 5.1 | -0.923 | <0.05 | <0.001 | <0.0002 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | 0.032 |
| 12.12.2016 | NW01D | 470 | 4.39 | -1.305 | 0.42 | <0.001 | <0.0002 | <0.001 | 0.002 | <0.001 | <0.001 | 0.002 | 0.011 |
| 28.03.2017 | NW01S | 123.7 | 4.87 | 0.205 | | | | | | | | | |
| 28.03.2017 | NW01D | 444.1 | 4.43 | -0.345 | | | | | | | | | |
| 19.06.2017 | NW01S | 481 | 4.65 | 0.83 | | | | | | | | | |
| 19.06.2017 | NW01D | 508 | 4.37 | 0.19 | | | | | | | | | |
| 11.10.2017 | NW01S | 471 | 4.96 | -1.055 | | | | | | | | | |
| 11.10.2017 | NW01D | 508 | 4.1 | -4.15 | | | | | | | | | |
| 17.01.2018 | NW01D | 492 | 4.67 | -0.79 | 0.51 | <0.001 | <0.0002 | <0.001 | 0.005 | <0.001 | <0.0001 | 0.003 | 0.034 |
| 17.01.2018 | NW01S | 447 | 4.99 | -0.14 | 0.22 | <0.001 | <0.0002 | <0.001 | 0.002 | <0.001 | <0.0001 | 0.002 | 0.012 |
| 11.04.2018 | NW01D | 523 | 4.74 | -0.35 | | | | | | | | | |
| 11.04.2018 | NW01S | 459 | 5.04 | 0.245 | | | | | | | | | |

| Grant's Head Point 5 | Position ID | Conductivity | pH | Standing Water Level | Aluminium | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Zinc |
|----------------------|-------------|--------------|------|----------------------|-----------|---------|---------|----------|--------|--------|---------|--------|--------|
| 23.09.2016 | NW02S | 270 | 3.89 | -7.696 | | | | | | | | | |
| 23.09.2016 | NW02D | 700 | 5.88 | -0.307 | | | | | | | | | |
| 12.12.2016 | NW02S | 352 | 3.79 | -8.112 | 0.34 | <0.001 | <0.0002 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.005 |
| 12.12.2016 | NW02D | 870 | 5.86 | -1.135 | <0.05 | 0.004 | <0.0002 | <0.001 | <0.001 | <0.001 | <0.001 | 0.014 | <0.005 |
| 28.03.2017 | NW02S | 275.2 | 4.29 | -7.73 | | | | | | | | | |
| 28.03.2017 | NW02D | 741 | 5.97 | -0.92 | | | | | | | | | |
| 19.06.2017 | NW02S | 345 | 3.79 | -7.9 | | | | | | | | | |
| 19.06.2017 | NW02D | 873 | 5.84 | -0.845 | | | | | | | | | |
| 11.10.2017 | NW02S | 822 | 5.86 | -8.374 | | | | | | | | | |
| 11.10.2017 | NW02D | 352 | 3.93 | -0.87 | | | | | | | | | |
| 17.01.2018 | NW02D | 842 | 6.02 | -0.535 | <0.05 | 0.004 | <0.0002 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.013 | 0.006 |
| 17.01.2018 | NW02S | 353 | 4.1 | -8.35 | 0.39 | <0.001 | <0.0002 | <0.001 | 0.005 | <0.001 | <0.0001 | <0.001 | 0.009 |
| 11.04.2018 | NW02D | 890 | 6.13 | -0.325 | | | | | | | | | |
| 11.04.2018 | NW02S | 398 | 4.28 | -8.41 | | | | | | | | | |

| Grant's Head Point 6 | Position ID | Conductivity | pH | Standing Water Level | Aluminium | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Zinc |
|----------------------|-------------|--------------|------|----------------------|-----------|---------|---------|----------|--------|--------|---------|--------|--------|
| 23.09.2016 | NW03S | 332 | 3.99 | -11.248 | | | | | | | | | |
| 23.09.2016 | NW03D | 1205 | 4.89 | -29.519 | | | | | | | | | |
| 12.12.2016 | NW03S | 435 | 3.66 | -11.336 | 0.23 | <0.001 | <0.0002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 |
| 12.12.2016 | NW03D | 1318 | 5.63 | -30.475 | <0.05 | <0.001 | <0.0002 | <0.001 | <0.001 | <0.001 | <0.001 | 0.03 | 0.042 |
| 28.03.2017 | NW03S | 338.4 | 4.59 | -10.83 | | | | | | | | | |
| 28.03.2017 | NW03D | 1301 | 7.05 | -29.76 | | | | | | | | | |
| 19.06.2017 | NW03S | 440 | 5.25 | -10.815 | | | | | | | | | |
| 19.06.2017 | NW03D | 1412 | 5.46 | -30.45 | | | | | | | | | |
| 11.10.2017 | NW03S | 412 | 3.99 | -11.115 | | | | | | | | | |
| 11.10.2017 | NW03D | 1369 | 5.4 | -29.707 | | | | | | | | | |
| 17.01.2018 | NW03D | 1211 | 5.35 | | <0.05 | <0.001 | <0.0002 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.029 | 0.057 |
| 17.01.2018 | NW03S | 421 | 4.52 | | 0.2 | <0.001 | <0.0002 | <0.001 | 0.003 | <0.001 | <0.0001 | <0.001 | 0.011 |
| 11.04.2018 | NW03D | 489 | 2.11 | -32.015 | | | | | | | | | |
| 11.04.2018 | NW03S | 465 | 4.64 | -11.01 | | | | | | | | | |

Grant's Head Quarry - Licence Number 4040

| Blasting | Frequency | Date | Limits | Units of measure | Results Bonny Hills 1st House | Results - Sherrord Park | Blast No # |
|------------------|-----------|------------|--------------------------|------------------|-------------------------------|-------------------------|------------|
| Ground Vibration | Per Blast | 13.10.2016 | 5 - trigger point >0.27 | mm/s | 1.48 | NII Trigger | #114 |
| Overpressure | Per Blast | 13.10.2016 | 115 - Trigger point >100 | dB | 101.5 | NII Trigger | #114 |
| Ground Vibration | Per Blast | 14.12.2016 | 5 - trigger point >0.27 | mm/s | 1.68 | NII Trigger | #115 |
| Overpressure | Per Blast | 14.12.2016 | 115 - Trigger point >100 | dB | 101.7 | NII Trigger | #115 |
| Ground Vibration | Per Blast | 10.02.2017 | 5 - trigger point >0.27 | mm/s | 3.5 | NII Trigger | #116 |
| Overpressure | Per Blast | 10.02.2017 | 115 - Trigger point >100 | dB | 109.1 | NII Trigger | #116 |
| Ground Vibration | Per Blast | 05.07.2017 | 5 - trigger point >0.27 | mm/s | 1.18 | NII Trigger | #117 |
| Overpressure | Per Blast | 05.07.2017 | 115 - Trigger point >100 | dB | 98.9 | NII Trigger | #117 |
| Ground Vibration | Per Blast | 16.08.2017 | 5 - trigger point >0.27 | mm/s | 1.61 | 0.63 | #118 |
| Overpressure | Per Blast | 16.08.2017 | 115 - Trigger point >100 | dB | 103.8 | 107 | #118 |
| Ground Vibration | Per Blast | 31.10.2017 | 5 - trigger point >0.27 | mm/s | 4.57 | NII Trigger | #119 |
| Overpressure | Per Blast | 31.10.2017 | 115 - Trigger point >100 | dB | 104.9 | NII Trigger | #119 |
| Ground Vibration | Per Blast | 18.01.2018 | 5 - trigger point >0.27 | mm/s | 3.97 | NII Trigger | #120 |
| Overpressure | Per Blast | 18.01.2018 | 115 - Trigger point >100 | dB | 107.1 | NII Trigger | #120 |
| Ground Vibration | Per Blast | 13.02.2018 | 5 - trigger point >0.27 | mm/s | 2.5 | 0.13 | #121 |
| Overpressure | Per Blast | 13.02.2018 | 115 - Trigger point >100 | dB | 108.6 | 115.0 | #121 |
| Ground Vibration | Per Blast | 10.04.2018 | 5 - trigger point >0.27 | mm/s | 1.79 | NII Trigger | #122 |
| Overpressure | Per Blast | 10.04.2018 | 115 - Trigger point >100 | dB | 104.1 | NII Trigger | #122 |

Tumbulgum EPL 3430

| | Pollutant | OIL and Grease -10 Milligrams per lit. | 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? |
|--------------------------|--------------------------|--|--|-------------------------------------|--|------------------------------------|
| Tumbulgum Point 1 | WM 1 | | | | | |
| | Frequency | Less than 24 hours before Discharge | Less than 24 hours before Discharge | Less than 24 hours before Discharge | Daily when wastes (water) discharged Klitres per day | |
| Month | Number of Samples | | | | | |
| Jul-2017 | NII | | | | | |
| Aug-2017 | NII | | | | | |
| Sep-2017 | NII | | | | | |
| Oct-2017 | NII | | | | | |
| Nov-2017 | NII | | | | | |
| Dec-2017 | NII | | | | | |
| Jan-2018 | NII | | | | | |
| Feb-2018 | NII | | | | | |
| Mar-2018 | NII | | | | | |
| Apr-2018 | NII | | | | | |
| May-2018 | NII | | | | | |
| Jun-2018 | NII | | | | | |

| | Pollutant | OIL and Grease -10 Milligrams per lit. | 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? |
|--------------------------|--------------------------|--|--|---------------------------|--|------------------------------------|
| Tumbulgum Point 2 | WM 2 | | | | | |
| | Frequency | | Monthly during discharge | <24hrs prior to discharge | Daily when wastes (water) discharged Klitres per day | |
| Month | Number of Samples | | | | | |
| Jul-2017 | NII | | | | | |
| Aug-2017 | NII | | | | | |
| Sep-2017 | NII | | | | | |
| Oct-2017 | NII | | | | | |
| Nov-2017 | NII | | | | | |

| | | | | | | | | |
|----------|-----|--|--|--|--|--|--|--|
| Dec-2017 | Nil | | | | | | | |
| Jan-2018 | Nil | | | | | | | |
| Feb-2018 | Nil | | | | | | | |
| Mar-2018 | Nil | | | | | | | |
| Apr-2018 | Nil | | | | | | | |
| May-2018 | Nil | | | | | | | |
| Jun-2018 | Nil | | | | | | | |

Tumbulgum EPL 3430

Tumbulgum Blast Monitoring results

| Blasting | Frequency | Date | Limits | Units of measure | Loc # 1 - 43 Pollard Rd | Loc # 2 - 2 Pollard Rd | 731 Dulguigan Rd | Blast # |
|------------------|-----------|------------|------------------------------|------------------|-------------------------|------------------------|------------------|---------|
| Ground Vibration | Per Blast | 20.02.2017 | 5 - trigger point >0.51 | mm/s | No Trigger | 0.696 | Not required | #27 |
| Overpressure | Per Blast | 20.02.2017 | Max 115 - Trigger point >115 | dB | No Trigger | 102.8 | Not required | #27 |
| Ground Vibration | Per Blast | 20.02.2017 | 5 - trigger point >0.51 | mm/s | No Trigger | 0.539 | Not required | #28 |
| Overpressure | Per Blast | 20.02.2017 | Max 115 - Trigger point >115 | dB | No Trigger | 102.8 | Not required | #28 |
| Ground Vibration | Per Blast | 03.05.2017 | 5 - trigger point >0.26 | mm/s | No Trigger | 0.55 | Not required | #29 |
| Overpressure | Per Blast | 03.05.2017 | Max 115 - Trigger point >100 | dB | No Trigger | 104.9 | Not required | #29 |
| Ground Vibration | Per Blast | 03.05.2017 | 5 - trigger point >0.26 | mm/s | 0.52 | 2.29 | Not required | #30 |
| Overpressure | Per Blast | 03.05.2017 | Max 115 - Trigger point >100 | dB | 107.5 | 108 | Not required | #30 |
| Ground Vibration | Per Blast | 23.05.2017 | 5 - trigger point >0.26 | mm/s | 0.34 | 0.35 | Not required | #31 |
| Overpressure | Per Blast | 23.05.2017 | Max 115 - Trigger point >100 | dB | 104.2 | 105.5 | Not required | #31 |
| Ground Vibration | Per Blast | 23.05.2017 | 5 - trigger point >0.26 | mm/s | 0.34 | 0.35 | Not required | #32 |
| Overpressure | Per Blast | 23.05.2017 | Max 115 - Trigger point >100 | dB | 104.2 | 105.5 | Not required | #32 |
| Ground Vibration | Per Blast | 23.05.2017 | 5 - trigger point >0.26 | mm/s | 0.67 | 1.12 | Not required | #33 |
| Overpressure | Per Blast | 23.05.2017 | Max 115 - Trigger point >100 | dB | 107.5 | 105.5 | Not required | #33 |
| 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 |

Yarrabee Rd Quarry - Licence Number 11462

| Yarrabee Rd Point 3 | | Pollutant | Total Suspended Solids Max 50 Milligrams per litre | pH (wet) Range 6.5 to 8.5 | Requirement to Monitor Volume or Mass |
|---------------------|-------------------|-----------|---|---------------------------|---|
| Month | Number of Samples | Frequency | <24hrs prior to discharge | <24hrs prior to discharge | Daily when wastes (water) discharged Litres per day |
| 06.03.2017 | 1 | | 7 | 8.2 | 0 |
| 01.05.2017 | 1 | | <3 | 8.9 | 0 |
| 29.11.2017 | 1 | | 30 | 8.3 | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Number of samples | 3 | | | | |
| Mean | | | 18.50 | 8.47 | - |
| Lowest | | | 7.00 | 8.20 | - |
| 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 | 05.10.2016 | 5 - trigger point >1.00 | mm/s | 1.36 | #60 | YRQ-1606 |
| Overpressure | Per Blast | 05.10.2016 | Max 115 - Trigger point >105 | dB | 114.0 | #60 | YRQ-1606 |
| Ground Vibration | Per Blast | 17.11.2016 | 5 - trigger point >1.00 | mm/s | 1.11 | #61 | YRQ-1607 |
| Overpressure | Per Blast | 17.11.2016 | Max 115 - Trigger point >105 | dB | 112.5 | #61 | YRQ-1607 |
| Ground Vibration | Per Blast | 15.12.2016 | 5 - trigger point >1.00 | mm/s | 1.28 | #62 | YRQ-1608 |
| Overpressure | Per Blast | 15.12.2016 | Max 115 - Trigger point >105 | dB | 111.1 | #62 | YRQ-1608 |
| Ground Vibration | Per Blast | 16.02.2017 | 5 - trigger point >1.00 | mm/s | 0.65 | #63 | YRQ-1701 |
| Overpressure | Per Blast | 16.02.2017 | Max 115 - Trigger point >105 | dB | 114.8 | #63 | YRQ-1701 |
| Ground Vibration | Per Blast | 28.03.2017 | 5 - trigger point >1.00 | mm/s | Nil Trigger | #64 | YRQ-1702 |
| Overpressure | Per Blast | 28.03.2017 | Max 115 - Trigger point >105 | dB | Nil Trigger | #64 | YRQ-1702 |
| Ground Vibration | Per Blast | 06.06.2017 | 5 - trigger point >1.00 | mm/s | 1.61 | #65 | YRQ-1703 |
| Overpressure | Per Blast | 06.06.2017 | Max 115 - Trigger point >105 | dB | 110.1 | #65 | YRQ-1703 |
| Ground Vibration | Per Blast | 21.06.2017 | 5 - trigger point >1.00 | mm/s | 0.52 | #66 | YRQ-1704 |
| Overpressure | Per Blast | 21.06.2017 | Max 115 - Trigger point >105 | dB | 111.7 | #66 | YRQ-1704 |
| Ground Vibration | Per Blast | 18.07.2017 | 5 - trigger point >1.00 | mm/s | 1.20 | #67 | YRQ-1705 |
| Overpressure | Per Blast | 18.07.2017 | Max 115 - Trigger point >105 | dB | 114.0 | #67 | YRQ-1705 |
| Ground Vibration | Per Blast | 09.08.2017 | 5 - trigger point >1.00 | mm/s | 0.86 | #68 | YRQ-1706 |
| Overpressure | Per Blast | 09.08.2017 | Max 115 - Trigger point >105 | dB | 111.4 | #68 | YRQ-1706 |
| 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 >1.00 | 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 >0.30 | mm/s | Nil Trigger | #74 | YRQ-1803 |
| Overpressure | Per Blast | 21.05.2018 | Max 115 - Trigger point >100dB | dB | Nil Trigger | #74 | YRQ-1803 |