

| Water Monitoring - Teralba Quarry - 2020 - EPA Point No.4 - Adit Overflow | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|------------|-------------------------|
| Sample No. | EPA No 4 - 169A | | EPA No 4 - 169B | | EPA No 4 - | | EPA No 4 - | | EPA No 4 - | | EPA No 4 - | | Guidelines | |
| Dates | January 2020. | | February 2020. | | March 2020. | | April 2020. | | May 2020. | | June 2020. | | | |
| 0 | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | | |
| Sample | Units | | | | | | | | | | | | | |
| pH | ph Unit | 7.23 | | 7.19 | | 7.36 | | 7.22 | | 7.16 | | 7.1 | | 6.5 to 8.5 units |
| Conductivity | µS/cm | 2140 | | 1990 | | 2030 | | 2060 | | 2140 | | 1990 | | 125 - 2200 ^b |
| TSS | mg/L | 9 | | <5 | | 29 | | 17 | | <5 | | 6 | | <50 |
| Oil & Grease | mg/L | <5 | | <5 | | <5 | | <5 | | <5 | | <5 | | 5 |
| Aluminium | mg/L | | | | | | | | | | | | | 0.2 |
| Ammonia as N | mg/L | | | | | | | | | | | | | 0.01 |
| Antimony | mg/L | | | | | | | | | | | | | NA |
| Arsenic | mg/L | | | | | | | | | | | | | 0.05 |
| Barium | mg/L | | | | | | | | | | | | | 1 |
| Beryllium | mg/L | | | | | | | | | | | | | NA |
| Boron | mg/L | | | | | | | | | | | | | 1 |
| Cadmium | mg/L | | | | | | | | | | | | | 0.005 |
| Calcium | mg/L | | | | | | | | | | | | | 1000 ^c |
| Chromium | mg/L | | | | | | | | | | | | | 0.05 |
| Cobalt | mg/L | | | | | | | | | | | | | 1000 |
| Copper | mg/L | | | | | | | | | | | | | 1 |
| Iron | mg/L | | | | | | | | | | | | | 0.3 |
| Lead | mg/L | | | | | | | | | | | | | 0.05 |
| Lithium | mg/L | | | | | | | | | | | | | 0.075 ^d |
| Magnesium | mg/L | | | | | | | | | | | | | NA |
| Manganese | mg/L | | | | | | | | | | | | | 0.1 |
| Mercury | mg/L | | | | | | | | | | | | | 0.001 |
| Molybdenum | mg/L | | | | | | | | | | | | | 0.15 ^c |
| Nickel | mg/L | | | | | | | | | | | | | 0.1 |
| Phosphorous as P | mg/L | | | | | | | | | | | | | NA |
| Potassium | mg/L | | | | | | | | | | | | | NA |
| Selenium | mg/L | | | | | | | | | | | | | 0.01 |
| Silica as SiO2 | mg/L | | | | | | | | | | | | | NA |
| Silver | mg/L | | | | | | | | | | | | | 0.05 |
| Sulfur as S | mg/L | | | | | | | | | | | | | NA |
| Tin | mg/L | | | | | | | | | | | | | NA |
| Titanium | mg/L | | | | | | | | | | | | | NA |
| Vanadium | mg/L | | | | | | | | | | | | | NA |
| Zinc | mg/L | | | | | | | | | | | | | NA |

Indicates result Indicates results that varied between filtered and unfiltered samples

ND = Not Determined

NA = Not Applicable

^a Based on ANZECC Guidelines for Fresh and Marine Water Quality - Recreational Water Quality (ANZECC 2000) except where indicated

^b Based on ANZECC Guidelines slightly disturbed lowland river ecosystems in south-east Australia (ANZECC 2000)

^c Based on ANZECC Guidelines for Fresh and Marine Water Quality -Livestock Water Quality (ANZECC 2000)

^d Based on ANZECC Guidelines for Fresh and Marine Water Quality -Irrigation Water Quality (ANZECC 2000)

| Water Monitoring - Teralba Quarry - 2020 - EPA Point No.5 - Overflow Dam B | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------|------------------|---------|-----------------------|-------------------------|-----------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|------------|--------------------|--------------------|-------------------------|
| Sample No. Dates | Sample | Units | EPA No 5 - | | | | EPA No 5 - | | | | | | | | Dissolved (Filtered) | Guidelines | | | |
| | | | January 2020. | | February 2020. | | March 2020. | | | | | | | | | | | | |
| | | | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | | | Total (Unfiltered) | Total (Unfiltered) | |
| 0 | | | | | | | | | | | | | | | | | | | |
| | Sample | Units | No Discharge | | | | 10/03/2020 | 11/03/2020 | 16/03/2020 | 17/03/2020 | 19/03/2020 | 20/03/2020 | 23/03/2020 | 25/03/2020 | 26/03/2020 | 27/03/2020 | 30/03/2020 | 31/03/2020 | 6.5 to 8.5 units |
| | pH | ph Unit | No Discharge | | | | 7.11 | 7.1 | 6.93 | 6.99 | 7.07 | 7.17 | 7.22 | 7.09 | 7.16 | 7.01 | 6.85 | 6.75 | 1 |
| | Conductivity | µS/cm | No Discharge | | | | 1050 | 1010 | 1180 | 1140 | 1140 | 1140 | 1150 | 1130 | 934 | 1020 | 1140 | 1190 | 125 - 2200 ^b |
| | TSS | mg/L | No Discharge | | | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| | Oil & Grease | mg/L | No Discharge | | | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5 |
| | Aluminium | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.2 |
| | Ammonia as N | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.01 |
| | Antimony | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Arsenic | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.05 |
| | Barium | mg/L | No Discharge | | | | | | | | | | | | | | | | 1 |
| | Beryllium | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Boron | mg/L | No Discharge | | | | | | | | | | | | | | | | 1 |
| | Cadmium | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.005 |
| | Calcium | mg/L | No Discharge | | | | | | | | | | | | | | | | 1000 ^c |
| | Chromium | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.05 |
| | Cobalt | mg/L | No Discharge | | | | | | | | | | | | | | | | 1000 |
| | Copper | mg/L | No Discharge | | | | | | | | | | | | | | | | 1 |
| | Iron | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.3 |
| | Lead | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.05 |
| | Lithium | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.075 ^d |
| | Magnesium | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Manganese | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.1 |
| | Mercury | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.001 |
| | Molybdenum | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.15 ^e |
| | Nickel | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.1 |
| | Phosphorous as P | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Potassium | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Selenium | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.01 |
| | Silica as SiO2 | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Silver | mg/L | No Discharge | | | | | | | | | | | | | | | | 0.05 |
| | Sulfur as S | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Tin | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Titanium | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Vanadium | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |
| | Zinc | mg/L | No Discharge | | | | | | | | | | | | | | | | NA |

| Water Monitoring - Teralba Quarry - 2020 - EPA Point No.5 - Overflow Dam B | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------|------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|-------------------------|------------|
| Sample No. Dates | Sample | Units | EPA No 5 - | | | | | | | | | | | | | | | | EPA No 5 - | | EPA No 5 - | | Guidelines |
| | | | April 2020. | | | | | | | | | | | | | | | | May 2020. | | June 2020. | | |
| | | | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Total (Unfiltered) | Dissolved (Filtered) | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | Sample | Units | 1/04/2020 | 2/04/2020 | 3/04/2020 | 6/04/2020 | 7/04/2020 | 8/04/2020 | 9/04/2020 | 14/04/2020 | 15/04/2020 | 16/04/2020 | 17/04/2020 | 20/04/2020 | 21/04/2020 | 22/04/2020 | 23/04/2020 | 24/04/2020 | 27/04/2020 | No Discharge | | | |
| | pH | ph Unit | 6.78 | 6.8 | 6.94 | 7.37 | 7.19 | 6.91 | 6.95 | 6.93 | 6.96 | 6.74 | 6.76 | 6.86 | 6.88 | 6.99 | 7.02 | 6.95 | | | 6.5 to 8.5 units | | |
| | Conductivity | µS/cm | 1160 | 1150 | 1150 | 1170 | 1170 | 1050 | 1050 | 1020 | 1080 | 1010 | 1100 | 1130 | 1120 | 1130 | 1130 | 1180 | | | 125 - 2200 ^b | | |
| | TSS | mg/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 8 | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 | | |
| | Oil & Grease | mg/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5 | | |
| | Aluminium | mg/L | | | | | | | | | | | | | | | | | | | 0.2 | | |
| | Ammonia as N | mg/L | | | | | | | | | | | | | | | | | | | 0.01 | | |
| | Antimony | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Arsenic | mg/L | | | | | | | | | | | | | | | | | | | 0.05 | | |
| | Barium | mg/L | | | | | | | | | | | | | | | | | | | 1 | | |
| | Beryllium | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Boron | mg/L | | | | | | | | | | | | | | | | | | | 1 | | |
| | Cadmium | mg/L | | | | | | | | | | | | | | | | | | | 0.005 | | |
| | Calcium | mg/L | | | | | | | | | | | | | | | | | | | 1000 ^c | | |
| | Chromium | mg/L | | | | | | | | | | | | | | | | | | | 0.05 | | |
| | Cobalt | mg/L | | | | | | | | | | | | | | | | | | | 1000 | | |
| | Copper | mg/L | | | | | | | | | | | | | | | | | | | 1 | | |
| | Iron | mg/L | | | | | | | | | | | | | | | | | | | 0.3 | | |
| | Lead | mg/L | | | | | | | | | | | | | | | | | | | 0.05 | | |
| | Lithium | mg/L | | | | | | | | | | | | | | | | | | | 0.075 ^d | | |
| | Magnesium | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Manganese | mg/L | | | | | | | | | | | | | | | | | | | 0.1 | | |
| | Mercury | mg/L | | | | | | | | | | | | | | | | | | | 0.001 | | |
| | Molybdenum | mg/L | | | | | | | | | | | | | | | | | | | 0.15 ^e | | |
| | Nickel | mg/L | | | | | | | | | | | | | | | | | | | 0.1 | | |
| | Phosphorous as P | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Potassium | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Selenium | mg/L | | | | | | | | | | | | | | | | | | | 0.01 | | |
| | Silica as SiO2 | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Silver | mg/L | | | | | | | | | | | | | | | | | | | 0.05 | | |
| | Sulfur as S | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Tin | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Titanium | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Vanadium | mg/L | | | | | | | | | | | | | | | | | | | NA | | |
| | Zinc | mg/L | | | | | | | | | | | | | | | | | | | NA | | |

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^e Based on ANZECC Guidelines for Fresh and Marine Water Quality -Irrigation Water Quality (ANZECC 2000)

| Water Monitoring - Teraiba Quarry - 2020 - EPA Point No.5 - Overflow Dam B | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------|---------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|-------------------------|
| Sample No. | Dates | July 2020. | | August 2020. | | September 2020. | | October 2020. | | November 2020. | | December 2020. | | Guidelines |
| | | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | Total (Unfiltered) | Dissolved (Filtered) | |
| 0 | | | | | | | | | | | | | | |
| Sample | Units | | | | | | | | | | | | | |
| pH | ph Unit | | | | | | | | | | | | | 6.5 to 8.5 units |
| Conductivity | µS/cm | | | | | | | | | | | | | 125 - 2200 ^b |
| TSS | mg/L | | | | | | | | | | | | | <50 |
| Oil & Grease | mg/L | | | | | | | | | | | | | 5 |
| Aluminium | mg/L | | | | | | | | | | | | | 0.2 |
| Ammonia as N | mg/L | | | | | | | | | | | | | 0.01 |
| Antimony | mg/L | | | | | | | | | | | | | NA |
| Arsenic | mg/L | | | | | | | | | | | | | 0.05 |
| Barium | mg/L | | | | | | | | | | | | | 1 |
| Beryllium | mg/L | | | | | | | | | | | | | NA |
| Boron | mg/L | | | | | | | | | | | | | 1 |
| Cadmium | mg/L | | | | | | | | | | | | | 0.005 |
| Calcium | mg/L | | | | | | | | | | | | | 1000 ^c |
| Chromium | mg/L | | | | | | | | | | | | | 0.05 |
| Cobalt | mg/L | | | | | | | | | | | | | 1000 |
| Copper | mg/L | | | | | | | | | | | | | 1 |
| Iron | mg/L | | | | | | | | | | | | | 0.3 |
| Lead | mg/L | | | | | | | | | | | | | 0.05 |
| Lithium | mg/L | | | | | | | | | | | | | 0.075 ^d |
| Magnesium | mg/L | | | | | | | | | | | | | NA |
| Manganese | mg/L | | | | | | | | | | | | | 0.1 |
| Mercury | mg/L | | | | | | | | | | | | | 0.001 |
| Molybdenum | mg/L | | | | | | | | | | | | | 0.15 ^c |
| Nickel | mg/L | | | | | | | | | | | | | 0.1 |
| Phosphorous as P | mg/L | | | | | | | | | | | | | NA |
| Potassium | mg/L | | | | | | | | | | | | | NA |
| Selenium | mg/L | | | | | | | | | | | | | 0.01 |
| Silica as SiO2 | mg/L | | | | | | | | | | | | | NA |
| Silver | mg/L | | | | | | | | | | | | | 0.05 |
| Sulfur as S | mg/L | | | | | | | | | | | | | NA |
| Tin | mg/L | | | | | | | | | | | | | NA |
| Titanium | mg/L | | | | | | | | | | | | | NA |
| Vanadium | mg/L | | | | | | | | | | | | | NA |
| Zinc | mg/L | | | | | | | | | | | | | NA |

Indicates results that varied between filtered and unfiltered samples

ND = Not Determined

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^a Based on ANZECC Guidelines for Fresh and Marine Water Quality - Recreational Water Quality (ANZECC 2000) except where indicated

^b Based on ANZECC Guidelines slightly disturbed lowland river ecosystems in south-east Australia (ANZECC 2000)

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^d Based on ANZECC Guidelines for Fresh and Marine Water Quality - Irrigation Water Quality (ANZECC 2000)

| Daily Discharge EPA No.6 | | | | |
|--------------------------|---------------------|----|-------------------------|----------|
| Date | Metromix Sample No. | pH | Suspended Solids (mg/L) | Comments |
| Jan-20 | No Discharge | | | |
| Feb-20 | No Discharge | | | |
| Mar-20 | No Discharge | | | |
| Apr-20 | No Discharge | | | |
| May-20 | No Discharge | | | |
| Jun-20 | No Discharge | | | |
| Jul-20 | | | | |
| Aug-20 | | | | |
| Sep-20 | | | | |
| Oct-20 | | | | |
| Nov-20 | | | | |
| Dec-20 | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Daily Discharge EPA No.7 | | | | |
|--------------------------|---------------------|----|-------------------------|----------|
| Date | Metromix Sample No. | pH | Suspended Solids (mg/L) | Comments |
| Jan-20 | No Discharge | | | |
| Feb-20 | No Discharge | | | |
| Mar-20 | No Discharge | | | |
| Apr-20 | No Discharge | | | |
| May-20 | No Discharge | | | |
| Jun-20 | No Discharge | | | |
| Jul-20 | | | | |
| Aug-20 | | | | |
| Sep-20 | | | | |
| Oct-20 | | | | |
| Nov-20 | | | | |
| Dec-20 | | | | |
| Jan-00 | | | | |