

**Table 3 Kyalla 117 Anthony Lagoon Beds bore comparison**

| Analyte                                      | RN040896<br>(BET-<br>MB021)<br>Count<br>Samples | EQL   | EQL Units | Output<br>Unit | RN040896<br>(BET-MB021)<br>75th<br>percentile | RN041137 (BET-<br>MB023)<br>Concentration as of<br>Last Sample Date | RN041137<br>(BET-MB023)<br>to RN040896<br>(BET-MB021)<br>Ratio | 75th Percentile<br>Exceedance |
|--|---|-------|-----------|----------------|---|---|--|-------------------------------|
| Acenaphthene                                 | 25  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Acenaphthylene                               | 25  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Alkalinity (Bicarbonate) as CaCO3            | 24  | 1     | mg/L      | mg/L           | 293.25  | 264   | 0.878535774  | Complies                      |
| Alkalinity (Carbonate)_as CaCO3              | 24  | 1     | mg/L      | mg/L           | 1   | 1   | 1  | Complies                      |
| Alkalinity (Hydroxide) as CaCO3              | 24  | 1     | mg/L      | mg/L           | 1   | 1   | 1  | Complies                      |
| Alkalinity (Total) as CaCO3                  | 24  | 1     | mg/L      | mg/L           | 293.25  | 264   | 0.878535774  | Complies                      |
| Anions Total                                 | 24  | 0.01  | meq/L     | meq/L          | 13.225  | 11  | 0.852713178  | Complies                      |
| Anthracene                                   | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Arsenic (filtered)                           | 24  | 0.001 | mg/L      | mg/L           | 0.00225                                       | 0.013   | 10.4   | Exceedance                    |
| Barium                                       | 24  | 0.001 | mg/L      | mg/L           | 0.064   | 0.086   | 1.457627119  | Exceedance                    |
| Benz(a)anthracene                            | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Benzene                                      | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Benzo(a)pyrene                               | 24  | 0.5   | µg/L      | µg/L           | 0.5   | 0.5   | 1  | Complies                      |
| Benzo(b&j)fluoranthene                       | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Benzo(g,h,i)perylene                         | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Benzo(k)fluoranthene                         | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Bicarbonate                                  | 24  |       | mg/L      | mg/L           | 357.765                                       | 322.08  | 0.878535774  | Complies                      |
| Boron (filtered)                             | 24  | 0.05  | mg/L      | mg/L           | 0.22  | 0.16  | 0.727272727  | Complies                      |
| Butane (dissolved)                           | 24  | 10    | µg/L      | mg/L           | 0.01  | 0.01  | 1  | Complies                      |
| Butene (dissolved)                           | 24  | 10    | µg/L      | µg/L           | 10  | 10  | 1  | Complies                      |
| C10 - C14 Fraction                           | 24  | 50    | µg/L      | µg/L           | 50  | 50  | 1  | Complies                      |
| C10 - C16 Fraction                           | 24  | 100   | µg/L      | µg/L           | 100   | 100   | 1  | Complies                      |
| C10 - C16 Fraction minus Naphthalene<br>(F2) | 24  | 100   | µg/L      | µg/L           | 100   | 100   | 1  | Complies                      |

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|-----------------------------------|---|--------|-----------|----------------|---|---|--|-------------------------------|
| C10 - C36 Fraction (Sum)          | 24  | 50     | µg/L      | µg/L           | 50  | 50  | 1  | Complies                      |
| C10 - C40 Fraction (Sum)          | 24  | 100    | µg/L      | µg/L           | 100   | 100   | 1  | Complies                      |
| C15 - C28 Fraction                | 24  | 100    | µg/L      | µg/L           | 100   | 100   | 1  | Complies                      |
| C16 - C34 Fraction                | 24  | 100    | µg/L      | µg/L           | 100   | 100   | 1  | Complies                      |
| C29 - C36 Fraction                | 24  | 50     | µg/L      | µg/L           | 50  | 50  | 1  | Complies                      |
| C34 - C40 Fraction                | 24  | 100    | µg/L      | µg/L           | 100   | 100   | 1  | Complies                      |
| C6 - C10 Fraction                 | 24  | 20     | µg/L      | µg/L           | 20  | 20  | 1  | Complies                      |
| C6 - C10 Fraction minus BTEX (F1) | 24  | 20     | µg/L      | µg/L           | 20  | 20  | 1  | Complies                      |
| C6 - C9 Fraction                  | 24  | 20     | µg/L      | µg/L           | 20  | 20  | 1  | Complies                      |
| Cadmium (filtered)                | 24  | 0.0001 | mg/L      | mg/L           | 0.0001  | 0.0001  | 0.8  | Complies                      |
| Calcium (filtered)                | 24  | 1      | mg/L      | mg/L           | 82.25   | 66  | 0.851612903  | Complies                      |
| Carcinogenic PAH, BaP TEQ, <LOR=0 | 11  | 0.5    | µg/L      | µg/L           | 0.5   | 0.5   | 1  | Complies                      |
| Cations Total                     | 24  | 0.01   | meq/L     | meq/L          | 12.6  | 10.9  | 0.902691511  | Complies                      |
| Chloride                          | 24  | 1      | mg/L      | mg/L           | 174.25  | 134   | 0.820826953  | Complies                      |
| Chromium (III+VI) (filtered)      | 24  | 0.001  | mg/L      | mg/L           | 0.001   | 0.001   | 1  | Complies                      |
| Chrysene                          | 24  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Copper (filtered)                 | 24  | .      | mg/L      | mg/L           | 0.001   | 0.001   | 1  | Complies                      |
| Dibenz(a,h)anthracene             | 24  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Dissolved Oxygen (Field)          | 26  |        |           | mg/L           | 2.3325  | 0.53  | 0.946428571  | Complies                      |
| Electrical Conductivity (Field)   | 17  | 1      | µS/cm     | µS/cm          | 1474  | 1350  | 0.920559154  | Complies                      |
| Electrical Conductivity (Lab)     | 24  | 1      | µS/cm     | µS/cm          | 1242.5  | 1070  | 0.908704883  | Complies                      |
| Ethane (dissolved)                | 24  | 10     | µg/L      | µg/L           | 10  | 10  | 1  | Complies                      |
| Ethene (dissolved)                | 24  | 10     | µg/L      | µg/L           | 10  | 10  | 1  | Complies                      |
| Ethylbenzene                      | 24  | 2      | µg/L      | µg/L           | 2   | 2   | 1  | Complies                      |

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|---|---|--------|-----------|----------------|---|---|--|-------------------------------|
| Fluoranthene  | 24  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Fluorene  | 24  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Fluoride  | 24  | 0.1    | mg/L      | mg/L           | 1.1   | 1   | 0.952380952  | Complies                      |
| Gross alpha activity_                               | 20  | 0.05   | Bq/L      | Bq/L           | 0.345   | 0.6   | 1.904761905  | Exceedance                    |
| Gross beta activity (excluding activity<br>of K-40) | 20  | 0.1    | Bq/L      | Bq/L           | 0.2225  | 0.21  | 0.988235294  | Complies                      |
| Hydrogen sulfide (Headspace Gas)                    | 3   |        |           | ppm            | 0   | 0   | NA   | Complies                      |
| Indeno(1,2,3-c,d)pyrene                             | 24  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Ionic Balance                                       | 24  | 0.01   | %         | %              | 4.9175  | 0.3   | 0.085714286  | Complies                      |
| Iron (filtered)                                     | 24  | 0.05   | mg/L      | mg/L           | 0.9175  | 2.03  | 2.21253406   | Exceedance                    |
| Lead (filtered)                                     | 24  | 0.001  | mg/L      | mg/L           | 0.001   | 0.001   | 1  | Complies                      |
| Lithium (filtered)                                  | 24  | 0.001  | mg/L      | mg/L           | 0.05225                                       | 0.039   | 0.8125   | Complies                      |
| Magnesium (filtered)                                | 24  | 1      | mg/L      | mg/L           | 41  | 41  | 1  | Complies                      |
| Manganese (filtered)                                | 24  | 0.001  | mg/L      | mg/L           | 0.04125                                       | 0.073   | 1.76969697   | Exceedance                    |
| Mercury (filtered)                                  | 24  | 0.0001 | mg/L      | mg/L           | 0.0001  | 0.0001  | 1  | Complies                      |
| Methane (dissolved)                                 | 24  | 10     | µg/L      | mg/L           | 0.03075                                       | 0.017   | 0.552845528  | Complies                      |
| Naphthalene   | 48  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Nickel (filtered)                                   | 24  | 0.001  | mg/L      | mg/L           | 0.001   | 0.001   | 1  | Complies                      |
| Nitrate (as N)                                      | 24  | 0.01   | mg/L      | mg/L           | 0.0325  | 0.02  | 0.615384615  | Complies                      |
| Nitrite (as N)                                      | 24  | 0.01   | mg/L      | mg/L           | 0.01  | 0.01  | 1  | Complies                      |
| Nitrite + Nitrate (as N)                            | 24  | 0.01   | mg/L      | mg/L           | 0.0325  | 0.02  | 0.615384615  | Complies                      |
| pH (Field)  | 31  | 0.01   | pH Unit   | pH_Units       | 7.165   | 6.99  | 0.984853822  | Complies                      |
| pH (Lab)  | 24  | 0.01   | pH Unit   | pH_Units       | 7.75  | 7.75  | 0.991365526  | Complies                      |
| Phenanthrene  | 24  | 1      | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Potassium   | 24  | 1      | mg/L      | mg/L           | 15  | 16  | 1.163636364  | Exceedance                    |

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|----------------------------------|---|-------|-----------|----------------|---|---|--|-------------------------------|
| Propane (dissolved)              | 24  | 10    | µg/L      | mg/L           | 0.01  | 0.01  | 1  | Complies                      |
| Propene (dissolved)              | 24  | 10    | µg/L      | µg/L           | 10  | 10  | 1  | Complies                      |
| Pyrene                           | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Redox Potential (Field)          | 27  | 0.1   | mV        | mV             | -51.5   | -128.1  | 0.828054299  | Complies                      |
| Selenium (filtered)              | 24  | 0.01  | mg/L      | mg/L           | 0.01  | 0.01  | 1  | Complies                      |
| Silicon as Si (filtered)         | 23  | 0.05  | mg/L      | mg/L           | 10.45   | 11.4  | 1.123983239  | Exceedance                    |
| Silver (filtered)                | 24  | 0.001 | mg/L      | mg/L           | 0.001   | 0.001   | 1  | Complies                      |
| Sodium (filtered)                | 24  | 1     | mg/L      | mg/L           | 110   | 88  | 0.80733945   | Complies                      |
| SP-EC(Field) normalised to 25 oC | 30  | 1     | µS/cm     | µS/cm          | 1275  | 1141  | 0.92991035   | Complies                      |
| Strontium (filtered)             | 24  | 0.001 | mg/L      | mg/L           | 0.657   | 0.612   | 0.895063985  | Complies                      |
| Sulphate as SO4                  | 24  | 1     | mg/L      | mg/L           | 140   | 92  | 0.788008565  | Complies                      |
| Sum of BTEX                      | 24  | 1     | µg/L      | µg/L           | 1   | 1   | 1  | Complies                      |
| Suspended Solids                 | 24  | 5     | mg/L      | mg/L           | 7   | 5   | 0.625  | Complies                      |
| Temperature (Field)              | 31  | 0.1   | °C        | °C             | 35.8  | 34.6  | 0.982954545  | Complies                      |
| Toluene                          | 24  | 2     | µg/L      | µg/L           | 2   | 2   | 1  | Complies                      |
| Total Dissolved Solids           | 24  | 10    | mg/L      | mg/L           | 711.5   | 648   | 0.913319239  | Complies                      |
| Total Reportable PAH             | 17  | 0.5   | µg/L      | µg/L           | 0.5   | 0.5   | 1  | Complies                      |
| Xylene (m & p)                   | 24  | 2     | µg/L      | µg/L           | 2   | 2   | 1  | Complies                      |
| Xylene (o)                       | 24  | 2     | µg/L      | µg/L           | 2   | 2   | 1  | Complies                      |
| Xylene Total                     | 24  | 2     | µg/L      | µg/L           | 2   | 2   | 1  | Complies                      |
| Zinc (filtered)                  | 24  | 0.005 | mg/L      | mg/L           | 0.04325                                       | 0.006   | 0.143712575  | Complies                      |