

## BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 20 FEBRUARY 2019

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpoeopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

| SAMPLING LOCATIONS  |                                   |                      |                                      | EPA Point 1                     | EPA Point 2                      | EPA Point 3                 | EPA Point 4                   | EPA Point 5                      | EPA Point 6       | EPA Point 7                                 | EPA Point 8                                   | DTC  |
|---|-----------------------------------|----------------------|--------------------------------------|---------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------------------|-------------------|---|---|--|
| Pollutant   | Unit of Measure                   | Monitoring Frequency | Trigger value                        | Ground Water Bore BA1 NE Corner | Surface Water Pond NE Corner BA3 | Dog Trap Creek Upstream BA4 | Dog Trap Creek Downstream BA5 | Surface Water Pond SE Corner BA8 | Drainage Line BA9 | Ground Water Up Gradient Bore BA6 SW Corner | Ground Water Down Gradient Bore BA7 SE Corner | Dog Trap Creek below landfill drainage line BA10 |
| Alkalinity (as calcium carbonate)   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Aluminium   | milligrams per litre              | Yearly / Quarterly   | 0.055                                | not required                    | not required                     | 0.09                        | less than 0.05                | not required                     | 0.83              | not required                                | not required                                  | less than 0.05                                   |
| Ammonia (as nitrogen)   | milligrams per litre              | Quarterly            | 0.9                                  | 54                              | 0.15                             | 0.07                        | 0.07                          | 0.96                             | 0.02              | 0.06  | 0.13  | 0.06   |
| Arsenic   | milligrams per litre              | Yearly / Quarterly   | 0.010 / 0.024                        | not required                    | not required                     | less than 0.001             | less than 0.001               | not required                     | 0.007             | not required                                | not required                                  | less than 0.001                                  |
| Barium  | milligrams per litre              | Yearly / Quarterly   | 2                                    | not required                    | not required                     | less than 0.02              | 0.08                          | not required                     | 0.12              | not required                                | not required                                  | 0.13   |
| Benzene   | milligrams per litre              | Yearly               | 0.001 / 0.950                        | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Biological Oxygen Demand (BOD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | less than 5                      | less than 5                 | less than 5                   | less than 5                      | less than 5       | not required                                | not required                                  | less than 5                                      |
| Cadmium   | milligrams per litre              | Yearly / Quarterly   | 0.0002                               | not required                    | not required                     | less than 0.0002            | less than 0.0002              | not required                     | 0.0008            | not required                                | not required                                  | less than 0.0002                                 |
| Calcium   | milligrams per litre              | Yearly               | 1000                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chemical Oxygen Demand (COD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | not required                     | less than 25                | less than 25                  | 110                              | not required      | not required                                | not required                                  | 34   |
| Chloride (Cl)   | milligrams per litre              | Yearly               | 350                                  | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chlorinated Volatile Compounds (CVCs)                                       | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chromium (hexavalent)   | milligrams per litre              | Yearly / Quarterly   | 0.001                                | not required                    | not required                     | less than 0.01              | less than 0.005               | not required                     | less than 0.005   | not required                                | not required                                  | less than 0.005                                  |
| Chromium (total)  | milligrams per litre              | Yearly / Quarterly   | 0.0033                               | not required                    | not required                     | less than 0.001             | less than 0.001               | not required                     | 0.007             | not required                                | not required                                  | less than 0.001                                  |
| Cobalt  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | not required                    | not required                     | less than 0.001             | less than 0.001               | not required                     | 0.001             | not required                                | not required                                  | less than 0.001                                  |
| Copper  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | not required                    | not required                     | 0.002                       | 0.002                         | not required                     | 0.016             | not required                                | not required                                  | 0.002  |
| Ethylbenzene  | milligrams per litre              | Yearly               | 0.08                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Fluoride  | milligrams per litre              | Yearly               | 1                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Lead  | milligrams per litre              | Yearly / Quarterly   | 0.0034                               | not required                    | not required                     | less than 0.001             | less than 0.001               | not required                     | 0.009             | not required                                | not required                                  | less than 0.001                                  |
| Magnesium   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Manganese   | milligrams per litre              | Yearly / Quarterly   | 0.2 / 1.9                            | not required                    | not required                     | 0.032                       | 0.018                         | not required                     | 0.160             | not required                                | not required                                  | 0.077  |
| Mercury   | milligrams per litre              | Yearly / Quarterly   | 0.00006                              | not required                    | not required                     | less than 0.0001            | less than 0.0001              | not required                     | less than 0.0001  | not required                                | not required                                  | less than 0.0001                                 |
| Nitrate (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 2.40                                 | not required                    | not required                     | less than 0.02              | 0.07                          | not required                     | 1.60              | not required                                | not required                                  | 0.21   |
| Nitrite (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 0.9                                  | not required                    | not required                     | less than 0.02              | less than 0.02                | not required                     | less than 0.02    | not required                                | not required                                  | less than 0.02                                   |
| Organochlorine Pesticides (OCP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Organophosphorus Pesticides (OPP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Polycyclic Aromatic Hydrocarbons (PAH)                                      | milligrams per litre              | Yearly               | 0.00001                              | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Perfluorooctane sulfonate (PFOS)  | micrograms per litre <sup>1</sup> | Quarterly            | 0.13 <sup>3</sup>                    | 0.52                            | 0.07                             | less than 0.01              | 0.05                          | 0.21                             | 0.28              | less than 0.01                              | less than 0.01                                | 0.01   |
| Perfluorooctanoic acid (PFOA)   | micrograms per litre <sup>1</sup> | Quarterly            | 0.56 <sup>3</sup> / 220 <sup>3</sup> | 0.92                            | 0.37                             | less than 0.01              | 0.16                          | 0.51                             | 0.64              | less than 0.01                              | less than 0.01                                | less than 0.01                                   |
| Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS) | micrograms per litre <sup>1</sup> | Quarterly            | 0.07 <sup>2</sup>                    | 2.72                            | 0.56                             | less than 0.01              | 0.28                          | 0.39                             | 0.57              | less than 0.01                              | less than 0.01                                | 0.02   |
| Potassium   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Semi-volatile Organic Compounds (SVOCs)                                     | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Sodium  | milligrams per litre              | Yearly               | 230                                  | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Sulphate (as SO4)   | milligrams per litre              | Yearly               | 1000                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Toluene   | milligrams per litre              | Yearly               | 0.18                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Total Dissolved Solids (TDS)  | milligrams per litre              | Quarterly            | 2000                                 | 1200                            | 380                              | 93                          | 840                           | 620                              | 1200              | 250   | 64  | 1200   |
| Total Iron  | milligrams per litre              | Yearly               | 0.2                                  | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |

|                                    |                            |                    |                    |              |              |                |                 |              |                |              |              |                |
|------------------------------------|----------------------------|--------------------|--------------------|--------------|--------------|----------------|-----------------|--------------|----------------|--------------|--------------|----------------|
| Total Kjeldahl Nitrogen            | milligrams per litre       | Quarterly          | -                  | Not tested   | Not tested   | 1.8            | 1.5             | Not tested   | 1.6            | Not tested   | Not tested   | 1.6            |
| Total Nitrogen                     | milligrams per litre       | Quarterly          | 0.25               | Not tested   | Not tested   | 1.8            | 1.6             | Not tested   | 3.2            | Not tested   | Not tested   | 1.8            |
| Total Organic Carbon (TOC)         | milligrams per litre       | Quarterly          | -                  | 66           | 25           | 10             | 17              | 45           | 26             | 21           | 11           | 23             |
| Total Petroleum Hydrocarbons (TPH) | milligrams per litre       | Yearly             | Limit of reporting | not required | not required | not required   | not required    | not required | not required   | not required | not required | not required   |
| Total Phenolics                    | milligrams per litre       | Yearly             | 0.32               | not required | not required | not required   | not required    | not required | not required   | not required | not required | not required   |
| Total Phosphorus                   | milligrams per litre       | Yearly / Quarterly | 0.02               | not required | not required | less than 0.05 | less than 0.05  | not required | less than 0.05 | not required | not required | less than 0.05 |
| Total Suspended Solids (TSS)       | milligrams per litre       | Quarterly          | 50                 | not required | 3.8          | 1.7            | less than 1     | 75           | 7.3            | not required | not required | 1.6            |
| Volatile Organic Compounds (VOCs)  | milligrams per litre       | Yearly             | Limit of reporting | not required | not required | not required   | not required    | not required | not required   | not required | not required | not required   |
| Xylenes                            | milligrams per litre       | Yearly             | 0.075              | not required | not required | not required   | not required    | not required | not required   | not required | not required | not required   |
| Zinc                               | milligrams per litre       | Yearly / Quarterly | 0.008              | not required | not required | 0.009          | less than 0.005 | not required | 0.120          | not required | not required | 0.007          |
| FIELD MEASUREMENTS                 |                            |                    |                    |              |              |                |                 |              |                |              |              |                |
| Standing Water Level               | metres below top of casing | Quarterly          | -                  | 0.985        | -            | -              | -               | -            | -              | 37.64        | 12.895       | -              |
| Electrical Conductivity            | milligrams per litre       | Quarterly          | 30-350             | 2817         | 1119         | 154            | 912             | 901          | 1894           | 574          | 166          | 1563           |
| pH                                 | PH Units                   | Quarterly          | 6.5-8              | 7.05         | 7.93         | 6.41           | 8.04            | 6.72         | 7.58           | 6.02         | 6.61         | 7.62           |
| Temp                               | Degree C                   | Quarterly          | -                  | 21.2         | 25.3         | 21.2           | 19.6            | 20.8         | 21.2           | 18.2         | 17.5         | 19.9           |

## Table notes:

|            |   |
|------------|---|
| Black text | EPL requires quarterly or yearly monitoring of this mandatory parameter           |
| Red text   | EPL requirements not met  |
| Blue text  | Additional parameter/location analysed beyond EPL requirements (non-mandatory)    |
|            | Reported concentration exceeds adopted trigger value - trigger 1 where applicable |
|            | Reported concentration exceeds adopted trigger value - trigger 2 where applicable |
|            | Limit of reporting exceed adopted trigger value                                   |

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

## BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 13 MAY 2019

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpoeopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

| SAMPLING LOCATIONS  |                                   |                      |                                      | EPA Point 1                     | EPA Point 2                      | EPA Point 3                 | EPA Point 4                   | EPA Point 5                      | EPA Point 6       | EPA Point 7                                 | EPA Point 8                                   | DTC  |
|---|-----------------------------------|----------------------|--------------------------------------|---------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------------------|-------------------|---|---|--|
| Pollutant   | Unit of Measure                   | Monitoring Frequency | Trigger value                        | Ground Water Bore BA1 NE Corner | Surface Water Pond NE Corner BA3 | Dog Trap Creek Upstream BA4 | Dog Trap Creek Downstream BA5 | Surface Water Pond SE Corner BA8 | Drainage Line BA9 | Ground Water Up Gradient Bore BA6 SW Corner | Ground Water Down Gradient Bore BA7 SE Corner | Dog Trap Creek below landfill drainage line BA10 |
| Alkalinity (as calcium carbonate)   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Aluminium   | milligrams per litre              | Yearly / Quarterly   | 0.055                                | not required                    | not required                     | Dry creek                   | less than 0.05                | not required                     | less than 0.05    | not required                                | not required                                  | less than 0.05                                   |
| Ammonia (as nitrogen)   | milligrams per litre              | Quarterly            | 0.9                                  | 42                              | 0.40                             | Dry creek                   | 0.07                          | Dry pond                         | less than 0.01    | 0.16  | 0.12  | 0.05   |
| Arsenic   | milligrams per litre              | Yearly / Quarterly   | 0.010 / 0.024                        | not required                    | not required                     | Dry creek                   | less than 0.001               | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Barium  | milligrams per litre              | Yearly / Quarterly   | 2                                    | not required                    | not required                     | Dry creek                   | 0.08                          | not required                     | 0.10              | not required                                | not required                                  | 0.11   |
| Benzene   | milligrams per litre              | Yearly               | 0.001 / 0.950                        | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Biological Oxygen Demand (BOD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | less than 5                      | Dry creek                   | less than 5                   | Dry pond                         | not required      | not required                                | not required                                  | less than 5                                      |
| Cadmium   | milligrams per litre              | Yearly / Quarterly   | 0.0002                               | not required                    | not required                     | Dry creek                   | less than 0.0002              | not required                     | less than 0.0002  | not required                                | not required                                  | less than 0.0002                                 |
| Calcium   | milligrams per litre              | Yearly               | 1000                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chemical Oxygen Demand (COD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | not required                     | Dry creek                   | 50                            | Dry pond                         | not required      | not required                                | not required                                  | 38   |
| Chloride (Cl)   | milligrams per litre              | Yearly               | 350                                  | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chlorinated Volatile Compounds (CVCs)                                       | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chromium (hexavalent)   | milligrams per litre              | Yearly / Quarterly   | 0.001                                | not required                    | not required                     | Dry creek                   | less than 0.005               | not required                     | less than 0.005   | not required                                | not required                                  | less than 0.005                                  |
| Chromium (total)  | milligrams per litre              | Yearly / Quarterly   | 0.0033                               | not required                    | not required                     | Dry creek                   | less than 0.001               | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Cobalt  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | not required                    | not required                     | Dry creek                   | less than 0.001               | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Copper  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | not required                    | not required                     | Dry creek                   | less than 0.001               | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Ethylbenzene  | milligrams per litre              | Yearly               | 0.08                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Fluoride  | milligrams per litre              | Yearly               | 1                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Lead  | milligrams per litre              | Yearly / Quarterly   | 0.0034                               | not required                    | not required                     | Dry creek                   | less than 0.001               | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Magnesium   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Manganese   | milligrams per litre              | Yearly / Quarterly   | 0.2 / 1.9                            | not required                    | not required                     | Dry creek                   | 0.009                         | not required                     | 0.800             | not required                                | not required                                  | 0.029  |
| Mercury   | milligrams per litre              | Yearly / Quarterly   | 0.00006                              | not required                    | not required                     | Dry creek                   | less than 0.00001             | not required                     | less than 0.00001 | not required                                | not required                                  | less than 0.00001                                |
| Nitrate (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 2.40                                 | not required                    | not required                     | Dry creek                   | 0.03                          | not required                     | 4.00              | not required                                | not required                                  | 0.29   |
| Nitrite (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 0.9                                  | not required                    | not required                     | Dry creek                   | less than 0.02                | not required                     | less than 0.02    | not required                                | not required                                  | less than 0.02                                   |
| Organochlorine Pesticides (OCP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Organophosphorus Pesticides (OPP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Polycyclic Aromatic Hydrocarbons (PAH)                                      | milligrams per litre              | Yearly               | 0.00001                              | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Perfluorooctane sulfonate (PFOS)  | micrograms per litre <sup>1</sup> | Quarterly            | 0.13 <sup>3</sup>                    | 0.28                            | 0.05                             | Dry creek                   | 0.05                          | Dry pond                         | 0.22              | not tested                                  | less than 0.01                                | 0.12   |
| Perfluorooctanoic acid (PFOA)   | micrograms per litre <sup>1</sup> | Quarterly            | 0.56 <sup>3</sup> / 220 <sup>3</sup> | 0.71                            | 0.29                             | Dry creek                   | 0.17                          | Dry pond                         | 0.35              | not tested                                  | less than 0.01                                | 0.31   |
| Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS) | micrograms per litre <sup>1</sup> | Quarterly            | 0.07 <sup>2</sup>                    | 1.78                            | 0.38                             | Dry creek                   | 0.27                          | Dry pond                         | 0.48              | not tested                                  | less than 0.01                                | 0.35   |
| Potassium   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Semi-volatile Organic Compounds (SVOCs)                                     | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Sodium  | milligrams per litre              | Yearly               | 230                                  | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Sulphate (as SO4)   | milligrams per litre              | Yearly               | 1000                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Toluene   | milligrams per litre              | Yearly               | 0.18                                 | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Total Dissolved Solids (TDS)  | milligrams per litre              | Quarterly            | 2000                                 | 1500                            | 690                              | Dry creek                   | 660                           | Dry pond                         | 1100              | 330   | 120   | 1000   |
| Total Iron  | milligrams per litre              | Yearly               | 0.2                                  | not required                    | not required                     | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |

|                                    |                            |                    |                    |              |              |              |                 |              |              |              |              |                 |
|------------------------------------|----------------------------|--------------------|--------------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|--------------|-----------------|
| Total Kjeldahl Nitrogen            | milligrams per litre       | Quarterly          | -                  | Not tested   | Not tested   | Dry creek    | 1.6             | Not tested   | 2.0          | Not tested   | Not tested   | 1.7             |
| Total Nitrogen                     | milligrams per litre       | Quarterly          | 0.25               | Not tested   | Not tested   | Dry creek    | 1.6             | Not tested   | 6.0          | Not tested   | Not tested   | 2.0             |
| Total Organic Carbon (TOC)         | milligrams per litre       | Quarterly          | -                  | 94           | 28           | Dry creek    | 18              | Dry pond     | 42           | 30           | 11           | 32              |
| Total Petroleum Hydrocarbons (TPH) | milligrams per litre       | Yearly             | Limit of reporting | not required | not required | not required | not required    | not required | not required | not required | not required | not required    |
| Total Phenolics                    | milligrams per litre       | Yearly             | 0.32               | not required | not required | not required | not required    | not required | not required | not required | not required | not required    |
| Total Phosphorus                   | milligrams per litre       | Yearly / Quarterly | 0.02               | not required | not required | Dry creek    | 0.02            | not required | 0.02         | not required | not required | not required    |
| Total Suspended Solids (TSS)       | milligrams per litre       | Quarterly          | 50                 | not required | 6.6          | Dry creek    | less than 1     | Dry pond     | not required | not required | not required | 2.3             |
| Volatile Organic Compounds (VOCs)  | milligrams per litre       | Yearly             | Limit of reporting | not required | not required | not required | not required    | not required | not required | not required | not required | not required    |
| Xylenes                            | milligrams per litre       | Yearly             | 0.075              | not required | not required | not required | not required    | not required | not required | not required | not required | not required    |
| Zinc                               | milligrams per litre       | Yearly / Quarterly | 0.008              | not required | not required | Dry creek    | less than 0.005 | not required | 0.12         | not required | not required | less than 0.005 |
| FIELD MEASUREMENTS                 |                            |                    |                    |              |              |              |                 |              |              |              |              |                 |
| Standing Water Level               | metres below top of casing | Quarterly          | -                  | 1.05         | not required | Dry creek    | not required    | Dry pond     | not required | 37.99        | 14.085       | not required    |
| Electrical Conductivity            | milligrams per litre       | Quarterly          | 30-350             | 2616         | 868          | Dry creek    | 809             | Dry pond     | 1490         | 581          | 207          | 1200            |
| pH                                 | PH Units                   | Quarterly          | 6.5-8              | 6.88         | 8.59         | Dry creek    | 8.27            | Dry pond     | 7.87         | 5.71         | 5.52         | 7.90            |
| Temp                               | Degree C                   | Quarterly          | -                  | 18.3         | 12.8         | Dry creek    | 10.7            | Dry pond     | 16.7         | 17.3         | 17.6         | 10.8            |

## Table notes:

|            |   |
|------------|---|
| Black text | EPL requires quarterly or yearly monitoring of this mandatory parameter           |
| Red text   | EPL requirements not met  |
| Blue text  | Additional parameter/location analysed beyond EPL requirements (non-mandatory)    |
|            | Reported concentration exceeds adopted trigger value - trigger 1 where applicable |
|            | Reported concentration exceeds adopted trigger value - trigger 2 where applicable |
|            | Limit of reporting exceed adopted trigger value                                   |

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

**BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS**

SAMPLING ON 30th AUGUST 2019

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpoeopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

| SAMPLING LOCATIONS  |                                   |                      |                                      | EPA Point 1                     | EPA Point 2                      | EPA Point 3                 | EPA Point 4                   | EPA Point 5                      | EPA Point 6                  | EPA Point 7                                 | EPA Point 8                                   | DTC  |
|---|-----------------------------------|----------------------|--------------------------------------|---------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------------------|------------------------------|---|---|--|
| Pollutant   | Unit of Measure                   | Monitoring Frequency | Trigger value                        | Ground Water Bore BA1 NE Corner | Surface Water Pond NE Corner BA3 | Dog Trap Creek Upstream BA4 | Dog Trap Creek Downstream BA5 | Surface Water Pond SE Corner BA8 | Drainage Line BA9            | Ground Water Up Gradient Bore BA6 SW Corner | Ground Water Down Gradient Bore BA7 SE Corner | Dog Trap Creek below landfill drainage line BA10 |
| Alkalinity (as calcium carbonate)   | milligrams per litre              | Yearly               | -                                    | 1500                            | 130                              | not required                | not required                  | not required                     | 380                          | less than 20                                | less than 20                                  | Dry creek  |
| Aluminium   | milligrams per litre              | Yearly / Quarterly   | 0.055                                | 1.2                             | 0.23                             | 0.33                        | 0.23                          | not required                     | 0.50                         | less than 0.05                              | 20  | Dry creek  |
| Ammonia (as nitrogen)   | milligrams per litre              | Quarterly            | 0.9                                  | 88                              | 0.03                             | less than 0.01              | 0.06                          | 0.04                             | 0.10                         | 0.14  | 0.09  | Dry creek  |
| Arsenic   | milligrams per litre              | Yearly / Quarterly   | 0.010 / 0.024                        | 0.005                           | 0.002                            | less than 0.001             | less than 0.001               | not required                     | 0.001                        | 0.007                                       | less than 0.005                               | Dry creek  |
| Barium  | milligrams per litre              | Yearly / Quarterly   | 2                                    | 0.55                            | less than 0.02                   | less than 0.02              | 0.02                          | not required                     | 0.09                         | 0.52  | 0.54  | Dry creek  |
| Benzene   | milligrams per litre              | Yearly               | 0.001 / 0.950                        | less than 0.001                 | less than 0.001                  | not required                | not required                  | not required                     | less than 0.001              | less than 0.001                             | less than 0.001                               | Dry creek  |
| Biological Oxygen Demand (BOD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | less than 5                      | less than 5                 | 8.1                           | less than 5                      | not required                 | not required                                | not required                                  | Dry creek  |
| Cadmium   | milligrams per litre              | Yearly / Quarterly   | 0.0002                               | 0.0003                          | less than 0.0002                 | less than 0.0002            | less than 0.0002              | not required                     | less than 0.0002             | less than 0.0002                            | less than 0.0001                              | Dry creek  |
| Calcium   | milligrams per litre              | Yearly               | 1000                                 | 210                             | 22                               | not required                | not required                  | not required                     | 160                          | 5.1   | 12  | Dry creek  |
| Chemical Oxygen Demand (COD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | not required                     | 69                          | 74                            | 120                              | not required                 | not required                                | not required                                  | Dry creek  |
| Chloride (Cl)   | milligrams per litre              | Yearly               | 350                                  | 280                             | 130                              | not required                | not required                  | not required                     | 190                          | 370   | 540   | Dry creek  |
| Chlorinated Volatile Compounds (CVCs)                                       | milligrams per litre              | Yearly               | -                                    | not tested (note 4)             | not tested (note 4)              | not tested (note 4)         | not tested (note 4)           | not tested (note 4)              | not tested (note 4)          | not tested (note 4)                         | not tested (note 4)                           | Dry creek  |
| Chromium (hexavalent)   | milligrams per litre              | Yearly / Quarterly   | 0.001                                | less than 0.005                 | less than 0.005                  | less than 0.005             | less than 0.005               | not required                     | less than 0.005              | less than 0.005                             | less than 0.005                               | Dry creek  |
| Chromium (total)  | milligrams per litre              | Yearly / Quarterly   | 0.0033                               | 0.009                           | 0.001                            | less than 0.001             | 0.001                         | not required                     | 0.002                        | less than 0.001                             | less than 0.005                               | Dry creek  |
| Cobalt  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | 0.003                           | less than 0.001                  | less than 0.001             | less than 0.001               | not required                     | less than 0.001              | 0.098                                       | 0.066   | Dry creek  |
| Copper  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | 0.013                           | less than 0.001                  | 0.001                       | 0.002                         | not required                     | 0.003                        | 0.012                                       | 0.017   | Dry creek  |
| Ethylbenzene  | milligrams per litre              | Yearly               | 0.08                                 | less than 0.001                 | less than 0.001                  | not required                | not required                  | not required                     | less than 0.001              | less than 0.001                             | less than 0.001                               | Dry creek  |
| Fluoride  | milligrams per litre              | Yearly               | 1                                    | less than 0.5                   | less than 0.5                    | not required                | not required                  | not required                     | less than 0.5                | less than 0.5                               | less than 0.5                                 | Dry creek  |
| Lead  | milligrams per litre              | Yearly / Quarterly   | 0.0034                               | 0.013                           | 0.001                            | less than 0.001             | less than 0.001               | not required                     | 0.002                        | less than 0.001                             | 0.140   | Dry creek  |
| Magnesium   | milligrams per litre              | Yearly               | -                                    | 69                              | 47                               | not required                | not required                  | not required                     | 40                           | 34  | 28  | Dry creek  |
| Manganese   | milligrams per litre              | Yearly / Quarterly   | 0.2 / 1.9                            | 0.410                           | 0.031                            | 0.029                       | 0.030                         | not required                     | 0.120                        | 3.10  | 5.60  | Dry creek  |
| Mercury   | milligrams per litre              | Yearly / Quarterly   | 0.00006                              | less than 0.0001                | less than 0.0001                 | less than 0.0001            | less than 0.0001              | not required                     | less than 0.0001             | less than 0.0001                            | less than 0.0005                              | Dry creek  |
| Nitrate (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 2.40                                 | 0.07                            | not required                     | 0.03                        | 0.44                          | not required                     | 1.80                         | less than 0.02                              | 14  | Dry creek  |
| Nitrite (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 0.9                                  | 0.03                            | not required                     | less than 0.02              | less than 0.02                | not required                     | less than 0.02               | less than 0.02                              | less than 0.02                                | Dry creek  |
| Organochlorine Pesticides (OCP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not tested (note 4)             | less than limit of reporting     | not tested (note 4)         | not tested (note 4)           | not tested (note 4)              | not tested (note 4)          | not tested (note 4)                         | not tested (note 4)                           | Dry creek  |
| Organophosphorus Pesticides (OPP)   | milligrams per litre              | Yearly               | Limit of reporting                   | less than limit of reporting    | less than limit of reporting     | not required                | not required                  | not required                     | less than limit of reporting | less than limit of reporting                | less than limit of reporting                  | Dry creek  |
| Polycyclic Aromatic Hydrocarbons (PAH)                                      | milligrams per litre              | Yearly               | 0.00001                              | less than limit of reporting    | not tested (note 4)              | not tested (note 4)         | not tested (note 4)           | not tested (note 4)              | less than limit of reporting | less than limit of reporting                | less than limit of reporting                  | Dry creek  |
| Perfluorooctane sulfonate (PFOS)  | micrograms per litre <sup>1</sup> | Quarterly            | 0.13 <sup>3</sup>                    | 0.50                            | 0.08                             | less than 0.01              | 0.06                          | 0.09                             | 0.55                         | less than 0.01                              | less than 0.01                                | Dry creek  |
| Perfluorooctanoic acid (PFOA)   | micrograms per litre <sup>1</sup> | Quarterly            | 0.56 <sup>3</sup> / 220 <sup>3</sup> | 0.81                            | 0.28                             | less than 0.01              | 0.08                          | 0.03                             | 0.45                         | less than 0.01                              | less than 0.01                                | Dry creek  |
| Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS) | micrograms per litre <sup>1</sup> | Quarterly            | 0.07 <sup>2</sup>                    | 2.30                            | 0.53                             | less than 0.01              | 0.15                          | 0.11                             | 0.97                         | less than 0.01                              | less than 0.01                                | Dry creek  |
| Potassium   | milligrams per litre              | Yearly               | -                                    | 98                              | 33                               | not required                | not required                  | not required                     | 49                           | 2.9   | 4.0   | Dry creek  |
| Semi-volatile Organic Compounds (SVOCs)                                     | milligrams per litre              | Yearly               | Limit of reporting                   | less than limit of reporting    | not required                     | not required                | not required                  | not required                     | less than limit of reporting | less than limit of reporting                | less than limit of reporting                  | Dry creek  |
| Sodium  | milligrams per litre              | Yearly               | 230                                  | 210                             | 110                              | not required                | not required                  | not required                     | 120                          | 140   | 200   | Dry creek  |
| Sulphate (as SO4)   | milligrams per litre              | Yearly               | 1000                                 | less than 5                     | 210                              | not required                | not required                  | not required                     | 210                          | less than 5                                 | 17  | Dry creek  |
| Toluene   | milligrams per litre              | Yearly               | 0.18                                 | less than 0.001                 | less than 0.001                  | not required                | not required                  | not required                     | less than 0.001              | less than 0.001                             | less than 0.001                               | Dry creek  |
| Total Dissolved Solids (TDS)  | milligrams per litre              | Quarterly            | 2000                                 | 1700                            | 690                              | 48                          | 260                           | 300                              | 1100                         | 760   | 1000  | Dry creek  |
| Total Iron  | milligrams per litre              | Yearly               | 0.2                                  | not required                    | 0.23                             | not required                | not required                  | not required                     | not required                 | not required                                | not required                                  | Dry creek  |

|                                    |                            |                    |                    |                 |                              |              |              |              |                 |                 |                 |           |
|------------------------------------|----------------------------|--------------------|--------------------|-----------------|------------------------------|--------------|--------------|--------------|-----------------|-----------------|-----------------|-----------|
| Total Kjeldahl Nitrogen            | milligrams per litre       | Quarterly          | -                  | Not tested      | Not tested                   | 0.7          | 0.7          | Not tested   | 0.9             | Not tested      | Not tested      | Dry creek |
| Total Nitrogen                     | milligrams per litre       | Quarterly          | 0.25               | Not tested      | Not tested                   | 0.7          | 1.2          | Not tested   | 2.7             | Not tested      | Not tested      | Dry creek |
| Total Organic Carbon (TOC)         | milligrams per litre       | Quarterly          | -                  | 200             | 33                           | 24           | 26           | 14           | 26              | 160             | 15              | Dry creek |
| Total Petroleum Hydrocarbons (TPH) | milligrams per litre       | Yearly             | Limit of reporting | 0.2             | less than limit of reporting | not required | not required | not required | 0.1             | 0.2             | 0.4             | Dry creek |
| Total Phenolics                    | milligrams per litre       | Yearly             | 0.32               | less than 0.05  | less than 0.05               | not required | not required | not required | less than 0.05  | less than 0.05  | less than 0.05  | Dry creek |
| Total Phosphorus                   | milligrams per litre       | Yearly / Quarterly | 0.02               | not required    | not tested (note 5)          | 0.03         | 0.04         | not required | 0.02            | not required    | not required    | Dry creek |
| Total Suspended Solids (TSS)       | milligrams per litre       | Quarterly          | 50                 | not required    | 27                           | 5.9          | 11           | 200          | not required    | not required    | not required    | Dry creek |
| Volatile Organic Compounds (VOCs)  | milligrams per litre       | Yearly             | Limit of reporting | 0.026           | not required                 | not required | not required | not required | 0.019           | 0.020           | 0.020           | Dry creek |
| Xylenes                            | milligrams per litre       | Yearly             | 0.075              | less than 0.003 | less than 0.003              | not required | not required | not required | less than 0.003 | less than 0.003 | less than 0.003 | Dry creek |
| Zinc                               | milligrams per litre       | Yearly / Quarterly | 0.008              | 0.730           | 0.007                        | 0.009        | 0.024        | not required | 0.072           | 0.550           | 0.190           | Dry creek |
| FIELD MEASUREMENTS                 |                            |                    |                    |                 |                              |              |              |              |                 |                 |                 |           |
| Standing Water Level               | metres below top of casing | Quarterly          | -                  | 1.04            | -                            | -            | -            | -            | -               | 39.45           | 16.92           | Dry creek |
| Electrical Conductivity            | milligrams per litre       | Quarterly          | 30-350             | 2614            | 835                          | 53           | 244          | 248          | 1236            | 1191            | 1597            | Dry creek |
| pH                                 | PH Units                   | Quarterly          | 6.5-8              | 7.06            | 8.94                         | 6.43         | 8.16         | 7.61         | 6.29            | 4.77            | 4.02            | Dry creek |
| Temp                               | Degree C                   | Quarterly          | -                  | 15.5            | 11.8                         | 11.0         | 9.7          | 10.5         | 10.7            | 17.2            | 17.1            | Dry creek |

## Table notes:

|            |   |
|------------|---|
| Black text | EPL requires quarterly or yearly monitoring of this mandatory parameter           |
| Red text   | EPL requirements not met  |
| Blue text  | Additional parameter/location analysed beyond EPL requirements (non-mandatory)    |
|            | Reported concentration exceeds adopted trigger value - trigger 1 where applicable |
|            | Reported concentration exceeds adopted trigger value - trigger 2 where applicable |
|            | Limit of reporting exceed adopted trigger value                                   |

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

The EPL requirement to analyse Chlorinated Volatile Compounds, Polycyclic aromatic hydrocarbons (PAHs) and Organochlorine pesticides (OCP) was 4 mandatory by NSW EPA on 6 May 2019. This was not carried out at selected locations during the August 2019 and 2020 yearly monitoring rounds

5 Total phosphorus was not sampled and analysed at EPA2

## BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 25 NOVEMBER 2019

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpoeopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

| SAMPLING LOCATIONS  |                                   |                      |                                      | EPA Point 1                     | EPA Point 2                       | EPA Point 3                 | EPA Point 4                   | EPA Point 5                      | EPA Point 6       | EPA Point 7                                 | EPA Point 8                                   | DTC  |
|---|-----------------------------------|----------------------|--------------------------------------|---------------------------------|-----------------------------------|-----------------------------|-------------------------------|----------------------------------|-------------------|---|---|--|
| Pollutant   | Unit of Measure                   | Monitoring Frequency | Trigger value                        | Ground Water Bore BA1 NE Corner | Surface Water Pond NE Corner BA3  | Dog Trap Creek Upstream BA4 | Dog Trap Creek Downstream BA5 | Surface Water Pond SE Corner BA8 | Drainage Line BA9 | Ground Water Up Gradient Bore BA6 SW Corner | Ground Water Down Gradient Bore BA7 SE Corner | Dog Trap Creek below landfill drainage line BA10 |
| Alkalinity (as calcium carbonate)   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Aluminium   | milligrams per litre              | Yearly / Quarterly   | 0.055                                | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.33              | not required                                | not required                                  | 0.10   |
| Ammonia (as nitrogen)   | milligrams per litre              | Quarterly            | 0.9                                  | 75                              | 0.09                              | Dry creek                   | Dry creek                     | Dry pond                         | 0.07              | 0.12  | 0.10  | 0.09   |
| Arsenic   | milligrams per litre              | Yearly / Quarterly   | 0.010 / 0.024                        | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.001             | not required                                | not required                                  | 0.002  |
| Barium  | milligrams per litre              | Yearly / Quarterly   | 2                                    | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.10              | not required                                | not required                                  | 0.13   |
| Benzene   | milligrams per litre              | Yearly               | 0.001 / 0.950                        | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Biological Oxygen Demand (BOD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | not tested (missed by laboratory) | Dry creek                   | Dry creek                     | Dry pond                         | not required      | not required                                | not required                                  | 5.6  |
| Cadmium   | milligrams per litre              | Yearly / Quarterly   | 0.0002                               | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | less than 0.0002  | not required                                | not required                                  | less than 0.0002                                 |
| Calcium   | milligrams per litre              | Yearly               | 1000                                 | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chemical Oxygen Demand (COD)  | milligrams per litre              | Quarterly            | -                                    | not required                    | not required                      | Dry creek                   | Dry creek                     | Dry pond                         | not required      | not required                                | not required                                  | 120  |
| Chloride (Cl)   | milligrams per litre              | Yearly               | 350                                  | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chlorinated Volatile Compounds (CVCs)                                       | milligrams per litre              | Yearly               | -                                    | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Chromium (hexavalent)   | milligrams per litre              | Yearly / Quarterly   | 0.001                                | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | less than 0.005   | not required                                | not required                                  | less than 0.005                                  |
| Chromium (total)  | milligrams per litre              | Yearly / Quarterly   | 0.0033                               | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.002             | not required                                | not required                                  | less than 0.001                                  |
| Cobalt  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Copper  | milligrams per litre              | Yearly / Quarterly   | 0.0014                               | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.002             | not required                                | not required                                  | less than 0.001                                  |
| Ethylbenzene  | milligrams per litre              | Yearly               | 0.08                                 | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Fluoride  | milligrams per litre              | Yearly               | 1                                    | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Lead  | milligrams per litre              | Yearly / Quarterly   | 0.0034                               | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | less than 0.001   | not required                                | not required                                  | less than 0.001                                  |
| Magnesium   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Manganese   | milligrams per litre              | Yearly / Quarterly   | 0.2 / 1.9                            | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.12              | not required                                | not required                                  | 0.490  |
| Mercury   | milligrams per litre              | Yearly / Quarterly   | 0.00006                              | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | less than 0.0001  | not required                                | not required                                  | less than 0.0001                                 |
| Nitrate (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 2.40                                 | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | 0.03              | not required                                | not required                                  | less than 0.02                                   |
| Nitrite (as Nitrogen)   | milligrams per litre              | Yearly / Quarterly   | 0.9                                  | not required                    | not required                      | Dry creek                   | Dry creek                     | not required                     | less than 0.02    | not required                                | not required                                  | less than 0.02                                   |
| Organochlorine Pesticides (OCP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Organophosphorus Pesticides (OPP)   | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Polycyclic Aromatic Hydrocarbons (PAH)                                      | milligrams per litre              | Yearly               | 0.00001                              | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Perfluorooctane sulfonate (PFOS)  | micrograms per litre <sup>1</sup> | Quarterly            | 0.13 <sup>3</sup>                    | 0.56                            | 0.10                              | Dry creek                   | Dry creek                     | Dry pond                         | 0.36              | less than 0.01                              | less than 0.01                                | 0.26   |
| Perfluorooctanoic acid (PFOA)   | micrograms per litre <sup>1</sup> | Quarterly            | 0.56 <sup>3</sup> / 220 <sup>3</sup> | 1.10                            | 0.46                              | Dry creek                   | Dry creek                     | Dry pond                         | 0.51              | less than 0.01                              | less than 0.01                                | 0.58   |
| Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS) | micrograms per litre <sup>1</sup> | Quarterly            | 0.07 <sup>2</sup>                    | 2.56                            | 0.60                              | Dry creek                   | Dry creek                     | Dry pond                         | 0.85              | less than 0.01                              | less than 0.01                                | 0.74   |
| Potassium   | milligrams per litre              | Yearly               | -                                    | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Semi-volatile Organic Compounds (SVOCs)                                     | milligrams per litre              | Yearly               | Limit of reporting                   | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Sodium  | milligrams per litre              | Yearly               | 230                                  | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Sulphate (as SO4)   | milligrams per litre              | Yearly               | 1000                                 | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Toluene   | milligrams per litre              | Yearly               | 0.18                                 | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |
| Total Dissolved Solids (TDS)  | milligrams per litre              | Quarterly            | 2000                                 | 1600                            | 730                               | Dry creek                   | Dry creek                     | Dry pond                         | 970               | 710   | 870   | 1000   |
| Total Iron  | milligrams per litre              | Yearly               | 0.2                                  | not required                    | not required                      | not required                | not required                  | not required                     | not required      | not required                                | not required                                  | not required                                     |

|                                    |                            |                    |                    |              |              |              |              |              |              |              |              |              |
|------------------------------------|----------------------------|--------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Total Kjeldahl Nitrogen            | milligrams per litre       | Quarterly          | -                  | Not tested   | Not tested   | Dry creek    | Dry creek    | Not tested   | 1.0          | Not tested   | Not tested   | 1.7          |
| Total Nitrogen                     | milligrams per litre       | Quarterly          | 0.25               | Not tested   | Not tested   | Dry creek    | Dry creek    | Not tested   | 1.0          | Not tested   | Not tested   | 1.7          |
| Total Organic Carbon (TOC)         | milligrams per litre       | Quarterly          | -                  | 47           | 32           | Dry creek    | Dry creek    | Dry pond     | 18           | 15           | 14           | 32           |
| Total Petroleum Hydrocarbons (TPH) | milligrams per litre       | Yearly             | Limit of reporting | not required | not required | not required | not required | not required | not required | not required | not required | not required |
| Total Phenolics                    | milligrams per litre       | Yearly             | 0.32               | not required | not required | not required | not required | not required | not required | not required | not required | not required |
| Total Phosphorus                   | milligrams per litre       | Yearly / Quarterly | 0.02               | not required | not required | Dry creek    | Dry creek    | not required | 0.02         | not required | not required | not required |
| Total Suspended Solids (TSS)       | milligrams per litre       | Quarterly          | 50                 | not required | 19           | Dry creek    | Dry creek    | Dry pond     | not required | not required | not required | 12           |
| Volatile Organic Compounds (VOCs)  | milligrams per litre       | Yearly             | Limit of reporting | not required | not required | not required | not required | not required | not required | not required | not required | not required |
| Xylenes                            | milligrams per litre       | Yearly             | 0.075              | not required | not required | not required | not required | not required | not required | not required | not required | not required |
| Zinc                               | milligrams per litre       | Yearly / Quarterly | 0.008              | not required | not required | Dry creek    | Dry creek    | not required | 0.029        | not required | not required | 0.008        |
| FIELD MEASUREMENTS                 |                            |                    |                    |              |              |              |              |              |              |              |              |              |
| Standing Water Level               | metres below top of casing | Quarterly          | -                  | 1.11         | -            | Dry creek    | Dry creek    | Dry pond     | -            | 38.40        | 17.59        | -            |
| Electrical Conductivity            | milligrams per litre       | Quarterly          | 30-350             | 2762         | 1140         | Dry creek    | Dry creek    | Dry pond     | 1448         | 1369         | 1623         | 1554         |
| pH                                 | PH Units                   | Quarterly          | 6.5-8              | 6.94         | 8.82         | Dry creek    | Dry creek    | Dry pond     | 7.63         | 5.65         | 4.00         | 7.78         |
| Temp                               | Degree C                   | Quarterly          | -                  | 18.3         | 22.4         | Dry creek    | Dry creek    | Dry pond     | 19.0         | 21.4         | 18.2         | 19.0         |

## Table notes:

|            |   |
|------------|---|
| Black text | EPL requires quarterly or yearly monitoring of this mandatory parameter           |
| Red text   | EPL requirements not met  |
| Blue text  | Additional parameter/location analysed beyond EPL requirements (non-mandatory)    |
|            | Reported concentration exceeds adopted trigger value - trigger 1 where applicable |
|            | Reported concentration exceeds adopted trigger value - trigger 2 where applicable |
|            | Limit of reporting exceed adopted trigger value                                   |

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).