

Dial A Dump (EC) Pty Ltd
Groundwater Quality Monitoring



Licensee: Dial A Dump (EC) Pty Ltd
 Address: Genesis Waste Facility, Honeycomb Drive, Eastern Creek
 EPL Nos. 13426

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| BH24i | Pollutant | Units | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|------------------------------|-----------|-------|--------|--------|-------|---------|-------|--------|--------|----------|--------|--------|--------|----------|--------|--------|--------|----|
| | | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| *C10 - C14 | µg/L | | | | | <50 | | | | <50 | | | | <50 | | | | |
| *C15 - C28 | µg/L | | | | | <100 | | | | <100 | | | | 180 | | | | |
| *C29 - C36 | µg/L | | | | | <50 | | | | <100 | | | | <100 | | | | |
| *C6 - C9 | µg/L | | | | | <20 | | | | 33 | | | | <10 | | | | |
| *meta & para-Xylene | µg/L | | | | | <2 | | | | <2 | | | | <2 | | | | |
| *Naphthalene | µg/L | | | | | <5 | | | | <1 | | | | <1 | | | | |
| *Nitrate | mg/L | | 0.37 | 0.15 | 0.1 | 0.08 | 0.08 | 0.19 | 0.008 | 0.33 | <0.005 | 0.009 | <0.005 | 0.078 | <0.005 | 0.095 | <0.005 | |
| *Nitrite | mg/L | | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | <0.005 | <0.005 | <0.005 | |
| *ortho-Xylene | µg/L | | | | | <2 | | | | <1 | | | | <1 | | | | |
| Alkalinity | mg/L | | 127 | 159 | 158 | 179 | 187 | 190 | 210 | 540 | 750 | 760 | 800 | 510 | 680 | 600 | 620 | |
| Aluminium | mg/L | | | | | <0.01 | | | | 0.02 | | | | 0.04 | | | | |
| Arsenic | mg/L | | | | | 0.007 | | | | 0.006 | | | | 0.002 | | | | |
| Barium | mg/L | | | | | 0.326 | | | | 0.43 | | | | 0.39 | | | | |
| Benzene | µg/L | | | | | <1 | | | | 24 | | | | <1 | | | | |
| Cadmium | mg/L | | | | | <0.0001 | | | | <0.0001 | | | | <0.0001 | | | | |
| Calcium | mg/L | | 9 | 8 | 6 | 5 | 11 | 11 | 12 | 10 | 8.5 | 9.3 | 11 | 18 | 19 | 18 | 19 | |
| Chloride | mg/L | | 45 | 48 | 57 | 54 | 65 | 81 | 79 | 240 | 350 | 320 | 470 | 230 | 200 | 130 | 130 | |
| Chromium | mg/L | | | | | <0.001 | | | | <0.001 | | | | <0.001 | | | | |
| Copper | mg/L | | | | | <0.001 | | | | 0.011 | | | | 0.005 | | | | |
| Electrical Conductivity | µS/cm | | 446 | 4770 | 1675 | 926 | 3787 | 867 | 916 | 1769 | 1224 | 2090 | 2576 | 845 | 2330 | 2225 | 2434 | |
| Ethyl Benzene | µg/L | | | | | <2 | | | | <1 | | | | <1 | | | | |
| Fluoride | mg/L | | | 1.4 | 0.4 | 1.2 | 1.1 | | | 1 | | | | 0.9 | | | | |
| Lead | mg/L | | | | | <0.001 | | | | <0.001 | | | | <0.001 | | | | |
| Magnesium | mg/L | | 2 | 2 | 1 | 1 | 2 | 2.5 | 2.5 | 3.7 | 3.7 | 4.2 | 5.3 | 5.4 | 570 | 660 | 630 | |
| Manganese | mg/L | | | | | 0.007 | | | | 0.029 | | | | 0.038 | | | | |
| Mercury | mg/L | | | | | <0.0001 | | | | <0.00005 | | | | <0.00005 | | | | |
| Nitrate + nitrite | mg/L | | 0.37 | 0.15 | 0.1 | 0.08 | 0.1 | 0.19 | 0.008 | 0.33 | <0.005 | 0.009 | <0.005 | 0.08 | <0.005 | 0.1 | <0.005 | |
| Nitrogen (ammonia) | mg/L | | 0.01 | 0.09 | 0.03 | 0.03 | <0.01 | <0.005 | 0.01 | 0.78 | 1.3 | 1.5 | 1.8 | 0.2 | 1 | 1.9 | 1.7 | |
| pH | | | 8.98 | 9.28 | 8.02 | 8.98 | 8.86 | 8.45 | 7.83 | 8.03 | 8.11 | 8.07 | 7.78 | 8.21 | 7.75 | 8.39 | 9.15 | |
| Phenols | µg/L | | | | | <1.0 | | | | <0.05 | | | | <0.05 | | | | |
| Phosphorus | mg/L | | | | | 0.04 | | | | 0.09 | | | | 0.08 | | | | |
| Potassium | mg/L | | 4 | 4 | 4 | 4 | 4 | 5.4 | 6.4 | 9.4 | 11 | 11 | 13 | 8.9 | 11 | 10 | 11 | |
| Redox | mV | | -151.1 | -185.7 | -8.2 | -43.5 | 19 | -98 | -32.4 | -137 | -126.3 | -191.4 | -220.2 | -43.2 | -140.8 | 23 | -160.6 | |
| Sodium | mg/L | | 80 | 103 | 111 | 118 | 124 | 180 | 220 | 590 | 540 | 530 | 660 | 400 | 570 | 660 | 630 | |
| Standing water level | m AHD | | 38.41 | 38.315 | 38.42 | 38.05 | 38.12 | 37.51 | 36.31 | 36.87 | 37.01 | 36.65 | 36.67 | 38.09 | 37.87 | 37.29 | 37.92 | |
| Sulphate | mg/L | | 22 | 23 | 30 | 34 | 32 | 62 | 50 | 35 | 12 | 9 | 8 | 78 | 380 | 420 | 360 | |
| Toluene | µg/L | | | | | <2 | | | | <1 | | | | <1 | | | | |
| Total organic carbon | mg/L | | | | | 5 | | | | 8 | | | | 5 | | | | |
| Total Petroleum Hydrocarbons | µg/L | | | | | <50 | | | | <50 | | | | 180 | | | | |
| Xylene | µg/L | | | | | <2 | | | | <2 | | | | <2 | | | | |
| Zinc | mg/L | | | | | <0.005 | | | | 0.016 | | | | 0.13 | | | | |