

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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| BH13i | Pollutant | Units | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|------------------------------|-----------|--------|-------|---------|-------|-------|--------|---------|-------|--------|-------|---------|-------|-------|-------|----------|-------|-------|--------|----------|-------|--------|-------|----|--|--|
| | | | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | |
| Alkalinity (total) as CaCO3 | mg/L | 1,780 | 413 | 480 | 622 | 1,030 | 588 | 665 | 572 | 618 | 543 | 588 | 537 | 540 | 650 | 600 | 530 | 520 | 510 | 500 | 450 | 350 | 370 | | | |
| Aluminium (filtered) | mg/L | | | 0.05 | | | | 0.06 | | | | 0.08 | | | | 0.24 | | | | 0.33 | | | | | | |
| Arsenic (filtered) | mg/L | | | <0.001 | | | | 0.001 | | | | <0.001 | | | | <0.001 | | | | <0.001 | | | | | | |
| Barium (filtered) | mg/L | | | 0.912 | | | | 0.961 | | | | 0.983 | | | | 0.85 | | | | 0.84 | | | | | | |
| Benzene | µg/L | | | 2 | | | | 2 | | | | 2 | | | | <1 | | | | <1 | | | | | | |
| Cadmium (filtered) | mg/L | | | <0.0001 | | | | <0.0001 | | | | <0.0001 | | | | <0.0001 | | | | <0.0001 | | | | | | |
| Calcium (filtered) | mg/L | 565 | 256 | 308 | 379 | 348 | 386 | 416 | 368 | 341 | 278 | 322 | 376 | 310 | 390 | 390 | 340 | 340 | 370 | 320 | 360 | 280 | 340 | | | |
| Chloride | mg/L | 4,580 | 1,130 | 1,110 | 1,010 | 1,260 | 1,140 | 1,150 | 1,020 | 1,130 | 1,130 | 1,150 | 1,090 | 1,200 | 1,200 | 1,100 | 1,100 | 1,000 | 1,200 | 1,300 | 1,200 | 1,200 | 1,200 | | | |
| Chromium (III+VI) (filtered) | mg/L | | | 0.002 | | | | 0.004 | | | | 0.002 | | | | 0.003 | | | | 0.003 | | | | | | |
| Copper (filtered) | mg/L | | | 0.002 | | | | 0.01 | | | | 0.001 | | | | 0.022 | | | | 0.015 | | | | | | |
| EC (field) | uS/cm | 13,112 | 4,375 | 6,160 | 6,020 | 5,710 | 6,900 | 6,340 | 6,040 | 5,940 | 5,408 | 6,426 | 4,036 | 4,010 | 6,132 | 5,700 | 5,243 | 5,535 | 5,810 | 5,969 | 5,608 | 4,685 | 5,235 | | | |
| Ethylbenzene | µg/L | | | <2 | | | | <2 | | | | <2 | | | | <1 | | | | <1 | | | | | | |
| Fluoride | mg/L | | | 0.3 | | | 0.3 | 0.3 | | 0.4 | 0.3 | 0.3 | 0.3 | | | 0.3 | | | | 0.2 | | | | | | |
| Lead (filtered) | mg/L | | | 0.008 | | | | 0.013 | | | | 0.003 | | | | 0.01 | | | | 0.006 | | | | | | |
| Magnesium (filtered) | mg/L | 192 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| Manganese (filtered) | mg/L | | | <0.001 | | | | <0.001 | | | | <0.001 | | | | <0.005 | | | | <0.005 | | | | | | |
| Mercury (filtered) | mg/L | | | <0.0001 | | | | <0.0001 | | | | <0.0001 | | | | <0.00005 | | | | <0.00005 | | | | | | |
| Nitrogen (Total Oxidised) | mg/L | 0.03 | 0.79 | 1.02 | 0.61 | 0.15 | 0.27 | 0.33 | 0.49 | 0.46 | 0.3 | 0.25 | 0.28 | 0.45 | 0.47 | 0.68 | 0.63 | 0.56 | 0.65 | 0.63 | 0.62 | 0.98 | 1.1 | | | |
| Ammonia | mg/L | 8.83 | 5.39 | 9.01 | 8.41 | 3.51 | 5.75 | 9.28 | 8.91 | 8.24 | 8.74 | 8.46 | 8.8 | 2.3 | 5.5 | 5.7 | 7.5 | 5.2 | 7.4 | 6.9 | 4.3 | 8.4 | 7.1 | | | |
| pH (Field) | | 6.02 | 11.74 | 12.36 | 11.68 | 12.01 | 11.73 | 12.05 | 11.94 | 11.59 | 11.05 | 12.11 | 11.93 | 12.06 | 11.87 | 11.67 | 11.64 | 11.79 | 11.69 | 11.91 | 11.84 | 11.84 | 11.90 | | | |
| Phenolics Total | µg/L | | | | | | | <0.05 | | | | <0.01 | | | | <0.05 | | | | <50 | | | | | | |
| Phosphorus | mg/L | | | <0.01 | | | | 0.09 | | | | <0.01 | | | | 0.2 | | | | <0.05 | | | | | | |
| Potassium (filtered) | mg/L | 81 | 26 | 21 | 24 | 21 | 23 | 23 | 20 | 20 | 26 | 22 | 21 | 25 | 26 | 25 | 23 | 19 | 20 | 22 | 20 | 19 | 19 | | | |
| Redox Potential (Field) | mV | 28.9 | -63.1 | -294.9 | -309 | -317 | -317.6 | -331.4 | -319 | -324.6 | -96.2 | -104.2 | -76 | -91 | -5.4 | -63.9 | -16.8 | -74.9 | -116.8 | -85.6 | -93.9 | -127.0 | 1.1 | | | |
| Sodium (filtered) | mg/L | 3,710 | 704 | 615 | 673 | 648 | 665 | 665 | 638 | 617 | 654 | 610 | 593 | 780 | 870 | 900 | 640 | 610 | 580 | 660 | 670 | 600 | 580 | | | |
| Sulphate | mg/L | <10 | 10 | 8 | 6 | 6 | 5 | 2 | 6 | 6 | 7 | 5 | 7 | 8 | 9 | 12 | 8 | 11 | <1 | 9 | 7 | 8 | 8 | | | |
| Toluene | µg/L | | | <2 | | | | <2 | | | | <2 | | | | <1 | | | | <1 | | | | | | |
| TOC | mg/L | | | 5 | | | | 19 | | | | 6 | | | | 12 | | | | 10 | | | | | | |
| Xylene Total | µg/L | | | <2 | | | | <2 | | | | <2 | | | | | | | | | | | | | | |
| Xylene (m & p) | µg/L | | | <2 | | | | <2 | | | | <2 | | | | | | | | <2 | | | | | | |
| Xylene (o) | µg/L | | | | | | | | | | | | | | | <1 | | | | <1 | | | | | | |
| Zinc (filtered) | mg/L | | | 0.006 | | | | 0.025 | | | | <0.005 | | | | 0.086 | | | | 0.022 | | | | | | |
| C10-C14 | µg/L | | | <50 | | | | <50 | | | | <50 | | | | <50 | | | | 54 | | | | | | |
| C10-C16 | mg/L | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | 0.084 | | | | 0.051 | | | | | | |
| C15-C28 | µg/L | | | <100 | | | | <100 | | | | <100 | | | | <100 | | | | <100 | | | | | | |
| C16-C34 | mg/L | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | | | |
| C29-C36 | µg/L | | | <50 | | | | <50 | | | | <50 | | | | <100 | | | | <100 | | | | | | |
| C34-C40 | mg/L | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | | | |
| C6-C10 | mg/L | | | 0.03 | | | | 0.02 | | | | <0.02 | | | | <0.01 | | | | <0.01 | | | | | | |
| C6-C9 | µg/L | | | 20 | | | | 20 | | | | <20 | | | | <10 | | | | <10 | | | | | | |
| F2 minus Naphthalene | mg/L | | | <0.1 | | | | <0.1 | | | | <0.1 | | | | 0.084 | | | | 0.051 | | | | | | |
| C10-C40 (Sum of total) | µg/L | | | <100 | | | | <100 | | | | <100 | | | | 84 | | | | | | | | | | |
| +C10-C36 (Sum of total) | µg/L | | | <50 | | | | <50 | | | | <50 | | | | <50 | | | | | | | | | | |

