

## Environment Compliance: Pollution Monitoring Data

Mid-Western Regional Council - Mudgee Waste Facility

31 Blain Road, Caerleon, NSW, 2850

Reporting Period: 01 October 2022 - 30 September 2023

EPA Licence: **6348**

Monitoring Point: **EPA 4.**

Monitoring Frequency: **Special Frequency 1**

Groundwater quality monitoring, Groundwater Monitoring Bore "9802B" as identified on drawing 08A\_EV03 dated 2012 contained within the Mudgee Waste Facility Pollution Incident Response Management Plan, dated 08/2012

<https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=6348&id=6348&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued>

|                   |            |              |
|-------------------|------------|--------------|
| Date sampled:     | 21/12/2022 | 16/05/2023   |
| Work Order:       | ME2202247  | ME2300905003 |
| Sampler:          | ALS        | ALS          |
| Results Received: | 13/01/2023 | 29/05/2023   |
| Published:        | 16/01/2023 | 16/06/2023   |

| Pollutant                      | Limit 100 percentile | Unit of measure |       |       | No. of samples required. | No. of samples collected and analysed | Lowest Sample Value | Mean of Sample | Highest Sample Value |
|--------------------------------|----------------------|-----------------|-------|-------|--------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity as CaCO3            |                      | mg/L            | 594   | 731   | 2                        | 2                                     | 594                 | 662.5          | 662.5                |
| Aluminium                      |                      | mg/L            | 0.26  | 1.49  | 2                        | 2                                     | 0.26                | 0.875          | 0.875                |
| Ammonia as N                   |                      | mg/L            | 1.7   | 1.49  | 2                        | 2                                     | 1.49                | 1.595          | 1.595                |
| Arsenic                        |                      | mg/L            | 0.002 | 0.003 | 2                        | 2                                     | 0.002               | 0.0025         | 0.0025               |
| Barium                         |                      | mg/L            | 0.06  | 0.084 | 2                        | 2                                     | 0.06                | 0.072          | 0.072                |
| Biochemical Oxygen Demand      |                      | mg/L            | <2    | <2    | 2                        | 2                                     | 1                   | 1              | 1                    |
| Calcium                        |                      | mg/L            | 25    | 23    | 2                        | 2                                     | 23                  | 24             | 24                   |
| Chloride                       |                      | mg/L            | 315   | 371   | 2                        | 2                                     | 315                 | 343            | 343                  |
| Cobalt                         |                      | mg/L            | <0.01 | 0.002 | 2                        | 2                                     | 0.002               | 0.0055         | 0.0055               |
| Conductivity (Non Compensated) |                      | µS/cm           | 895   | 2410  | 2                        | 2                                     | 895                 | 1652.5         | 1652.5               |
| Copper                         |                      | mg/L            | 0.003 | 0.01  | 2                        | 2                                     | 0.003               | 0.0065         | 0.0065               |
| Fluoride                       |                      | mg/L            | 0.7   | 0.7   | 2                        | 2                                     | 0.7                 | 0.7            | 0.7                  |
| Iron                           |                      | mg/L            | 4.83  | 7.85  | 2                        | 2                                     | 4.83                | 6.34           | 6.34                 |
| Lead                           |                      | mg/L            | 0.004 | 0.009 | 2                        | 2                                     | 0.004               | 0.0065         | 0.0065               |
| Magnesium                      |                      | mg/L            | 18    | 14    | 2                        | 2                                     | 14                  | 16             | 16                   |
| Manganese                      |                      | mg/L            | 0.96  | 1.04  | 2                        | 2                                     | 0.96                | 1              | 1                    |
| Nitrate as N                   |                      | mg/L            | <0.01 | 0.11  | 2                        | 2                                     | 0.009               | 0.0595         | 0.0595               |
| pH                             |                      | pH              | 7.5   | 7.5   | 2                        | 2                                     | 7.5                 | 7.5            | 7.5                  |
| Phosphorus as P (total)        |                      | mg/L            | 1.32  | 1.72  | 2                        | 2                                     | 1.32                | 1.52           | 1.52                 |
| Potassium                      |                      | mg/L            | 10    | 8     | 2                        | 2                                     | 8                   | 9              | 9                    |
| Sodium                         |                      | mg/L            | 402   | 402   | 2                        | 2                                     | 402                 | 402            | 402                  |
| Standing Water Level           |                      | As Approp.      | NA    | 4.37  | 2                        | 2                                     | 0                   | 0              | 0                    |
| Sulfate as SO4 - Turbidimetric |                      | mg/L            | 6     | 10    | 2                        | 2                                     | 6                   | 8              | 8                    |
| Total Dissolved Solids @180°C  |                      | mg/L            | 1210  | 1300  | 2                        | 2                                     | 1210                | 1255           | 1255                 |
| Total Organic Carbon           |                      | mg/L            | 14    | 15    | 2                        | 2                                     | 14                  | 14.5           | 14.5                 |
| Total Petroleum Hydrocarbons   |                      | mg/L            | 0.049 | 0.049 | 2                        | 2                                     | 0.049               | 0.049          | 0.049                |
| Total Phenolics                |                      | mg/L            | <0.05 | <0.05 | 2                        | 2                                     | 0.04                | 0.04           | 0.04                 |
| Zinc                           |                      | mg/L            | 0.064 | 0.115 | 2                        | 2                                     | 0.064               | 0.0895         | 0.0895               |