



Historical Effluent Quality Results

Gilgandra Effluent Reuse Scheme

Gilgandra Shire Council
 Gilgandra Sewage Treatment Plant
 EPL No. 4640

Link to EPL register: <https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?Instid=4640&id=4640&option=licence&searchrange=licence&range=POEO licence&prg=no&status=issued>

| pH (Lab) | Inorganics | | | | Nutrients | | | | Organic Indicators | TPH |
|----------|---------------------------------|-------------------------------|--------------------------------------|--|-------------------------|--------------------------------|---------------------------|------------|---------------------|-----|
| | Electrical conductivity (µS/cm) | Total Suspended Solids (mg/L) | Sodium Adsorption Ratio (filter red) | Nitrogen (Total Dissolved) (as N) (mg/L) | Nitrogen (Total) (mg/L) | Kjeldahl Nitrogen Total (mg/L) | Phosphorus (Total) (mg/L) | BOD (mg/L) | Oil & Grease (mg/L) | |
| 0.01 | 1 | 1 | 0.01 | 0.01 | 0.1 | 0.1 | 0.01 | 2 | 5 | |

| Location Code | Sample Date and Time | Samples Received | Results Published | Name of Sampler | pH | Electrical conductivity (µS/cm) | Total Suspended Solids (mg/L) | Sodium Adsorption Ratio (filter red) | Nitrogen (Total Dissolved) (as N) (mg/L) | Nitrogen (Total) (mg/L) | Kjeldahl Nitrogen Total (mg/L) | Phosphorus (Total) (mg/L) | BOD (mg/L) | Oil & Grease (mg/L) |
|---------------|----------------------|------------------|-------------------|-----------------|------|---------------------------------|-------------------------------|--------------------------------------|--|-------------------------|--------------------------------|---------------------------|------------|---------------------|
| EPA ID No. 1 | 27/06/2012 15:00 | 28/06/2012 | 5/07/2012 | J. Reynolds | 7.96 | 1,040 | 23 | 6.86 | 14.2 | 37.9 | 23.7 | 6.85 | 18 | <5 |
| EPA ID No. 1 | 18/09/2012 15:00 | 19/09/2012 | 26/09/2012 | J. Reynolds | 7.86 | | 10 | | 15.7 | 34 | 18.3 | 7.17 | 12 | <5 |
| EPA ID No. 1 | 11/12/2012 7:20 | 12/12/2012 | 20/12/2012 | J. Reynolds | 7.96 | | 28 | | 18.6 | 34 | 15.4 | 6.87 | 12 | <5 |
| EPA ID No. 1 | 27/03/2013 15:00 | 28/03/2013 | 8/04/2013 | G. Metcalfe | 7.93 | 1,020 | 5 | | 14 | 36.2 | 22.2 | 7.16 | 15 | <5 |
| EPA ID No. 1 | 25/06/2013 15:00 | 26/06/2013 | 3/07/2013 | A. Currall | 7.92 | | 23 | 6.8 | 13.7 | 39.8 | 26.1 | 6.35 | 14 | <5 |
| EPA ID No. 1 | 5/09/2013 11:05 | 6/09/2013 | 12/09/2013 | A. Currall | 8.01 | | 32 | 6.84 | 14.1 | 37.7 | 23.6 | 7.27 | 9 | <5 |
| EPA ID No. 1 | 11/12/2013 14:10 | 12/12/2013 | 19/12/2013 | G. Metcalfe | 8.04 | | 24 | 5.47 | 17.8 | 28.6 | 10.8 | 4.99 | 7 | <5 |
| EPA ID No. 1 | 25/03/2014 9:50 | 26/03/2014 | 4/04/2013 | A. Currall | 8.06 | 875 | 32 | 6.23 | 12.2 | 27.2 | 15 | 6.6 | 15 | <5 |
| EPA ID No. 1 | 19/06/2014 15:00 | 20/06/2014 | 27/06/2014 | P. McDougall | 7.75 | 1,040 | 21 | 6.57 | 12.8 | 61.6 | 48.8 | 15.2 | 9 | <5 |
| EPA ID No. 1 | 22/09/2014 15:00 | 24/09/2014 | 1/10/2014 | P. McDougall | 7.79 | 998 | 11 | 4.94 | 14.8 | 32.2 | 17.4 | 6.2 | 13 | <5 |
| EPA ID No. 1 | 18/12/2014 15:00 | 22/12/2014 | 5/01/2015 | A. Currall | 7.86 | 862 | 31 | 6.19 | 11.4 | 23.3 | 11.9 | 4.85 | 7 | <5 |
| EPA ID No. 1 | 17/04/2015 0:00 | 20/04/2015 | 29/04/2015 | P. McDougall | 7.78 | 1,060 | <5 | 7.02 | 8.47 | 25.3 | 16.8 | 6.52 | 7 | 8 |
| EPA ID No. 1 | 1/06/2015 0:00 | 4/06/2015 | 12/06/2015 | P. McDougall | 7.91 | 968 | 5 | 5.87 | 13.8 | 25.5 | 11.7 | 4.35 | <2 | <5 |
| EPA ID No. 1 | 2/09/2015 0:00 | 4/09/2015 | 14/09/2015 | P. McDougall | 8.03 | 1,020 | 14 | 5.5 | 11.4 | 31.6 | 20.2 | 6.25 | 10 | <5 |
| EPA ID No. 1 | 16/12/2015 0:00 | 17/12/2015 | 29/12/2015 | P. McDougall | 8.09 | 1,080 | 45 | 6.39 | 3.63 | 21 | 17.4 | 6.84 | 13 | <5 |
| EPA ID No. 1 | 8/03/2016 0:00 | 10/03/2016 | 16/03/2016 | P. McDougall | 7.91 | 987 | 9 | 5.73 | 4.37 | 21.9 | 17.5 | 6.52 | 8 | 14 |
| EPA ID No. 1 | 23/08/2016 10:24 | 24/08/2016 | 1/07/2016 | P. McDougall | 7.43 | 876 | 6 | | 11.5 | 20.9 | 9.4 | 3.54 | 5 | <5 |
| EPA ID No. 1 | 30/08/2016 10:38 | 31/08/2016 | 6/09/2016 | P. McDougall | 7.65 | 910 | 14 | 5.84 | 11.5 | 34.2 | 22.7 | 6.5 | 12 | 15 |
| EPA ID No. 1 | 14/12/2016 0:00 | 15/12/2016 | 22/12/2016 | P. McDougall | 8.63 | 1,020 | 100 | 7.04 | 8.88 | 31.9 | 23 | 6.9 | 16 | <5 |
| EPA ID No. 1 | 14/03/2017 12:24 | 15/03/2017 | 22/03/2017 | P. McDougall | 7.92 | 1,010 | 48 | 9.46 | 13.3 | 30.3 | 17 | 5.17 | 15 | 6 |
| EPA ID No. 1 | 6/06/2017 10:52 | 9/06/2017 | 16/06/2017 | P. McDougall | 7.94 | 1,070 | 27 | 6.77 | 8.93 | 32.9 | 24 | 5.5 | 20 | <5 |
| EPA ID No. 1 | 12/09/2017 9:30 | 13/09/2017 | 20/09/2017 | P. McDougall | 7.99 | 1,210 | 34 | 6.93 | 0.19 | 31.2 | 31 | 7.19 | 37 | <5 |
| EPA ID No. 1 | 6/12/2017 11:54 | 8/12/2017 | 15/12/2017 | P. McDougall | 8.09 | 998 | 18 | 8.56 | 3.07 | 21.9 | 18.8 | 4.22 | 17 | 8 |
| EPA ID No. 1 | 22/03/2018 0:00 | 23/03/2018 | 3/04/2018 | B. Foster | 7.92 | 1,070 | 29 | 6.67 | 6.82 | 21.1 | 14.3 | 4.73 | 9 | ** |
| EPA ID No. 1 | 21/06/2018 0:00 | 22/06/2018 | 29/06/2018 | B. Foster | 7.86 | 1,060 | 11 | 7.08 | 14.9 | 35.1 | 20.2 | 4.96 | 11 | <5 |
| EPA ID No. 1 | 24/09/2018 12:30 | 25/09/2018 | 3/10/2018 | B. Foster | 7.87 | 916 | 20 | 5.43 | 15.2 | 35.2 | 20 | 5.37 | 11 | <5 |
| EPA ID No. 1 | 5/12/2018 0:00 | 6/12/2018 | 13/12/2018 | B. Foster | 8 | 1,050 | 12 | 6.68 | 16.6 | 31.6 | 15 | 5.53 | 11 | <5 |
| EPA ID No. 1 | 6/03/2019 11:20 | 8/03/2019 | 14/03/2019 | B. Foster | 7.94 | 1,010 | 9 | 6.27 | 17.9 | 30.8 | 12.9 | 5.17 | 7 | <5 |
| EPA ID No. 1 | 20/05/2019 13:30 | 22/05/2019 | 30/05/2019 | B. Foster | 7.9 | 1,070 | 21 | 6.44 | 11.2 | 26.2 | 15 | 4.77 | 9 | 7 |
| EPA ID No. 1 | 22/08/2019 10:50 | 23/08/2019 | 30/08/2019 | B. Foster | 8.01 | 1,160 | 28 | 6.9 | 5.75 | 33 | 27.3 | 5.8 | 26 | 7 |
| EPA ID No. 1 | 4/12/2019 11:35 | 5/12/2019 | 31/01/2020 | B. Foster | 8.11 | 1,060 | 18 | 5.62 | 11 | 25.7 | 14.7 | 6.3 | 18 | 7 |
| EPA ID No. 1 | 25/02/2020 0:00 | 30/03/2020 | 14/04/2020 | G. Rogers | 7.87 | 1,130 | 13 | 7.05 | 9.3 | 27.2 | 17.9 | 5.88 | 9 | <5 |
| EPA ID No. 1 | 13/05/2020 1:52 | 15/05/2020 | 27/07/2020 | G. Rogers | 8.08 | 1,060 | 34 | 6.63 | 0.17 | 25.2 | 25 | 5.18 | 29 | 8 |
| EPA ID No. 1 | 18/08/2020 0:00 | 21/08/2020 | 15/01/2021 | G. Rogers | 7.94 | 1,060 | 20 | 6.36 | 0.03 | 29.8 | 29.8 | 5.58 | 28 | 7 |
| EPA ID No. 1 | 10/11/2020 0:00 | 12/11/2020 | 15/01/2021 | G. Rogers | 7.96 | 1,080 | 17 | 5.9 | 11.9 | 29.1 | 17.2 | 5.89 | 11 | <5 |
| EPA ID No. 1 | 2/02/2021 16:30 | 5/02/2021 | 12/02/2021 | G. Rogers | 7.74 | 857 | 15 | 5.3 | 9.69 | 19.5 | 9.8 | 3.89 | 11 | <5 |
| EPA ID No. 1 | 27/03/2021 0:00 | 28/03/2021 | 4/06/2021 | G. Rogers | 7.56 | 1,480 | 338 | 4.63 | 0.06 | 77.8 | 77.7 | 28.1 | 33 | <5 |
| EPA ID No. 1 | 11/10/2021 0:00 | 12/10/2021 | 6/12/2021 | B. Foster | 7.9 | 1,010 | 14 | 6.21 | 11.3 | 28.5 | 17.2 | 5.9 | 216 | <5 |
| EPA ID No. 1 | 9/12/2021 16:00 | 14/12/2021 | 22/12/2021 | G. Rogers | 8 | 927 | 12 | 5.12 | 11.7 | 29.8 | 18.1 | 5.42 | 25 | 5 |
| EPA ID No. 1 | 22/02/2022 0:00 | 23/02/2022 | 7/03/2022 | G. Rogers | 7.73 | 926 | 42 | 6.42 | 9.08 | 23.7 | 14.6 | 5.3 | 6 | <5 |
| EPA ID No. 1 | 25/05/2022 0:00 | 26/05/2022 | 10/06/2022 | G. Rogers | 7.99 | 1,020 | 34 | 4.93 | 0.25 | 35.2 | 35 | 5.69 | 30 | <5 |
| EPA ID No. 1 | 26/10/2022 12:59 | 1/11/2022 | 8/11/2022 | G. Rogers | 7.83 | 825 | 8 | 5.1 | 8.86 | 22.1 | 13.2 | 3.98 | 9 | <5 |
| EPA ID No. 1 | 7/12/2022 14:48 | 8/12/2022 | 15/12/2022 | G. Rogers | 8.06 | 945 | 34 | 6.37 | 14.6 | 39.2 | 24.6 | 5.14 | 21 | 6 |
| EPA ID No. 1 | 7/03/2023 14:45 | 8/03/2023 | 15/03/2023 | G. Rogers | *** | 998 | 14 | 6.13 | 7.65 | 24.4 | 16.8 | 5.38 | 7 | <5 |
| EPA ID No. 1 | 25/05/2023 14:13 | 29/05/2023 | 4/07/2023 | G. Rogers | 6.98 | 1,030 | 18 | 6.82 | 12.1 | 35 | 22.9 | 6.03 | 13 | 5 |
| EPA ID No. 1 | 8/08/2023 0:00 | 9/08/2023 | 16/08/2023 | G. Rogers | 7.91 | 1,070 | 26 | 6.88 | 10.5 | 31.1 | 20.6 | 5.38 | 12 | 6 |
| EPA ID No. 1 | 6/12/2023 0:00 | 7/12/2023 | 14/12/2023 | G. Rogers | 7.93 | 1,140 | 26 | 5.77 | 0.2 | 26.1 | 25.9 | 6.07 | 27 | 12 |
| EPA ID No. 1 | 27/03/2024 9:00 | 28/03/2024 | 5/04/2024 | S. Meghna | 8.03 | 966 | 28 | 5.53 | 7.11 | 24.5 | 17.4 | 4.83 | 28 | <5 |

* Sodium Adsorption Ratio (SAR) was not tested for at EPA point 1 on 23/06/2016 due to the parameter not being specified to the laboratory on the chain of custody form.
 ** An Oil and Grease sample was not obtained at EPA point 1 on 22/03/2018 as the correct preservation container was not used to collect the sample. This was reported in the 2017/18 Annual Return as a non-compliance.
 *** A pH was not obtained at EPA point 1 on the 07/03/2022 as the sample arrived at the laboratory outside of the holding time for pH.