



Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V

Section A – Licence Details

| | | | |
|---------------------|--|----------------------|--------|
| Licence number: | L8238/2008/2 | Licence file number: | DEC563 |
| Licence holder: | Water Corporation | | |
| Trading as: | Quairading Wastewater Treatment Plant | | |
| ABN: | 28 003 434 917 | | |
| Registered address: | 629 Newcastle Street, LEEDERVILLE, WA 6007 | | |
| Reporting period: | 01 / 07 / 2017 to 30 / 06 / 2018 | | |

Section B – Statement of Compliance with Licence Conditions

Did you comply with all of your licence conditions during the reporting period?
(please tick the appropriate box)

Yes – please complete:

- section C;
- section D if required; and
- sign the declaration in Section F.

No – please complete:

- section C;
- section D if required;
- section E; and
- sign the declaration at Section F.

Section C – Statement of Actual Production

Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.

| Prescribed Premises Category | Actual Production Quantity |
|------------------------------|---|
| 54 | Inflow estimated 133m ³ /day |

Section D – Statement of Actual Part 2 Waste Discharge Quantity

Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.

| Prescribed Premises Category | Actual Part 2 Waste Discharge Quantity |
|------------------------------|--|
| Not Applicable | |

| Section E – Details of Non-Compliance with Licence Condition | | | |
|--|-----------|----------------------------|---------------------|
| Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period. | | | |
| Condition no: | 1.3.5 (b) | Date(s) of non-compliance: | 04/09/2017- present |
| Details of non-compliance: | | | |
| As identified during an inspection of the facility by DWER in June 2016, significant surface erosion on the embankments has compromised the integrity of the Evaporation Ponds. | | | |
| What was the actual (or suspected) environmental impact of the non-compliance? | | | |
| <p>NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.</p> <p>An assessment of groundwater monitoring information for the Quairading WWTP has identified elevated levels of nutrients within groundwater; however, a more detailed risk assessment is being undertaken to determine potential risks to nearby sensitive receptors. Given the lack of registered groundwater bores within proximity of the WWTP, and high salinity of regional aquifers, it is unlikely that there are any down-gradient receptors that would be impacted from the elevated nutrient levels.</p> | | | |
| Cause (or suspected cause) of non-compliance: | | | |
| A geotechnical investigation has determined that the embankment materials are highly sodic and prone to dispersion. | | | |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance: | | | |
| It was reported in the 2016/17 Annual Report that the Water Corporation had raised a single Cycle Maintenance Plan to carry out some civil repairs to the banks of the evaporation ponds. \$50 000 had been budgeted to do this work which was planned to be carried out during the 2017/18 summer months. However upon further inspection and the receipt of contractor quotes, it was determined that an additional \$350 000 to carry out remedial works of the erosion and ensure integrity of the banks. This funding has been approved and it is intended to carry out the works in the 2018/19 summer months. These works are proposed as temporary management of embankment erosion only and further investigations are being undertaken in regard to suitable disposal options. | | | |
| Was this non-compliance previously reported to DER? No | | | |
| <input type="checkbox"/> Yes, and | | | |
| <input type="checkbox"/> Reported to DER verbally | | Date: / / | |
| <input type="checkbox"/> Reported to DER in writing | | Date: / / | |

Section E – Details of Non-Compliance with Licence Condition

Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

| | | | |
|---------------|-------|----------------------------|----------------------|
| Condition no: | 2.2.1 | Date(s) of non-compliance: | 1 July 2017- present |
|---------------|-------|----------------------------|----------------------|

Details of non-compliance:

2.2.1 The Licensee shall undertake the monitoring in Table 2.2.1 according to the specifications in that table.

| Input/Output | Monitoring point reference | Parameter | Units | Averaging period | Frequency |
|---------------------|--------------------------------------|-----------------------------------|---------------------|------------------|------------|
| Sewage - Inlet Flow | Inflow meter (S5000704) ¹ | Volumetric flow rate (cumulative) | m ³ /day | Monthly | Continuous |

Note: Methodology and calculations used to estimate the daily volumetric flow rate of treated wastewater pumped to evaporation ponds

The Flo-Dar inflow meter was installed in February 2016 and was understood to be operating as per manufacturer specifications for the remainder of the 2015/2016 reporting period. It was suspected during the 2016/2017 reporting process that the Flo-Dar was not operating effectively and was in fact over-reading the inflow data. Verification included taking into consideration the number of connections and water consumption within the town of Quairading. During this process it was concluded that the actual inflow figure was 71% of the actual recorded inflow. In the 2017/2018 reporting period the Inflow meter has continued to produce inaccurate results of the same magnitude. Therefore the inflow for Quairading WWTP for the 2017/18 Reporting Period has been estimated at 71% of that recorded which equates to 133kL/day.

What was the actual (or suspected) environmental impact of the non-compliance?

NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

Nil, environmental impact as a result of non-compliance

Cause (or suspected cause) of non-compliance:

Ongoing investigations have been carried out as to why the inflow monitoring equipment is over recording. As reported in the 2016/17 reporting period, a second inflow monitoring instrument has been installed which is also proved to be over-recording. The cause has still not been confirmed.

Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

An external Flow Monitoring contractor has been engaged to assess the location and conditions under which the monitoring devices operate in order to establish why it is over recording inflow. It is anticipated that their results will be received during the 2018/2019 reporting period. If the problem cannot be resolved, it is anticipated that a new inflow monitoring flume will need to be installed.

Was this non-compliance previously reported to DER? No


Yes, and

Reported to DER verbally Date: / /

Reported to DER in writing Date: / /

Section F – Declaration

I/We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular¹. I/We consent to the Annual Audit Compliance Report being published on the Department of Environment Regulation's (DER) website.

| | | | |
|-------------------------------|---|-----------------|--|
| Signature ² : |  | Signature: | |
| Name: (printed) | Mark Leathersich | Name: (printed) | |
| Position: | General Manager Operations | Position: | |
| Date: | 8/8/2018 | Date: | |
| Seal (if signing under seal): | | | |

¹ It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.

² AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.