



Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V Division 3

Once completed, please submit this form either via email to info-der@dwer.wa.gov.au, or to the below postal address:

Department of Water and Environmental Regulation
Locked Bag 10
Joondalup DC, WA, 6919

Section A – Licence Details

Licence number:	L6245/1991/8	Licence file number:	DER2013/001026
Licence holder:	Water Corporation		
Trading as:	Wickham Wastewater Treatment Plant		
ACN:	28 033 434 917		
Registered address:	629 Newcastle Street, LEEDERVILLE, WA 6007		
Reporting period:	01/07/2020 to 30/06/2021		

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	824 m 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 (a)	Date(s) of non-compliance:	February 2020 to December 2020 (as reported in last AACR), then again June 2021
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Details of non-compliance:

Treated wastewater exceeded treatment plant evaporation basin capacity and overflowed (via overflow and spillway) to the adjacent tidal flats following cyclone Damien from February 2020 to December 2020. Minor overflow started again (overflow pipe only) in late June 2021.

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.

A Baseline Assessment (BA) was undertaken for the Wickham WWTP site in 2019 to characterise potential environmental, human health and amenity risks associated with current and historical site operations. The BA involved desk-based review of the environmental attributes of the site to develop a preliminary conceptual site model (CSM). The preliminary CSM identified potentially complete source-pathway-receptor (SPR) linkages relevant to the site and associated data gaps warranting further investigation.

Following completion of the BA, an Environmental Site Assessment (ESA) was undertaken. The objective of the ESA was to collect relevant purpose-driven data to address the identified data gaps in the preliminary CSM understanding, and enable reappraisal of potential risks posed to human health, the environment and environmental values associated with historical and ongoing site operations.

The 2020 ESA comprised the following high-level scope of work:

- Installation of eight groundwater monitoring wells and commencement of a monitoring program (during both wet and dry season conditions)
- Pore water, surface water and sediment monitoring program

Monitoring program results demonstrated that there were multiple lines of evidence to suspect that the site and off-site parcel of land to the east meets the threshold to be reported as suspected contaminated sites.

Cause (or suspected cause) of non-compliance:

The cause of the overflow is as a result of two factors as follows:

1. Continued elevated inflows into the WWTP as a result of groundwater intrusion through cracks in the Wickham vitreous clay sewer conveyance network.
2. Continued decreased tertiary treatment plant treated water consumption as a result of treatment plant issues.

Both of the above are exacerbated during and following rain events.

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

Significant works have been undertaken to rectify both contributing issues and are summarised as follows:

1. Thorough CCTV investigation and conductivity monitoring program of Wickham sewer conveyance network which has determined that there are numerous fractures in the vitreous clay pipes resulting in significant groundwater intrusion.
 - Two projects are now underway to reline Wickham sewer conveyance network,

<p>both are anticipated to be completed by December 2021.</p> <p>2. A works approval has been sought and granted to upgrade the Wickham WWTP. One of the upgrades will include the installation of a DAF to improve feedwater quality to the tertiary treatment plant which should reduce membrane fouling issues and allow improved consistency in the operation (and consequently treated water demand) of the TTP.</p> <p>Completion of both of the above should see a reduction in the volume of treated wastewater being sent to the evaporation ponds, which will allow them to be used as contingency basins and provide some redundancy during rainfall events and TTP shutdowns.</p>	
<p>Was this non-compliance previously reported to DWER?</p>	
<p><input checked="" type="checkbox"/> Yes, and</p>	
<p><input type="checkbox"/> Reported to DWER verbally</p>	<p>Date: / /</p>
<p><input checked="" type="checkbox"/> Reported to DWER in writing</p>	<p>Date: Last AACR and WebEOC notification 22/06/2021</p>

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 (a)	Date(s) of non-compliance:	23/03/2021
Details of non-compliance:			
During site inspection it was noted that there was moisture between storage pond 2 to storage pond 3 indicating a localised pond overtopping.			
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 suggested as this was a flow between treatment ponds and was contained onsite.			
Cause (or suspected cause) of non-compliance:			
Suspected cause of overtopping was a blockage in the transfer pipe between storage pond 2 and 3.			
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:			
Levels in storage pond 2 lowered by opening equaliser valve between storage pond 2 and storage pond 3.			
Was this non-compliance previously reported to DWER?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input type="checkbox"/> Reported to DWER verbally		Date: / /	
<input type="checkbox"/> Reported to DWER 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)		Name: (printed)	
Position:		Position:	
Date:		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.