



Application for Works Approval Amendment

Part V Division 3 of the *Environmental Protection Act 1986*

Works Approval Number	W6581/2021/1
Works Approval Holder	Water Corporation
File Number	DER2021/000423~1
Premises	Woodman Point Water Resource Recovery Facility 837 Cockburn Road HENDERSON 6166 Legal description – Part of Lot 9 on Diagram 31097 As defined by the coordinates in Schedule 2 of the works approval
Date of Report	6 November 2024
Decision	Revised works approval granted

MANAGER WASTE INDUSTRIES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

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1. Decision summary

The Delegated Officer has determined to make amendments to Works Approval W6581/2021/1. The amendments are administrative in nature therefore they do not alter the risk profile of the premises, providing that activities, emissions and receptors as stated in existing approvals remain unchanged.

This Amendment Report documents the amendments made pursuant to section 59 and 59(B) of the *Environmental Protection Act 1986* (EP Act).

The decision report for the existing works approval will remain on the department's website for future reference and will act as a record of the department's decision making.

2. Scope of assessment

2.1 Regulatory framework

In amending the works approval, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at:

<https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary

Works Approval W6581/2021/1 is held by Water Corporation (Works Approval Holder) for the Woodman Point Water Resource Recovery Facility (WRRF) (the premises), located at 837 Cockburn Rd, Henderson. Works Approval W6581/2021/1 relates to an existing prescribed premises operating under Licence L4201/1991/11 and was granted for sludge treatment capacity infrastructure upgrades.

The premises relates to the categories and the assessed design capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in existing Works Approval W6581/2021/1.

On 2 October 2024, the Works Approval Holder submitted an application to the department to amend Works Approval W6581/2021/1 under section 59B of the *Environmental Protection Act 1986* (EP Act). The amendment is limited to minor changes to infrastructure requirements that do not alter the risk profile of the premises.

Prior to construction of the upgrades, the works approval holder's contractor has identified efficiency improvements that can be made to the infrastructure in the previously approved design. As a result, some of the requirements of the works approval will require amendment to incorporate the following changes:

- **Reclaimed Effluent System (RES) Upgrade** – The new main to be installed along the distribution channel and to the new thermal hydrolysis process (THP) area reclaimed effluent tank is no longer required. Hydraulic studies have confirmed that the existing main can be used.
- **Raw Primary Sludge (RPS) Screening Facility** – The sludge screen feed tank is no longer required. A review of hydraulic requirements identified that pumping directly from the sludge pumps to the primary sludge screens is possible. This will avoid the need for the intermediate feed tank which removes an additional source of potential odour emissions and overflows.
- **THP Side Stream Centrate Treatment** – This treatment process is no longer required. A design review has determined the existing secondary treatment system still has buffering capacity to deal with the additional load from the centrate stream while still maintaining the required secondary effluent quality.

- Digested Sludge Dewatering and Unloading Facility – The number and size of the centrifuge and dewatered cake hoppers has been modified through a design optimisation that simplified process equipment controls, while still maintaining the required redundancy. The number of hoppers will be reduced from 6 to 3, while the individual size of each hopper will increase from 90 m³ to 220 m³. This changes the total hopper capacity from 540 m³ to 660 m³ but does not change the overall sewage facility throughput.

Since granting the works approval in 2021, the Delegated Officer has noted that the premises name on the associated licence (L4201/1991/11) has been changed to Woodman Point Water Resource Recovery Facility. It has also been identified that the premises address has been modified through the redescription of locality boundaries. The Delegated Officer will reflect this updated information in the amendments to the works approval.

As the current works approval expires in 2025, the expiry date has been extended to 2027 to facilitate completion of the works.

3. Consultation

The Works Approval Holder was provided with the draft Amendment Report on 16 October 2024. Comments received from the Works Approval Holder on 22 October 2024 have been considered by the Delegated Officer as detailed in Appendix 1.

4. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that an amended works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

4.1 Summary of amendments

Table 1 below provides a summary of the proposed amendments and will act as a record of implemented changes. All proposed changes have been incorporated into the revised works approval as part of the amendment process.

Table 1: Summary of works approval amendments

Condition no.	Proposed amendments
Expiry date	Extended to 17/02/2027
Premises name	The premises name has been changed from <i>Woodman Point Wastewater Treatment Plant</i> to <i>Woodman Point Water Resource Recovery Facility</i>
Premises address	The premises address has been changed to 837 Cockburn Road Henderson, to align with land tenure information supplied by Landgate.
3: Table 1 – Row 1	Removed the requirement for <i>A new main to be installed along the distribution channel and to the new thermal hydrolysis process (THP) area reclaimed effluent tank</i> in relation to the Reclaimed Effluent System Upgrade.
3: Table 1 – Row 3	Removed the requirement for <i>a sludge screen feed tank</i> in relation to the Raw Primary Sludge Screening Facility.
3: Table 1 – Row 9	Removed the THP Side Stream Centrate Treatment Facility infrastructure and all associated requirements. Subsequent table row numbering was updated as a result.

Condition no.	Proposed amendments
3: Table 1 – Row 10 (now 9)	<p>Changed the number of required centrifuge and dewatered cake hoppers from 6 to <i>at least 3</i>.</p> <p>Changed the dewatered sludge hopper storage capacity from an individual volume of 90 m³ to a combined capacity of <i>at least 540 m³</i>.</p>
7: Table 2	Deleted the THP Side Stream Centrate Treatment Facility from the commissioning table.
12: Table 1 – Row 1	Removed the requirement for <i>A new main to be installed along the distribution channel and to the new thermal hydrolysis process (THP) area reclaimed effluent tank</i> in relation to the Reclaimed Effluent System Upgrade.
12: Table 1 – Row 3	Removed the requirement for <i>a sludge screen feed tank</i> in relation to the Raw Primary Sludge Screening Facility.
12: Table 1 – Row 9	Removed the THP Side Stream Centrate Treatment Facility infrastructure and all associated requirements. Subsequent table row numbering was updated as a result.
12: Table 1 – Row 10 (now 9)	<p>Changed the number of required centrifuge and dewatered cake hoppers from 6 to <i>at least 3</i>.</p> <p>Changed the dewatered sludge hopper storage capacity from an individual volume of 90 m³ to a combined capacity of <i>at least 540 m³</i>.</p>

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.

Appendix 1: Summary of Works Approval Holder's comments on draft amendment

Condition	Summary of Works Approval Holder's comment	Department's response
Premises address	The address has been changed to 837 Henderson, though the licence shows as Lot 9 Cockburn Rd, Munster.	<p>The premises street address was changed based on the current information available from the Land Tenure (Restricted) (LGATE-257) layer which is supplied to DWER from Landgate. When the corresponding licence is next amended the updated address will also be included.</p> <p>The premises legal description is still correct and consistent between the works approval and the licence, as this refers only to the lot on diagram number and coordinates table.</p>
3: Table 1 – Row 10 (now 9) Design and construction / installation requirements	<p>Among other things, the third requirement was changed to specify a combined holding capacity of at least 15 days.</p> <p>Please revert this back to a holding capacity of 2.5 days. The 2.5 day holding capacity is not for each hopper and was already a combined capacity.</p>	Reverted.
7: Table 2 – THP Side Stream Centrate Treatment Facility	Please remove line item: <i>THP Side Stream Centrate Treatment Facility</i> , as this is no longer relevant.	Removed.
12: Table 3	Please change this table to reflect the changes made to Table 1.	Table 3 amended to reflect changes to infrastructure and requirements in Table 1.