



Application for Licence Amendment

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

Licence Number	L7882/1991/14
Licence Holder	Water Corporation
ACN	634 169 841
File Number	DER2015/002485-1
Premises	Beenyup Water Resource Recovery Facility Ocean Reef Road Craigie WA 6025 Legal description – Part of Lot 8278 on plan 30778 Deposit plan 404924 As defined by the coordinates in Schedule 2
Date of Report	31 July 2023
Decision	Revised licence granted

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

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1. Decision summary

Licence L7882/1991/14 is held by the Water Corporation (Licence Holder) for the Beenyup Water Resource Recovery Facility (the Premises), located at Part of Lot 8278 on Plan 30778, Ocean Reef Road, Craigie WA 6025

The Delegated Officer has determined to make amendments to Licence L7882/1991/14. The amendments outlined within this amendment report do not alter the risk profile of the Premises. As a result of this assessment, Revised Licence L7882/1991/14 has been granted.

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

The Revised Licence issued as a result of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises. The Revised Licence has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

The Amendment Report for the Existing licence 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 licence, 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

On 13 March 2023, the Licence Holder submitted an application to the department to amend Licence L7882/1991/14 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The amendment is limited only to altering the due date for the environmental report and annual audit compliance report, to be 1 October annually.

The plant has been operating at this premises since 1972. The Lot is bounded by the Mitchell Freeway to the east, Ocean Reef Road to the north, the residential suburb of Craigie to the west and Craigie Open Space, an area of regionally significant bushland, to the south. Water Corporation's Advanced Water Replenishment Plant is located on the same lot immediate north of the premises, and the rest of the Lot contains the Bush Forever site 303 as well as a hardstand area to the north occupied by Water Corporation's construction branch.

The geology of the site is generally made up of Bassendean sands over Tamala Limestone. A large stretch of the Quindalup dune system occurs along the western margin of the site. The Perth Groundwater Atlas indicates the historical maximum water table level at the site is at 4.0m AHD, corresponding to 17-19m below current ground level. A dissipation test at the site indicated that the water table was present at 18.1m below ground level (3.6m AHD) (Worley Parsons, 2007); therefore, interference of plant structural and civil elements by groundwater is not expected.

Sewage enters the plant via pipelines. After screening, the wastewater flows into circular grit removal tanks, aerated to allow the inorganic material to settle and the organic material to pass through very slowly to large rectangular primary sedimentation tanks allowing about 50 per cent of the suspended solids to settle out as sludge. Sludge is collected by scraper mechanism and pumped to the solids handling area for thickening and digestion. The treated wastewater leaving the primary tanks called primary treated wastewater passes to secondary treatment tanks. Secondary treatment is achieved in aeration tanks by the activated sludge process. Following

aeration, the treated wastewater passes slowly through circular clarifiers in which the activated sludge settles leaving a high quality secondary effluent. The settled sludge containing micro-organisms is rapidly removed using scrapers and is returned to the aeration tanks.

Solids removed from the primary sedimentation tanks and excess solids produced by the activated sludge process are thickened and fed to the anaerobic digesters. Following digestion, the sludge is mechanically dewatered to produce a biosolid suitable for use as a soil conditioner.

Secondary treated wastewater flows by gravity to the Indian Ocean in the vicinity of the Marmion Marine Park and is discharged into 10 metres of water via two outlets, one 1850 metres and the other one 1650 metres offshore, where it is rapidly diluted and dispersed. This is regulated by Ministerial Statement 382.

The main emission from the premises is odour. Odorous air is extracted from the inlet works, primary tanks, secondary treatment tanks and sludge storage facilities, sludge loading and unloading area, and passed through activated carbon, a biological and chemical scrubber vented to a 50 meter stack.

This Licence is the result of an amendment to adjust the premises boundary to the physical boundary of the treatment plant rather than the entire Lot 8278. The licence has also been converted to the new format for consistency with other Water Corporation licences. Changes have been made in relation to definitions and controlled waste codes. This amendment does result in any alteration of discharges, emissions or processes at the premises but does extend the expiry date of the instrument.

The premise is subject to Ministerial Statement 382 and this licence does not duplicate any conditions of this statement.

No changes to the aspects of the Existing Licence relating to Category 54 and Category 61 have been requested by the Licence Holder. Table 1 below outlines the current approved production/design capacity for the Premises.

Table 1: Approved production capacity

Category	Approved design capacity
Category 54 Sewage facility: premises — (a) on which sewage is treated (excluding septic tanks); or (b) from which treated sewage is discharged onto land or into waters.	135,000 m ³ per day
Category 61: Liquid waste facility: premises on which liquid waste produced on other premises (other than sewage waste) is stored, reprocessed, treated or irrigated.	50,000 tonnes per annual period

2.3 Consolidation of Licence

As part of this amendment package the department has consolidated the licence by incorporating changes made under the Amendment Notices as summarised in Table 2.

Table 2: Licenses consolidated in this amendment.

Instrument	Issued	Summary of approval
L7882/1991/14	01/11/2011	Licence granted
L7882/1991/14	26/04/2016	Notice of Amendment of Licence Expiry Dates to 31 October 2024. This amendment is considered invalid, as under section 59(1)(k) of the EP Act the CEO may amend a licence by extending the duration of the licence, not reducing the duration. The expiry date of 31 October 2031 remains valid.
L7882/1991/14	16/02/2017	Licence amendment notice to upgrade to sludge treatment facilities at the WWTP with the construction of a new screening and thickening facility and removal of Part IV/V regulatory duplication.
L7882/1991/14	31/07/2023	Amendment to altering the due date for the environmental report and annual audit compliance report, to be 1 October annually.

The obligations of the Licence Holder have not changed in consolidating the licence. The department has not undertaken any additional risk assessment of the Premises related to previous Amendment Notices.

In consolidating the licence, the CEO has:

- updated the format and appearance of the Licence;
- deleted the redundant AACR form set out in schedule 1 of the previous licence and advise the Licensee to obtain the form from the department's website;
- revised licence condition's numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The full consolidation of licence conditions as they relate to this Revised Licence are detailed in Section 4.1. Previously issued Amendment Notices will remain on the department's website for future reference and will act as a record of the department's decision making.

3. Consultation

The Licence Holder was provided with the draft Amendment Report on 02 June 2023. Comments received from the Licence Holder on 30 June 2023 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 a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

4.1 Summary of amendments

Table 3 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 Licence as part of the amendment process.

Table 3: Summary of licence amendments

Revised licence condition	Existing condition	Conversion notes
Cover page	Cover page	Clerical error identified in the year of the Licence number. Corrected to read L7882/1991/14. ACN added. Updated to correct premises legal description. Updated premises name to be ‘Woodman Point Water Resource Recovery Facility’. Eastings and Northings moved to Schedule 2 Table 14 as per current licencing format. Content, Introduction and Severance deleted and replaced with Interpretation as per current licencing format.
N/A	1.1.1	Revised to current licencing format.
Condition 1, Table 1	1.2,1 Table 1.2.1.	New numbering and revised to current licencing format.
Condition 2, Table 2	Condition 1.2.2. Table 1.2.2	New numbering and revised to current licencing format.
Condition 3, Table 3	Condition 1.2.3, Table 1.2.3.	Updated in accordance with Amendment Notice 1 (16/02/2017). New numbering and revised to current licencing format.
Condition 4	Condition 1.2.4	New numbering and revised to current licencing format.
Condition 5, Table 4	Condition 1.2.5 Table 1.2.4	Added in accordance with Amendment Notice 1 (16/02/2017). New numbering and revised to current licencing format.
Condition 6	Condition 1.2.6	
Condition 7	Condition 1.2.7	
Condition 8 Table 5	Condition 1.2.8 Table 1.2.5	
Condition 9	Condition 1.2.9	

Condition 10, Table 6	Condition 2.1.1, Table 2.1.1.	New numbering and revised to current licensing format.
Condition 11, Table 7	Condition 2.1.2. Table 2.1.2	The Hydrogen Sulphide limit in Table 7 has been amended from 0.20g/s at STP dry and 0.19g/s STP dry to 200mg/s at STP dry and 190mg/s STP dry respectively as a request by the licence holder. New numbering and revised to current licensing format.
Condition 12	Condition 2.1.3	New numbering and revised to current licensing format.
N/A	Condition 2.2.1, Table 2.2.1.	Deleted from Licence in accordance with Amendment Notice 1 (16/02/2017)
Condition 13	Condition 3.1.1.	New numbering and revised to current licensing format.
Condition 14	Condition 3.1.2.	New numbering and revised to current licensing format.
Condition 15, Table 8	Condition 3.2.1, Table 3.2.1.	The unit for the Hydrogen Sulphate in Table 8 has been amended to ppm as a request by the licence holder. New numbering and revised to current licensing format.
Condition 16	Condition 3.2.2	New numbering and revised to current licensing format.
Condition 17	Condition 3.2.3	New numbering and revised to current licensing format.
Condition 18	Condition 3.2.4	New numbering and revised to current licensing format.
N/A	Condition 3.3.1, Table 3.3.1.	Deleted from Licence in accordance with Amendment Notice 1 (16/02/2017)
Condition 19 Table 9	Condition 3.4.1, Table 3.4.1.	Flow meter reference of FT201 and unit of L/s has been deleted from the Table 9 as a request by the licence holder. New numbering and revised to current licensing format.
Condition 20	Condition 4.1.1.	New numbering and revised to current licensing format.
Condition 21	Condition 4.1.3	New numbering and revised to current licensing format.
Condition 22	Condition 4.1.2	Condition reworded and updated to change the AACR reporting submission date to 1 October annually.

Condition 23	Condition 4.2.1.	Condition reworded and updated to change the AER reporting submission date to 1 October annually. The requirements of condition 4.2.2 of the previous licence have been added to Table 11 as per current licensing format. Condition 3.3.1 deleted from the Table in accordance with Amendment Notice 1 (16/02/2017)
N/A	Condition 4.2.2.	Deleted. Requirements incorporated into Condition 23 Table 11.
Condition 24, Table 11	Condition 4.2.3, Table 4.2.2.	New numbering and revised to current licensing format.
Condition 25, Table 12	Condition 4.3.1, Table 4.3.1.	New numbering and revised to current licensing format.
Definitions Table	1.1.2	New numbering and revised to current licensing format to add definitions for approved form, CEO and condition. Definitions for damp and sludge screening and thickening facility added in accordance with Amendment Notice 1 (16/02/2017).
Schedule 1: Maps	Schedule 1 Maps	Added Figure 4, Engineering design and schematic of the general arrangement of infrastructure at the proposed Sludge Screening and Thickening Facility in accordance with Amendment Notice 1 (16/02/2017)
Schedule 2: Premises boundary	N/A	Premises boundary coordinates moved to Schedule 2, Table 14
Schedule 3: Form	Schedule 2	Annual Audit Compliance Report Proforma removed as considered redundant.

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 Licence Holder's comments on draft amendment

Condition	Summary of Licence Holder's comment	Department's response
Condition 1	Licence Holder requested to correct administrative error in condition 1	The Delegated Officer agrees to update the condition as requested.
	Licence Holder requested to amend Table 1 of the licence to include K130 waste type as a part of Sewage waste type and allow septage waste (K210) acceptance limit up to 50,00 tonnes/ annual period.	Licence Holder's requested changes do not fall into the scope of this administrative amendment. Water Corporation are requested to seek these changes under another amendment application where the proposed changes can be risk assessed.
Condition 5,6,7,8, and 9	Licence Holder requested to remove condition 5,6,7,8 and 9 from the licence which were added in accordance with Amendment Notice 1 (16/02/2017) for the construction of the sludge screening and thickening facility. This construction is complete.	In accordance with condition 7 the licence holder is required to submit a compliance document to DWER following the construction of the works. This document is required for DWER to determine compliance with the conditions. As such, conditions 5 to 9 of the licence cannot be removed as requested.
Condition 11	Licence Holder requested to convert The Hydrogen Sulphide limit in Table 7 from 0.20g/s at STPdry and 0.19g/s STP dry to 200 mg/s at STP dry and 190 mg/s STP dry respectively.	The Delegated Officer agrees to update the condition as requested.
Condition 15	Licence Holder requested to update unit for the Hydrogen Sulphate in Table 8 to ppm.	The Delegated Officer agrees to update the condition as requested.
Condition 19	Licence Holder requested to delete flow meter reference of FT201 and unit of L/s from the Table 9.	The Delegated Officer agrees to update the condition as requested.