



Application for Licence Amendment

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

Licence Number	L6271/1991/10
Licence Holder	Water Corporation
File Number	DWERVT16656
Premises	<p>Fitzroy Crossing Wastewater Treatment Plant</p> <p>Crown Reserve 40827</p> <p>Lot 36 Great Northern Highway</p> <p>FITZROY CROSSING WA 6765</p> <p>As defined by the Premises maps attached to the Revised Licence</p>
Date of Report	19 August 2025
Decision	Revised licence granted

STEPHEN CHECKER

MANAGER, WASTE INDUSTRIES

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

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1. Decision summary

Licence L6271/1991/10 is held by the Water Corporation (Licence Holder) for the Fitzroy Crossing Wastewater Treatment Plant (the Premises), located at Lot 36 Great Northern Highway, Fitzroy Crossing WA 6765

The Delegated Officer has determined to make amendments to Licence L6271/1991/10. The amendments outlined within this amendment report do not alter the risk profile of the Premises. As a result of this assessment, Revised Licence L6271/1991/10 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).

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, 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 Amendment summary

On 14 February 2025, the Licence Holder submitted an application to the department to amend Licence L6271/1991/10 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The Licence Holder is seeking approval to:

- Removing any reference to the five deep monitoring bores in condition 1, installed 30 metres below the superficial aquifer;
- removing groundwater quality targets and any reference to the five monitoring bores to be removed from the licence in table 7;
- amend table 8 to remove the requirement to notify DWER of any actions taken for any exceedances of groundwater quality targets should targets be removed from the licence;
- amend table 8 to remove the requirement for the annual environment report to include an Annual Audit Compliance Report (AACR), to avoid duplication of condition 17;
- amend table 9 to remove any reference to target exceedance in table 7, and reporting required using the form provided in schedule 2 if groundwater quality targets are removed from the licence;
- amend table 10 to remove the requirement to notify DWER for breach of any limit specified in the licence, and any reference to the form in schedule 2 as note 2, if groundwater quality targets are removed from the licence; and
- amend the reporting timeframe to DWER in relation to any failure or malfunction of any pollution control equipment or any incident, required in table 10.

2.3 Premises operations

The Fitzroy Crossing Wastewater Treatment Plant (WWTP) is an existing sewage facility currently operated by Water Corporation (WC) under DWER licence L6271/1991/10. The WWTP has a design capacity of 700 m³/day and receives approximately 400 m³/day of reticulated sewage from the town of Fitzroy Crossing.

The Fitzroy Crossing WWTP is located approximately 2.5 km south-west of the town of Fitzroy Crossing on Reserve 40827, Great Northern Highway. The WWTP is also located approximately

300 m south of the Fitzroy River, a sensitive receptor with important ecological and heritage values.

Site infrastructure includes one primary facultative treatment pond, one secondary maturation pond, one tertiary maturation pond, two evaporation/infiltration ponds and a recently constructed sludge drying bed. Treated wastewater (TWW) is disposed of via a combination of evaporation and infiltration.

The Licence Holder constructed a second 18ML storage / infiltration pond to increase the effectiveness of the treatment and infiltration system and enable the plant to achieve its licensed production design capacity of 700 m³/day. The second infiltration pond was assessed and approved under works approval W5315/2012/1.

The Fitzroy River and its floodplain are considered to be of high ecological value.

Quarterly sampling and analysis of 10 groundwater are carried out to monitor the quality of the groundwater and allow ongoing assessment of the potential impacts to the surrounding environment from increased infiltration of treated wastewater. Target values are set for Total Nitrogen and Total Phosphorus levels in groundwater around the WWTP, to trigger a management response should these parameters become elevated.

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

Table 1: Approved design 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.	700 m ³ per day

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

3.1 Source-pathways and receptors

Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this Amendment Report are detailed in

Table 2 below.

Table 2 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

Table 2: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Odour	Operation of the Fitzroy Crossing WWTP and the filtration ponds	Air/windborne pathway	<p>No additional controls provided.</p> <p>However, The Delegated Officer is aware that no incidents or complaints related to odour have been registered.</p> <p>The Delegated Officer is also aware that the provisions of section 49 of the EP Act is sufficient to regulate odour during operation.</p>
Rupture of pipes, operation of infiltration ponds, overtopping of ponds resulting in sewage discharge to land and water	Operation of the Fitzroy Crossing WWTP	Contamination of surface water body and infiltration to groundwater	<p>No change to existing controls for managing discharge.</p> <p><u>Applicable controls from the existing Licence:</u></p> <p>Licence condition 4, table 1 restricts how sewage should be received.</p> <p>Licence condition 5, table 2 ensures how waste should be processed and stored onsite.</p> <p>Licence condition 6, table 3 ensures that wastewater are stored and treated within vessels that has a permeability of less than 10^{-9} m/s or equivalent.</p> <p>Licence condition 7 ensures that no overtopping of the ponds will occur except for in extreme weather events, 300mm free board is maintained, trapped overflows are maintained on the outlet of ponds and vegetation and floating debris (emergent or otherwise) are prevented from encroaching onto pond surfaces or inner pond embankments.</p>
Discharges to water	Operation of infiltration pond	There may be indirect discharges to the Fitzroy River via infiltration of treated wastewater. Groundwater flows beneath the WWTP are in a	<p>No additional controls provided - as per the existing licence.</p> <p>No change to existing controls for managing discharge.</p> <p><u>Applicable controls from the existing Licence:</u></p> <p>Licence condition 17, ensures that the licence holder undertakes quarterly</p>

Emission	Sources	Potential pathways	Proposed controls
		<i>north-westerly direction therefore any infiltration intersecting groundwater may find its way into the river.</i>	<p><i>groundwater monitoring around the WWTP and target trigger values for TN and TP ensures the risk of impacts is appropriately monitored and mitigated as required.</i></p> <p><i>Licence condition 22 requires further investigation for any exceedance of trigger values and reporting of the likely impacts on the surrounding environment as a result of elevated nutrients in groundwater around the WWTP to the CEO.</i></p>

Licence Holder requested changes

Groundwater monitoring bores and quality targets

The following information has been summarised from the application:

As part of this amendment process the Licence Holder provided a report in relation to an Environmental Site Assessment (Senversa, 2022) commissioned between September 2020 and April 2021 to better understand environmental and human health risks associated with site operations. The implemented scope of works undertaken between September 2020 and April 2021 were as follows:

- a transect of three shallow monitoring bores closer to the river (1S/20-3S/20), 100 m to 175 m north-west of monitoring bores 01/10, 02/10, 07/10, 08/10, 09/10 and 10/10,
- installed; new and existing groundwater bores were gauged and sampled in October 2020 (post dry season) and April 2021 (post wet season);
- and three surface water samples from the Fitzroy River in April 2021 were collected.

Findings

TN concentrations in groundwater ranged between 0.1 mg/L and 2.4 mg/L adjacent to the treatment ponds and between 2.1 mg/L and 9.4 mg/L in the bores closer to the river under end of dry season conditions in October 2020 (refer to figure 1 below).

Under end of wet season conditions in April 2021, TN concentrations ranged between 0.4 mg/L and 2.2 mg/L adjacent to the treatment ponds and between 0.1 mg/L and 20.5 mg/L in the bores closer to the river (refer to figure 1 below).

According to the licence holder higher concentrations closer to the river potentially indicates another nutrient source (suspected to be the riparian vegetation) between the WWTP and the Fitzroy River.

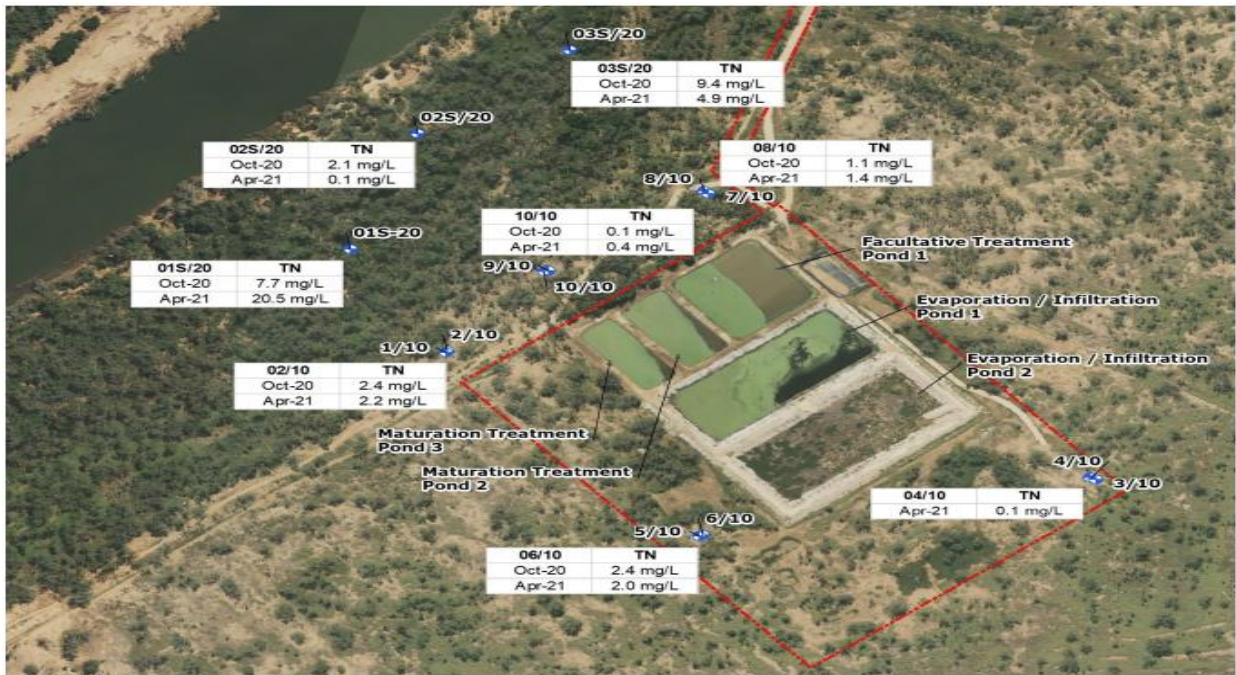


Figure 1: TN concentrations (mg/L) in shallow monitoring bores

The Licence Holder also provided water quality results from the monitoring wells to verify that nutrients at all deep monitoring wells remained low and below the groundwater between 2017 and 2024, with only two exceedances of the nitrate + ammonium N target in January and July 2022 and which have since stabilised. This according to the licence holder is showing that treated wastewater is unlikely to infiltrate 30 m into the groundwater to impact the deep portion of the alluvial aquifer.

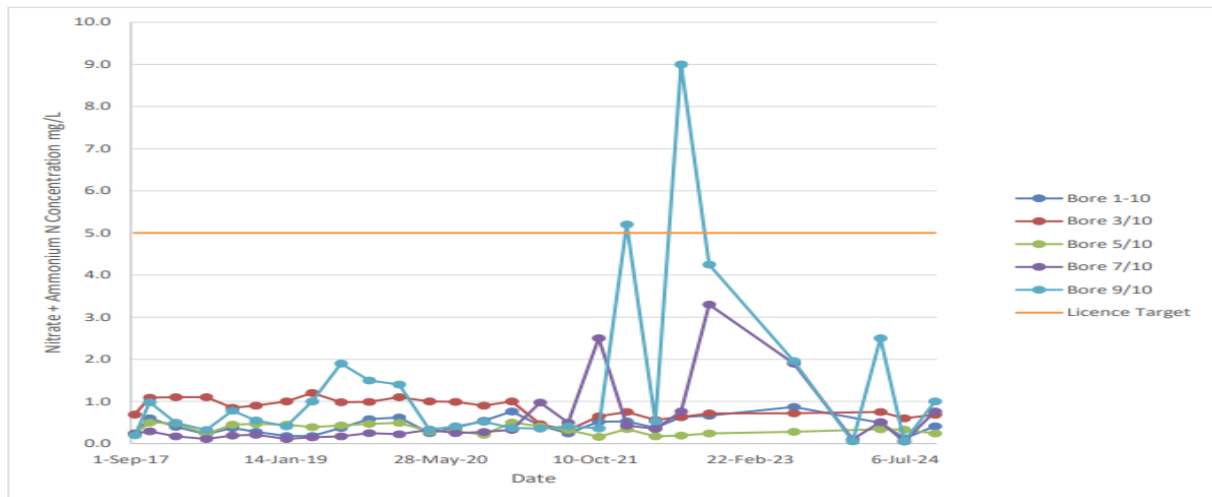


Figure 2: Nitrate + Ammonium N concentrations in deep bores

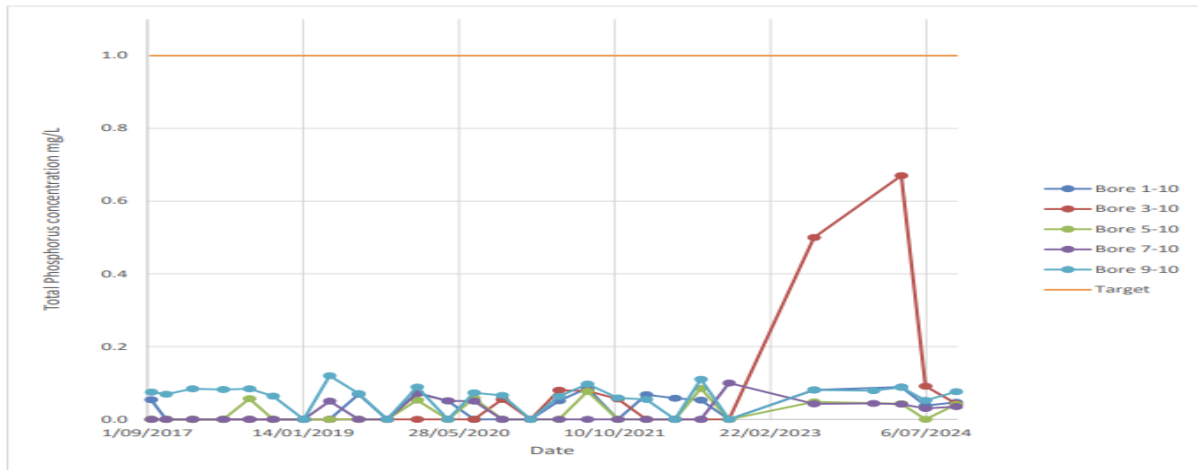


Figure 3: Total Phosphorous concentrations in deep bores

Department assessment

The delegated officer requested advice from the department's Contaminated Sites Branch (CSB) on the groundwater monitoring results, findings from the study and the request to remove the requirement for monitoring from the five deep bores and removal of water quality targets from the licence.

A Technical Expert Report was prepared by the Department's Contaminated Sites Branch, which included a review of the documentation provided to the Department.

Key findings

The Delegated Officer has reviewed the information regarding the Premises in the Department's Technical Expert Report and has found that:

- *It would be acceptable to remove the five bores that are not monitoring the alluvial aquifer from the licence for the WWTP.*
- *Depending on the results that are obtained from ongoing monitoring at the site, there may be a need in the future to include additional monitoring bores downgradient of the WWTP under provisions of the Contaminated Sites Act, 2003.*

Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 3 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

Table 3: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Nearest residential receptor	Approximately 600m from the boundary.
Town of Fitzroy Crossing	Located approximately 2.5km south-west

Environmental receptors	Distance from prescribed activity
Fitzroy River	<i>Approximately 300m west</i>
Groundwater	<i>Located 9.8m to 11.5m below ground level at the WWTP site</i>
Fauna	
Priority 2 fish – Prince Regent Hardyhead	<i>Found to inhabit the Fitzroy River</i>

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

The Revised Licence L6271 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. Category 54 activities.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

Table 4. Risk assessment of potential emissions and discharges from the Premises during operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
Operation								
Cat 54: WWTP	Odour	Air/windborne pathway causing impacts to health and amenity	The nearest residences are located approximately 600m away to the north-west and north-east.	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	No change to existing controls for managing discharge. Refer to Section 3.1	N/A General provisions in the EP Act apply regarding Pollution and Environmental Harm.
	Rupture of pipes, operation of infiltration ponds, overtopping of ponds resulting in sewage discharge to land and water	Overland flow resulting in soil contamination, seepage and groundwater discharge, reducing groundwater quality. Groundwater flows beneath the WWTP are in a north-westerly direction therefore any infiltration intersecting groundwater may find its way into the river.	Groundwater is located 9.8m to 11.5mbgl Fitzroy River, a sensitive ecological receptor which is located 300m west.	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	N	No change to existing controls for managing discharge. Refer to Section 3.1 <u>Condition 1, 17 amended to remove monitoring of 5 deep bores</u>	N/A General provisions in the EP Act apply regarding Pollution and Environmental Harm.
	Operation of the infiltration ponds resulting in indirect discharge to	Infiltration and groundwater recharge. Groundwater flows beneath the WWTP are in a north-westerly	Groundwater is located 9.8m to 11.5mbgl Fitzroy River, a sensitive ecological	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	No change to existing controls for managing discharge. Refer to Section 3.1	N/A General provisions in the EP Act apply regarding Pollution and Environmental Harm.

Licence: L6271/1991/10

Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
	<i>Fitzroy River.</i>	<i>direction therefore any infiltration intersecting groundwater may find its way into the river. potentially causing ecosystem disturbance or impacting Fitzroy river water quality</i>	<i>receptor which is located 300m west.</i>				<u>Condition 1, 17 amended to remove monitoring of 5 deep bores</u>	

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Licence Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

3.3 Detailed risk assessment – Seepage from the Premises (removal of ground water quality targets)

General hazard characterisation and impact

Seepage of wastewater from the Fitzroy Crossing WWTP storage and treatment ponds release a range of contaminants into the environment. The WWTP includes a series of ponds with unknown permeability coefficient which results in the loss of wastewater through seepage. According to the licence, the facultative pond is clay lined to achieve a target permeability of 1×10^{-9} m/s (or equivalent), whilst the maturation ponds are lined with compacted in-situ soils.

The evaporation/infiltration ponds are unlined. Indirect discharges of treated wastewater via seepage / infiltration to land and subsequently, via groundwater flow, to the Fitzroy River from the Fitzroy Crossing WWTP is likely to occur over time. Groundwater flows in a north-westerly direction, towards the Fitzroy River, a sensitive receptor with important ecological and heritage values, located only 300 m from the WWTP.

The key contaminants of concern from wastewater seepage include nitrogen and phosphorus. This is due to the close proximity of Fitzroy River and the potential ecological impacts from seepage, particularly with respect to fauna inhabiting the hyporheic zone beneath the riverbed.

The Licence Holder undertakes groundwater monitoring within the vicinity of the WWTP as part of Existing Licence conditions.

Criteria for assessment

The ANZECC & ARMCANZ (2000) guidelines provide default trigger levels for a range of parameters. Groundwater is found at depths ranging from 20 to 23m below ground level (mBGL). Monthly analysis of groundwater from 10 monitoring bores are carried out.

Analysis of groundwater from 10 monitoring bores around the WWTP between 2014 and 2022, indicate that groundwater monitoring bores are likely to be intercepting treated wastewater seeping from the existing infiltration pond.

There were two trigger exceedances reported during the 2023-2024 reporting period for Total Phosphorous in bores 8/10 and 10/10 in January 2024. While one trigger exceedance was reported during the 2022-2023 reporting period for Ammonium-Nitrogen in bore 9/10.

Groundwater monitoring undertaken by Water corporation during the 2015-2016 environmental monitoring period also shows that Bores 1/10, 7/10 and 9/10 exceeded the targets for Phosphorous, Nitrate + Ammonium in October and January.

Licence Holder controls

This assessment has reviewed the controls set out in Table 5 below.

Table 5: Licence Holder infrastructure controls for seepage of wastewater

Site Infrastructure	Description	Reference to Licence Plan
Infrastructure controls for seepage of wastewater		
<i>Pond 1 (facultative pond)</i>	<i>Clay lined to achieve a permeability of less than 10^{-9} m/s or equivalent</i>	<i>Site Plan – containment</i>
<i>Pond 2 (maturation pond)</i>	<i>Lined with compacted in-situ soils unknown permeability coefficient</i>	

<i>Pond 3 (maturation pond)</i>	<i>Lined with compacted in-situ soils unknown permeability coefficient</i>	<i>infrastructure</i>
<i>Evaporation/infiltration ponds</i>	<i>Unlined</i>	
<i>Sewage sludge compound</i>	<i>Bunded hardstand area (lined to achieve a permeability of less than 10-9 m/s or equivalent), capable of preventing surface runoff of leachate and sludge and which includes a leachate collection system</i>	
Operational controls – Monitoring of groundwater		
<i>Monitoring bores</i> <i>1/10; 2/10; 3/10; 4/10;</i> <i>5/10; 6/10; 7/10; 8/10;</i> <i>9/10; and 10/10.</i>	<i>The following parameters are monitored on a quarterly basis:</i> <ul style="list-style-type: none">• <i>Standing water level</i>• <i>Biological oxygen demand</i>• <i>Total Dissolved Solids</i>• <i>Total Suspended Solids</i>• <i>Total Nitrogen</i>• <i>Ammonium-Nitrogen</i>• <i>Nitrate + Nitrite-Nitrogen</i>• <i>Total Phosphorus</i>• <i>Standing Water Level</i>• <i>pH</i>• <i>Escherichia coli</i>	<i>Map of emission points and monitoring locations</i>
<i>Monitoring bores</i> <i>1/10; 2/10; 3/10; 4/10;</i> <i>5/10; 6/10; 7/10; 8/10;</i> <i>9/10; and 10/10.</i>	<i>Groundwater monitoring target trigger values of 5mg/L for TN and 1mg/L for TP</i> <i>are also in operating licence L6271/1991/10 to trigger investigation of the cause of any exceedances and submission of a report to DWER detailing the likelihood of impacts as a result of the exceedance.</i>	

The Delegated Officer has reviewed the information regarding the Premises in the Department's Technical Expert Report and has found that:

- *Port Fitzroy River (Aboriginal Heritage Site) is only located 300m from the WWTP and groundwater flows towards it.*
- *Trigger values would be required to initiate a management response in the event that concentrations of specific contaminants show large increases in monitoring bores, which would have the potential to affect aquatic fauna in the Fitzroy River in the zone where groundwater discharge from the WWTP takes place.*
- *The hyporheic zone is a critical habitat for a range of aquatic and semi-aquatic organisms, where porewater may contain elevated concentrations of contaminants,*

irrespective of river flow events.

- *Supporting information provided with the application did not consider the potential impact of these contaminants on the fauna that live in the hyporheic zone beneath the riverbed, where porewater concentrations of contaminants would potentially be unaffected by river flow-events when surface water concentrations are diluted.*
- *Groundwater targets remain a relevant and practical means of monitoring potential contaminant migration and to ensure comprehensive environmental protection.*

Consequence

Based upon the potential ecological impacts associated with exposure to high contaminant levels, particularly with respect to fauna inhabiting the hyporheic zone, the Delegated Officer has determined that if contaminants such as Nitrogen and Phosphorous exceed the ambient levels, it may have the potential to affect aquatic fauna in the Fitzroy River (noting presence of Priority 2 fish). Therefore, the Delegated Officer considers the consequence to be **Moderate**.

Likelihood of consequences

The Delegated Officer has taken into consideration other sources of nitrogen which enter Fitzroy River and based upon the Licence Holder controls, the Delegated Officer has determined that the likelihood of seepage from the WWTP could occur at some time. Therefore, the Delegated Officer considers the likelihood rating to be **Possible**.

Overall rating

The Delegated Officer has compared the consequence and likelihood ratings described above and determined that the overall rating of risks associated with seepage from the Premises on sensitive receptors during operation is Medium. Therefore, the Delegated Officer considers the timely investigation of elevated groundwater elevations is appropriate for managing potential impacts and the request to remove ground water targets **NOT GRANTED**.

4. Consultation

Table 66 provides a summary of the consultation undertaken by the department.

Table 6: Consultation

Consultation method	Comments received	Department response
<i>Department of Health advised of proposal on 22/04/2025.</i>	<i>The Department of Health replied on 15/05/2025 advising, no objection to the proposal, subject to ensuring the wastewater treatment plant complies with the Department's legislative requirements.</i>	<i>Noted</i>
<i>Licence Holder was provided with draft amendment on 29/05/2025</i>	<i>Either: N/A or Refer to Appendix 1</i>	<i>Either: N/A or Refer to Appendix 1</i>

5. Decision

Based on the assessment in this Amendment Report, the Delegated Officer has determined that the requested licence amendment will be granted in part, and a Revised Licence will be issued, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

The Delegated Officer has also determined based on the Technical Expert Report from the Contaminated Sites Branch, that trigger values would be required to initiate a management response in the event that concentrations of specific contaminants show large increases in monitoring bores which would have the potential to affect aquatic fauna in the zone where groundwater discharge from the WWTP takes place.

5.1 Summary of amendments

Table 77 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 7: Summary of licence amendments

Revised licence condition	Previous licence condition	Amendment notes
Cover page	Cover page	DWER file number updated.
Condition 1	Condition 1	Removed any reference to the five deep monitoring bores, 1/10, 3/10, 5/10, 7/10, 9/10. Request granted
N/A	Condition 2	Redundant condition. Deleted from licence.
N/A	Condition 3	Redundant condition. Deleted from licence.
Condition 2	Condition 4	New numbering. Updated and revised to current licensing format.
Condition 15 Table 7	Condition 17	New numbering. Removed any reference to the five deep monitoring bores from the licence, 1/10, 3/10, 5/10, 7/10, 9/10. Table 7 has been updated by removing the requirement to monitor the deep groundwater monitoring bores. Request to remove targets from Table 7 – not granted.
Condition 16	Condition 18	New numbering. Condition wording revised to current standard condition wording.
Condition 17 Table 8	Condition 19	New numbering. Table 8 updated to current licensing format. AACR form accessed at www.dwer.wa.gov.au . Request to remove the requirement to notify DWER of any actions taken for any exceedances of groundwater quality targets should targets be removed from the licence – not granted, groundwater quality targets will remain.

Revised licence condition	Previous licence condition	Amendment notes
		<i>Request to remove reporting requirement for an AACR from Table 8 – not granted.</i>
Condition 20 Table 9	Condition 22	<i>Request to remove any reference to target exceedance in table 7, and reporting required using the form provided in schedule 2 – not granted</i>
Condition 21 Table 10	Condition 23	<i>Request to remove the requirement to notify DWER for breach of any limit specified in the licence, and any reference to the form in schedule 2 under note 2, if groundwater quality targets are removed from the licence – not granted, groundwater quality targets will remain.</i>
Condition 21 Table 10	Condition 23	Table updated as requested. <i>Request to amend the reporting timeframe to DWER in relation to any failure or malfunction of any pollution control equipment or any incident, required in table 10 – granted.</i>
Schedule 1: Maps	Schedule 1: Maps	New map showing the boundary of the prescribed premises New map of emission points and monitoring locations updated to reflect the changes requested.
Schedule 2 Reporting & notification forms	N1 form retained	N1 form updated to new format. <i>Request to remove reporting requirement for an AACR from Table 8 – not granted.</i>

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 risk assessment and draft conditions

Condition	Summary of Licence Holder's comment	Department's response
Condition 4: Table 3	Typographical changes requested. Amend Table 4 to reference the containment infrastructure correctly.	Changes implemented
Condition 7: Table 4 and figure 2	Revise figure 2 to include only the monitoring points detailed in Table 4 for clarity and consistency. An updated map was provided by the licence holder.	Changes implemented
Condition 18: Table 8	Cross referencing typographical error noted. Amend Table 8 to correctly reference the monitoring tables for clarity and consistency.	The Delegated Officer has reviewed table 8 regarding any cross-referencing error with the corresponding monitoring tables. No cross-referencing errors were identified in table 8. Request not adopted.
Condition 18: Table 8	Row 5. Typographical changes requested. There is no table 3.5.1 in the draft licence. Amend Table 8 to reference the correct monitoring table (5) for clarity and consistency.	Changes implemented. Changed to Table 5.
Condition 22 (d)	Cross referencing typographical error noted. Monitoring of emissions to land, inputs and outputs and ambient groundwater are required under conditions 13, 14 and 15, not conditions 15, 16 and 17 in the draft licence.	Corrected
Condition 22 (e)	Cross referencing typographical error noted. Complaints management is condition 16 not condition 18.	Corrected

Condition	Summary of Licence Holder's comment	Department's response
Condition 23	Cross referencing typographical error noted. Condition 22 requires books to be maintained.	Corrected
Table 7	Typographical changes requested. According to the licence holder, under Licence history it advises that the amendment includes removing groundwater quality targets from the licence & removing any reference to groundwater quality targets and reporting using forms in schedule 2. However, groundwater quality targets remain for bores 2/10, 8/10 and 10/10 and therefore should be removed.	Not implemented. Groundwater quality targets will remain. The delegated officer also agrees that any reference in the licence history table to the removal of groundwater quality targets from the licence, and to the removal of reporting forms in Schedule 2, should not be included, as these requests were not granted.
Table 8	Typographical changes requested. Request to remove any reference to reporting required using the form provided in schedule 2	Request not adopted.
Table 9	Typographical changes requested.	Changes implemented as requested.
Schedule 1 - Maps	New Map Figure 2 provided by the licence holder showing emission points and ground water monitoring bores.	Revised map added to the licence.
Condition numbering	Check and renumber all condition in the draft licence.	Noted

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY					
Application type					
New works approval	<input type="checkbox"/>				
New licence	<input type="checkbox"/>	Relevant works approval number		None	<input type="checkbox"/>
Renewal of an existing licence	<input type="checkbox"/>	Current licence number			
Amendment to an existing works approval	<input type="checkbox"/>	Current works approval number			
Amendment to an existing licence	<input type="checkbox"/>	Current licence number	L6271/1991/10		
		Relevant works approval number		None	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number		None	<input type="checkbox"/>
Date application received	14 February 2025				
Compliance reporting					
NA					
<p>Has the required compliance report(s) been received?</p> <p>Compliance reports may include: environmental compliance report (ECR), critical containment infrastructure report (CCIR), environmental commissioning report, time limited operation report and/or any other reporting that may be relevant for the scope of the licence or licence amendment.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></p>		<p>HPCM No:</p> <p>Date received:</p> <p>Compliance demonstrated?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Date compliant:</p> <p>If no, input the outcome of discussion with the Delegated Officer.</p> <p>If there are multiple compliance reports required, fill out the above for each report individually.</p>		
Applicant and premises details					
Applicant name/s (full legal name/s)	Water Corporation				
<p>Does the following information in the application form match those listed in the current ASIC company extract?</p> <p>Check the Completion Matrix in the application form to determine whether an</p>	<p>Applicant name/s (full legal names):</p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>		<p>Trading name (if applicable):</p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/></p> <p>If a 'trading name' has been specified for the application, then the ACN listed here needs to match the ASIC current company extract for the listed 'trading name'.</p> <p>If the applicant has a trading name, then both the full legal name and trading name should be captured within the Decision/Amendment</p>		

ASIC company extract needs to be provided as part of the application.		Reports.
	Australian Company Number (ACN): Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> The ACN can be verified on https://abr.business.gov.au/ .	Registered business address: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	Check whether the above information provided in the application form matches the instrument holder details within existing instrument(s), if applicable. — NA	
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Appendix A	Certificate of title <input type="checkbox"/> General lease <input checked="" type="checkbox"/> Expiry: 25/07/2027 plus one further term of 5 years Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Premises name	Fitzroy Crossing Wastewater Treatment Plant	
Premises location	Crown Reserve 40827 Lot 36 Great Northern Highway FITZROY CROSSING WA 6765 Lot 36 on Plan 188144	
Local Government Authority	Shire of Derby-West Kimberley	
Application documents		
HPCM file reference number	DWERVT16656	
Key application documents (supporting information provided in addition to the application form)	Licence amendment application form and supporting document including following attachments <ul style="list-style-type: none"> • Proof of occupier status • ASIC company extract • Fee calculation • Technical advice 	
Scope of application/assessment		
Summary of proposed activities and/or changes to existing operations	The amendments are for the following conditions. <ul style="list-style-type: none"> • Condition 1 • Condition 17, Table 7: Monitoring of ambient groundwater quality • Condition 20, Table 8: Environmental Report • Condition 22, Table 9: Non-annual reporting requirements • Condition 23, Table 10: Notification requirements • Schedule 1: Figure 1: Map of the boundary of the prescribed premises • Schedule 1: Figure 2: Map of emission points and monitoring locations • Schedule 2: Reporting & Notification forms 	
Category number/s (activities that cause the premises to become a prescribed premises)		

Table 1: Prescribed premises categories

Prescribed premises category and description	Proposed or existing production or design capacity ¹	Proposed changes to the existing production or design capacity ¹ (amendments only)	Proposed activities, processes, or operations, including any changes to existing operations (if amendment)
Category 54: Sewage facility	700 m ³ per day	NA	NA – No Change
Are there any outstanding Notices of Amendment that need to be amended in the works approval / licence (if applicable)?	Notice of amendment of licence expiry dates (2016) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Notice of amendment of licence reporting requirements (2022) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Amendment Notices Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Are there any unresolved DWER referred amendments from Regulatory Assurance to Industry Regulation relating to this premises?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	DWER amendment referral HPCM file reference number(s): NA	
Category specific checklists			
Are there any of DWER's prescribed premises category checklists (application form annexes) relevant to the scope of the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Does the application include a completed version of the relevant prescribed premises category checklist(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	If No, explain why?	
Legislative context and other approvals			
Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Assessed under Part IV <input type="checkbox"/> Managed under Part V <input type="checkbox"/>	
	'NA'.		
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No: NA	
Is the proposal a Major Project or subject to a State Agreement Act?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Lead Agency: Department of Jobs, Tourism, Science and Innovation (JTSI)	
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No: NA	

Has the applicant obtained approval for their Mining Proposal?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Reg ID: Status: NA No or N/A, explain why? Not on mining lease
Has the applicant obtained all relevant planning approvals?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Approval: Applicant will lodge planning approval Expiry date: If No or N/A explain why? No construction of new infrastructure proposed
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit No: No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: NA Type: NA Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Regional office: NA
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Name: PDWSA Priority: P1 / P2 / P3 / N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <u>WQPN 25</u>)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004</i> , <i>Environmental Protection (Controlled Waste) Regulations 2004</i> , <i>State Agreement Act xxxx</i>)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>EP Regs (Noise) 1997</i> <i>Unauthorised Discharge Regs</i> <i>Dangerous Goods Safety Act 2004</i>
Is the Premises within an Environmental Protection Policy (EPP) Area or State Environmental Policy (SEP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	NA

(e.g. Western Swamp Tortoise Habitat EPP, Peel Inlet – Harvey Estuary EPP, Kwinana Atmospheric Wastes EPP, Goldfields Residential Areas Sulfur Dioxide EPP, <i>State Environmental (Cockburn Sound) Policy 2015</i>)?		
Is the Premises subject to any EPP or SEP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	NA
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Classification: N/A Date of classification: N/A
SECTION 2: CONSULTATION		
Advertising		
Does this application need to be advertised?	DWER Website Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> The West Australian Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Local Newspaper Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Direct interest stakeholders		
Local Government Authority Shire of Derby-West Kimberley	Letter to be sent Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Decision-Making Authorities / State Agencies Department of Mines, Industry Regulation and Safety [DEMIRS] Department of Health [DoH] Department of Biodiversity, Conservation and Attractions [DBCA] Department of Planning, Lands and Heritage [DPLH] Department of Primary Industries and Regional Development [DPIRD]	Letter to be sent Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> DoH	
Aboriginal stakeholder/Traditional Owners	Letter to be sent Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Internal stakeholders / subject matter experts		
EPA Services Contaminated Sites Branch Air Quality Branch	Request to be sent Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Contaminated Sites Branch – technical advice from	

Environmental Noise Branch Terrestrial Ecosystem Branch		hydrogeologist
[Insert other/s stakeholders] Delete rows, if not required.		Request to be sent Yes <input type="checkbox"/> No <input type="checkbox"/>
		Request to be sent Yes <input type="checkbox"/> No <input type="checkbox"/>
Fee validation		
Is the proposed fee calculation in the application form correct?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Applicant proposed fee: Correct fee: \$680 Click on the link for fee calculator for <u>works approval</u> , <u>licence</u> and <u>amendments</u> .
For works approval applications, does the proposed fee come with a breakdown of costs and how the proposed fee was derived?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA
SECTION 3: RECEPTORS		
The nearest town of Fitzroy		Is approximately 2.5 km SW from the premises
Human receptors	Distance from activity / prescribed premises	Pathway assessment
Environmental receptors	Distance from activity / prescribed premises	Pathway assessment
Groundwater	Groundwater in the project area is located at a depth of 9.8m to 11.5 metres below ground level (mBGL). Groundwater is fresh with salinity ranging from 290mg/L to 715mg/L Total Dissolved Solids. Groundwater flow is to the north-west under a low hydraulic gradient towards the main channel of the Fitzroy River.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure <input type="checkbox"/>
Residential	The nearest sensitive premises is the Parukupan Aboriginal Community located 600m northwest of the WWTP (across the Fitzroy River) and the Fitzroy River Lodge, located approximately 600m north-east of the WWTP.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure <input type="checkbox"/>
Cultural receptors	Distance from activity /	Pathway assessment

	prescribed premises	
Aboriginal Heritage	The nearest Aboriginal Heritage listed site to the WWTP, the Fitzroy River, is approximately 300m from the western boundary of the WWTP.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure <input type="checkbox"/>