



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Water Corporation

Licence: L6748/1994/13

Registered office: 629 Newcastle Street
LEEDERVILLE WA 6007

Premises address: Caddadup Wastewater Treatment Plant
1000 Old Coast Road
DAWESVILLE WA 6211
Being Lot 1955 on Plan 192450 (Crown Reserve 44270) as depicted in
Schedule 1.

Issue date: Thursday, 2 October 2014

Commencement date: Sunday, 12 October 2014

Expiry date: Friday, 11 October 2019

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

Lauren Fox
Licensing Officer

Decision Document authorised by:

Rebecca Kelly
Manager Licensing



Contents

| | |
|--|---|
| Decision Document | 1 |
| Contents | 2 |
| 1 Purpose of this Document | 2 |
| 2 Administrative summary | 3 |
| 3 Executive summary of proposal and assessment | 4 |
| 4 Decision table | 5 |
| 5 Advertisement and consultation table | 6 |
| 6 Risk Assessment | 7 |

1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non-standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



2 Administrative summary

| Administrative details | | |
|--|---|---|
| Application type | Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/> | |
| Activities that cause the premises to become prescribed premises | Category number(s) | Assessed design capacity |
| | 54 | Not more than 3,000 cubic metres per day |
| Application verified | Date: N/A | |
| Application fee paid | Date: N/A | |
| Works Approval has been complied with | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | |
| Compliance Certificate received | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | |
| Commercial-in-confidence claim | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| Commercial-in-confidence claim outcome | N/A | |
| Is the proposal a Major Resource Project? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/> |
| Is the proposal subject to Ministerial Conditions? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Ministerial statement No: EPA Report No: |
| Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here. | | |
| Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, e.g. Site is subject to SO ₂ requirements of Kwinana EPP. | | |



3 Executive summary of proposal and assessment

Water Corporation has operated the Caddadup Wastewater Treatment Plant (WWTP) under the *Environmental Protection Act 1986* Licence L6748/1994/12. The WWTP is located just off the Old Coast Road in Dawesville. The plant was established in 1994 and upgraded in 2008. The closest residential receptors are located 400m to the southwest and 500m to the southeast of the premises. It is worth noting that the Dawesville Channel is located approximately 2km north of the plant and the Peel Harvey Inlet is located 800m east of the plant. Both are popular locations for fishing and boating activities.

The Caddadup WWTP is designed to treat up to 3000 m³ per day. The average daily inflow to the plant for the 2012/13 reporting period was 1,326.95 m³/day.

The operations at the Caddadup Wastewater Treatment Plant include the treatment of sewage to a secondary standard and the on-site infiltration of treated wastewater via infiltration ponds. Plant infrastructure consists of:

- inlet works and preliminary treatment to remove coarse material from sewage;
- activated sludge process which includes one oxidation ditch;
- sludge handling facility;
- two secondary clarifiers;
- DAFT tank;
- three infiltration ponds;
- two old wastewater ponds; and
- odour control facility.

The main potential emissions from the site are discharges of treated wastewater via infiltration to land (and potentially to groundwater) and fugitive emissions in the form of odour. Depth to groundwater at this site varies from 2.0m to 15.6m. Beneath the site is the superficial Swan Aquifer which is underlain by the Leederville Aquifer which is in turn underlain by the Yarragadee Aquifer.

Discharges of treated wastewater to land are managed by treating wastewater to a defined water quality level and undertaking compliance monitoring prior to discharge.

Odour emissions are managed by the odour control facility and ongoing maintenance of the facility. Given the buffer of 400m and 500m from sensitive receptors, odour emissions are considered low risk.

This licence was converted into the standardised REFIRE (Re-Engineering for Industry Regulation and the Environment) licence format during the re-issue in October 2014. This amendment has been requested by the proponent to make minor changes to:

- The definition of 'quarterly' to match with reporting period;
- The removal of Form ET1 (Schedule 2) as it is not referenced in the licence;
- Removing reference to groundwater monitoring bores MB 1/02 and MB 3/02 in condition 3.8.1 and removing the location of these bores from the groundwater bore location map in Schedule 1; and
- Removing reference to Form AGWQ1 in Table 5.2.1 and removing the form from Schedule 2 as agreed between DER and the Water Corporation.

DER has not reassessed the acceptability or impacts of emissions and discharges from the premises or re-visited any existing emission control levels during this amendment.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

| DECISION TABLE | | | | |
|---|--|-------------------|--|--------------------------------------|
| Works Approval / Licence section | Condition number W = Works Approval L = Licence | OSC or NSC | Justification (including risk description & decision methodology where relevant) | Reference documents |
| Ambient quality monitoring | L3.8.1 | OSC | The proponent has requested that Table 3.8.1 of OSC 3.8.1 is amended to remove reference to monitoring bores MB 1/02 and MB 3/02. Bore 1/02 is currently buried and not operational. Bore 3/02 is on private property which restricts access. These bores have not been used for many years and were removed from the previous licence (L6748/1994/12) in 2011. During the REFIRE conversion process, a map was provided which included an out-dated reference to the location of these bores which were thought to be inclusive of the current sampling regime. The occupier identified that these had been incorrectly included on the licence and requested the amendment to remove these. There are 11 active bores which are used for groundwater sampling. Given the location and number of bores around the premises, these are sufficient at monitoring groundwater at and surrounding the premises. References to these bores have been removed from the licence. | Application supporting documentation |
| Information | L5.2.1 | SC | OSC 5.2.1 has been amended to change the due date of the report from 60 calendar days to 62 calendar days. The majority of Water Corporation licences are due on 1 September so this due date has been amended as requested by the occupier for consistency with other licences. Table 5.2.1 of this condition has been amended to remove reference to Form AGWQ1. This form has been removed from schedule 2 of the licence. The proponent provides DER with all the information required under this form but have their own tabular format for providing this data. As agreed between DER and the Water Corporation, the proponent can continue to provide data under their own reporting format and are not required to submit data in Form AGWQ1. Reference to form ET1 has been removed from Schedule 2 as it is not referenced in the licence. | Application supporting documentation |



5 Advertisement and consultation table

| Date | Event | Comments received/Notes | How comments were taken into consideration |
|------------|--|--|--|
| 26/02/2015 | Proponent sent a copy of draft instrument through 21 day package | The occupier requested that condition 5.2.1 be amended so that the annual report is due within 62 calendar days (instead of 60 as previously stated) to be consistent with other licence due dates of 1 September. | Condition 5.2.1 amended to 62 calendar days. |



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

| Likelihood | Consequence | | | | |
|----------------|---------------|----------|----------|----------|---------|
| | Insignificant | Minor | Moderate | Major | Severe |
| Almost Certain | Moderate | High | High | Extreme | Extreme |
| Likely | Moderate | Moderate | High | High | Extreme |
| Possible | Low | Moderate | Moderate | High | Extreme |
| Unlikely | Low | Moderate | Moderate | Moderate | High |
| Rare | Low | Low | Moderate | Moderate | High |