

# Permit

*Environmental Protection Act 1994*

## Environmental authority EPPR03210515

*This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.*

### Environmental authority number: EPPR03210515

**Environmental authority takes effect on day the authority is issued.**

The anniversary date of this environmental authority is 01 September each year.

### Environmental authority holder(s)

| Name(s)                  | Registered address                                                         |
|--------------------------|----------------------------------------------------------------------------|
| GTH PROJECT NO 4 PTY LTD | WMS Solutions, Level 14<br>203 Robina Town Centre Drive<br>ROBINA QLD 4226 |

### Environmentally relevant activity and location details

| Environmentally relevant activity/activities                                                                                                                                                                                                                                                     | Location(s) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme | 1/RP51144   |
| ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme | 169/S31259  |
| ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is                                                                                     | 2/RP190432  |

| Environmentally relevant activity/activities                                                                                                                                                                                                                                                     | Location(s) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| discharged from the works to an infiltration trench or through an irrigation scheme                                                                                                                                                                                                              |             |
| ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme | 2/RP51144   |
| ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme | 3/RP190432  |

### Additional information for applicants

#### Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

#### Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website [www.qld.gov.au](http://www.qld.gov.au), using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

**13 December 2022**

Date

Melanie David  
Department of Environment and Science  
Delegate of the administering authority  
*Environmental Protection Act 1994*

**Enquiries:**  
Permits and Licensing/Operational Support  
Department of Environment and Science  
GPO Box 2454, BRISBANE QLD 4001  
Phone: 1300 130 372  
Email: [palm@des.qld.gov.au](mailto:palm@des.qld.gov.au)

**Privacy statement**

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at [www.qld.gov.au](http://www.qld.gov.au). For queries about privacy matters please email [privacy@des.qld.gov.au](mailto:privacy@des.qld.gov.au) or telephone 13 74 68.

### **Obligations under the *Environmental Protection Act 1994***

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

### **Other permits required**

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

### **Obligations under the *Mining and Quarrying Safety and Health Act 1999***

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at <https://www.rshq.qld.gov.au/>, or phone 13 QGOV ( 13 74 68 ) or your local Mines Inspectorate Office.

### **Development Approval**

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. If you are unsure that you have the most current version of the environmental authority relating to this site please visit <https://apps.des.qld.gov.au/env-authorities/> to access all environmental authorities currently approved.

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G1                       | <p><b>Activities</b> conducted under this environmental authority must be conducted in accordance with the following limitations:</p> <ul style="list-style-type: none"> <li>a) Total inflows to the combined sewage treatment works are limited to a peak design capacity of 160 KL per day;</li> <li>b) The <b>activity</b> is only permitted to occur on Lot 3 Plan RP190432, Lot 2 Plan RP51144, Lot 1 Plan RP51144 and Lot 169 Plan S31259.</li> </ul> |
| G2                       | All reasonable and practicable <b>measures</b> must be taken to prevent the likelihood of environmental harm being caused.                                                                                                                                                                                                                                                                                                                                  |
| G3                       | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable, or at most, within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.                                                                                                                                                      |
| G4                       | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.                                                                                                                                                                                                                                                                                                                           |
| G5                       | All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the <b>administering authority</b> upon request and in the format requested.          |
| G6                       | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                |
| G7                       | All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities ( <b>NATA</b> ) certification, or an equivalent certification, for such analyses. The only exception to this condition is for <i>in situ</i> monitoring of pH and electrical conductivity.                                                                                                                |
| G8                       | <p><b>You</b> must record the following details for all environmental <b>complaints</b> received:</p> <ul style="list-style-type: none"> <li>a) date and time complaint was received</li> <li>b) name and contact details of the complainant</li> <li>c) nature of the complaint</li> <li>d) investigations undertaken</li> <li>e) conclusions formed</li> <li>f) actions taken.</li> </ul>                                                                 |
| G9                       | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a <b>complaint</b> not considered by the <b>administering authority</b> to be frivolous or vexatious, of <b>environmental nuisance</b> arising from the <b>activity</b> . The monitoring results must be provided to the <b>administering authority</b> upon request.                   |

| G10                                                  | <p>The <b>activity</b> must be undertaken in accordance with written procedures that:</p> <ul style="list-style-type: none"> <li>a) identify potential risks to the environment from the <b>activity</b> during routine operations, closure and an emergency</li> <li>b) establish and maintain control <b>measures</b> that minimise the potential for environmental harm</li> <li>c) ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition</li> <li>d) ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner</li> <li>e) ensure that staff are trained in and aware of their obligations under the <i>Environmental Protection Act 1994</i></li> <li>f) ensure that reviews of environmental performance are undertaken at least annually.</li> </ul> |                     |                         |                                                      |     |                         |     |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------------------------------------------------|-----|-------------------------|-----|
| G11                                                  | Chemicals and fuels in containers of greater than 15 litres must be stored within a <b>secondary containment system</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                         |                                                      |     |                         |     |
| G12                                                  | <p>Buffer zones must be established between the between treated effluent irrigation areas and the boundary of the specific environmental values in accordance with Table 1 – Buffer Zones.</p> <p><b>Table 1. Buffer Zones</b></p> <table border="1"> <tr> <th>Environmental value</th><th>Minimum buffer distance</th></tr> <tr> <td><b>Ramsar wetlands</b> and <b>referable wetlands</b></td><td>50m</td></tr> <tr> <td>All other <b>waters</b></td><td>10m</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                     | Environmental value | Minimum buffer distance | <b>Ramsar wetlands</b> and <b>referable wetlands</b> | 50m | All other <b>waters</b> | 10m |
| Environmental value                                  | Minimum buffer distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                         |                                                      |     |                         |     |
| <b>Ramsar wetlands</b> and <b>referable wetlands</b> | 50m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                         |                                                      |     |                         |     |
| All other <b>waters</b>                              | 10m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                         |                                                      |     |                         |     |
| <b>Agency interest: Air</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                         |                                                      |     |                         |     |
| <b>Condition number</b>                              | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |                                                      |     |                         |     |
| A1                                                   | Odours or airborne contaminants must not cause <b>environmental nuisance</b> at a <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                         |                                                      |     |                         |     |
| <b>Agency interest: Water</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                         |                                                      |     |                         |     |
| <b>Condition number</b>                              | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |                                                      |     |                         |     |
| WT1                                                  | Other than releases of treated effluent to the <b>constructed wetland</b> and the <b>constructed storage lake</b> , contaminants must not be released to any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                         |                                                      |     |                         |     |
| WT2                                                  | In addition to WT1, the release to <b>waters</b> must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                         |                                                      |     |                         |     |
| WT3                                                  | Structures, including the <b>constructed wetland</b> and <b>constructed storage lake</b> , used for the storage or treatment of effluent or wastes must be constructed, installed and maintained to: <ul style="list-style-type: none"> <li>a) prevent any release of effluent or wastes from the structures, other than under condition (L1);</li> <li>b) ensure the stability of the structures.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                         |                                                      |     |                         |     |
| <b>Agency interest: Land</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                         |                                                      |     |                         |     |
| <b>Condition number</b>                              | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |                                                      |     |                         |     |

| L1                                               | <p>The only contaminant to be released to land is treated effluent in accordance with the Table 2 – Treated effluent release limits to irrigation areas and the associated requirements.</p> <p><b>Table 2. Treated effluent release limits to irrigation areas</b></p> <table><tr><th>Quality Characteristic (units)</th><th>Release limit from <b>constructed storage lake</b></th><th>Release limit from commercial storage tank<sup>5</sup></th><th>Limit type</th><th>Minimum monitoring frequency<sup>1,2,3</sup></th></tr><tr><td>Volume (L/ha/day)</td><td>19,000</td><td>20,000</td><td>Maximum</td><td>Daily</td></tr><tr><td><b>Total Nitrogen</b> (mg/L as N)<sup>4</sup></td><td>1.5</td><td>15</td><td>Maximum</td><td>Monthly</td></tr><tr><td><b>Total Phosphorus</b> (mg/L as P)<sup>4</sup></td><td>0.1</td><td>2</td><td>Maximum</td><td>Monthly</td></tr><tr><td>pH (pH units)</td><td>6.5-8.0</td><td>6.5-8.0</td><td>Range</td><td>Monthly</td></tr><tr><td>E.coli (CFU/100ml)</td><td>10</td><td>10</td><td>Maximum</td><td>Monthly</td></tr><tr><td>Electrical Conductivity (µS/cm)</td><td>470</td><td>470</td><td>Maximum</td><td>Monthly</td></tr></table> <p><b>Associated requirements</b></p> <ol style="list-style-type: none"><li>Monitoring must be in accordance with the <b>administering authority's</b> Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.</li><li>Monitoring is to be undertaken at the outlet of the <b>constructed storage pond</b> and commercial storage<sup>5</sup> tank for all parameters.</li><li>Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency (e.g. if TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release).</li><li>Indicators for TN and TP are recommended to be done as grab samples.</li><li>The commercial storage tank located in the south-west corner of Lot 3 Plan RP190432, which contains commercial sewage wastes which have been treated via the sewage treatment plant works.</li></ol> | Quality Characteristic (units)                          | Release limit from <b>constructed storage lake</b> | Release limit from commercial storage tank <sup>5</sup> | Limit type | Minimum monitoring frequency <sup>1,2,3</sup> | Volume (L/ha/day) | 19,000 | 20,000 | Maximum | Daily | <b>Total Nitrogen</b> (mg/L as N) <sup>4</sup> | 1.5 | 15 | Maximum | Monthly | <b>Total Phosphorus</b> (mg/L as P) <sup>4</sup> | 0.1 | 2 | Maximum | Monthly | pH (pH units) | 6.5-8.0 | 6.5-8.0 | Range | Monthly | E.coli (CFU/100ml) | 10 | 10 | Maximum | Monthly | Electrical Conductivity (µS/cm) | 470 | 470 | Maximum | Monthly |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|------------|-----------------------------------------------|-------------------|--------|--------|---------|-------|------------------------------------------------|-----|----|---------|---------|--------------------------------------------------|-----|---|---------|---------|---------------|---------|---------|-------|---------|--------------------|----|----|---------|---------|---------------------------------|-----|-----|---------|---------|
| Quality Characteristic (units)                   | Release limit from <b>constructed storage lake</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Release limit from commercial storage tank <sup>5</sup> | Limit type                                         | Minimum monitoring frequency <sup>1,2,3</sup>           |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| Volume (L/ha/day)                                | 19,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20,000                                                  | Maximum                                            | Daily                                                   |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| <b>Total Nitrogen</b> (mg/L as N) <sup>4</sup>   | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15                                                      | Maximum                                            | Monthly                                                 |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| <b>Total Phosphorus</b> (mg/L as P) <sup>4</sup> | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                                       | Maximum                                            | Monthly                                                 |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| pH (pH units)                                    | 6.5-8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.5-8.0                                                 | Range                                              | Monthly                                                 |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| E.coli (CFU/100ml)                               | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10                                                      | Maximum                                            | Monthly                                                 |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| Electrical Conductivity (µS/cm)                  | 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 470                                                     | Maximum                                            | Monthly                                                 |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| L2                                               | <p>Treated effluent released to land must be done in accordance with documentation that ensures:</p> <ol style="list-style-type: none"><li>drainage to groundwater and subsurface flows of contaminants to surface waters are prevented</li><li>surface pondage and run-off of effluent is prevented</li><li>degradation of soil structure is minimised</li><li>soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised</li><li>spray drift or overspray does not carry beyond effluent disposal areas</li><li>effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake</li><li>in addition to the requirements of condition (G12), sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                                                    |                                                         |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| L3                                               | <p>When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |                                                    |                                                         |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| <b>Agency interest: Waste</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |                                                    |                                                         |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |
| <b>Condition number</b>                          | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |                                                    |                                                         |            |                                               |                   |        |        |         |       |                                                |     |    |         |         |                                                  |     |   |         |         |               |         |         |       |         |                    |    |    |         |         |                                 |     |     |         |         |

|     |                                                                                                                                                                                                     |
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| WS1 | Other than effluent released to land in accordance with conditions (L1) and (L3), all waste generated in carrying out the <b>activity</b> must be reused, recycled or lawfully disposed of offsite. |
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## Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of Environment and Heritage Protection or its successor or predecessors.

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

**Commercial place** means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Constructed storage lake** means the lake located in the north-west portion/corner of Lot 2 Plan RP51144, constructed for the purpose of storing effluent treated through the residential sewage treatment systems and constructed wetland.

**Constructed wetland** means the wetland located in the north-west portion/corner of Lot 2 Plan RP51144, constructed for the purpose of treating effluent from the residential sewage treatment systems.

**Day** means any 24 hour period.

**Environmental nuisance** as defined under Chapter 1 of the *Environmental Protection Act 1994*.

**Environmental value** as defined under Chapter 1 of the *Environmental Protection Act 1994*.

**Measures** has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

**NATA** means National Association of Testing Authorities.

**Noxious** means harmful or injurious to health or physical well-being.

**Offensive** means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

**Ramsar wetlands** means an area subject to the Convention on Wetlands of International Importance, especially as Waterfowl Habitat' (Ramsar, Iran, 2 February 1971).

**Referable wetlands** means an area shown as a wetland on the Map of referable wetlands.

**Release of a contaminant into the environment** means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

**Secondary containment system** means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

**Sensitive place** includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

**Total Nitrogen (TN)** means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

**Total Phosphorus (TP)** means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

**Waters** includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

**You** means the holder of the environmental authority.

**END OF PERMIT**