Permit

Environmental Protection Act 1994

Environmental authority EPPR00852813

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

Environmental authority number: EPPR00852813

Environmental authority takes effect on the date it is signed by the delegate.

The anniversary day of this environmental authority remains **1 September.** The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
Toowoomba Regional Council	4 Little Street TOOWOOMBA QLD 4350 Australia

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
Prescribed ERA, ERA 60 - Waste disposal, 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (a), (a) less than 50,000t	Lot 1/SP270010 Lot 1/RP136801 Lot 196/RP845660
Prescribed ERA, ERA 64 - Water treatment, 3: Treating 10ML or more raw water in a day	Lot 196/RP845660
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (d) more than 4000 but not more than 10,000EP	Lot 1/RP136801
Prescribed ERA, ERA 62 – Resource recovery and transfer facility operation, 1 Operating facility for receiving and storing, dismantling, baling or temporarily storing, (c) category 2 regulated waste	Lot 1/SP270010 Lot 16/RP34904 Lot 17/RP34904
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (b-i) more than 100 but not more than 1500EP if	Lot 1/RP147135 Lot 2/RP147135 Lot 3/RP147135 Lot 1/RP184406 Lot 115/SP134890

ABN 46 640 294 485

Queensland Government

Environmentally relevant activities	Locations
treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1/SP298670
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (b-ii) more than 100 but not more than 1500EP otherwise	Lot 1/SP106958
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (g) more than 100,000EP	Lot 1/SP270010 Lot 1/RP142669
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (c) more than 1500 but not more than 4000EP	Lot 948/SP110760 Lot 2/RP131809 Lot 1/RP131809 Lot 22/RP839389 Lot 1/SP183755 Lot 104/AG2291
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 2/RP24667 Lot 39/SP112064 Lot 62/SP279890 Lot 13/SP281378 Lot 948/SP110760 Lot 188/SP247459 Lot 166/SP239603 Lot 1/SP279917 Lot 4/RP844540 Lot 63/SP276542 Lot 48/SP247505 Lot 999/SP285242 Lot 6/SP194434 Lot 100/SP279839 Lot 284/SP104792 Lot 1/RP132018 Lot 1/RP124267 Lot 131/RP228715 Lot 500/RP839441 Adjacent to LOT 2/RP835167 Adjacent to LOT 211/AG4256 Lot 271/AG4233 Lot 261/SP115305 Lot 82/C44 Lot 4/SP299362 Lot 999/SP301072

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, 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- one 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

02/03/2023

Date

Rebecca Griffiths
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Utilities and Government Organisations Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

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 Natural Resources, Mines and Energy (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 www.dnrm.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. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1.1 – Sewage Pumping Sations

Environmentally Relevant Activity	Locations
ERA 63 - Sewage Treatment 2: Operating a sewage pumping station mentioned in subsection (1)(b)	**Kingsthorpe TWIP SPS** Lot 188/SP247459; **Oakey TWIP SPS** Lot 63/SP276542; **Highfields SPS** Lot 948/SP110760; **Kooringa Valley TWIP SPS** Lot 999/SP285242; **Westbrook TWIP SPS** Lot 166/SP239603; **Glenvale SPS** Lot 6/SP194434; **Wyreema SPS** Lot 4/RP844540; **Gowrie Junction TWIP SPS** Lot 48/SP247505; **Charlton North SPS** Lot 1/SP279917; **Troy's Road SPS** Lot 62/SP279890; **Vision Street SPS** Lot 100/SP279839; **O'Mara Road SPS** Lot 13/SP281378; **Lorrimer Street SPS** Lot 4/SP299362; **Wirraglen SPS** Lot 999/SP301072; **Warpole Street SPS MIL01 SPS1** Lot 1/RP132018; **Luck Street North TOPS1** Road Reserve Adjacent to Lot 2/RP835167; **Luck Street South TOPS2** Road Reserve Adjacent to Lot 211/AG4256; **Boundary Street SPS TOPS10** Lot 1/RP124267; **Bridge Street TOPS12** Lot 131/RP228715; **Glenvale Road SPS TOPS52** Lot 500/RP839441; **Greenwattle Street TOPS54** Lot 284/SP104792; **Cherry Street Oakey SPS A (OAKA)** Lot 2/RP24667; **Mowen Street SPS CLPS01** Lot 39/SP112064; **Anzac Avenue / Alderley St SPS TOPS05** Lot 271 AG4233; **Hampton St SPS TOPS06** Lot 261/SP115305

With the exception of any variations, the conditions of approval for the environmentally relevant activity conducted at the locations as described above include standard conditions contained within the attached document entitled:

- ***Code of environmental compliance ERA 63(2)—Sewage treatment - Code of environmental compliance for certain aspects of sewage treatment activities (ERA 63) Version 1***

Variations to the standard conditions are described in *Table 1 – Varied conditions*, and these variations **apply only** to relevant sites as described in *Table 1 – Varied conditions* for each varied condition.

Table 1 – Varied Conditions

Standard Condition	Varied Condition	Sites that varied condition applies to	
		Site name	**Lot on plan**
5	For **new pumping stations** the **operator** must document and comply with a contingency plan prior to the commencement of this **activity**.	Warpole Street SPS MIL01 SPS1	Lot 1/RP132018
		Luck Street North TOPS1	Road Reserve Adjacent to Lot 2/RP835167

	For **existing pumping stations** the **operator** must document and comply with a contingency plan within 24 months of the date this **approval** takes effect. The contingency plan must provide for: a) method for emergency by-pass pumping, either standard connections for emergency by-pass pumping or an appropriate organisational response (vacuum tanker transport); b) standard connections for mobile generators, or a back-up power source that automatically starts in the event of power failure; c) stand-by pumping equipment and associated controls; d) identification of critical components and a system to ensure adequate and timely access to spare parts; e) access for maintenance and emergency activities; and f) testing and validation of any relevant equipment used or related to the contingency plan as necessary.	Luck Street South TOPS2	Road Reserve Adjacent to Lot 211/AG4256
		Boundary Street SPS TOPS10	Lot 1/RP124267
		Bridge Street TOPS12	Lot 131/RP228715
		Glenvale Road SPS TOPS52	Lot 500/RP839441
		Greenwattle Street TOPS54	Lot 284/SP104792
		Cherry Street Oakey SPS A (OAKA)	Lot 2/RP24667
		Mowen Street SPS CLPS01	Lot 39/SP112064
5	For **new pumping stations** the **operator** must document and comply with a contingency plan prior to the commencement of this **activity**. For **existing pumping stations** the **operator** must document and comply with a contingency plan within 24 months of the 18 December 2019. The contingency plan must provide for: a) method for emergency by-pass pumping, either standard connections for emergency by-pass pumping or an appropriate organisational response (vacuum tanker transport); b) standard connections for mobile generators, or a back-up power source that automatically starts in the event of power failure; c) stand-by pumping equipment and associated controls; d) identification of critical components and a system to ensure adequate and timely access to spare parts; e) access for maintenance and emergency activities; and f) testing and validation of any relevant equipment used or related to the contingency plan as necessary.	Anzac Avenue / Alderley St SPS TOPS05	Lot 271 AG4233
		Hampton St SPS TOPS06	Lot 261 SP115305.
10	Release to land and **waters** The operator must ensure that **contaminants** are not released to land or **waters** (including the bed and banks	Kingsthorpe TWIP SPS	Lot 188/SP247459
		Oakey TWIP SPS	Lot 63/SP276542

	of any waters) as a result of the activity unless all reasonable and practicable measures have been taken to prevent the release.	Highfields SPS	Lot 948/SP110760
		Kooringa Valley TWIP SPS	Lot 999/SP285242
		Westbrook TWIP SPS	Lot 166/SP239603
		Glenvale SPS	Lot 6/SP194434
		Wyreema SPS	Lot 4/RP844540
		Gowrie Junction TWIP SPS	Lot 48/SP247505
		Charlton North SPS	Lot 1/SP279917
		Troy's Road SPS	Lot 62/SP279890
		Vision Street SPS	Lot 100/SP279839
		O'Mara Road SPS	Lot 13/SP281378
		Lorrimer Street SPS	Lot 4/SP299362
		Wirraglen SPS	Lot 999/SP301072
10	Release to land and **waters** The **operator** must ensure that **contaminants** are not released to land or **waters** (including the bed and banks of any waters) as a result of the **activity** unless all reasonable and practicable measures have been taken to prevent the release. The only exception to this condition is that a sewage release to land or waters (including the bed and banks of any waters) may occur as a result of the **activity** only when all of the following apply: a) the release is a result of a wet weather event; and b) the hydraulic flow into the sewage pump station exceeds the peak design capacity of the sewage pump(s) at the time the contaminants are release; and c) all reasonable and practicable measures have been taken to prevent the release; and d) the **administering authority** has been notified in accordance with condition 11.	Warpole Street SPS MIL01 SPS1	Lot 1/RP132018
		Luck Street North TOPS1	Road Reserve Adjacent to Lot 2/RP835167
		Luck Street South TOPS2	Road Reserve Adjacent to Lot 211/AG4256
		Boundary Street SPS TOPS10	Lot 1/RP124267
		Bridge Street TOPS12	Lot 131/RP228715
		Glenvale Road SPS TOPS52	Lot 500/RP839441
		Greenwattle Street TOPS54	Lot 284/SP104792
		Cherry Street Oakey SPS A (OAKA)	Lot 2/RP24667
		Mowen Street SPS CLPS01	Lot 39/SP112064
10	The **operator** must ensure that contaminants are not released to land or waters (including the bed and banks of any waters) as a result of the **activity**. The only exception to this condition is that a sewage release to land or waters (including the bed and banks of any waters) may occur as a result of the activity only when all of the following apply: a) the release is a result of a wet weather event; b) the hydraulic flow into the sewage pump station exceeds the peak design capacity of the sewage pump(s) at the time the contaminants are release;	Anzac Avenue / Alderley St SPS TOPS05	Lot 271 AG4233
		Hampton St SPS TOPS06	Lot 261 SP115305.

	c) all reasonable and practicable measures have been taken to prevent the release; and d) the **administering authority** has been notified in accordance with condition 11.		
11	The **operator** must notify the **administering authority** via the 24 hour Pollution Hotline or the district office as soon as practicable but within 24 hours after becoming aware of a sewage release that: a) poses a threat to public health (for example, contamination of **waters** with primary recreation values); b) results in any observable environmental impact (for example, fish kill, distress to wildlife, marine plants or other aquatic life); c) discharges to, or is likely to impact, a sensitive environment (for example, Ramsar wetland, marine part, or area designated as a conservation zone under a relevant planning scheme); or d) is 10,000L or more during dry weather.	Warpole Street SPS MIL01 SPS1	Lot 1/RP132018
		Luck Street North TOPS1	Road Reserve Adjacent to Lot 2/RP835167
		Luck Street South TOPS2	Road Reserve Adjacent to Lot 211/AG4256
		Boundary Street SPS TOPS10	Lot 1/RP124267
		Bridge Street TOPS12	Lot 131/RP228715
		Glenvale Road SPS TOPS52	Lot 500/RP839441
		Greenwattle Street TOPS54	Lot 284/SP104792
		Cherry Street Oakey SPS A (OAKA)	Lot 2/RP24667
		Mowen Street SPS CLPS01	Lot 39/SP112064
		Anzac Avenue / Alderley St SPS TOPS05	Lot 271 AG4233
		Hampton St SPS TOPS06	Lot 261 SP115305.

Part 1.2 – Creek Street, Cambooya

Environmentally Relevant Activity	Locations
ERA 63 - Sewage Treatment 2: Operating a sewage pumping station mentioned in subsection (1)(b)	**Creek Street, Cambooya SPS** Lot 82/C44

Variations to the standard conditions replace standard conditions 3, 4, 5, 6, 7, 10, 11, 12 and 14 with varied condition G1 – G6. The varied conditions are:

Condition number	Condition
G1	Within three months of the environmental authority taking effect, written procedures must be developed which: a) Identify all potential risks to the environment from the **activity**, including: i) during routine operations; and ii) outside routine operations; and iii) during closure; and iv) In an emergency; and

	b) identity measures to prevent or minimise the potential for **environmental harm** for each of the potential risks identified; and c) establish an inspection and maintenance program for plant and equipment, including calibration and servicing that is in accordance with manufacturer's instructions where reasonable and practicable to do so; and d) establish a staff training program on obligations under this environmental authority and the *Enviornmental Protection Act 1994* to be conducted as part of staff inductions and at least every two years thereafter; and e) establish processes to review environmental risks, indidents, performance and complaints.
G2	Written procedures required by condition G1 must be: a) implemented; and b) reviewed at least every two years; and c) Provided to the **administering authority** upon request and within a timeframe specified by the **administering authority**.
G3	Plant and equipment necessary to comply with the conditions of this environmental authority must be installed, operated and maintained: a) in a proper and effective manner; and b) in accordance with any written procedures development under condition G1 for the plant and equipment.
G4	Contamiants must not be released to land or **waters** as a result of the **activity** unless all reasonable and practicable measures have been taken to prevent the release.
G5	A report of all releases for the 12-month period ending 31 December in the preceding year must be prepared by 31 March each year and provided to the **administering authority** upon request at the time and in the format requested.
G6	The **operator** must notify the **administering authority** via the 24 hour Pollution Hotline or the district office as soon as practicable but within 24 hours after becoming aware of a sewage release that: a) poses a threat to public health (for example, contamination of **waters** with primary recreation values); b) results in any observable environmental impact (for example, fish kill, distress to wildlife, marine plants or other aquatic life); c) discharges to, or is likely to impact, a sensitive environment (for example, Ramsar wetland, marine part, or area designated as a conservation zone under a relevant planning scheme); or d) is 10,000L or more during dry weather.

Part 2 – Pittsworth STP

Environmentally Relevant Activity	Locations
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (c) more than 1500 but not more than 4000EP	Pittsworth STP Lot 1 SP183755; Lot 104 AG2291

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

<table>
<tr><th colspan="2">Agency interest: General</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>2-G1</td><td>This environmental authority is based on the following details listed in Part 2 Table 1:

Part 2 Table 1: Scale of Activity
<table>
<tr><th>Details</th><th>Maximum Limit</th></tr>
<tr><td>Equivalent Persons (EP)</td><td>4500EP</td></tr>
<tr><td>Average Daily Flow</td><td>675,000L</td></tr>
<tr><td>Peak Design Capacity</td><td>2025000L</td></tr>
</table></td></tr>
<tr><td>2-G2</td><td>No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that is expressly provided by this environmental authority.</td></tr>
<tr><td>2-G3</td><td>Measures, plant and equipment must be installed, maintained and operated to ensure compliance with the conditions of this environmental authority.</td></tr>
<tr><td>2-G4</td><td>The daily operation of the sewage treatment works, associated pollution control equipment and monitoring must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of works and control equipment.</td></tr>
<tr><td>2-G5</td><td>Monitoring equipment and fault alarms must be installed in the sewage treatment plant, containment and pump stations to enable the early identification and rectification of key system process faults.</td></tr>
<tr><td>2-G6</td><td>All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained and records kept of such calibrations.</td></tr>
<tr><td>2-G7</td><td>The activity must be undertaken in accordance with written procedures that:
1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and
2. establish and maintain control measures that minimise the potential for environmental harm; and
3. ensure plant, equipment and measures are maintained in a proper and effective condition; and
4. ensure plant, equipment and measures are operated in a proper and effective manner; and
5. ensure that staff are trained in and aware of their obligations under the Environmental Protection Act 1994; and
6. ensure that reviews of environmental performance are undertaken at least annually.</td></tr>
</table>

2-G8	Telephone the Pollution Hotline (1300 130 372) or regional office as soon as practicable after becoming aware of any release of **contaminants** not in accordance with the conditions of this approval.
2-G9	The notification of emergencies or incidents as required by conditions number 2-G8 must include but not be limited to the following information: a) the environmental authority number and name of the holder; and b) the name and telephone number of the designated contact person; and c) the location of the emergency or incident; and d) the date and time of the release; and e) the time the holder of this environmental authority became aware of the emergency or incident; and f) the estimated quantity and type of any substances involved in the incident; and g) the actual or potential suspected cause of the release; and h) a description of the effects of the incident including any environmental harm that has occurred or may occur as a result of the release; and i) any sampling conducted or proposed, relevant to the emergency or incident; and j) actions taken to prevent any further release and mitigate any environmental harm caused by the release.
2-G10	A record must be maintained of at least the following events; a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; and b) any uncontrolled release of contaminants likely to cause environmental harm; and c) any emergency involving the release of contaminant likely to cause material or serious environmental harm requiring the use of firefighting equipment.
2-G11	Records must be kept for the following details for all complaints received and provide this information to the **administering authority** on request: a) time, date, name and contact details of the complainant; b) reasons for the complaint; c) any investigations undertaken; d) conclusions formed; and e) any actions taken.
2-G12	Where it is determined by an authorised person that the activity is causing an environmental nuisance at a sensitive receptor, the holder of the permit must: a) address the complaint, including the use of appropriate dispute resolution if required; and b) immediately implement adequate abatement measures so that the activity does not result in further environmental nuisance.
Agency interest: Air	
Condition number	**Condition**
2-A1	The release of **noxious** or **offensive** odours or any other **noxious** or **offensive** airborne **contaminants** resulting from the activity must not cause a nuisance at any nuisance sensitive or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
2-WT1	**Contaminants** must not be released to **waters** other than from discharge location W1 in accordance with each of the release limits for the water quality characteristics listed in *Part 2 Table 2*.

2-WT2

Discharge Location W1 is described as: Discharge to Perriers Gully (GDA 1994, Zone 56, 366536.35E, 6931951.74N)

Part 2 Table 2 - Water Quality Release Characteristics

Release Point	Parameter	Release Limit	Monitoring Frequency
W1	Biological Oxygen Demand (BOD5)	5 **mg/L** (**long term 50th Percentile)** 20 **mg/L** (**maximum**)	Fortnightly
	Total Suspended Solids (TSS)	10 **mg/L** (**long term 50th Percentile)** 30 **mg/L** (**maximum**)	
	Total Nitrogen (TN)	5 **mg/L** (**long term 50th Percentile)** 15 **mg/L (maximum**)	
	Total Phosphorous (TP)	2 **mg/L** (**long term 50th Percentile**) 5 **mg/L** (**maximum**)	
	Ammonia Nitrogen (AM)	1 **mg/L** (**long term 50th Percentile**) 3 **mg/L** (**maximum**)	
	pH	6.5-9.0 (**Range**)	
	Dissolved Oxygen (DO)	4.0 **mg/L** (minimum)	
	Free Chlorine	0.3 **mg/L** (**maximum**)	
	E.Coli[1]	<1000 **cfu/100ml or MPN/100ml** (**median**)	

[1]Minimum of five (5) samples taken at each sampling event and at regular intervals not exceeding two (2) hours with four out of five samples containing less than 4000 cfu/100ml or MPN/100ml.

2-WT3

All practical and reasonable measures must be taken to minimise the quantity of treated sewage effluent released to **waters** by recycling or making the filtered and disinfected effluent available for reuse by other persons in an ecologically sustainable manner

2-WT4

The supply of treated effluent for reuse purposes, must be fit for the intended purpose; i.e. it must comply with the relevant quality standards and monitoring regimes as specified in the *Water Supply (Safety and Reliability) Act 2008.*

2-WT5

If **treated sewage effluent** is transferred to another person(s), the following points must occur:

a) give or transfer the responsibility of such **treated sewage effluent** only in accordance with a written agreement and/or policy between the holder of this approval and that person(s) (the third party agreement); and
b) include in the third party agreement a commitment from the person(s) utilising the treated sewage effluent to use **treated sewage effluent** in such a way as to prevent environmental harm or public health incidences and specifically make the person(s) aware of their General Environmental Duty (GED), environmental sustainability of any treated sewage effluent, disposal and protection of environmental values of **waters**; and
c) upon being notified or otherwise becoming aware that the person's use of **treated sewage effluent** is causing or threatens to cause environmental harm or is posing a human health risk, and if the person(s) does not rectify the situation upon written request of the holder of this environmental authority or the **administering authority**, the holder of this environmental authority must cease giving and transferring responsibility for such treated sewage effluent; and
d) undertake and report on the risk assessment for the particular reuse application prior to transferring treated sewage effluent; and

	e) keep a copy of all agreements entered into to give or transfer ownership of treated effluent; and f) provide a copy of the agreement to the **administering authority** within 30 days of the agreement taking effect; and g) advise the **administering authority** in writing of rescission of any agreement within 30 days of such rescission; and h) should livestock have access to **treated sewage effluent** for drinking purposes, the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) section 4.3 – Livestock drinking water quality should be adhered to and considered in the third party agreements; and i) ensure the recipient is notified of any changes to water quality in the event that the **treated sewage effluent** is no longer suitable for its intended use.
2-WT6	Prior to the commencement of the ERA an Effluent Reuse Strategy must be developed and implemented for the **site**. The effluent reuse strategy must detail opportunities to expand the reuse of treated effluent off-**site**. The reuse strategy must be reviewed as a minimum every two (2) years to ensure continual improvement. Where reuse goals have not been met, determine the cause, and implement corrective action to meet targets for the reuse of treated effluent.
2-WT7	A copy of the Effluent Reuse Strategy (including subsequent versions) must be provided to the administrating authority and due regard must be given to any comments made by the administrating authority.
2-WT8	Monitor the quantity of **treated sewage effluent** reused by an appropriate method, for example a flow meter, and record these volumes.
2-WT9	All ponds used for the storage of treated effluent must be constructed, installed and maintained: a) so as to prevent the release of effluent through the bed or banks of the pond to any **waters** (including ground water); and b) so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and c) so as to ensure the stability of the ponds' construction.
2-WT10	The following criteria apply to bypass events: a) no bypass flow events are authorised for flows less than 23.4L/s; and b) bypass flow must be as a minimum treated by fine screening and grit removal for flows in excess of 23.4L/s but less than 39L/s; and c) for bypass flows in excess of 39L/s must be as a minimum treated by coarse screening.
2-WT11	The bypass release must flow directly to Perriers Creek.
2-WT12	All reasonable and practicable measures must be taken to minimise the occurrence of bypass events.
2-WT13	All bypass events must be monitored and recorded for the following: a) influent flow rate; and b) volume of bypass; and c) frequency of bypasses; and d) duration of bypass; and e) date of bypass; and f) time when bypass commenced and ceased.
2-WT14	Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any ponds or other storage structures used for the storage or treatment of **contaminant**s or wastes.

Agency interest: Noise	
Condition number	**Condition**
2-N1	Noise from the ERA must not cause an environmental nuisance at any sensitive receptor**.**
2-N2	When requested by the **administering authority**, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the **administering authority**. Monitoring must include: a) $L_{Aeq, adj, 1 hour}$ b) the level and frequency of occurrence of impulsive or tonal noise; c) atmospheric conditions including wind speed and direction; d) effects due to extraneous factors such as traffic noise; and e) location, date and time of recording.
Agency interest: Land	
Condition number	**Condition**
2-L1	No **contaminants** to land unless otherwise authorised by this environmental authority.
2-L2	All chemicals, fuels and other liquid **contaminants** must be contained within an on-**site** containment system and controlled in a manner that prevents environmental harm and in accordance with *AS4326 - Storage and Handling of Oxidising Substances*, *AS1940 - Storage and Handling of Flammable and Combustible Liquids* and *AS3780 - The Storage and Handling of Corrosive Substances.*
2-L3	Any spillage of **regulated waste** or chemicals must be cleaned up as soon as practicable after the spillage event.
2-L4	An appropriate spill kit, protective equipment and relevant operator instructions and emergency procedure guidelines for the management of wastes and chemicals associated with the activity to which this environmental authority relates must be available to employees on **site** at all times.
2-L5	Any person engaging in the activity to which this permit relates must be trained in the use of the spill kit and the emergency procedure guidelines.
Agency interest: Waste	
Condition number	**Condition**
2-W1	Screenings, grit and sludge generated by the sewage treatment process must not be: a) disposed on **site**; and b) stored at the licensed place for any period of time longer than that necessary to dewater the screenings, grit and sludge and prepare it for transport to and disposal at a proper and appropriate licensed waste disposal/incineration facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse, recycle or reprocess such waste.
2-W2	All **regulated wastes** consigned for transport off-**site** are transported only by a person who is lawfully entitled to transport the waste.

2-W3	Where **regulated waste** is removed from the licensed place, monitor and keep records of the following: a) the date, quantity and type of waste removed; and b) the name of the waste transporter and/or disposal operator that removed the waste; and c) the intended treatment/disposal destination of the waste. *NOTE: If and when a waste becomes trackable waste under the* Environmental Protection Act 1994 *waste tracking records so kept will be deemed to satisfy the requirements of this condition*.
2-W4	Waste generated in the carrying out of the activity to which this approval relates must be stored, handled and transferred so as to prevent spillage or contamination of land or **waters**.

Part 3 – Highfields and Crows Nest STPs

Environmentally Relevant Activity	Locations
63-(1c) Sewage treatment >1500 to 4000EP	Highfields STP, Browne Rd, Highfields, Lot 948 SP110760. Crows Nest STP, New England Hwy, Crows Nest, Lot 22 RP839389.

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

Agency interest: General	
Condition number	**Condition**
3-G1	**Access to Copy of Environmental Authority** A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
3-G2	**Records** Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
3-G3	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the **contaminant** to be released into the environment.
3-G4	**Monitoring and Measurements** All determinations of the quality of **contaminants** released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
3-G5	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
3-G6	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.

3-G7	The daily operation of the sewage treatment works, associated pollution control equipment and monitoring must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of works and control equipment.
3-G8	**Complaint Recording** All complaints received by the holder of this environmental authority relating to releases of **contaminants** from operations at the licensed place must be recorded and kept with the following details: a) time, date and nature of complaint; b) type of communication (telephone, letter, personal etc.); c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); d) response and investigation undertaken as a result of the complaint; e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and signature of responsible person.
3-G9	**Incident Recording** A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of **contaminants** reasonably likely to cause environmental harm; and b) any uncontrolled release of **contaminants** reasonably likely to cause environmental harm; and c) any emergency involving the release of **contaminants** reasonably likely to cause material or serious environmental harm requiring the use of fire fighting equipment.
3-G10	**Notification of Emergencies and Incidents** Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994,* as soon as practicable after becoming aware of any emergency or incident which results in the release of **contaminants** not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
3-G11	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994,* the notification of emergencies or incidents as required by condition number 3-G10 must include but not be limited to the following: a) the holder of the environmental authority; b) the location of the emergency or incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time the holder of the environmental authority became aware of the release; g) the suspected cause of the release; h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
3-G12	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number 3-G11 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; and

	b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
3-G13	**Exception Reporting** The holder of this environmental authority must notify the **administering authority** in writing within 28 days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
3-G14	The written notification required by condition number 3-G13, above must include: a) the full analysis results, and b) details of investigation or corrective actions taken, and c) any subsequent analysis.
Agency interest: Air	
Condition number	**Condition**
3-A1	**Noxious or Offensive Odour** In the event of a complaint made to the **administering authority** about odour generated on the licensed place that constitutes annoyance and the **administering authority** considers that complaint to be neither frivolous or vexatious, the holder of this environmental authority must take measures to mitigate the odour source to minimise **noxious** or **offensive** odour being released beyond the boundaries of the licensed place.
Agency interest: Water	
Condition number	**Condition**
3-WT1	**Release Points** The only **contaminant** permitted to be released from the licensed places at the release points, W1 and W2, is sewage treatment effluent a) release Point W1 - Exit point of the final lagoon at Crow's Nest (GDA 1994MGA Zone 56, 405309.13, 6983885.54). b) release Point W2 - Exit point of the storage lagoon at Highfields (GDA 1994MGA Zone 56, 393682.06, 6964540.35)
3-WT2	**Sampling and Monitoring Point Details** Determinations of the quality of **contaminants** released to **waters** to check conformity with the release quality characteristics specified in 3-WT3 of this environmental authority must be undertaken at points representative of the sampling and in situ monitoring point(s) described as: a) sampling Point W1 — Exit point W1 of the final lagoon at Crow's Nest (GDA 1994MGA Zone 56, 405309.13, 6983885.54). b) sampling Point W2 — Sample point of the storage lagoon at Highfields upstream of the exit point W2 (GDA 1994MGA Zone 56, 393682.06, 6964540.35).
3-WT3	**Quality Characteristics** The release of **contaminants** must comply, at the sampling and in situ monitoring point/s specified in condition 3-WT2 with each of the limits specified in Part 3 Table 1 – Release Quality Characteristic Limits for Release Points W1 and W2, for each quality characteristic.

Part 3 Table 1 – Release Quality Characteristic Limits for Release Points W1 and W2

Quality Characteristics	Sampling Point	Release Limit & Limit Type
pH	W1 & W2	6.5 - 9.5 **Range**

	<table><tr><td rowspan="2">*E. coli*</td><td>W1</td><td>1000 cfu/100ml or MPN/100ml as a **median** value, with 4 out of 5 consecutive samples containing less than 4000 cfu/100ml or MPN/100ml</td></tr><tr><td>W2</td><td>10 cfu/100ml or MPN/100ml as a **median** value, with 4 out of 5 consecutive samples containing less than 20 cfu/100ml or MPN/100ml</td></tr></table> **Associated Requirements:** 1. Minimum of five samples taken at each sample event and at regular intervals not exceeding two (2) hours.
3-WT4	**Monitoring of Contaminant Releases to Waters** The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the **contaminants** released for the release points, quality characteristics, and at the frequency specified in Part 3 Table 2 – Monitoring Frequency. **Part 3 Table 2 – Monitoring Frequency** <table><tr><th>Determination Required</th><th>Frequency</th></tr><tr><td>pH</td><td>Weekly</td></tr><tr><td>*E.coli*</td><td>Monthly</td></tr></table>
3-WT5	All determinations of the quality of **contaminants** released to **waters** must be made in accordance with methods prescribed in the **administering authority's** Water Quality Sampling Manual.
3-WT6	**Pump Stations** Pump stations whose failure would or would be likely to result in a direct or indirect release of **contaminants** to **waters** must be fitted with: a) screens; b) stand-by and duty pump; c) overflow storage facility; and d) telemetry pump-failure alarms. Pump failure alarms must be able to operate without mains power if such a power failure occurs.
3-WT7	**CED Scheme Lagoons** All ponds used for the storage or treatment of **contaminants** or wastes must be constructed and maintained so that a freeboard of not less than 0.5 metres is available for containment of rainfall.
Agency interest: Land	
Condition number	**Condition**
3-L1	**Release of Contaminants to Land** The defined **contaminant** release area for **Site** 1 is described as the area adjacent to the Crow's Nest CED Plant and defined as Lot 23 on RP839389. The defined **contaminant** release area for Highfields STP is described as the area adjacent to the Browne Road Highfields WRF and defined as part of Lot 80 on A34634, part of Lot 2 on AG3788 and part of Lot 3 on SP197948 (Refer TRC DM#3773209 Irrigation Area at Highfields).
3-L2	A minimum of 48 hectares of land must be provided for the **contaminant** release area at the Crows Nest STP.
3-L3	The release of **contaminants** to land must not be carried out if soil moisture conditions are such that surface runoff or ponding is likely to occur.
3-L4	Spray from any release of **contaminants** to land must not drift beyond the boundaries of the licensed place.

3-L5	**Monitoring of Soil in the Irrigation Area** The holder of this environmental authority is responsible for records of the quality characteristics of soil at the frequency specified in Part 3 Table 3 – Parameters for Soil Analysis.

Part 3 Table 3 – Parameters for Soil Analysis

PARAMETER	FREQUENCY	SOIL DEPTH
Total Nitrogen or TKN	Annually	0 to 10cm
Exchangeable Sodium percentage(ESP)	Annually	0 to 10cm
Organic Carbon	Annually	0 to 10cm
Phosphorus	Annually	0 to 10cm
Electrical Conductivity	Annually	0 to 10cm 20 to 30cm 50 to 60cm (or bottom of root zone)
Nitrate N	Annually	
pH	Annually	
Chloride	Once every two years	Bulked sample
Calcium	Once every two years	Bulked sample
Magnesium	Once every two years	Bulked sample
Sodium	Once every two years	Bulked sample
Potassium	Once every two years	Bulked sample

*Note: The above frequency can be revised after first four years of monitoring data have been assessed by the **administering authority**.*

Agency interest: Noise	
Condition number	**Condition**
3-N1	**Emission of Noise** In the event of a complaint about noise that the **administering authority** considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Part 3 Table 4 – Noise Limits until the circumstances which gave rise to the complaint are resolved.

Part 3 Table 4 – Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level ($L_{Amax,adi,T}$)	**Period**
Background noise level plus 5 dB(A)	7 am - 6 pm
Background noise level plus 5 dB(A)	6 pm - 10 pm
Background noise level plus 3 dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level ($L_{Amax,adj,T}$)	**Period**
Background noise level plus 10 dB(A)	7 am - 6 pm
Background noise level plus 10 dB(A)	6 pm - 10 pm
Background noise level plus 8 dB(A)	10 pm - 7 am

Agency interest: Waste Management	
Condition number	**Condition**
3-W1	**General** The holder of this environmental authority must not: a) allow waste to burn or be burned at or on the licensed place; nor b) remove waste from the licensed place and burn such waste elsewhere.

	(This condition does not refer to activities carried out under the provisions of the *Fire and Emergency Services Act 1990*)
3-W2	**Off Site Movement** Where **regulated waste** is removed from the licensed place (other than by a release as permitted under this environmental authority), the holder of this environmental authority must monitor and keep records of the following: a) the date, quantity and type of waste removed; and b) name of the waste transporter and/or disposal operator that removed the waste; and c) the intended treatment/disposal destination of the waste.
3-W3	**Notification of Improper Disposal of Regulated Waste** If the holder of this environmental authority becomes aware that a person has removed **regulated waste** from the licensed place and disposed of the **regulated waste** in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the **administering authority** of all relevant facts, matters and circumstances known concerning the disposal.

APPROVED DOCUMENTS

- Crow's Nest Shire Council - Integrated Environmental Management System (IEMS), April 1997.
- Amendment to IEMS, 13 May 1997.
- Inclusion of Maddern's Pit, and Crushing and Screening plant at property described as Lot 2 on RP40595.
- Amendment to IEMS, 21 May 1997.
- Inclusion of regulated waste storage site (septic waste and grease trap emulsions) at property described as Lot 148 CSH1037 and Lot 215 C2004.

Definitions for Part 2 and Part 3

Key terms and/or phrases used in Parts 2 and 3 of 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 activity to which the environmental authority relates.

Background noise level means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or

$L_{Abg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

cfu means colony forming units.

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

Contaminant can be –

a) a gas, liquid or solid; or an odour, or
b) an organism (whether alive or dead), including a virus; or
c) energy, including noise, heat, radioactivity and electromagnetic radiation; or
d) a combination of contaminants.

$L_{Amax\ adj,T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

$L_{Aeq,adj,1\ hour}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a representative 1 hour period, using Fast response.

Long term 50th percentile means the median value of the measured values in ranked order or the quality characteristic is not to exceed the stated release limit for any twenty-six (26) consecutive samples where:

a) the consecutive samples are taking over a one (1) year period;
b) the consecutive samples are taken at approximately equal periods; and
c) the time interval between the taking of each consecutive sample is not less than ten (10) days or greater than eighteen (18) days.

Maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

Median means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

MPN means most probable number of organisms.

mg/L means milligrams per litre.

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

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

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

Noise sensitive place means –

a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
b) a motel, hotel or hostel; or
c) a kindergarten, school, university or other educational institution; or
d) a medical centre or hospital; or

e) a protected area; or
f) a public park or gardens.

Regulated waste means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 2019 (whether or not it has been treated or immobilised), and includes –

a) for an element- any chemical compound containing the element; and
b) anything that has contained the waste.

Site means the place to which this environmental authority relates or the premises to which this environmental authority relates.

Treated sewage effluent means aqueous waste flowing from the sewage a treatment plant that has been subjected to screening, sedimentation, biological and chemical processes to improve its quality.

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.

Part 4 – Cecil Plains and Milmerran STPs (former ENDC00269005)

Environmentally Relevant Activities	Locations
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) 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	Cecil Plains STP Lot 115/SP134890;
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (c) more than 1500 but not more than 4000EP	Milmerran STP Lot 1/RP131809; Lot 2/RP131809

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
4-G1	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
4-G2	Record, compile and keep all monitoring results required by this environmental authority and keep these records at the Millmerran Shire Council Office, 2 -16 Campbell Street, Millmerran, for a period of at least five years. This information must be available for examination by an authorised person when requested, in a specified format.
4-G3	An annual monitoring report must be prepared by 31 March each year, and submitted to the **administering authority** upon request. This report shall include but not be limited to: a) a summary of the previous twelve (12) months' monitoring results obtained under any monitoring programs required under this authority and, in graphical form showing relevant limits, a comparison of the previous twelve (12) month's monitoring results to both this authority limits and to relevant prior results; b) an evaluation/explanation of the data from any monitoring programs; and c) a summary of any record of quantities of releases required to be kept under this authority; and d) a summary of the record of equipment failures or events recorded for any licensed place under this authority; and e) an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs; and f) the number of domestic tenements newly connected to the sewage treatment works during the previous twelve (12) months; and g) the progressive total number of connections; and h) a summary of any trade waste agreements entered into or amended during the year, including the nature of the industry.
4-G4	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective

	manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
4-G5	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
4-G6	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
4-G7	All determinations of the quality of contaminants released to the environment and all measurements that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
4-G8	In carrying out the environmentally relevant activities, you must take all reasonable and practicable measures to prevent and / or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have be prevented, shall be carried out in a proper manner in accordance with the conditions of this authority. *NOTE: This authority authorises the environmentally relevant activity. It does not authorise environmental harm unless a condition contained within this authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.*
4-G9	A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; b) any uncontrolled release of contaminants reasonably likely to cause environmental harm; and c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of firefighting equipment.
4-G10	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
4-G11	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number (4-G10) must include but not be limited to the following: a) The holder of the environmental authority; b) the location of the emergency or incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time the holder of the environmental authority became aware of the release;

	g) the suspected cause of the release; h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
4-G12	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number (4-G11) in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
4-G13	The holder of this environmental authority must notify the **administering authority** in writing within 28 days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
4-G14	The written notification required by condition number (4-G13) above must include: a) the full analysis results; and b) details of investigation or corrective actions taken; and c) any subsequent analysis.
4-G15	A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; and b) any uncontrolled release of contaminants reasonably likely to cause environmental harm; and c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of firefighting equipment.
4-G16	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the approved place must be recorded and kept with the following details: a) time, date and nature of complaint; b) type of communication (telephone, letter, personal etc.); c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then “Not identified” is to be recorded); d) response and investigation undertaken as a result of the complaint; e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and signature of responsible person.
4-G17	All complaints received must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the **administering authority** on request.
4-G18	In consultation with the **administering authority**, cooperate with and participate in any community environmental group or organisation established in respect of either the premises to which this environmental authority relates specifically, or the industrial estate where the premises to which this environmental authority relates is located.
Agency interest: Air	
Condition number	**Condition**

4-A1	The release of **noxious** or **offensive** odours or any other **noxious** or **offensive** airborne contaminants resulting from the activity must not cause a nuisance at any odour sensitive place.
4-A2	The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any **dust sensitive place**.
4-A3	Exceedance of any of the following levels when measured at any **dust sensitive place** is an environmental nuisance for the purposes of condition 4-A2. a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with *Australian Standard AS 3580.10* of 1991; and b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM_{10}) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a **dust sensitive place** downwind of the licensed place, when monitored in accordance with: i) *Australian Standard AS 3580.9.6 'Ambient air - Particulate matter - Determination of suspended particulate PM_{10} high-volume sampler with size-selective inlet - Gravimetric method*'; or ii) any alternative method of monitoring PM_{10} which may be permitted by the *'Air Quality Sampling Manual'* as published from time to time by the **administering authority**.
4-A4	When requested by the **administering authority**, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the **administering authority** following completion of monitoring. Monitoring must include: a) for a complaint alleging dust nuisance, dust deposition; and b) for a complaint alleging adverse health effects caused by dust, the concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM_{10}) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time. c) must be carried out a place(s) relevant to the potentially affected **dust sensitive places** and upwind control sites.
4-A5	In the event of a complaint being made to the **administering authority** about odour generation from the approved activities that constitutes annoyance and the **administering authority** considers that complaint to be neither frivolous or vexatious, the holder of this environmental authority must take suitable measures to mitigate the odour source to minimise **noxious** or **offensive** odours being beyond the boundaries of the approved place.
Agency interest: Water	
Condition number	**Condition**
4-WT1	Contaminants must only be released to **waters** from the discharge location and in compliance with the release limits listed in Part 4 Table 1 – Release Limits.
4-WT2	Monitoring must be undertaken and records kept of contaminant releases to **waters** from the discharge location for the parameters and not less frequently than specified in Part 4 Table 1 – Release Limits. All determinations of the quality of contaminants released must be: a) made in accordance with methods prescribed in the latest edition of the Environmental Protection Agency Water Quality Sampling Manual; and b) carried out on samples that are representative of the discharge.

Part 4 Table 1 – Release Limits

		Release			
Monitoring point	**Quality characteristics**	**Minimum**	**Median**	**85th percentile**	**Monitoring frequency**
Prior to chlorination at Millmerran STP	5-day Biochemical Oxygen Demand	-	-	20	Quarterly

	<table><tr><td></td><td>(**mg/L**)</td><td></td><td></td><td></td><td></td></tr><tr><td>Prior to chlorination at Millmerran STP</td><td>Suspended Solids (**mg/L**)</td><td>-</td><td>-</td><td>30</td><td>Quarterly</td></tr><tr><td>Prior to chlorination at Millmerran STP</td><td>pH (pH Units)</td><td>6.5</td><td>-</td><td>8.5</td><td>Quarterly</td></tr><tr><td>W1*</td><td>Dissolved Oxygen (**mg/L**)</td><td>2</td><td>-</td><td>-</td><td>Quarterly</td></tr><tr><td>W1</td><td>Free Residual Chlorine (**mg/L**)</td><td>-</td><td>0.7</td><td>-</td><td>Quarterly</td></tr><tr><td>W1</td><td>E. coli (cfu/100ml or MPN/100ml)</td><td>-</td><td>1000***</td><td>-</td><td>Quarterly</td></tr><tr><td>W2**</td><td>E. coli (cfu/100ml or MPN/100ml)</td><td>-</td><td>1000***</td><td>-</td><td>Quarterly</td></tr></table> * W1 - outlet from the Millmerran STP treated effluent holding pond to **waters** described as Back Creek. ** W2 - exit point of the final lagoon located at Cecil Plains STP. *** Minimum of five samples taken at regular intervals not exceeding one month, with four out of five samples containing less than 4,000 cfu/100ml or MPN/100ml.
4-WT3	There must be no release of stormwater runoff that has been in contact with any contaminants at the **site** to any **waters**, roadside gutter or stormwater drain.
4-WT4	Contaminant pumping stations must be fitted with stand-by pumps and pump-failure alarms as well as high-level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.
4-WT5	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the **authorised place** must be constructed, installed and maintained: a) so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including ground water); b) so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and c) so as to ensure the stability of the ponds' construction.
4-WT6	Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any ponds or other structures used for the storage or treatment of contaminants or wastes.
4-WT7	The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in designated areas from where contaminants cannot be released into any **waters**, roadside gutter or stormwater drainage system
4-WT8	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or other materials to any stormwater drainage system, roadside gutter or **waters**.
4-WT9	Contaminants must not be directly or indirectly released from the approved activities to any **waters** or bed and banks of any **waters** except as permitted under the conditions of this environmental authority.
Agency interest: Noise	
Condition number	**Condition**
4-N1	Noise from activities must not cause an environmental nuisance at any noise sensitive place or any **commercial place**.
4-N2	All noise from activities must not exceed the levels specified in Part 4 Table 2 – Noise Limits at

<table>
<tr><td></td><td>any noise sensitive place.
Part 4 Table 2 – Noise Limits
<table>
<tr><th>Time period</th><th>Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, max\ adj\ T}$</th></tr>
<tr><td>7am - 6pm</td><td>45 dB(A) or background noise level plus 5 dB(A), whichever is the greater</td></tr>
<tr><td>6pm - 10pm</td><td>35 dB(A) or background noise level plus 5 dB(A), whichever is the greater</td></tr>
<tr><td>10pm - 7am</td><td>30 dB(A) or background noise level plus 3 dB(A), whichever is the greater</td></tr>
<tr><th>Time period</th><th>Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, max\ adj\ T}$</th></tr>
<tr><td>7am - 6pm</td><td>50 dB(A) or background noise level plus 10 dB(A), whichever is the greater</td></tr>
<tr><td>6pm - 10pm</td><td>45 dB(A) or background noise level plus 10 dB(A), whichever is the greater</td></tr>
<tr><td>10pm - 7am</td><td>40 dB(A) or background noise level plus 8 dB(A), whichever is the greater</td></tr>
</table></td></tr>
<tr><td>4-N3</td><td>Condition 4-N2 applies if:
a) there are complaints to the administering authority about the level of noise from any source in carrying out the environmentally relevant activities at authorised place; and
b) the complaints are not frivolous or vexatious or based on mistaken belief.</td></tr>
<tr><td>4-N4</td><td>When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:
a) $L_{A, max\ adj, T}$
b) the level and frequency of occurrence of impulsive or tonal noise;
c) atmospheric conditions including wind speed and direction;
d) effects due to extraneous factors such as traffic noise; and
e) location, date and time of recording.</td></tr>
<tr><td>4-N5</td><td>The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.</td></tr>
<tr><td colspan="2">Agency interest: Waste</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>4-W1</td><td>The holder of this environmental authority must take all reasonable and practicable measures necessary to ensure that the carrying out of the environmentally relevant activities do not cause any adverse effect on public health or any nuisance, particularly in relation to propagation of diseases, fly breeding, mosquito breeding, and harbourage and/or breeding of rats and other pest organisms and/or vectors.</td></tr>
<tr><td>4-W2</td><td>In the event of any adverse effect upon public health and / or any nuisance arising from the conduct of the environmentally relevant activities, the holder of this environmental authority must take all reasonable and practicable measures necessary to:
a) abate such adverse effects and such nuisance; and
b) prevent the likelihood of any recurrence of the circumstances that gave rise to such adverse effects and / or such nuisance</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>4-L1</td><td>The irrigation of effluent must be carried out in a manner such that:
a) vegetation is not damaged;
b) soil erosion and soil structure damage is avoided;</td></tr>
</table>

	c) there is no surface ponding of effluent; d) percolation of effluent beyond the plant root zone is minimised e) the capacity of the **land** to assimilate nitrogen, phosphorous, salts, organic matter as measured by oxygen demand and water is not exceeded; and f) the quality of ground water is not adversely affected.
4-L2	Notices must be prominently displayed on any effluent irrigation area warning the public that the area is irrigated with effluent and not to use or drink effluent and not use or drink the effluent. These notices must be maintained in a visible and legible condition.
4-L3	When conditions prevent the irrigation of treated effluent to **land** (such as during rain events), alternative measures must be taken to store/dispose of effluent (such as wet weather storage or tankering of **site**).
4-L4	Spillage of all chemicals and fuels must be contained within an on-**site** containment system and controlled in a manner that prevents environmental harm. *NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with* AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

Definitions for Part 4

Key terms and/or phrases used in Part 4 of 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.

Administering authority means the Department of Environment and Science or its successor.

Authorised place means the place authorised under this environmental authority for the carrying out of the specified environmentally relevant activities.

Commercial place means a place used as an office or for business or commercial purposes.

cfu means colony forming units.

Dust sensitive place means-

a) a **dwelling**, mobile home or caravan park, residential marine or other residential place;
b) a motel, hotel or hostel;
c) a kindergarten, school, university or other educational institution;
d) a medical centre or hospital;
e) a **protected area**;
f) a park or gardens; or
g) a place used as an office or for business or commercial purposes; and includes the curtilage of any such place.

Dwelling means any of the following structures or vehicles that is principally used as a residence –

a) a house, unit, motel, nursing home or other building or part of a building;
b) a caravan, mobile home or other vehicle or structure on land;
c) a water craft in a marina.

$L_{Amax,adj,T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

Land means land excluding **waters** and the atmosphere.

mg/L means milligrams per litre.

MPN means most probable number of organisms.

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

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

Protected area means –

a) a protected area under the *Nature Conservation Act 1992*; or
b) a marine park under the *Marine Parks Act 2004*; or
c) a World Heritage Area.

Site means the place to which this environmental authority relates or the premises to which this environmental authority relates.

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.

Part 5 – Yarraman STP (former WT0065)

Environmentally Relevant Activity	Locations
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) 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	Yarraman STP - Lot 1/RP147135; Lot 2/RP147135; Lot 3/RP147135; and Lot 1/RP184406.

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

Agency interest: General	
Condition number	**Condition**
5-G1	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
5-G2	Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
5-G3	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
5-G4	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
5-G5	All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
5-G6	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
5-G8	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: a) time, date and nature of complaint; b) type of communication (telephone, letter, personal etc.);

	c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); d) response and investigation undertaken as a result of the complaint; e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and signature of responsible person.
5-G9	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the preceding year are prepared by 31 March each year, and are submitted to the **administering authority** upon request.
5-G10	A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; b) any uncontrolled release of contaminants reasonably likely to cause environmental harm and c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire-fighting equipment.
5-G11	Where the licensee has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
5-G12	Where the licensee has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number 5-G11 must include but not be limited to the following: a) the holder of the environmental authority; b) the location of the emergency or incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time the holder of the environmental authority became aware of the release; g) the suspected cause of the release; h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
5-G13	Where the licensee has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number 5-G12 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance, and
5-G14	The holder of this environmental authority must notify the **administering authority** in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.
5-G15	The written notification required by condition number 5-G14 above must include: a) the full analysis results; and b) details of investigation or corrective actions taken; and c) any subsequent analysis.

Agency interest: Air	
Condition number	**Condition**
5-A1	In the event of a complaint being made to the **administering authority** about odour generated on the licensed place that constitutes annoyance and the **administering authority** considers that complaint to be neither frivolous or vexatious, the holder of this environmental authority must take measures to mitigate the odour source to minimise noxious or offensive odour being released beyond the boundaries of the licensed place.
Agency interest: Water	
Condition number	**Condition**
5-WT1	Contaminants must not be released to any waters.
5-WT2	All ponds or dams used for the storage or treatment of wastewater at the sewage treatment plant must maintain a suitable freeboard at all times to prevent the direct discharge of contaminated liquid through the banks or sides of the storage.
5-WT3	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur, including but not limited to: a) active disposal trenches; b) area used for the storage of wastes; and c) area previously used for wastes disposal.
Agency interest: Land	
Condition number	**Condition**
5-L1	The defined contaminant release area is described as the irrigation area located on Lot 1 of RP184406, Parish of Cooyar and Country of Cavendish.
5-L2	The contaminant/s released must comply, at the sampling and in-situ measurement point/s specified in condition 5-L4, with each of the release limits specified in Part 5 Table 1 - Release Quality Characteristic Limits for each quality characteristic.

Part 5 Table 1 - Release Quality Characteristic Limits

Quality Characteristics	Release Point Number *	Release Limit	Limit Type
5-day Biochemical Oxygen Demand (**mg/L**)	W3	60	**maximum**
5-day Biochemical Oxygen Demand (**mg/L**)	W3	20	long term 85 percentile compliance
Suspended Solids (**mg/L**)	W3	90	**maximum**
Suspended Solids (**mg/L**)	W3	30	long term 85 percentile compliance
pH (pH Units)	W3	6.5-8.5	**range**
E. coli (**cfu**/100ml or **MPN**/100ml)	W3	1000 **cfu**/100ml or **MPN**/100ml as a median value, with 4 out of 5 consecutive water samples containing less than 4000 **cfu**/100ml or **MPN**/100ml.	

***** W3 - Exit point from the secondary sedimentation tank, prior to the final lagoon, at the Sewage Treatment Plant at Barr-Smith Street, Yarraman, Parish of Cooyar.

<table>
<tr><td>5-L3</td><td>The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Part 5 Table 2 – Monitoring Frequency.

Part 5 Table 2 – Monitoring Frequency
<table>
<tr><th>Quality Characteristic Determination</th><th>Release Points</th><th>Frequency</th></tr>
<tr><td>Suspended Solids</td><td>W1, W3</td><td>Quarterly when release occurs</td></tr>
<tr><td>pH</td><td>W1, W3</td><td>Quarterly when release occurs</td></tr>
<tr><td>Extractable Aluminium</td><td>W1</td><td>Quarterly when release occurs</td></tr>
<tr><td>5-day Biochemical Oxygen Demand</td><td>W3</td><td>Quarterly when release occurs</td></tr>
<tr><td>E. coli</td><td>W3</td><td>Quarterly when release occurs</td></tr>
</table></td></tr>
<tr><td>5-L4</td><td>Determinations of the quality of contaminants released to irrigation area to check conformity with the release quality characteristics specified in condition 5-L2 of this environmental authority must be undertaken at the sampling and measurement point described as:
Release Point W3 – Exit point from the secondary sedimentation tank, prior to the final lagoon, at the Yarraman Sewage Treatment Plant.</td></tr>
<tr><td>5-L5</td><td>All determinations of the quality of contaminants released to waters or irrigation must be made in accordance with methods prescribed in the administering authority's Water Quality Sampling Manual.</td></tr>
<tr><td>5-L6</td><td>All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.</td></tr>
<tr><td>5-L7</td><td>When weather conditions or soil conditions preclude the release of contaminants, the contaminants must be directed to a wet weather storage.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>5-N1</td><td>In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Part 5 Table 3 – Noise Limits until the circumstances which gave rise to the complaint are resolved.
Part 5 Table 3 – Noise Limits
<table>
<tr><th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 5 dB(A)</td><td>7 am - 10 pm</td></tr>
<tr><td>Background noise level plus 3 dB(A)</td><td>10 pm - 7 am</td></tr>
<tr><th>Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 10 dB(A)</td><td>7 am - 10 pm</td></tr>
<tr><td>Background noise level plus 8 dB(A)</td><td>10 pm - 7 am</td></tr>
</table></td></tr>
<tr><td>5-N2</td><td>In the event of a complaint about noise that the administering authority considers is reasonable, then the holder of this environmental authority must monitor and record the $L_{Amax,adj,T}$ and Background noise level at the noise sensitive place and or commercial place from where the complaint originates during the operation period.</td></tr>
<tr><td>5-N3</td><td>The method of measurement and reporting of noise levels must comply with the administering authority's Noise Measurement Manual.</td></tr>
<tr><td>5-N4</td><td>The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.</td></tr>
</table>

Definitions for Part 5

Key terms and/or phrases used in Part 5 of 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.

Administering authority means the Department of Environment and Science or its successor.

mg/L means milligrams per litre.

cfu means colony forming units.

MPN means most probable number of organisms.

Maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

$\mathbf{L_{Amax,adj,T}}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

Background noise level means either:

a) $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
b) $L_{Abg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

Noise sensitive place means -

a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
b) a motel, hotel or hostel; or
c) a kindergarten, school, university or other educational institution; or
d) a medical centre or hospital; or
e) a protected area; or
f) a public park or gardens.

Commercial place means a place used as an office or for business or commercial purposes.

Part 6 – Westbrook STP (former WT0517DA)

Environmentally Relevant Activity	Location
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) 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	Westbrook STP 1/SP298670

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

Agency interest: General	
Condition number	**Condition**
6-G1	In carrying out the environmentally relevant activities, **you** must take all reasonable and practicable measures to prevent and / or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner in accordance with the conditions of this approval. *NOTE: This approval authorises the environmentally relevant activity. It does not authorise environmental harm unless a condition contained within this approval explicitly authorises that harm. Where there is no condition or the approval is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.*
6-G2	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
6-G3	Record, compile and keep all monitoring results required by this environmental authority and present this information to the **administering authority** when requested, in a specified format.

6-G4	An annual monitoring report must be prepared by 31 March each year, and submitted to the **administering authority** upon request. This report shall include but not be limited to: a) a summary of the previous twelve (12) months' monitoring results obtained under any monitoring programs required under this authority and, in graphical form showing relevant limits, a comparison of the previous twelve (12) month's monitoring results to both this authority limits and to relevant prior results; and b) an evaluation/explanation of the data from any monitoring programs; and c) a summary of any record of quantities of releases required to be kept under this authority; and d) a summary of the record of equipment failures or events recorded for any **site** under this authority; and e) an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs; and f) the number of domestic tenements newly connected to the sewage treatment works during the previous twelve (12) months; and g) the progressive total number of connections; and h) a summary of any trade waste agreements entered into or amended during the year, including the nature of the industry.
6-G5	All complaints received must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the **administering authority** on request.
Agency interest: Air	
Condition number	**Condition**
6-A1	The release of noxious or **offensive** odours or any other noxious or **offensive** airborne contaminants resulting from the activity must not cause a nuisance at any odour sensitive place.
Agency interest: Water	
Condition number	**Condition**
6-WT1	Contaminants must not be released from the **site** to any **waters** or the bed and banks of any **waters**.
6-WT2	There must be no release of stormwater runoff that has been in contact with any contaminants at the **site** to any **waters**, roadside gutter or stormwater drain.
6-WT3	Contaminant pumping stations must be fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.
6-WT4	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorised place must be constructed, installed and maintained: a) so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including ground water); b) so that a freeboard of not less than 1.0m metres is maintained at all times, except in emergencies; and c) so as to ensure the stability of the ponds' construction.
6-WT5	Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any ponds or other structures used for the storage or treatment of contaminants or wastes.

<table>
<tr><th colspan="2">Agency interest: Land</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>6-L1</td><td>The only contaminant permitted to be released to land is treated sewage effluent to the areas shown in Figure 2 of the Environmental Impact Statement prepared by Jondaryan Shire Council for Westbrook Sewage Reuse Scheme in compliance with the limits levels stated in Part 6 Table 1 – Release limits to land and the conditions of this authority.

Part 6 Table 1 – Release limits to land
<table>
<tr><th>Quality characteristics</th><th>Maximum</th><th>Range</th></tr>
<tr><td>BOD_5</td><td>20 mg/L</td><td>-</td></tr>
<tr><td>Suspended Solids</td><td>30 mg/L</td><td>-</td></tr>
<tr><td>pH</td><td>-</td><td>6.5 - 8.5</td></tr>
<tr><td>E. coli</td><td>1000 cfu/100ml or MPN/100ml</td><td>-</td></tr>
<tr><td>Total Dissolved Solids</td><td>-</td><td>0 - 2000 mg/L</td></tr>
</table></td></tr>
<tr><td>6-L2</td><td>The irrigation of effluent must be carried out in a manner such that:
a) vegetation is not damaged;
b) soil erosion and soil structure damage is avoided;
c) there is no surface ponding of effluent;
d) percolation of effluent beyond the plant root zone is minimised;
e) the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and
f) the quality of ground water is not adversely affected.</td></tr>
<tr><td>6-L3</td><td>Notices must be prominently displayed on any effluent irrigation area warning the public that the area is irrigated with effluent and not to use or drink the effluent. These notices must be maintained in a visible and legible condition.</td></tr>
<tr><td>6-L4</td><td>Monitoring must be undertaken and records kept of a monitoring program of contaminant releases to the irrigation area at the monitoring points, frequency, and for the parameters specified in Part 6 Table 2 – Monitoring frequency.

Part 6 Table 2 – Monitoring frequency
<table>
<tr><th>Monitoring point</th><th>Quality characteristics</th><th>Units</th><th>Frequency</th></tr>
<tr><td>STP outlet</td><td>Suspended Solids</td><td>mg/L</td><td>monthly</td></tr>
<tr><td>STP outlet</td><td>BOD_5</td><td>mg/L</td><td>monthly</td></tr>
<tr><td>STP outlet</td><td>pH</td><td></td><td>Daily</td></tr>
<tr><td>STP outlet</td><td>E. coli</td><td>cfu/100ml or MPN/100ml</td><td>monthly</td></tr>
<tr><td>STP outlet</td><td>Total N</td><td>mg/L</td><td>annually</td></tr>
<tr><td>STP outlet</td><td>Total P</td><td>mg/L</td><td>annually</td></tr>
<tr><td>STP outlet</td><td>Sodium Absorption Ratio</td><td></td><td>annually</td></tr>
</table></td></tr>
<tr><td>6-L5</td><td>The daily volume of contaminants released to land must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.</td></tr>
</table>

6-L6	When conditions prevent the irrigation of treated effluent to **land** (such as during or following rain events), the contaminants must be directed to a wet weather storage or alternative measures must be taken to store/lawfully dispose of effluent (such as wet weather storage or tanking off **site** to another treatment plant or sewer). A record must be kept of any removal or discharge off **site**, including destination, transporter, dates and volumes.
Agency interest: Noise	
Condition number	**Condition**
6-N1	Noise from activities must not cause an environmental nuisance at any noise affected premises.
Agency interest: Waste	
Condition number	**Condition**
6-W1	All **regulated waste** removed from the **site** must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.

Definitions for Part 6

Key terms and/or phrases used in Part 6 of 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.

cfu means colony forming units.

MPN means most probable number of organisms.

Administering authority means the Department of Environment and Science or its successor.

You means the holder of this Environmental Authority or owner / occupier of the land which is the subject of this environmental authority.

Site means the place to which this environmental authority relates or the premises to which this environmental authority relates.

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

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.

Land means land excluding waters and the atmosphere.

mg/L means milligrams per litre.

Regulated waste means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 2019.

Part 7 – Clifton STP (former WT0076)

Environmentally Relevant Activity	Location
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-ii) more than 100 but not more than 1500EP otherwise	Clifton STP - Lot 1/SP106958

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

Agency interest: General	
Condition number	**Condition**
7-G1	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
7-G2	Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
7-G3	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
7-G4	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
7-G5	All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
7-G6	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
7-G7	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: a) time, date and nature of complaint; b) type of communication (telephone, letter, personal etc.); c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then “Not identified” is to be recorded);

	d) response and investigation undertaken as a result of the complaint; e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and signature of responsible person.
7-G8	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the preceding year are prepared by 31 March each year, and are submitted to the **administering authority** upon request.
7-G9	A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; b) any uncontrolled release of contaminants reasonably likely to cause environmental harm; and c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire fighting equipment.
7-G10	Where the licensee has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
7-G11	Where the licensee has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number 7-G10 must include but not be limited to the following: a) The holder of the environmental authority; b) the location of the emergency or incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time the holder of the environmental authority became aware of the release; g) the suspected cause of the release; h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
7-G12	Where the licensee has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number 7-G11 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; and b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
7-G13	The holder of this environmental authority must notify the **administering authority** in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.
7-G14	The written notification required by condition number 7-G13 above must include: a) the full analysis results; and b) details of investigation or corrective actions taken; and c) any subsequent analysis.
7-G15	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.

<table>
<tr><th colspan="2">Agency interest: Air</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>7-A1</td><td>In the event of a complaint made to the administering authority about odour generated on the licensed place that constitutes annoyance and the administering authority considers that complaint to be neither frivolous or vexatious, the holder of this environmental authority must take measures to mitigate the odour source to minimise noxious or offensive odour being released beyond the boundaries of the licensed place.</td></tr>
<tr><th colspan="2">Agency interest: Water</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>7-WT1</td><td>The only contaminants permitted to be released from the licensed place (sewage treatment plant) at the release point W1 are sewage treatment effluent from the Clifton Sewage Treatment Plant.</td></tr>
<tr><td>7-WT2</td><td>Contaminants must not be directly or indirectly released from any source on the licensed places to any waters at any location other than the contaminants and sources at the locations listed below:
Release Point W1 - Kings Creek at a location described as the downstream boundary of Portion 1454, Parish of Elphinstone at 25 km AMTD.</td></tr>
<tr><td>7-WT3</td><td>The release of contaminants to waters must comply, at the sampling and in situ measurement point specified in condition 7-WT5, with each of the limits specified in Part 7 Table 1 – Release Quality Characteristic Limits for each quality characteristic.

Part 7 Table 1 – Release Quality Characteristic Limits
<table>
<tr><th>Quality Characteristics</th><th>Release Point Number</th><th>Release Limit</th><th>Limit Type</th></tr>
<tr><td>5-day Biochemical Oxygen Demand (mg/L)</td><td>W1</td><td>60</td><td>maximum</td></tr>
<tr><td>5-day Biochemical Oxygen Demand (mg/L)</td><td>W1</td><td>20 *</td><td>long term 85 percentile compliance</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>W1</td><td>90 **</td><td>maximum</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>W1</td><td>30 **</td><td>long term 85 percentile compliance</td></tr>
<tr><td>pH. (pH Units)</td><td>W1</td><td>6.5 - 9.3</td><td>range</td></tr>
<tr><td>Dissolved Oxygen (mg/L)</td><td>W1</td><td>2</td><td>minimum</td></tr>
<tr><td>E. coli (cfu/100ml or MPN/100ml)</td><td>W1</td><td colspan="2">1000 cfu/100ml or MPN/100ml as a median value, with 4 out of 5 consecutive water samples containing less than 4000 cfu/100ml or MPN/100ml.</td></tr>
</table>
* This release limit is applicable after 1 March 2001.
** These release limits are applicable after 1 March 2002.</td></tr>
<tr><td>7-WT4</td><td>The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Part 7 Table 2 – Monitoring Frequency.

Part 7 Table 2 – Monitoring Frequency
<table>
<tr><th>Quality Characteristic Determination</th><th>Release Points</th><th>Frequency</th></tr>
<tr><td>5-day Biochemical Oxygen Demand</td><td>W1</td><td>Quarterly when release occurs</td></tr>
<tr><td>Suspended Solids</td><td>W1</td><td>Quarterly when release occurs</td></tr>
<tr><td>pH</td><td>W1</td><td>Quarterly when release occurs</td></tr>
<tr><td>E. coli</td><td>W1</td><td>Quarterly when release occurs</td></tr>
</table></td></tr>
</table>

	Dissolved Oxygen | W1 | Quarterly when release occurs
7-WT5	Determinations of the quality of contaminants released to waters and for irrigation to check conformity with the release quality characteristics specified in condition 7-WT3 of this environmental authority must be undertaken at the sampling and measurement point described as: • Release Point W1 - Exit point of the final lagoon at the Clifton Sewage Treatment Plant.
7-WT6	All determinations of the quality of contaminants released to waters or irrigation must be made in accordance with methods prescribed in the **administering authority's** *Water Quality Sampling Manual.*
7-WT7	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
7-WT8	Pump stations whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be fitted with: a) screens; b) stand-by pumps; c) overflow storage facility; and d) pump-failure alarms. Pump failure alarms must be able to operate without mains power if such power failure occurs.
7-WT9	The holder of this environmental authority must carry out all proposed works in accordance with the Environmental Management Program approved by the **administering authority**.
7-WT10	All ponds or dams used for the storage or treatment of wastewater at the sewage treatment plant must maintain a suitable **freeboard** at all times to prevent the direct discharge of contaminated liquid through the banks or sides of the storage.
Agency interest: Noise	
Condition number	**Condition**
7-N1	In the event of a complaint about noise that the **administering authority** considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Part 7 Table 3 – Noise Limits until the circumstances which gave rise to the complaint are resolved.

Part 7 Table 3 – Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 5 dB(A)	7 am - 10 pm
Background noise level plus 3 dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
Background noise level plus 10 dB(A)	7 am - 10 pm
Background noise level plus 8 dB(A)	10 pm - 7 am

7-N2	In the event of a complaint about noise that the **administering authority** considers is reasonable, then the holder of this environmental authority must monitor and record the **$L_{Amax\ adj,T}$** and **background noise level** at the **noise sensitive place** and/or **commercial place** from where the complaint originates during the operation period.
7-N2	The method of measurement and reporting of noise levels must comply with the **administering authority's** *Noise Measurement Manual*.
7-N4	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Definitions for Part 7

Key terms and/or phrases used in Part 7 of 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.

Administering authority means the Department of Environment and Science or its successor.

cfu mans colony forming units.

mg/L means milligrams per litre.

Median means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

Maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

Minimum means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

MPN means most probable number of organisms.

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

$L_{Amax\ adj,T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

Background noise level means either:

a) $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
b) $L_{Abg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

Noise sensitive place means -

a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
b) a motel, hotel or hostel; or
c) a kindergarten, school, university or other educational institution; or
d) a medical centre or hospital; or
e) a protected area; or
f) a public park or gardens.

Commercial place means a place used as an office or for business or commercial purposes.

Freeboard means the vertical distance between the water surface and any overflow point.

Part 8 – Oakey STP and Waste disposal (former WT0021)

Environmentally Relevant Activities	Locations
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (d) more than 4000 but not more than 10,000EP	Oakey STP Lot 1/RP136801
ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t	Oakey STP Lot 1/RP136801

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
8-G1	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
8-G2	Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
8-G3	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
8-G4	All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
8-G5	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
8-G6	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.

8-G7	The holder of this environmental authority shall ensure that the operation and maintenance of the sewage treatment plant and refuse tips is carried out by or under the supervision of a person competent to operate and maintain the sewage treatment plant and refuse tips.
8-G8	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: a) time, date and nature of complaint; b) type of communication (telephone, letter, personal etc.); c) name, contact address and contact telephone number of complainant *(Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);* d) response and investigation undertaken as a result of the complaint; e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and signature of responsible person.
8-G9	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the preceding year are prepared by 31 March each year, and are submitted to the **administering authority** upon request.
8-G10	A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; b) any uncontrolled release of contaminants reasonably likely to cause environmental harm; and c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire fighting equipment.
8-G11	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
8-G12	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number 8-G11 must include but not be limited to the following: a) the holder of the environmental authority; b) the location of the emergency or incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time the holder of the environmental authority became aware of the release; g) the suspected cause of the release; h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
8-G13	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental

<table>
<tr><td></td><td>authority must provide written advice of the information supplied in accordance with condition number 8-G12 in addition to:
a) proposed actions to prevent a recurrence of the emergency or incident; and
b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.</td></tr>
<tr><td>8-G14</td><td>The holder of this environmental authority must notify the administering authority in writing within 28 days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.</td></tr>
<tr><td>8-G15</td><td>The written notification required by condition number 8-G14 above must include:
a) the full analysis results, and
b) details of investigation or corrective actions taken, and
c) any subsequent analysis.</td></tr>
<tr><td colspan="2">Agency interest: Water</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>8-WT1</td><td>Contaminants must not be directly or indirectly released from the licensed place to any waters, including groundwater, or bed and banks of any waters.</td></tr>
<tr><td>8-WT2</td><td>The only contaminant permitted to be released from the licensed place at the release points W1 & W2 is sewage treatment effluent from the chlorine contact tank.</td></tr>
<tr><td>8-WT3</td><td>Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the contaminants and sources at the locations listed below:
• Release Point W1 - Sewage Treatment effluent from the treatment plant, discharged to waters described as the Oakey Creek at 84km AMTD; and
• Release Point W2 - Sewage Treatment effluent from the treatment plant, discharged to the Water Bird Habitat located on Lot 54 Plan A34012 (Longitude 151.70825; Latitude -27.4685).</td></tr>
<tr><td>8-WT4</td><td>The release of contaminants to waters must comply, at the sampling and in situ monitoring point/s specified in condition 8-WT5, with each of the limits specified in Part 8 Table 1 – Release Quality Characteristic Limits, for each quality characteristic.

Part 8 Table 1 – Release Quality Characteristic Limits
<table>
<tr><th>Quality Characteristics</th><th>Sampling Point</th><th>Release Limit</th><th>Limit Type</th></tr>
<tr><td>5-day Biochemical Oxygen Demand (mg/L)</td><td>Prior to chlorination</td><td>15</td><td>85th percentile</td></tr>
<tr><td>5-day Biochemical Oxygen Demand (mg/L)</td><td>Prior to chlorination</td><td>44</td><td>maximum</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>Prior to chlorination</td><td>20</td><td>85th percentile</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>Prior to chlorination</td><td>58</td><td>maximum</td></tr>
<tr><td>pH (pH Units)</td><td>Prior to chlorination</td><td>6.5 - 8.5</td><td>range</td></tr>
<tr><td>Dissolved Oxygen (mg/L)</td><td>Prior to chlorination</td><td>2</td><td>minimum</td></tr>
<tr><td>Free Residual Chlorine (mg/L)</td><td>Chlorine contact tank outlet</td><td>0.7</td><td>maximum</td></tr>
<tr><td>E. coli (cfu/100ml or MPN/100ml)</td><td>Chlorine contact tank outlet</td><td colspan="2">1000 cfu/100ml or MPN/100ml as a median value. 4 out of 5 consecutive samples containing less than 4000 cfu/100ml or MPN/100ml.</td></tr>
</table></td></tr>
<tr><td>8-WT5</td><td>Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition 8-WT4 of this environmental authority must</td></tr>
</table>

<table>
<tr><td></td><td>be undertaken at the sampling and in situ monitoring point(s) described in Part 8 Table 1 – Release Quality Characteristic Limits.</td></tr>
<tr><td>8-WT6</td><td>The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Part 8 Table 2 – Required Release Point Determinations.
Part 8 Table 2 – Required Release Point Determinations
<table>
<tr><th>Determination Required</th><th>Frequency</th></tr>
<tr><td>5-Day Biochemical Oxygen Demand</td><td>monthly</td></tr>
<tr><td>Suspended Solids</td><td>monthly</td></tr>
<tr><td>pH</td><td>monthly</td></tr>
<tr><td>Dissolved Oxygen</td><td>monthly</td></tr>
<tr><td>Free Residual Chlorine</td><td>monthly</td></tr>
<tr><td>E. coli</td><td>monthly</td></tr>
</table></td></tr>
<tr><td>8-WT7</td><td>All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the administering authority's Water Quality Sampling Manual.</td></tr>
<tr><td>8-WT8</td><td>Pump station failure must not result in a direct or indirect release of contaminants to waters more than once every 10 years except as a result of power failure, excessive rainfall, accidental damage or other emergency.</td></tr>
<tr><td>8-WT9</td><td>The only pump stations permitted to release contaminants to any waters are those listed below at the corresponding overflow locations:
Part 8 Table 3 – Pump Stations
<table>
<tr><th>Pump Station</th><th>Street / Location</th><th>Discharge Location</th></tr>
<tr><td>A</td><td>Cherry Street</td><td>Oakey Creek</td></tr>
<tr><td>C</td><td>Cemetery - Cunningham Street</td><td>Oakey Creek</td></tr>
<tr><td>D</td><td>Wheatboard - Beale Street</td><td>Oakey Creek</td></tr>
<tr><td>E</td><td>Lowry Street</td><td>Oakey Creek</td></tr>
<tr><td>F</td><td>Stanley Street</td><td>Oakey Creek</td></tr>
<tr><td>G</td><td>Lorrimer Street</td><td>Oakey Creek</td></tr>
<tr><td>J</td><td>Gayle Street</td><td>Oakey Creek</td></tr>
</table></td></tr>
<tr><td>8-WT10</td><td>Pump stations whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be fitted with screens, a stand-by and duty pump, overflow storage facility and pump-failure alarms. Pump failure alarms must be able to operate without mains power if such power failure occurs.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>8-N1</td><td>The emission of noise from the licensed activity shall conform to the contents of the Environmental Protection (Noise) Policy 2019.</td></tr>
<tr><td colspan="2">Agency interest: Waste</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>8-W1</td><td>The holder of this environmental authority must not:
a) allow waste to burn or be burned at or on the licensed place; nor
b) remove waste from the licensed place and burn such waste elsewhere.</td></tr>
</table>

8-W2	Where regulated waste is removed from the licensed place (other than by a release as permitted under this environmental authority), the holder of this environmental authority must monitor and keep records of the following: a) the date, quantity and type of waste removed; and b) name of the waste transporter and/or disposal operator that removed the waste; and c) the intended treatment/disposal destination of the waste.
8-W3	If the holder of this environmental authority becomes aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or is improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the **administering authority** of all relevant facts, matters and circumstances known concerning the disposal.

Definitions for Part 8

Key terms and/or phrases used in Part 8 of 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.

Administering authority means the Department of Environment and Science or its successor.

cfu means colony forming units.

mg/L means milligrams per litre.

Median means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

Maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

Minimum means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

MPN means most probable number of organisms.

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

85th percentile means that the measured values of the quality characteristic must not be greater than the release limit for any more than 3 out of 20 consecutive samples where the time interval between the taking of each consecutive sample is not less than three days.

Part 9 – Wetalla STP & WRF, and Mount Kynoch Water Treatement Plant General Conditions (former WT0070)

Environmentally Relevant Activities	Locations
Prescribed ERA, ERA 62 – Resource recovery and transfer facility operation, 1 Operating facility for receiving and storing, dismantling, baling or temporarily storing, (c) category 2 regulated waste	Wetalla WRF Lot 1/SP270010, Lot 16/RP34904 and Lot 17/RP34904
ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t	Wetalla WRF Lot 1/SP270010 Mount Kynoch Water Treatment Plant Lot 196/RP845660
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (g) more than 100,000EP	Wetalla WRF Lot 1/SP270010 and Lot 1/RP142669
ERA 64 - Water treatment 3: Treating 10ML or more raw water in a day	Mount Kynoch Water Treatment Plant Lot 196/RP845660

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
9-G1	A copy of this authority must be kept in a location readily accessible to personnel carrying out the activity.
9-G2	Any record or document required to be kept by a condition of this authority must be kept at the Toowoomba Regional Council Administration Centre, and where practicable to do so, at the licensed place at which the activities are carried out for a period of, except as otherwise provided, at least five (5) years and be available for examination by an **authorised person**. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
9-G3	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this authority. *NOTE: An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment. The authority is issued on the basis of risk factors related by the applicant at the time of the application and conditions developed accordingly.*
9-G4	All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
9-G5	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this authority must be calibrated, and appropriately operated and maintained.
9-G6	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations,

	closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
9-G7	All persons engaged in the conduct of the activity, including but not limited to employees and contract staff, must be: a) trained in the procedures and practices necessary to comply with the conditions of this environmental authority, or b) under the supervision of such a trained person.
9-G8	All complaints received by the holder of this authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: a) time, date and nature of complaint; b) type of communication (telephone, letter, personal etc.); c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); d) response and investigation undertaken as a result of the complaint; e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and name of actioning officer.
9-G9	As soon as practicable after becoming aware of any emergency or incident that results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this authority, the holder of this authority must notify the **administering authority** of the release by telephone or facsimile.
9-G10	The notification of emergencies or incidents as required by condition 9-G9 must include but not be limited to the following: a) the holder of the authority; b) the location of the emergency or incident; c) the number of the authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time the holder of the authority became aware of the release; g) the suspected cause of the release; h) the environmental harm caused, threatened, or suspected to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm caused by the release. *NOTE: Any relevant notification given under section 320 or section 350 of the* Environmental Protection Act 1994 *that contains the information specified in condition 9-G10 is also notification under condition 9-G9.*
9-G11	Not more than 14 days following the initial notification of an emergency or incident, the holder of the authority must provide written advice of the information supplied in accordance with condition 9-G10 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; and b) outcomes of actions taken at the time to prevent or minimise environmental harm.
9-G12	As soon as practicable, but not more than six weeks following the conduct of any environmental monitoring performed in relation to the emergency or incident, that results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the

	conditions of this authority, the holder of the authority must provide written advice of the results of any such monitoring performed to the **administering authority**.
9-G13	The holder of this authority must notify the **administering authority** in writing of any monitoring result that indicates an exceedance of or non-compliance with any authorised limit within 28 days of completion of analysis.
9-G14	The written notification required by condition number 9-G13 above must include: a) the full analysis results; and b) details of investigation or corrective actions taken; and c) any subsequent analysis. *NOTE: Any relevant notification given under section 320 or section 350 of the* Environmental Protection Act 1994 *that contains the information specified in condition 9-G14 is also notification under condition 9-G13.*
9-G15	All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the **administering authority's** *Water Quality Sampling Manual*.
9-G16	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
9-G17	A record must be maintained of at least the following events: a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; b) any uncontrolled release of contaminants reasonably likely to cause environmental harm; and c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire fighting equipment.
Agency interest: Noise	
Condition number	**Condition**
9-N1	For the purposes of checking compliance with conditions 10-N1 and 11-N1 of this environmental authority, monitoring and recording of the noise levels from the activity/activities must be undertaken for the following descriptors, characteristics and conditions: a) $\mathbf{L_{Amax,\ Adj\ T}}$; b) $L_{Abg,\ T}$ or $L_{A90,\ T}$; c) $L_{AN,\ T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); d) the level and frequency of occurrence of impulsive or tonal noise; e) atmospheric conditions including temperature, relative humidity and wind speed and direction; f) effects due to extraneous factors such as traffic noise; and g) location, date and time of recording.
9-N2	In the event of a complaint about noise that constitutes an unreasonable **intrusive noise** being made to the **administering authority** that the **administering authority** considers is not frivolous or vexatious, the holder of this authority must undertake monitoring to investigate such a complaint upon written request from the **administering authority**.
9-N3	The method of measurement and reporting of noise levels must comply with the **administering authority's** *Noise Measurement Manual*.
9-N4	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Part 10 – Mount Kynoch Water Treatement Plant Site Specific Conditions (former WT0070)

Environmentally Relevant Activities	Locations
ERA 64 - Water treatment 3: Treating 10ML or more raw water in a day	Mount Kynoch Water Treatment - Plant Lot 196/RP845660
ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t	Mount Kynoch Water Treatment - Plant Lot 196/RP845660

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
10-G1	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with Part 10 of this environmental authority for the 12 month period ending on 31 December each year are prepared by 31 March the subsequent year, and are submitted to the **administering authority** upon request.
Agency interest: Air	
Condition number	**Condition**
10-A1	The only contaminants permitted to be released from the authorised place to the atmosphere are fumes, smoke and odours from laboratory cabinets, ovens and exhaust systems in accordance with condition 10-A2 and air displaced from the bulk lime storage and handling facility in accordance with condition 10-A3.
10-A2	The release of fumes, smoke and odours from laboratory cabinets, ovens and exhaust systems shall be directed to chimneys having an opening above the crest of roof structures at adequate heights to provide for effective dispersion of the exhaust gas and to prevent the release being drawn downwards by building wake effects.
10-A3	All contaminants leaving the bulk lime storage and handling facility must be treated in a fabric filter dust collector (FFDC).
10-A4	All collected material removed from the FFDC must be removed and disposed of in a manner that will not cause the release of contaminants to the atmosphere or to waters.
Agency interest: Water	
Condition number	**Condition**
10-WT1	The authority holder shall take all reasonable and practicable measures necessary to recirculate sand filter backwash water from the wastewater recovery **tanks** to raw water supplies for potable use.
10-WT2	The only contaminants permitted to be released from the licensed place at the release point KR1 are sand filter backwash water surcharged from the wastewater recovery **tanks** under circumstances of high demands for potable water supplies or other operational circumstances causing the quantity of backwash water produced to exceed the capacity of the recirculation system.

<table>
<tr><td>10-WT3</td><td>Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the authorised place to any waters at any location other than the contaminants and sources at the locations listed below:
Release point KR1 - Excess sand filter backwash waste surcharge from the wastewater recovery tanks to waters described as an unnamed watercourse flowing to Gowrie Creek at GDA94/MGA zone 56 E 396374.4 N 6956772.1 (Refer to Appendix 1, Figure 1).</td></tr>
<tr><td>10-WT4</td><td>The total quantity of contaminants released from release point KR1 during any day must not exceed 20 cubic metres.</td></tr>
<tr><td>10-WT5</td><td>The release of contaminants to waters must comply, at the sampling and in situ monitoring point/s specified in 10-WT9, with each of the limits specified in Part 10 Table 1 – Release Quality Characteristic Limits.

Part 10 Table 1 – Release Quality Characteristic Limits
<table>
<tr><th>Quality Characteristics</th><th>Release Point Number</th><th>Release Limit</th><th>Limit Type</th></tr>
<tr><td>Suspended Solids (mg/L)</td><td>KR1</td><td>80</td><td>Maximum</td></tr>
<tr><td>pH (pH Units)</td><td>KR1</td><td>6.5 - 8.5</td><td>Range</td></tr>
<tr><td>Total Dissolved Salts (calculated) (mg/L)</td><td>KR1</td><td>500</td><td>Maximum</td></tr>
<tr><td>Total Aluminium (mg/L)</td><td>KR1</td><td>0.1 *</td><td>Maximum</td></tr>
<tr><td>Turbidity (NTU)</td><td>KR1</td><td>10 *</td><td>Maximum</td></tr>
</table>
* Note: The release limits shown in Part 10 Table 1 – Release Quality Characteristic Limits for Turbidity and Total Aluminium are to be achieved by 1 March 2001. Until 1 March 2001 a maximum release limit for Turbidity of 50 NTU and for Total Aluminium of 10 mg/L shall apply.</td></tr>
<tr><td>10-WT6</td><td>On or before 1 March 2001 the holder of this authority must prepare and submit to the administering authority a site based environmental management plan to address at least the following matters:
a) assessment of the frequency and circumstances causing the release of wastes to waters in accordance with condition 10-WT2,
b) practices available to minimise the frequency and quantity of wastes released to waters,
c) practices available to reduce the concentration of contaminants in the wastes,
d) a proposal for measures to be applied to reduce the frequency, quantity and concentration of contaminants and any other measures proposed to minimise the potential for environmental harm that may be caused by the release of wastes from this licensed place to waters.</td></tr>
<tr><td>10-WT7</td><td>Any treatment tank sludges and residues disposed on site shall have the batters of such deposits graded and compacted and shall as far as practicable be enclosed by stormwater diversion bunds and drains to prevent or minimise potential erosion and the transport of waste from the site caused by stormwater runoff.</td></tr>
<tr><td>10-WT8</td><td>The holder of this authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified Part 10 Table 2 – Required Monitoring Parameters and Frequencies.
Part 10 Table 2 – Required Monitoring Parameters and Frequencies
<table>
<tr><th>Quality Characteristic Determination</th><th>Release Points</th><th>Frequency</th></tr>
<tr><td>Suspended Solids</td><td>KR1</td><td>Each Event</td></tr>
<tr><td>pH</td><td>KR1</td><td>Each Event</td></tr>
<tr><td>Total Dissolved Salts (calculated)</td><td>KR1</td><td>Each Event</td></tr>
<tr><td>Total Aluminium</td><td>KR1</td><td>Each Event</td></tr>
<tr><td>Turbidity</td><td>KR1</td><td>Each Event</td></tr>
</table></td></tr>
</table>

10-WT9	Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition 10-WT5 of this authority must be undertaken at the sampling and in situ monitoring point(s) described as: • KS1 – Invert of Overflow Weir at Inlet Box Wastewater Recovery Tank GDA94/MGA zone 56 E 396712.0 N 6956741.6
10-WT10	All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the **administering authority's** *Water Quality Sampling Manual*.
10-WT11	All determinations of the quality of contaminants released to waters must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
10-WT12	The quantity of contaminants released for each surcharge event must be determined by calculation of the total volume for each event based on sand filter backwash flow rates and the duration of each surcharge from the wastewater recovery **tanks**.
10-WT13	Records must be kept of the results of all determinations of the quantity of contaminants released to waters.
Agency interest: Land	
Condition number	**Condition**
10-L1	The defined contaminant release area is described as the treatment **tank dewatered** sludge storage disposal area (Refer to Appendix 1, Figure 3)
Agency interest: Noise	
Condition number	**Condition**
10-N1	In the event of a complaint about noise that the **administering authority** considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Part 10 Table 3 – Noise Limits until the circumstances which gave rise to the complaint are resolved.

Part 10 Table 3 – Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$	**Period**
Background noise level plus 5 dB(A)	7 am - 6 pm
Background noise level plus 5 dB(A)	6 pm - 10 pm
Background noise level plus 3 dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$	**Period**
Background noise level plus 10 dB(A)	7 am - 6 pm
Background noise level plus 10 dB(A)	6 pm - 10 pm
Background noise level plus 8 dB(A)	10 pm - 7 am

Agency interest: Waste	
Condition number	**Condition**
10-W1	Where **regulated waste** is removed from the licensed place (other than by a release as permitted under this environmental authority), the holder of this environmental authority must monitor and keep records of the following: a) the date, quantity and type of waste removed; and b) name of the waste transporter and/or disposal operator that removed the waste; and c) the intended treatment/disposal destination of the waste.

Part 11 – Wetalla STP and WRF Site Specific Conditions (former WT0070)

Environmentally Relevant Activities	Locations
ERA 56 - Regulated Waste Storage – Receiving and storing regulated waste	Wetalla WRF - Lot 1/SP270010; Lot 16/RP34904 and Lot 17/RP34904
ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t	Wetalla WRF - Lot 1/SP270010
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (g) more than 100,000EP	Wetalla WRF - Lot 1/SP270010 and Lot 1/RP142669

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
11-G1	The holder of this environmental authority must ensure that the annual summary of results of all monitoring performed in accordance with Part 11 of this environmental authority for the 12 month period ending on 31 December each year is prepared by 31 March the subsequent year, and is submitted to the **administering authority** upon request.
Agency interest: Air	
Condition number	**Condition**
11-A1	The release of fumes, smoke and odours from laboratory cabinets, ovens and exhaust systems shall be directed to chimneys having an opening above the crest of roof structures at adequate heights to provide for effective dispersion of the exhaust gas and to prevent the release being drawn downwards by building wake effects.
11-A2	A site based management plan shall be developed in accordance with the Action Plan for Air Emissions described in the Integrated Environmental Management System (prepared by Kinhill Pty Ltd (October 1997) and issued by the Toowoomba Regional Council in support of the licence application) to assess, manage and minimise the release of odours, dust, methane, chlorine and oxides of nitrogen from the licensed place.
11-A3	The Site Based Management Plan described in condition 11-A2 shall be prepared and submitted to the **administering authority** by 1 December 2000.
Agency interest: Water	
Condition number	**Condition**
11-WT1	The only contaminants permitted to be released from the licensed place at the release point WR2 are sewage treatment effluents from the Wetalla Water Reclamation Facility (WRF). The only contaminants permitted to be released from the licensed place at the release points WR3 and WR5 are Sewage Treatment Influent Overflows from the Wetalla Water Reclamation Facility (WRF).

<table>
<tr><td></td><td>Other Release Points - Sewage wastes from the sewage pump station overflows as provided for in this environmental authority.</td></tr>
<tr><td>11-WT2</td><td>Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the contaminants and sources at the locations listed below:
Release point WR2 – Wetalla WRF Final Effluent Outfall to Gowrie Creek at GDA 1994 MGA Zone 56 E394337.0 N6957263.5 (Refer to Figure 2a: Wetalla WRF – All Sample and Release Points, as at 14 December 2020, in Appendix 1 issued by the Toowoomba Regional Council); and
Release point WR5 – Wetalla WRF Preliminary Treatment Area (PTA) Overflow to Gowrie Creek at 3 to 5 times dry weather flow (screened) and at greater than 5 times dry weather flow a combination of screened and coarse screened at GDA 1994 MGA Zone 56 E394529.7 N6957007.1 (Refer to Figure 2a: Wetalla WRF – All Sample and Release Points, as at 14 December 2020, in Appendix 1 issued by the Toowoomba Regional Council); and
Other Release Points - Sewage wastes from the sewage pump station overflows as provided for in this environmental authority.</td></tr>
<tr><td>11-WT3</td><td>The total quantity of contaminants released from release point number WR2 during any dry weather day must not exceed 31000 cubic metres and during a wet weather day must not exceed 93000 cubic metres.

Wastes shall not be released from the release point numbered WR3 during any day when the Wetalla Sewage Treatment Plant receives less than 5 times the average dry weather flow adopted as the design capacity of the plant.

Wastes shall not be released from the release point numbered WR5 during any day when the Wetalla Sewage Treatment Plant receives less than 3 times the average dry weather flow adopted as the design capacity of the plant.</td></tr>
<tr><td>11-WT4</td><td>The release of contaminants to waters must comply, at the sampling and in situ monitoring point/s specified in condition 11-WT6, with each of the limits specified in Part 11 Table 1 – Release Quality Characteristic Limits for each quality characteristic.

Part 11 Table 1 – Release Quality Characteristic Limits
<table>
<tr><th>Quality Characteristics</th><th>Release Point Number</th><th>Release Limit</th><th>Limit Type</th></tr>
<tr><td>5-day Biochemical Oxygen Demand (mg/L)</td><td>WR2</td><td>10</td><td>long term 80th percentile</td></tr>
<tr><td>5-day Biochemical Oxygen Demand (mg/L)</td><td>WR2</td><td>29</td><td>maximum</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>WR2</td><td>15</td><td>long term 80th percentile</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>WR2</td><td>44</td><td>maximum</td></tr>
<tr><td>pH (pH Units)</td><td>WR2</td><td>6.5 – 8.5</td><td>Range</td></tr>
<tr><td>Dissolved Oxygen (mg/L)</td><td>WR2</td><td>2.0</td><td>minimum</td></tr>
<tr><td>Ammonia Nitrogen (mg/L)</td><td>WR2</td><td>1.0</td><td>long term 50th percentile</td></tr>
<tr><td>Ammonia Nitrogen (mg/L)</td><td>WR2</td><td>3.0</td><td>maximum</td></tr>
<tr><td>Total Nitrogen (mg/L)</td><td>WR2</td><td>5</td><td>long term 50th percentile</td></tr>
<tr><td>Total Nitrogen (mg/L)</td><td>WR2</td><td>15</td><td>maximum</td></tr>
<tr><td>Total Phosphorus as P (mg/L)</td><td>WR2</td><td>1.0</td><td>long term 50th percentile</td></tr>
<tr><td>Total Phosphorus as P (mg/L)</td><td>WR2</td><td>3.0</td><td>maximum</td></tr>
</table></td></tr>
</table>

	E. coli(**cfu**/100ml or **MPN**/100ml) | WR2 | 1000 **cfu**/100ml or **MPN**/100ml as a **median** value (minimum of 5 samples taken at not less than half-hourly intervals in any one day, with 4 out of the 5 samples containing less than 4000 **cfu**/100ml or **MPN**/100ml)
11-WT5	The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points at the frequency specified in Part 11 Table 2 – Monitoring Frequency. **Part 11 Table 3 – Monitoring Frequency** **Quality Characteristic Determination** | **Sampling And In-Situ Monitoring Points** | **Frequency** 5-day Biochemical Oxygen Demand | WS2, WS3, WS5 | Weekly/Each event Suspended Solids | WS2, WS3, WS5 | Weekly/Each event pH | WS2, WS3, WS5 | Weekly/Each event Dissolved Oxygen | WS2 | Weekly Ammonia Nitrogen | WS2, WS3, WS5 | Weekly **Total Nitrogen** | WS2, WS3, WS5 | Weekly Total Phosphorus as P | WS2, WS3, WS5 | Weekly E. coli (**cfu**/100ml or **MPN**/100ml) | WS2 | Weekly
11-WT6	Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition 11-WT4 of this environmental authority must be undertaken at the sampling and in situ monitoring point(s) described as: • WS2 – Wetalla WRF Outfall of Chlorination Contact Tanks at GDA 1994 MGA Zone 56 E394376.5 N6957157.9 (Refer to Figure 2a: Wetalla WRF – All Sample and Release Points, as at 14 December 2020, in Appendix 1 issued by the Toowoomba Regional Council); and • WS3 – Wetalla WRF Stage 4 Inlet Works at GDA 1994 MGA Zone 56 E394379.1 N 6956947.3 (Refer to Figure 2a: Wetalla WRF – All Sample and Release Points, and Figure 2b: Wetalla WRF – Inlet Works WS5 (3x) and WS3 (5x) Bypass Sample Points, as at 14 December 2020, in Appendix 1 issued by the Toowoomba Regional Council); and • WS5 – Wetalla WRF Preliminary Treatment Area Overflow Weir at GDA 1994 MGA Zone 56 E 394338.0 N 6956973.9 (Refer to Figure 2a: Wetalla WRF – All Sample and Release Points, and Figure 2b: Wetalla WRF – Inlet Works WS5 (3x) and WS3 (5x) Bypass Sample Points, as at 14 December 2020, in Appendix 1 issued by the Toowoomba Regional Council).
11-WT7	The daily quantity of contaminants released must be determined by flow measuring equipment installed at the licensed place and positioned and calibrated to provide a representative total daily volume released at release point WR2.
11-WT8	Records must be kept of the results of all determinations of the daily quantity of contaminants released to waters.
11-WT9	By 1 March 2008 the licensee shall undertake an investigation and provide a report to the Chief Executive addressing the wastewater acceptance, treatment, reuse and disposal practices that are being applied by the Toowoomba Regional Council and options that are proposed to be adopted on or before 1 March 2010 to ensure that the activities conducted under this part of this environmental authority are designed, operated and managed in accordance with the relevant best practice environmental management standards. In particular this investigation shall

	address, among other matters considered relevant, the management of the following contaminants: a) **Total Nitrogen** concentration of any wastes discharged to waters; b) Total Phosphorus concentration of any wastes discharged to waters; c) Total dissolved solids of any wastes discharged to waters or to **land**; d) Colour of any wastes discharged to waters and; e) Concentrations of pathogens, disinfectants and disinfection by-products to achieve the objectives of all National Water Quality Criteria, Catchment Management Strategies and the Environmental Values identified for Queensland Waters within the subject catchment.
11-WT10	The following pump stations are permitted to release contaminants to waters at the corresponding overflow locations during emergency circumstances caused by pump station or power supply failure, excessive rainfall or accidental damage:

Part 11 Table 4 – Sewage Pumping Stations

Pump Station	Location	Asset Owner	Type
TOPS01	Luck St North	TRC	Wet Well
TOPS02	Luck St South		Wet Well
TOPS03	Brisbane St B/H/Inn		Wet Well
TOPS04	Brisbane St D/School		Wet Well
TOPS05	Anzac Avenue / Alderley St		Wet Well
TOPS5A	Elizabeth / Kenny Crt		Wet Well
TOPS06	Hampton St		Wet Well
TOPS08	Brisbane Pl / Manor St		Wet Well
TOPS09	McDougall St		Wet Well
TOPS10	Boundary St South		Wet Well
TOPS11	Boundary St / Beacon Crt		Wet Well
TOPS12	Armstrong St		Wet Well
TOPS15	Handley St		Wet Well
TOPS21	Martini St		Wet Well
TOPS22	Wirra Wirra St / Macqueen St		Wet Well
TOPS23	Wirra Wirra St North		Wet Well
TOPS24	Wooldridge St		Wet Well
TOPS25	Bridge St East		Wet Well
TOPS26	Prince Henry Dve North		Wet Well
TOPS27	Panorama Cres East		Wet Well
TOPS28	East St West Side		Wet Well
TOPS29	East St East Side		Wet Well
TOPS30	Fletcher St		Wet Well
TOPS31	Curtis St		Wet Well
TOPS32	Old Toll Bar Rd		Wet Well
TOPS33	Eymard St		Wet Well
TOPS35	Cooloola Dve Easement West		Wet Well
TOPS36	Cooloola Dve Easement East		Wet Well
TOPS37	Rowbotham St		Wet Well
TOPS39	Mackenzie St North		Dry Well
TOPS40	Harvey St		Wet Well
TOPS42	Prince Henry Dve South		Dry Well
TOPS43	Mabel Street		Wet Well
TOPS44	Kensington Heights		Wet Well
TOPS45	Karaview Court		Dry Well Vacuum

	TOPS46	Mackenzie St	Sub-Division Asset	Wet Well
	TOPS47	Skye Court	Sub-Division Asset	Wet Well
	TOPS50	Greenwattle / Superbowl	TRC	Wet Well
	TOPS52	Glenvale Rd / Silky-Oak Dve		Wet Well
	TOPS53	Glenvale Rd / Nash Dve		Wet Well
	TOPS54	Greenwattle Street		Wet Well
	TOPS58	Mcdougall St / Euston Rd.		Wet Well
	TOPS60	South Street	Private	Wet Well
	TOPS61	Boundary Rd	Sub-Division Asset	Wet Well
	KTPS01	Mt Kynoch WTP	TRC	Wet Well
	S9106M02	Kitchener St / Creek St		Manhole Relief Structure
	S9106M11	Kitchener St South-East		Manhole Relief Structure
11-WT11	The licensee shall forward an updated list of all pump stations connected to the Wetalla Sewage Treatment Plant to the **administering authority** by 31 March each year.			
11-WT12	The licensee shall develop and implement a program to progressively estimate the frequency, duration and significance of environmental harm caused by overflows at each sewage pump station identified in this environmental authority. The licensee shall apply the results of such a program to determine a listing of priorities for installation of reserve pumping capacity and overflow storage capacity. NOTE: For the purpose of satisfying this condition a qualitative assessment of actual or predicted incidence of pump station failures and their duration and typical flows shall be undertaken.			
11-WT13	The licensee shall develop and implement a procedure for determining, in accordance with the foregoing assessment, a reasonable and practicable volume of overflow storage capacity at each sewage pump station identified in this environmental authority.			
11-WT14	The licensee shall provide a copy of the assessment and procedure determined in accordance with the above conditions to the **administering authority** on or before 1 March 2001.			
11-WT15	Overflows from the sewage pump stations identified in this environmental authority shall be screened to prevent the release of gross solids.			
11-WT16	Pump stations whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be fitted with stand-by pumps and pump-failure alarms. Pump failure alarms must be able to operate without mains power if such power failure occurs and, when in operation, must be detectable by a 24 hour monitoring system notifying an officer of the Toowoomba Regional Council who is authorised to respond to the alarm by investigating the cause of the failure and to resolve the cause of the alarm.			
11-WT17	Biosolids stockpile areas at the licensed place shall be established within a system of bunds or diversion drains to ensure that overland flow of stormwater runoff is excluded from the stockpile areas.			
11-WT18	Rainfall and **leachate** collected within the biosolids stockpile areas shall be drained to a storage dam for subsequent disposal by irrigation at application rates equivalent to or less than the irrigation demand at the licensed place or for treatment and disposal as sewage waste.			
Agency interest: Land				
Condition number	**Condition**			
11-L1	The defined contaminant release area is described as the Toowoomba Regional Council property comprising the Wetalla sewage treatment plant at Lot 164 RP3056 but excluding the bed and			

	banks of Gowrie Creek and any stormwater drains or water courses at that real property allotment.
11-L2	Conditions in Part 11 Agency interest: Land apply in respect of the release of contaminants from rainfall runoff and **leachate** from the biosolids storage area, treated sewage effluents, aerobic and anerobic digested sewage sludge from sewage treatment processes conducted at this licensed place and in respect of such wastes produced at the licensed place for disposal at another place(s) in accordance with an agreement(s) made by the licensee.
11-L3	Biosolids produced from sewage treatment process at the licensed place shall be stockpiled within the biosolids storage area, removed from the licensed place or disposed at the licensed place in accordance with a condition of this licence.
11-L4	All biosolids and treatment **tank** sludges and residues disposed at the licensed place shall have the batters of such deposits graded and compacted and shall as far as practicable be enclosed by stormwater diversion bunds and drains to prevent or minimise potential erosion and transport of contaminants from the site caused by stormwater runoff.
11-L5	The quantity of contaminants including sewage sludge and treated sewage effluents released to the release area during any day must not exceed 500 cubic metres.
11-L6	The licensee shall as far as practicable minimise the quantity of treated sewage effluents released to Queensland waters by recycling or making the filtered and disinfected effluent available for reuse by other persons in an ecologically sustainable manner.
11-L7	If the holder of this environmental authority gives or transfers ownership of the treated sewage effluent to another person(s) (other than under an agreement satisfied prior to the commencement of this licence and for the purpose of carrying out another environmentally relevant activity) , the holder of this environmental authority must: a) prior to giving such effluent or transferring ownership of such effluent to that person(s), obtain from that person details of how that person intends to comply with the general environmental duty provided for by Section 319 of the **Act** in respect of the use and disposal of such effluent, particularly in relation to environmental sustainability of any effluent disposal, protection of public health and protection of environmental values of waters; and b) only give or transfer ownership of such effluent in accordance with a written agreement between the holder of this environmental authority and that person(s); and c) upon becoming aware that the person is not or is not likely to comply with the general environmental duty provided by Section 36 of the **Act**, cease the giving and transferring ownership of such effluent, as the case may be. NOTE: In order to satisfy the above condition, the **administering authority** and the licensee have decided that the licensee will not be responsible for conducting regular audits of the other person(s) activities to ensure compliance with the general environmental duty but the agreements will only be made where the licensee is reasonably satisfied that the person(s) receiving treated wastewater for reuse are capable of utilising all of the water provided and that agreements for the supply of the water will be made subject to conditions that: 1. wastewater that is the subject of the agreement(s) is to be used in a manner that does not cause environmental harm and will not (as far as is reasonable and practicable) be released to Queensland waters and 2. the licensee will reserve the right to terminate the supply of wastewater to that person in favour of another reuse or treatment option at any time in circumstances where the recipients are found to be causing environmental harm in any manner including (for example) by inappropriate storage or usage practices.
11-L8	The holder of this environmental authority must keep a copy of all agreements entered into to give or transfer ownership of treated sewage effluent and must: a) provide a copy of the agreement to the **administering authority** within thirty (30) days of the agreement taking effect; and

<table>
<tr><td></td><td>b) advise the administering authority in writing of rescission of any agreement within thirty (30) days of such rescission.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>11-N1</td><td>In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Part 11 Table 5 – Noise Limits until the circumstances which gave rise to the complaint are resolved.

Part 11 Table 5 – Noise Limits
<table>
<tr><th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 5 dB(A)</td><td>7 am - 6 pm</td></tr>
<tr><td>Background noise level plus 5 dB(A)</td><td>6 pm - 10 pm</td></tr>
<tr><td>Background noise level plus 3 dB(A)</td><td>10 pm - 7 am</td></tr>
<tr><th>Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 10 dB(A)</td><td>7 am - 6 pm</td></tr>
<tr><td>Background noise level plus 10 dB(A)</td><td>6 pm - 10 pm</td></tr>
<tr><td>Background noise level plus 8 dB(A)</td><td>10 pm - 7 am</td></tr>
</table></td></tr>
<tr><td colspan="2">Agency interest: Waste</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>11-W1</td><td>This condition authorises the licensee to store and dispose of sewage tank sludges and residues regulated wastes at the licensed place in accordance with conditions 11-L1 to 11-L8 inclusive. The licensee shall not be authorised to dispose of any other regulated wastes on the licensed place in accordance with this part.</td></tr>
<tr><td>11-W2</td><td>Where regulated waste is removed from the licensed place (other than by a release as permitted under this environmental authority), the holder of this environmental authority must monitor and keep records of the following:
the date, quantity and type of waste removed; and
name of the waste transporter and/or disposal operator that removed the waste; and
the intended treatment/disposal destination of the waste.</td></tr>
</table>

Definitions for Parts 9, 10 and 11

Key terms and/or phrases used in Parts 9, 10 and 11 of 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.

General Definitions

Act means the *Environmental Protection Act 1994*.

Administering authority means the Department of Environment and Science or its successor.

Authorised person means a person holding office as an authorised person under an appointment under the *Environmental Protection Act 1994* by the chief executive or chief executive officer of a local government.

Dewatered means the material does not yield free liquid and "free liquid" means liquid which readily separates from the solid portion of a waste under ambient temperature and pressure as determined by Method 9095 (Paint Filter Liquids Test) described in "U.S. EPA: Free Liquids (Paint Filter)" Federal Register, Vol. 50, No. 83, page 18370, April 30, 1985.

Leachate means a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the licensed place that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

Land means land excluding waters and the atmosphere.

Regulated waste means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 2019 whether or not it has been treated or immobilised and includes-

a) for an element - any chemical containing the element; and
b) anything that has contained a regulated waste.

Tank means any individual container for holding a chemical and having a capacity of more than 250 litres.

Noise Definitions

Background noise level means either:

a) $L_{A90,\,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or
b) $L_{Abg,\,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

Commercial place means a place used as an office or for business or commercial purposes.

Dwelling as mentioned in Schedule 5 of the *Environmental Protection (Noise) Policy 2019* means any of the following structures or vehicles that is principally used as a residence:

a) a house, unit, motel, nursing home or other building or part of a building;
b) a caravan, mobile home or other vehicle or structure on land;
c) a watercraft in a marina.

Intrusive noise as mentioned in Schedule 5 of the *Environmental Protection (Noise) Policy 2019* means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:

a) is clearly audible to, or can be felt by, an individual; and
b) annoys the individual.

$\mathbf{L_{Amax,adj,T}}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

Noise sensitive place as mentioned in Schedule 5 of the *Environmental Protection (Noise) Policy 2019* means any of the following places:

a) a **dwelling**;

b) a library, childcare centre, kindergarten, school, college, university or other educational institution;
c) a hospital, surgery or other medical institution;
d) a protected area, or an area identified under a conversation plan as a critical habitat or an area of major interest, under the *Nature Conservation Act 1992*;
e) a marine park under the *Marine Parks Act 2004*;
f) a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.

Water Definitions

Total Nitrogen means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen.

mg/L means milligrams per litre.

cfu means colony forming units.

Dry weather flow refers to a day during which no rain falls within the catchment of the sewage treatment plant for the commencement of measurement for that day. The term also excludes days during which measurement is made which occur within three days following cumulative rainfall of 100mm over the three preceding days.

Long term 80 percentile compliance means that not more than five (5) of the measured values of the quality characteristic are to exceed the stated release limit for any twenty five (25) consecutive samples where:

a) the consecutive samples are taken over a one year period;
b) the consecutive samples are taken at approximately equal periods; and
c) the time interval between the taking of each consecutive sample is not less than 13 days.

Long term 50 percentile compliance means that the **median** value of the measured values in ranked order of the quality characteristic is not to exceed the stated release limit for any twenty five (25) consecutive samples where:

a) the consecutive samples are taken over a one year period;
b) the consecutive samples are taken at approximately equal periods; and
c) the time interval between the taking of each consecutive sample is not less than 13 days.

Median means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

Maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

Minimum means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

MPN means most probable number of organisms

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

Appendix 1 – Wetalla Water Reclamation Facility (WRF) and Mt Kynoch Wastewater treatment plant (WTP) Figures

Figure 1: Mt Kynoch WTP Approved Release and Sample Point Locations

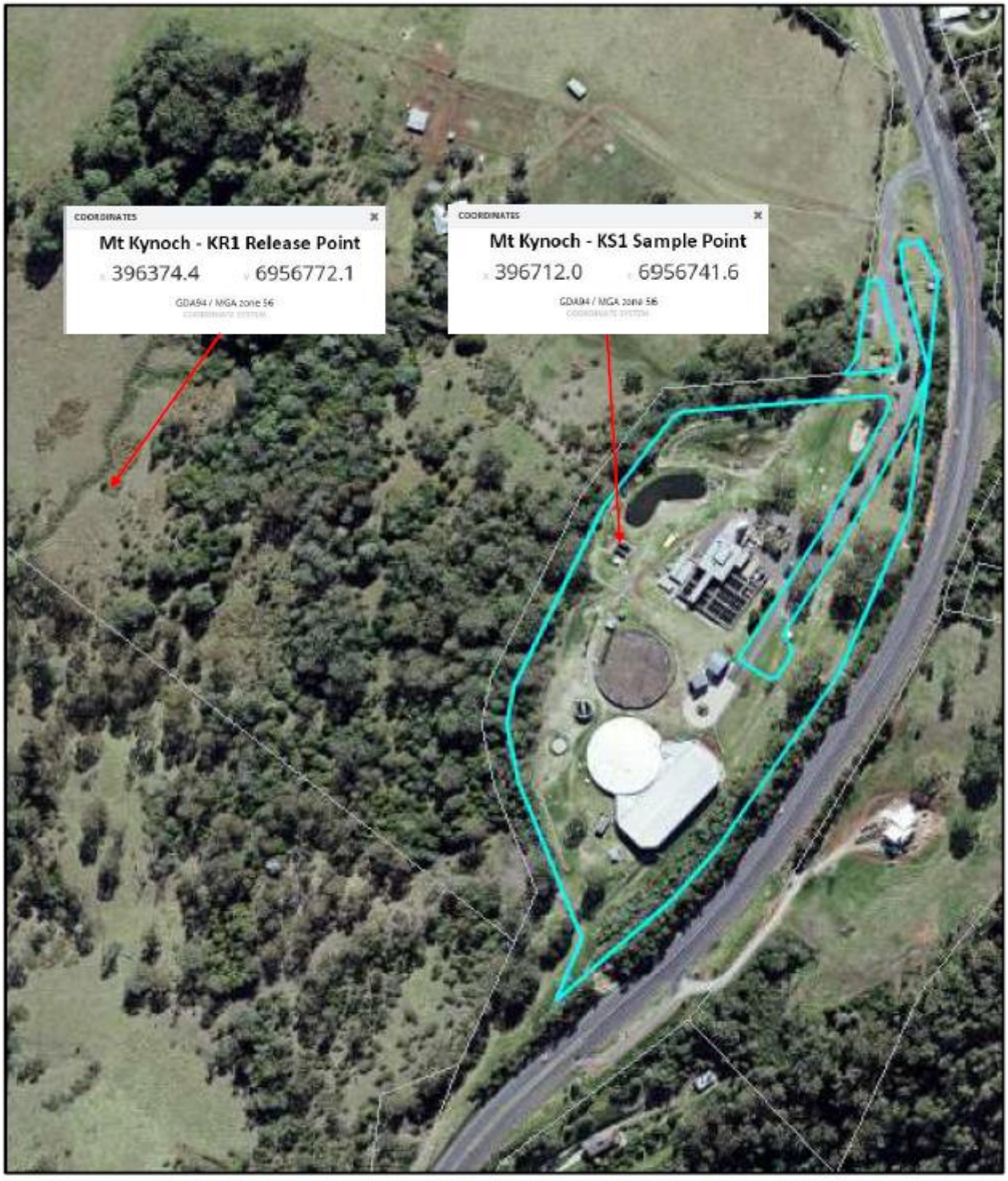




Figure 2a: Wetalla WRF – All Sample and Release Points

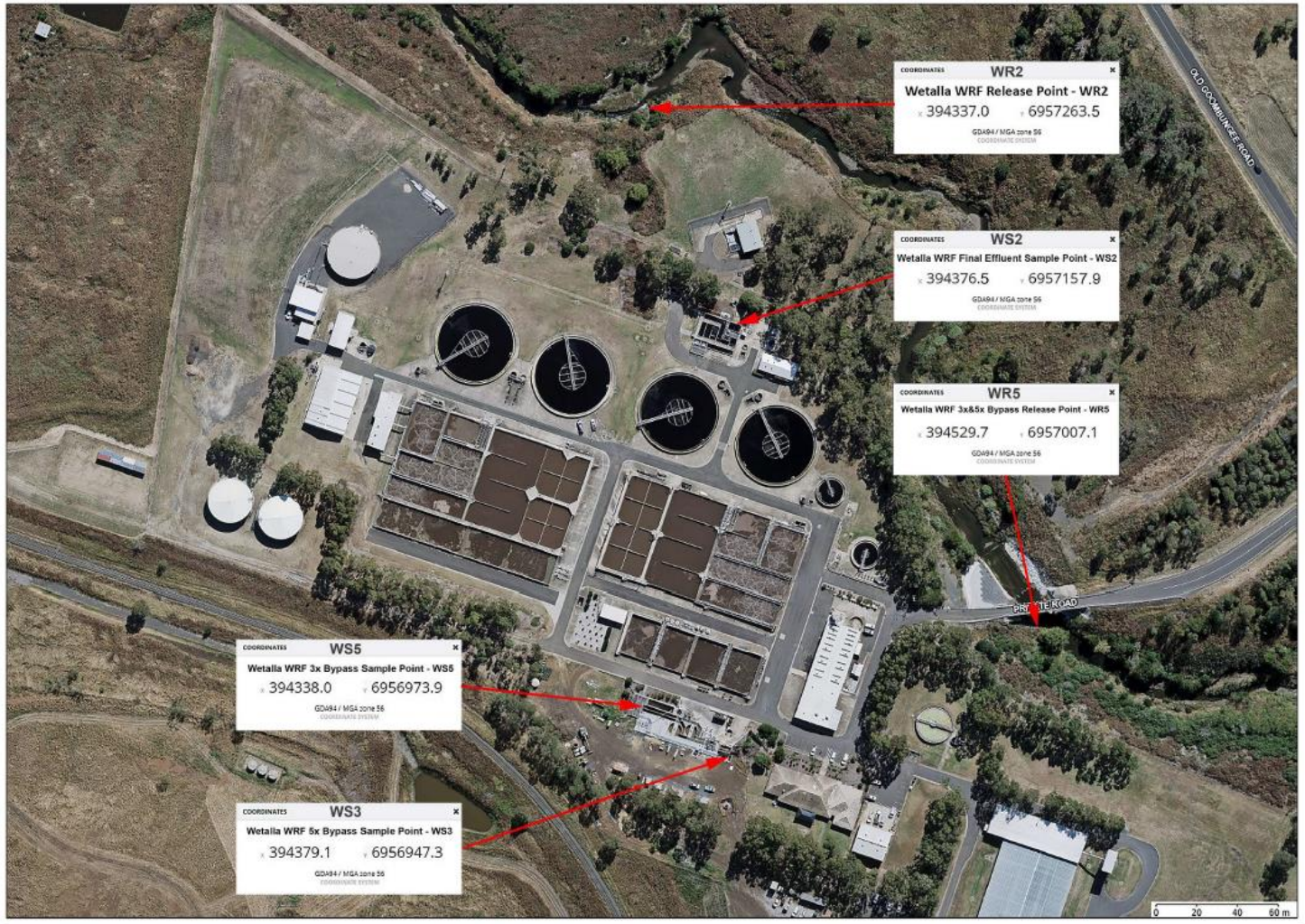
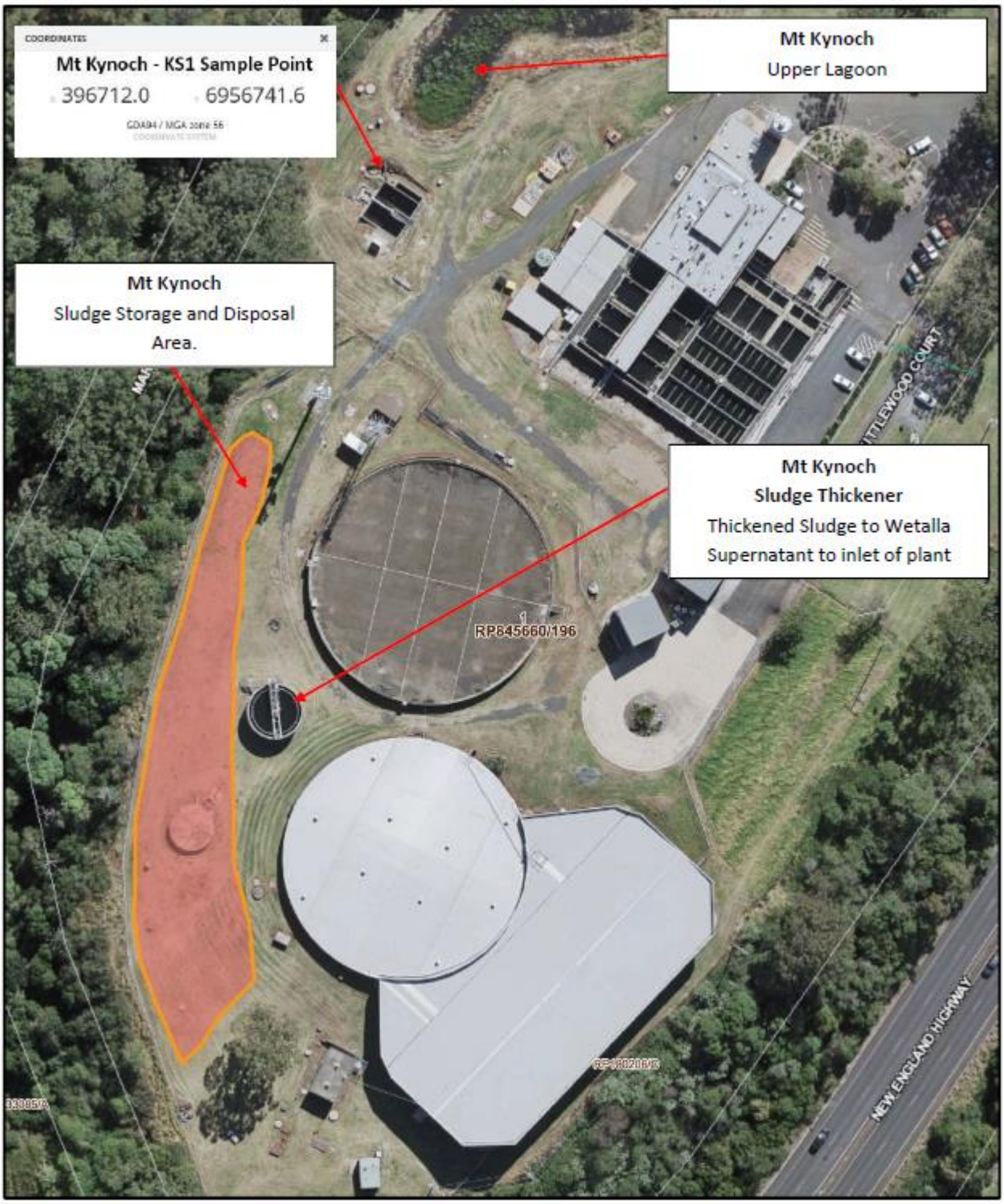


Figure 2a: Wetalla WRF Environmental Authority EPPR00852813
All Sample and Release Points
as at 14-12-2020

Figure 2b: Wetalla WRF – Inlet Works WS5 (3x) and WS3 (5x) Bypass Sample points



Figure 3: Mt Kynoch Approved Sludge Storage and Disposal Area



TOOWOOMBA REGION

Figure 3: Mt Kynoch Environmental Authority EPPR00852813
Approved Sludge Storage and Disposal Area

Attachment 1

Code of environmental compliance ERA 63(2)—Sewage treatment - Code of environmental compliance for certain aspects* of sewage treatment activities (ERA 63) Version 1

END OF ENVIRONMENTAL AUTHORITY

Code of environmental compliance

ERA 63(2)—Sewage treatment (sewage pump station)

This code of environmental compliance (code) continues to apply under s.191 of the Environmental Protection Regulation 2019. It contains the standard environmental conditions approved by the Minister, under section 549(2) of the Environmental Protection Act 1994*, for carrying out the aspects of the environmentally relevant activity (ERA) specified in Section 3 of this code.*

Code of environmental compliance for certain aspects* of sewage treatment activities (ERA 63)

Version 1

* This code only applies to the aspects of the ERA that meet the criteria in Section 3 of this code.

Refer to the notes on the next page for important information about changes to how this code applies.

ABN 46 640 294 485

Queensland Government

Notes:

This code refers to ERA 63(3) for sewage pump station. On 31 March 2013, ERA 63 was amended and ERA 63(3) became ERA 63(2).

This code refers to the Environmental Protection Regulation 2008, which was repealed and replaced by the Environmental Protection Regulation 2019 on 1 September 2019. A reference to the repealed regulation or a repealed provision in this code should be read as a reference to the replacement regulation or the corresponding provision in the replacement regulation.

From 31 March 2013, codes of environmental compliance no longer have effect, and an environmental authority is required for this ERA.

The eligibility criteria and standard conditions of this code are taken to be eligibility criteria and standard conditions (an ERA Standard) for the ERA until a new ERA Standard take effect.

Any new operation commencing from 31 March 2013 that meets the eligibility criteria in Section 3 of this code and that can meet all of the standard conditions can apply for a standard approval to carry out this activity. The conditions that apply to the standard approval will be the standard conditions.

Where the operation cannot meet all the standard conditions of this code, a variation application for an environmental authority can be made. The environmental authority will include the standard conditions as modified by any approved variations.

Information on applying for an approval is at www.business.qld.gov.au.

Anyone who held a registration certificate to operate under this code immediately before 31 March 2013 is automatically taken to have an environmental authority for the ERA. The registration certificate became an environmental authority and the standard environmental conditions of this code are the conditions of the environmental authority as standard conditions. The anniversary day of the environmental authority is the anniversary day of the registration certificate.

Code of environmental compliance

ERA 63(3)—Sewage treatment

This code of environmental compliance (code) has been made under Schedule 3 of the Environmental Protection Regulation 2008. It contains the standard environmental conditions approved by the Minister, under section 549(2) of the Environmental Protection Act 1994*, for carrying out the aspects of the environmentally relevant activity (ERA) specified in Section 3 of this code.*

Code of environmental compliance for certain aspects* of sewage treatment activities

(ERA 63)

Version 1

* This code only applies to the aspects of the ERA that meet the criteria in Section 3 of this code.

ABN 46 640 294 485

Queensland Government

Table of contents

1. Introduction 3
2. Authorisation of the code 3
3. Scope of the code 3
4. When the code takes effect 3
5. Enforcement of the code 4
6. Other requirements 4
7. Amendment of this code 4
8. Further information or enquiries 4
9. Standard environmental conditions 5
10. Definitions 13

1. Introduction

The Department of Environment and Heritage Protection (EHP) has simplified the environmental compliance framework for environmentally relevant activities (ERAs) where environmental outcomes can be achieved by developing codes of environmental compliance (codes) that set out standard environmental conditions. The use of codes expedites environmental approval processes whilst still ensuring that there are appropriate standards of environmental management and protection.

Codes are appropriate for those activities that can achieve a good level of environmental protection through established, well understood practices. The standard environmental conditions are based on these practices and require the registered operator to take the necessary measures to prevent or minimise environmental harm.

Key terms and/or phrases used in this code are bolded and defined at the end of this code. Where a term is not defined in this code, the definition in the *Environmental Protection Act 1994* (EP Act), its regulations or Environmental Protection Policies must be used. If a word remains undefined it has its ordinary meaning.

2. Authorisation of the code

The Minister responsible for the EP Act, pursuant to section 549, approved the standard environmental conditions contained in this code on 4 July 2012. Approved codes are listed in Schedule 3 of the Environmental Protection Regulation 2008 (EP Reg).

3. Scope of the code

This code applies only to certain aspects of ERA 63 — Sewage treatment activities.

The aspects of ERA 63 — Sewage treatment activities, that this code applies to is threshold 3 which is outlined below (for the full definition see Schedule 2 of the EP Reg).

ERA 63	**Sewage treatment activities**
Threshold 3	Operating a sewage pumping station with a total design capacity of more than 40kL in an hour, if the operation of the pumping station is not an essential part of the operation of a sewage treatment works to which ERA 63(1) or ERA 63(2) applies.

The operation of the ERA under this code must comply with all of the criteria set out in the following table at all times:

Criteria
Operating a sewage pumping station with a total design capacity of more than 40kL in an hour.

Where the operation of a particular ERA will not meet the above criteria, this code does not apply and a development approval is required to undertake the ERA.

4. When the code takes effect

This code applies immediately to registered operators who commenced activities on or after 9 November 2012.

Registered operators who were carrying out ERA 63(3) under a development approval issued before 9 November 2012, and who continue to carry out the activity have a 12 month transitional period in which to ensure their operations comply with the code. The code becomes effective for those registered operators on 9 November 2013.

5. Enforcement of the code

This code contains standard environmental conditions for carrying out the activities that meet the criteria set out in Section 3 of this code. Failure to comply with the criteria or conditions of the code is an offence and penalties apply. A development approval is required where an ERA 63(3) activity is not self-assessable under this code—It is an offence to undertake an activity without a development approval and penalties apply. Enforcement Guidelines published by the administering authority are available at www.ehp.qld.gov.au.

6. Other requirements

In addition to the conditions in this code, the registered operator carrying out ERA 63(3) must comply with all other relevant Commonwealth, State or local government legislative requirements. Without limiting the requirements that may apply, some additional obligations under the EP Act include:

- holding a **registration certificate** issued by the **administering authority** under section 73F; and
- taking all reasonable and practicable measures to prevent or minimise environmental harm. This is referred to as the 'general environmental duty'.

7. Amendment of this code

This code may be amended from time to time by gazette notice advising that the Minister has approved new conditions. Proposed changes to the standard environmental conditions, other than changes to correct a clerical error, will be made in consultation with stakeholders. Where there is a significant change to the code, the administering authority will notify registered operators affected by the change.

8. Further information or enquiries

Further information is available at www.ehp.qld.gov.au or by contacting the relevant regional office of the administering authority.

General enquiries or suggestions for future amendments to the code should be directed to Permit and Licence Management, Implementation Support Unit on telephone 13 QGOV (13 74 68) or by email at palm@ehp.qld.gov.au.

9. Standard environmental conditions

Standard environmental condition	Advice
Condition 1 – Flooding The **operator** must ensure that **new pumping stations** are constructed to ensure that essential operational components of the pumping station are not impacted in a way which results in a failure of these components by flooding below the **one in 100 year flood level**. The **operator** must, when considering **major upgrades** of **existing pumping stations**, undertake a review of the construction of the essential operational components of the pumping station that may fail as a result of flooding below the **one in 100 year flood level**. The **operator** must consider moving these components above the **one in 100 year flood level**.	When constructing **new pumping stations** in a flood prone area, the switch gear should be located above the **one in 100 year flood level**, as identified at the time of the construction. When upgrading **existing pumping stations** in a flood prone area, the **operator** should consider relocating any switch gear that is below the **one in 100 year flood level**, as identified at the time of the upgrade. Any upgrades should be included within the sewage overflow abatement plan as required by condition 7 of this **approval**.
Condition 2 – Flooding The **operator** must ensure that **new pumping stations** are constructed so that storm and flood waters can not enter the pump well. The **operator** must, when considering **major upgrades** of **existing pumping stations**, undertake a review of the construction and consider improvements to reduce the potential for storm and flood waters to enter the pump well.	When constructing **new pumping stations** openings to the well (such as maintenance holes) should not be lower than the **one in 100 year flood level**, as identified at the time of the construction. When upgrading **existing pumping stations** in a flood prone area, the **operator** should consider upgrades to restrict water from entering the well if located below the **one in 100 year flood level**, as identified at the time of the upgrade. Any upgrades should be included within the sewage overflow abatement plan as required by condition 7 of this **approval**.
Condition 3 – Maintenance of measures, plant and equipment The **operator** must: (a) maintain all measures, plant and equipment in an effective condition and keep records of the maintenance (b) operate such measures, plant and equipment in an effective manner.	

Standard environmental condition	Advice
Condition 4 – Integrated environmental management system For **new pumping stations** the **operator** must document and comply with an integrated environmental management system (IEMS) prior to the commencement of this **activity**. For **existing pumping stations** the **operator** must document and comply with an IEMS within 12 months of the date this **approval** takes effect. The IEMS must identify all causes of **environmental harm** including, but not limited to, the actual and potential release of any contaminants, the nature of the **environmental harm** and the actions that will be taken to prevent **environmental harm** being caused. The IEMS must achieve the following outcomes: (a) environmental aspects and potential impacts are identified (b) a contingency plan and emergency response plan are in place (c) a network plan of the sewage collection system including connected pumping stations and likely overflow points is maintained (d) control measures that minimise the potential for **environmental harm** are in place (e) organisational structures, accountability and responsibilities are recorded (f) effective, practical communication arrangements, including documentation of such (g) all contaminant releases, and an estimate of their impact on the receiving environment are recorded (h) staff are trained and aware of the requirements of this **approval**.	The IEMS is a commitment to complying with the **approval**. It is generally for the benefit of the **operator** in helping them to clarify and comply with the **approval** requirements. The IEMS may not necessarily be site specific. It should provide guiding principles to help plan ways to manage risks and minimise any potential **environmental harm**. For example, by identifying: • what contaminants could be released • where any contaminants released would go and their impact • that actions could be taken to contain any release • what precautions could be taken to prevent a release. This information can then be used to include procedures for prioritising responses to overflow events based on the risk to the receiving environment and the extent of the release. An IEMS may be used for a sewage network. However, any IEMS used for a network must be updated to reflect a new **activity** to which this **approval** applies. An IEMS may also be used to demonstrate compliance with the general environmental duty for other pumping stations which are not licensed but may still have the potential to cause **environmental harm**.

Standard environmental condition	Advice
Condition 5 – Contingency plan For **new pumping stations** the **operator** must document and comply with a contingency plan prior to the commencement of this **activity**. For **existing pumping stations** the **operator** must document and comply with a contingency plan within 24 months of the date this **approval** takes effect. The contingency plan must provide for: (a) standard connections for emergency by-pass pumping (b) standard connections for mobile generators, or a back-up power source that automatically starts in the event of power failure (c) stand-by pumping equipment and associated controls (d) identification of critical components and a system to ensure adequate and timely access to spare parts (e) access for maintenance and emergency activities (f) testing and validation of any relevant equipment used or related to the contingency plan as necessary.	The detail of the contingency plan should reflect the complexity and risk of the **activity** at the site specific location. Where an IEMS has been developed for a sewage network there may be a contingency plan applicable to many pumping stations within the network based on the level of risk posed by the pumping stations. In this instance the one contingency plan can be used but must be updated to reflect the addition of the new **activity** to which this **approval** applies. While this condition requires the contingency plan to include provision for certain requirements, these are not intended to be restrictive. Where these requirements can be met in an alternative way or might not be relevant to a site specific **activity** this should be clearly documented. If you are proposing alternative arrangements you should consult the **administering authority**.

Standard environmental condition	Advice
Condition 6 – Emergency response plan For **new pumping stations** the **operator** must document and comply with an emergency response plan prior to the commencement of this **activity**. For **existing pumping stations** the **operator** must document and comply with an emergency response plan within 24 months of the date this **approval** takes effect. The emergency response plan must provide for: (a) an implementation manual (b) staff training (c) identification of the part of the environment to which a sewage release may occur (for example, for water bodies, a description of where contaminants may enter the particular water body) (d) remediation and clean up of areas affected by sewage releases (e) receiving environment (surface waters/land) monitoring program for all notifiable releases to examine and assess environmental impacts (f) ongoing investigation and review to establish the cause of sewage releases, initiate corrective and/or preventative measures, and report on the effectiveness of such corrective and/or preventative measures.	The detail of the emergency response plan should reflect the complexity and risk of the **activity** at the site specific location. Where an IEMS has been developed for a sewage network there may be an emergency response plan applicable to many pumping stations within the network based on the level of risk posed by the pumping stations. In this instance the one emergency response plan can be used but must be updated to reflect the addition of the new **activity** to which this **approval** applies. While this condition requires the emergency response to include provision for certain requirements, these are not intended to be restrictive. Where these requirements can be met in an alternative way or might not be relevant to a site specific **activity** this should be clearly documented. If you are proposing alternative arrangements you should consult the **administering authority**. A receiving environment monitoring program must be sufficient to demonstrate the extent of the contamination and the time taken for the receiving environment to return to normal. For a release to waters, upstream and downstream monitoring may be required.
Condition 7 – Sewage overflow abatement plan For **new pumping stations** the **operator** must document and comply with a sewage overflow abatement plan within 12 months of the date this **approval** takes effect. For **existing pumping stations** the **operator** must document and comply with a sewage overflow abatement plan within 24 months of the date this **approval** takes effect. The sewage overflow abatement plan must consider the existing performance and trends, and the potential receiving environment of the pumping station. It must: (a) identify where the greatest risks of causing **environmental harm** are (b) identify and evaluate measures in place to reduce the incidence of overflows (c) develop a program of works with a timetable for implementation (d) assess performance and trends for any implemented works.	The detail of the sewage overflow abatement plan should reflect the complexity and risk of the **activity** at the site specific location. Where an IEMS has been developed for a sewage network there may be a sewage overflow abatement plan applicable to many pumping stations within the network based on the level of risk posed by the pumping stations. In this instance the one sewage overflow abatement plan can be used but must be updated to reflect the addition of the new **activity** to which this **approval** applies. Where flooding issues have been identified (as outlined in conditions 1 and 2), upgrades must be included within the sewage overflow abatement plan.

Standard environmental condition	Advice
Condition 8 – Records The **operator** must record, compile and keep all maintenance and monitoring results, plans and documents required by this **approval** and present this information to an **authorised person** or the **administering authority** when requested.	Records should verify the provision of training programs and schedules of routine inspections.
Condition 9 – Records All records required by this **approval** must be kept for five years.	
Condition 10 – Release to land and waters The **operator** must ensure that contaminants are not released to land or waters (including the bed and banks of any waters) as a result of the **activity**.	The **administering authority** acknowledges that a typical design for sewerage system capacity is three to five times average daily dry weather flow and that overflows may occur in wet weather when the design capacity of the sewerage system is exceeded.
Condition 11 – Notifiable release The **operator** must notify the **administering authority** via the 24 hour Pollution Hotline or the district office no later than three hours after becoming aware of a sewage release that: (a) poses a threat to public health (for example, contamination of **waters** with primary recreation values); (b) results in any observable environmental impact (for example, fish kill, distress to wildlife, marine plants or other aquatic life); (c) discharges to, or is likely to impact, a sensitive environment (for example, Ramsar wetland, marine park, or area designated as a conservation zone under a relevant planning scheme); or (d) is 10 000 L or more during dry weather.	The **administering authority** may need to respond quickly to some spills with the potential to cause **environmental harm**. Priority should be given to notifying the **administering authority** of these spills immediately after they occur. The 24 hour Pollution Hotline number is 1300 130 372. Where an event has occurred that causes or threatens serious or material **environmental harm** the duty to notify **environmental harm** requirements as per ss. 320-320G of the EP Act will also apply. Where reporting under ss. 320-320G is provided and satisfies the notification conditions of this **approval**, it is not necessary to report again against this **approval**. The **administering authority**'s district office is the office responsible for the local government area where the release has occurred. Where the volume of the release is unknown an estimate is to be provided.

Standard environmental condition	Advice
Condition 12 – Notifiable release Within 24 hours after becoming aware of a notifiable release in accordance with condition 11, email or written notification of the release must be submitted to the **administering authority** outlining the event, its nature and the circumstances in which it happened.	Where there has been a threat to public health this notification should include evidence that owners or occupiers of the affected land have been notified. This can be by public notification.
Condition 13 – Notifiable release A final report must be provided to the **administering authority** within 14 business days of the conclusion of the spill response and remediation of a notifiable release, but no later than 20 business days after the commencement of the release.	Any additional information such as sampling results maybe added to the report in the form of attachments at any time. If the commencement of the release is unknown, an estimation of the time and date of the commencement of the release is to be provided.
Condition 14 – General release reporting All releases must be reported to the **administering authority** in the form of an annual report by 30 September covering the period 1 July – 30 June of the previous year.	All discharges include notifiable releases and all other releases from the pumping station. These should be clearly identified in the report. Where the **activity** is part of a sewage network, annual reporting for the network may be provided to satisfy this condition.
Condition 15 – General release reporting Annual reports outlining all releases in accordance with condition 14 must clearly identify: (a) the waste water treatment plant which the pumping station is connected to (b) the number of releases (c) the volume (or estimate of the volume) of each release (d) the location of each release by suburb post code (e) if the release was reported under ss. 320-320G of the *Environmental Protection Act 1994*.	Reporting should be provided in a way in which the data is easy to handle and review. It would be beneficial to also include the reason for the release when reporting. An example would be in an excel spreadsheet.
Condition 16 – Monitoring The **operator** must ensure that all monitoring, assessments and reports required by this **approval** are conducted by a person with appropriate experience and/or qualifications. Water monitoring must be undertaken in accordance with the **administering authority's** Water Quality Sampling Manual and other relevant standards.	

Standard environmental condition	Advice
Condition 17 – Trained/experienced operator(s) The **operator** must ensure that the daily **operation** and maintenance of the pumping station is carried out by a person with experience and/or qualifications appropriate to ensuring the effective operation of the pumping station.	
Condition 18 – Equipment calibration The **operator** must ensure that all instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this **approval** are calibrated, operated and maintained in accordance with the manufacturer's specifications.	
Condition 19 – Complaint response The **operator** must record the following details for all complaints received and this information must be provided to an **authorised person** or the **administering authority** on request: (a) time, date, name and contact details of the complainant (b) reasons for the complaint (c) any investigation undertaken (d) conclusions formed (e) any actions taken.	If the complainant does not wish to have their name and contact details recorded, note this as an anonymous complaint.
Condition 20 – Air nuisance The **operator** must ensure that the release of odours or airborne contaminants resulting from the **activity** do not cause **environmental nuisance** at a nuisance **sensitive place** or **commercial place**.	
Condition 21 – Noise nuisance The **operator** must ensure that noise resulting from the **activity** does not cause **environmental nuisance** at a nuisance **sensitive place** or **commercial place**.	

Standard environmental condition	Advice
Condition 22 – Noise monitoring When requested by the **administering authority**, the **operator** must undertake noise monitoring to investigate any complaint of noise nuisance. The monitoring must be undertaken and results must be notified to the **administering authority** in the format and within the time specified by the **administering authority**. Monitoring must include: (a) measurement of $L_{A90, adj, 15 mins}$ (b) measurement of $L_{A10, adj, 10 mins}$ (c) measurement of $L_{Aeq, adj, 10 mins}$ (d) the level and frequency of occurrence of impulsive or tonal noise (e) atmospheric conditions including wind speed and direction (f) effects due to extraneous factors such as traffic noise (g) the location, date and time of monitoring.	
Condition 23 – Noise monitoring The **operator** must ensure that the method of measurement and reporting of noise levels complies with the latest edition of the **administering authority**'s Noise Measurement Manual.	The **administering authority**'s Noise Measurement Manual is available at www.ehp.qld.gov.au.
Condition 24 – Responding to potential releases The **operator** must ensure that there are appropriate physical systems in place to anticipate a potential release.	This may include an alarm system using one or more of the following; pump-failure alarms or level alarms for sewage contained in the pump well.
Condition 25 – Responding to potential releases Any system developed in line with condition 24 must be able to operate for a sufficient time to allow for notification of the potential release to the **operator** and an appropriate response.	This may include having back up power available or providing additional detention capacity.
Condition 26 – Responding to potential releases Any identification of a potential release must be responded to by the **operator**.	Response times should consider the potential for **environmental harm** based on site specific details and the potential volume of release from the pumping station.

10. Definitions

Words and phrases used throughout this guideline are defined below. Where a definition for a term used in this guideline is sought and the term is not defined the administering authority may be contacted to provide clarification.

One in 100 year flood level means the level reached by a flood event with an annual recurrence interval of one in 100 years.

Activity means ERA 63 (3).

Administering authority means the Department of Environment and Heritage Protection, or the department responsible for administering the *Environmental Protection Act 1994.*

Authorised person means a person authorised under the *Environmental Protection Act 1994*.

Approval means this code of environmental compliance.

Commercial place means a place used as an office or for business or commercial purposes.

Environmental harm (as defined in Section 14 of the *Environmental Protection Act 1994*) is any adverse effect, or potential adverse effect (whether temporary or permanent and of whatever magnitude, duration or frequency) on an environmental value, and includes **environmental nuisance**. **Environmental harm** may be caused by an activity:

a) whether the harm is a direct or indirect result of the activity

b) whether the harm results from the activity alone or from the combined effects of the activity and other activities or factors.

Environmental nuisance (as defined in Section 15 of the *Environmental Protection Act 1994*) means— 'unreasonable interference or likely interference with an environmental value' caused by:

a) aerosols, fumes, light, noise, odour, particles or smoke

b) an unhealthy, offensive or unsightly condition because of contamination

c) another way prescribed by regulation.

Existing pumping stations means pumping stations that were constructed before 1 January 2009.

$L_{A\ 90,\ adj,\ 15\ mins}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 90 per cent of any 15 minute measurement period, using fast response.

$L_{A\ 10,\ adj,\ 10\ mins}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10 per cent of any 10 minute measurement period, using fast response.

$L_{A\ eq}$ means the equivalent continuous A-weighted sound pressure level of the residual noise determined over a specified time interval.

Major upgrades means upgrades which will involve expenditure in excess of $150 000. This figure is relevant as of 1 January 2012 and will increase by three per cent as of 1 January hereafter.

New pumping stations means pumping stations that were constructed on or after 1 January 2009.

Operation means the development approved under this **approval.**

Operator means any of the following:

a) a person having the benefit of this **approval**

b) the holder of a registration certificate for this **approval**

c) anyone undertaking the **activity** to which this **approval** relates

Note: it is an offence to carry out work under an **approval** without a relevant registration certificate.

Sensitive place means:

a) a dwelling (including residential allotment, mobile home or caravan park, residential marina or other residential premises, motel, hotel or hostel

b) a library, childcare centre, kindergarten, school, university or other educational institution

c) a medical centre, surgery or hospital

d) a protected area

e) a public park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.

Waters means all Queensland waters and includes rivers, streams, lakes, lagoons, ponds, swamps, wetlands, surface waters, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), any ground water and any part thereof.