Queensland Government

Department of
Environment and Heritage Protection

To: Rockhampton Regional Council
PO Box 1860
ROCKHAMPTON QLD 4700

Email: paul.dean@rrc.qld.gov.au

Your reference: EPPR00525513
Our reference: AR097355

Application details

The application to amend the environmental authority (reference EPPR00525513) was received by the administering authority on 27 – January - 2017.

Land description: Armstrong Street, GRACEMERE - Lot 115 Plan LN568, Lot 307 Plan LN2692, Lot 116 Plan P4014.

Decision

The application has been approved. Your amended environmental authority is attached.

Should you have any further enquiries, please contact Rebecca Walton on telephone 1300 130 172.

Yours sincerely

CMooney	17/3/17
Signature	Date

Chris Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR00525513)

Government Organisations and Utilities Assessment
Level 8
400 George Street, Brisbane
GPO Box 2454 BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5754
Email: palm@ehp.qld.gov.au
Website www.ehp.qld.gov.au
ABN 46 640 294 485

Permit

Environmental Protection Act 1994

Environmental authority EPPR00525513

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

Environmental authority number: EPPR00525513

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

The anniversary date of this environmental authority is **18 October.** An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name(s)	Registered address
Rockhampton Regional Council	243 Bolsover Street ROCKHAMPTON QLD 4700

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
63-(1b)(ii) Sewage treatment >100 to 1500EP - no IT or IR	Thompson Avenue, MOUNT MORGAN – Lot 4 Plan SP124256 and Lot 3 Plan SP124256
63-(1e) Sewage treatment >10000 to 50000EP	Harman Street, ROCKHAMPTON - Lot 3 Plan L16804; Goodsall Street and BERSERKER - Lot 279 Plan LN1901; Quay Street, ROCKHAMPTON - Lot 288 Plan R26113; Armstrong Street, GRACEMERE - Lot 115 Plan LN568, Lot 307 Plan LN2692 and Lot 116 Plan P4014.
64-(3) Water treatment >10ML raw water day	Belmont Road, PARKHURST - Lot 3 Plan RP609089
57-(2a) Regulated waste transport 1 to 5 vehicles	Mobile & Temporary

ABN 46 640 294 485

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 *Sustainable Planning Act 2009* 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.

CMooney	17/3/17
Signature	Date

Chris Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Email: palm@ehp.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 and Mines (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 *Sustainable Planning Act 2009*. 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 Heritage Protection to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1: Standard Approvals

Environmentally Relevant Activities	Location(s)
57-(2a) Regulated waste transport 1 to 5 vehicles	Mobile & Temporary

With the exception of any variations, the conditions of approval for this environmental authority include standard conditions contained within the attached document(s) entitled:

- *Code of environmental compliance for certain aspects of regulated waste transport (ERA57) - version 4.*

Part 2: Site Specific approval (IPDE0017105B11)

Environmentally Relevant Activities	Location(s)
63-(1b)(ii) Sewage treatment >100 to 1500EP - no IT or IR	Thompson Avenue, MOUNT MORGAN - Lot 4 Plan SP124256 and Lot 3 Plan SP124256

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

Agency interest: General	
Condition number	**Condition**
G1 – 2	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.
G2 – 2	Record, compile and keep all monitoring results required by this document and present this information to the **administering authority** when requested, in a specified format.
G3 – 2	**Records** must include the following information: (a) Date of pickup of waste; (b) Description of waste; (c) Cross reference to relevant waste transport documentation; (d) Quantity of waste; (e) Origin of the waste; (f) Destination of the waste; and (g) Intended fate of the waste, for example,type of waste treatment, reprocessing or disposal. NOTE: **Records** of document maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.

G4 - 2	An annual monitoring report must be provided to the **administering authority** with the annual return. 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 months 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 any record of equipment failures or events recorded for any site under this authority; and (e) An outline of actions taken or proposed to minimize 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.
G5 - 2	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.
G6 - 2	In consultation with the **administering authority**, cooperate with and participate in any community environmental liaison committee established in respect of either the site specifically or the industrial estate where the site is located.
Agency interest: Air	
Condition number	**Condition**
A1 – 2	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**.
A2 - 2	From the commencement of this environmental l authority, the holder must maintain an effective odour response and management procedures.
A3 - 2	The release of dust and/or particulate matter resulting from the **activity** must not cause an **environmental nuisance** at any dust **sensitive place**.
A4 - 2	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 be carried out at a place(s) relevant to the potentially affected dust **sensitive place** and at upwind control sites and 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 per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Noise	
Condition number	**Condition**
N1 – 2	Noise from activities must not cause an **environmental nuisance** at any noise-affected premises.

N2 – 2	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) $L_{A\ 10\ adj,\ 10\ mins}$ (b) $L_{A\ 1\ adj,\ 10\ mins}$ (c) The level and frequency of occurrence of impulsive or tonal noise; (d) Atmospheric conditions including wind speed and direction; (e) Effects due to extraneous factors such as traffic noise; and (f) Location, date and time of recording.
N3 – 2	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

Agency interest: Water

Condition number	**Condition**
W1 - 2	Monitoring must be undertaken and **records** kept of contaminant release to **waters** from the discharge location, for the parameters and not less frequently than specified in Table 1. All determinations of the quality of contaminants release 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.

Table 1 – Release limits

Discharge location	Quality characteristics	Release limit					Frequency
		Min	50th %ile	80th %ile	Med	Max	
RP1	5-day Biochemical Oxygen Demand (mg/L)	-	-	-	-	20	Per discharge event
	Suspended Solids (mg/L)	-	-	-	-	30	
	pH	6.5	-	-	-	8.5	
	Total Nitrogen (mg/L)	-	5	-	-	10	
	Total Phosphorus (mg/L)	-	2	-	-	3	
	Thermotolerant coliforms (cfu/100ml)	-	-	20	10	-	

W2 – 2	**Groundwater** monitoring should be completed twice per year from the existing **groundwater** monitoring bores located on-site and monitored for the following parameters: pH, total nitrogen and total phosphorus.
W3 – 2	The **groundwater** monitoring as outlined in condition W2 - 2 above must be completed and the results submitted with the annual return.
W4 – 2	In periods of wet weather or following wet weather and when no further irrigation of effluent is reasonably practicable and when the effluent storage pond is full, the release of treated effluent to **waters** is permitted in accordance with the release limits listed in Table 1. NOTE: Discharge location identified as RP1 - namely release of treated sewage effluent from mount Morgan Shire council STP to Dee River at overflow pipe from effluent storage pond.
W5 - 2	The daily volume of contaminants released to water s must be determined or estimated by an appropriate method, for example a flow meter, and **records** kept of such determinations and estimates.

W6 – 2	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.
W7 – 2	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.
W8 – 2	A current list of connected pump stations is to be maintained and supplied to the **administering authority.**
W9 – 2	The effluent storage pond shall be designed and constructed in accordance with accepted engineering practice, to ensure long-term structural integrity.
W10 – 2	The in-situ coefficient of permeability of the finished base, batters and embankments shall not exceed 0.1mm/day.
W11 - 2	The effluent pond capable of storing water up to a maximum depth of 2 metres is to be lined with a minimum total thickness of 300mm of material complying with the requirements of condition W9 and W10 above. Ponds capable of storing water at depths in excess of 2 metres are to be lined with a minimum total thickness of 450mm of material complying with the requirements of condition W10. This is to be achieved by placing the material at the correct moisture content (as defined in conditions W12 - 2 to W15 - 2 below), in progressive, uniform, horizontal layers, not exceeding 150mm in thickness, after compaction. Under no circumstances is the compacted thickness of clay lining material to be less than the required minimum thickness, as specified above.
W12 – 2	Prior to compact ion, all material used for lining purposes shall be conditioned to have a moisture content within the range of 2% wet to 2% dry of the optimum moisture content required to produce the maximum dry density when compacted in accordance with method 5.1.1 of *Australian Standard 1289.*
W13 - 2	Each layer of material placed in accordance with condition W12 -2 above, shall be compacted to produce either a field dry density of at least 95% of the standard maximum laboratory dry density determined in accordance with method 5.4.1 of AS 1289, or alternatively, a Hilf density ratio of at least 95% when tested in accordance with Method 5.7.1 of AS1289.
W14 - 2	If the standard cannot be achieved using the in-situ material, lining shall be carried out with an appropriate geosynthetic liner.
W15 - 2	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.
W16 - 2	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.

W17 - 2	Prior to the commissioning of the plant, the holder of this environmental authority must implement and submit to the **administering authority** a **Receiving Environment Monitoring Program** to monitor the effects of the release of contaminants on the receiving environment to effectively determine whether **environmental values** and water quality objectives will be protected /enhanced. (a) **Environmental values** to be assessed in the monitoring program must include the following: - Biological integrity of the modified aquatic ecosystem; and - Recreational use (primary contact , secondary contact and visual); and - Agricultural use. (b) Receiving environment for the purpose of the REMP including Dee River upstream of the proposed discharge point (RP1) and 100 metres immediately downstream of the proposed discharge point (RP1).
W18 - 2	A report of the results of the **Receiving Environment Monitoring Program** must be submitted to the **administering authority** by 30 June 2006.

Agency interest: Land

Condition number	Condition
L1 – 2	The only contaminants permitted to be released to **land** are treated effluents and stormwater to the areas known as Newman Park and surrounds; State High School; State Primary School and Boyd Park in compliance with the limit levels stated in Table 2 and the conditions of this authority. 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 Table 2.

Table 2 – Release limits to land

Monitoring Point	Quality Characteristics	Release limit				Sampling Frequency
		Minimum	80th Percentile	Median	Maximum	
Prior to discharge to plant	5-day Biochemical Oxygen Demand (mg/L)	-	-	-	20	Monthly
	Suspended Solids (mg/L)	-	-	-	30	Monthly
	pH	6.5	-	-	8.5	Weekly
	Total Nitrogen (mg/L)	-	-	-	10	Monthly
	Total Phosphorus (mg/L)	-	-	-	4	Monthly
	Thermotolerant coliforms (cfu/100ml)	-	20	10	-	Weekly
	Residual Cl_2 (mg/L)	-	-	-	1	Monthly

L2 – 2	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.
L3 – 2	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.

L4 – 2	Conduct and keep **records** of any monitoring programs of contaminant releases from the treatment plant at the monitoring points, frequency, and for the parameters specified in Table 2.
L5 – 2	The daily volume of contaminants release to **land** must be determined or estimated by an appropriate method, for example a flow meter, and **records** kept of such determinations and estimates.
L6 – 2	Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.
L7 – 2	If the holder of this environmental authority gives or transfers ownership of the treated sewage effluent to another person(s), 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 in the *Environmental Protection 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 environment 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 in compliance, or is not likely to comply with the general environmental duty provided for in the *Environmental Protection Act*, cease the giving and transferring ownership of such effluent, as the case may be.
L8 – 2	Effluent must only be dispersed to places that have implemented an Irrigation Management Plan which adequately addresses the following: (a) Efficiency of application; (b) Control of sodicity in the soil; (c) Minimisation of degradation of soil structure; (d) Control of build ups of nutrients and heavy metals in the soil and subsoils from effluent and other sources; (e) Preventing impact on the **groundwater** resource through infiltration; (f) Preventing the runoff of effluent from the farms by limitation of application rates and the use of structures such as tail water dams; (g) Preventing subterranean flows of effluent to **waters**; (h) Method of application; and (i) Health and safety in relation to effluent handling and irrigation.
Agency interest: Waste	
Condition number	**Condition**
WA1 - 2	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*.

Expiry of Conditions - Part 3.1 will be replaced by Part 3.2 upon commencement of environmentally relevant activity 63 threshold (1e) at the site.

Part 3.1: Site Specific approval (IPDE00347506C11)

Environmentally Relevant Activities	Location(s)
63-(1d) Sewage treatment >4000 to 10000EP	Armstrong Street, GRACEMERE - Lot 115 Plan LN568 and Lot 307 Plan LN2692 and Lot 116 Plan P4014

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

Agency interest: General	
Condition number	**Condition**
G1 – 3.1	In carrying out an ERA to which this approval relates, all reasonable and practicable **measures** must be taken to prevent and/or minimise the likelihood of environmental harm being caused.
G2 – 3.1	The operator of an ERA to which this approval relates must: (a) Install all **measures**, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and (b) Maintain such **measures**, plant and equipment in a proper and efficient condition; and (c) Operate such **measures**, plant and equipment in a proper and efficient manner.
G3 – 3.1	Record, compile and keep all monitoring results required by this approval and present this information to the **administering authority** when requested.
G4 – 3.1	All **records** required by this approval must be kept for 5 years.
G5 – 3.1	An annual monitoring report must be prepared each year and presented to the **administering authority** when requested. 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 months 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 any record of equipment failures or events recorded for any site under this authority; and (e) An outline of actions taken or proposed to minimize 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.
G6 – 3.1	Telephone the EPA's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G7 – 3.1	A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition G6 – 3.1: (a) the name of the operator, including their approval/ registration number; (b) the name and telephone number of a designated contact person; (c) quantity and substance released; (d) vehicle and registration details; (e) person/s involved (driver and any others); (f) the location and time of the release; (g) the suspected cause of the release; (h) a description of the effects of the release; (i) the results of any sampling performed in relation to the release; (j) actions taken to mitigate any environmental harm caused by the release; and (k) proposed actions to prevent a recurrence of the release.
G8 – 3.1	A competent person(s) must conduct any monitoring required by this approval.
G9 – 3.1	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.
G10 – 3.1	The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
G11 – 3.1	From commencement of the **activity**,a Site Based Management Plan (SBMP) must be implemented.The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused.The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out. The SBMP must address the following matters: (a) Environmental commitments - a commitment by senior management to achieve environmental goals. (b) Identification of environmental issues and potential impacts. (c) Control **measures** for routine operations to minimise likelihood of environmental harm. (d) Contingency plans and emergency procedures for non-routine situations. (e) Organizational structure and responsibility. (f) Effective communication. (g) Monitoring of the contaminant releases. (h) Conducting environmental impact assessments. (i) Staff training. (j) Record keeping. (k) Periodic review of environmental performance and continual improvement.
G12 – 3.1	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.

Agency interest: Air	
Condition number	**Condition**
A1 – 3.1	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**.
A2 – 3.1	The release of dust and/or particulate matter resulting from the ERA must not cause an **environmental nuisance** at any nuisance sensitive or **commercial place**.
A3 – 3.1	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 be carried out at a place relevant to the potentially affected dust **sensitive place** and at upwind control sites and 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 per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Noise	
Condition number	**Condition**
N1 – 3.1	Noise from the ERA must not cause an **environmental nuisance** at any nuisance **sensitive place** or **commercial place**.
N2 – 3.1	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) $L_{A\ 10\ adj,\ 10\ mins}$ (b) $L_{A1\ adj,\ 10\ mins}$ (c) the level and frequency of occurrence of impulsive or tonal noise; (d) Atmospheric conditions including wind speed and direction; (e) Effects due to extraneous factors such as traffic noise; and (f) Location, date and time of recording.
N3 – 3.1	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.
Agency interest: Water	
Condition number	**Condition**
W1 – 3.1	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.
W2 – 3.1	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.

W3 – 3.1	A list of pump stations associated with this **activity** must be maintained by the holder of this environmental authority and be made available to the **administering authority** when requested.
W4 – 3.1	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorized place must be constructed, installed and maintained. (a) So as to minimize the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including **groundwater**); (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 construct ion.
W5 – 3.1	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.
Agency interest: Land	
Condition number	**Condition**
L1 – 3.1	The only contaminants permitted to be released to **land** are treated effluent to the areas which have an Irrigation Management Plan and in compliance with the limits levels stated in Table 3 – Contaminant release limits to **land** and the conditions of this approval.

Table 3 – Contaminant release limits to land

Sampling Point	Quality Characteristics	Release limit				Sampling Frequency
		Minimum	80th Percentile	Median	Maximum	
Overflow weir on the chlorine contact tank	Residual Cl_2	-	-	-	0.7mg/l	Daily
	Total Dissolved Salts	-	-	-	1000mg/l	Monthly
	5-day Biochemical Oxygen Demand	-	-	-	20mg/L	Monthly
	Suspended Solids	-	-	-	30mg/L	Monthly
	pH	6.5	-	-	8.5	Weekly
	Total Nitrogen	-	20mg/l	-	-	Monthly
	Total Phosphorus as P	-	8mg/l	-	-	Monthly
	E.coli cfu/100ml	-	150 cfu	100 cfu	-	Fortnightly

L2 – 3.1	Notices must be prominently displayed on areas undergoing effluent irrigation, 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.
L3 – 3.1	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 pending of effluent; (d) percolation of effluent beyond the plant root zone is minimised; (e) the capacity to 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.

L4 – 3.1	If the holder of this development approval gives or transfers ownership of the treated sewerage effluent to another person(s), the holder of this development approval must: 1. 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 in the *Environmental Protection Act 1994* in respect to 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 water; and 2. only give or transfer ownership of such effluent in accordance with a written agreement between the holder of this development approval and that person(s); and 3. upon becoming aware that the person is not in compliance, or is not likely to comply with the general environmental duty provided for in the *Environmental Protection Act 1994*, cease the giving and transferring ownership of such effluent, as the case may be.
L5 – 3.1	Effluent must only be dispersed to places that have implemented an Irrigation Management Plan, which adequately addresses the following: (a) efficiency of application; (b) control of sodicity in the soil; (c) minimisation of degradation of soil structure; (d) control of build ups of nutrients and heavy metals in the soil and subsoil from effluent and other sources; (e) preventing impacts to the **groundwater** resource through infiltration; (f) preventing the runoff of effluent from the farms by limitation of application rates and the use of structures such as tail water dams; (g) preventing subterranean flows to effluent to **waters**; (h) method of application; and (i) health and safety in relation to effluent handing and irrigation.
L6 – 3.1	Conduct and keep **records** of any monitoring programs of contaminant releases from the treatment plant at the monitoring points, frequency and for the parameters specified in Table 3.
L7 – 3.1	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 Table 3.
Agency interest: Waste	
Condition number	**Condition**
WA1 – 3.1	A record of all waste must be kept detailing the following information: (a) date of pickup of waste; (b) description of waste; (c) quantity of waste; (d) origin of the waste; and (e) destination of the waste. *NOTE:* Trackable wastes as listed in Schedule 2E of the *Environmental Protection Regulation 2008* are not covered by this condition. Trackable wastes have similar recording requirements to this condition in accordance with a waste tracking system established under the above Regulation.
WA2 – 3.1	Only the following waste materials are permitted to be accepted: any influent able to be treated by the sewage treatment plant.

Commencement date – The following conditions of Part 3.2 will become effective upon commencement of environmentally relevant activity 63 threshold (1e) at the site.

Part 3.2: Site Specific approval (IPDE00347506C11)

Environmentally Relevant Activities	Location(s)
63-(1e) Sewage treatment >10000 to 50000EP	Armstrong Street, GRACEMERE - Lot 115 Plan LN568 and Lot 307 Plan LN2692 and Lot 116 Plan P4014.

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

Agency interest: General	
Condition number	**Condition**
G1 – 3.2	In carrying out an ERA to which this approval relates, all reasonable and practicable **measures** must be taken to prevent and/or minimise the likelihood of environmental harm being caused.
G2 – 3.2	The operator of an ERA to which this approval relates must: (a) Install all **measures**, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and (b) Maintain such **measures**, plant and equipment in a proper and efficient condition; and (c) Operate such **measures**, plant and equipment in a proper and efficient manner.
G3 – 3.2	Record, compile and keep all monitoring results required by this approval and present this information to the **administering authority** when requested.
G4 – 3.2	All **records** required by this approval must be kept for 5 years.
G5 – 3.2	An annual monitoring report must be prepared each year and presented to the **administering authority** when requested. 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 months 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 any record of equipment failures or events recorded for any site under this authority; and (e) An outline of actions taken or proposed to minimize 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.
G6 – 3.2	Telephone the EPA's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G7 – 3.2	A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition G6 – 3.2: (a) the name of the operator, including their approval/registration number; (b) the name and telephone number of a designated contact person; (c) quantity and substance released; (d) vehicle and registration details; (e) person/s involved (driver and any others); (f) the location and time of the release; (g) the suspected cause of the release; (h) a description of the effects of the release; (i) the results of any sampling performed in relation to the release; (j) actions taken to mitigate any environmental harm caused by the release; and (k) proposed actions to prevent a recurrence of the release.
G8 – 3.2	A competent person(s) must conduct any monitoring required by this approval.
G9 – 3.2	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.
G10 – 3.2	The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
G11 – 3.2	From commencement of the **activity**, a Site Based Management Plan (SBMP) must be implemented.The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused.The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out. The SBMP must address the following matters: (a) Environmental commitments - a commitment by senior management to achieve environmental goals. (b) Identification of environmental issues and potential impacts. (c) Control **measures** for routine operations to minimise likelihood of environmental harm. (d) Contingency plans and emergency procedures for non-routine situations. (e) Organizational structure and responsibility. (f) Effective communication. (g) Monitoring of the contaminant releases. (h) Conducting environmental impact assessments. (i) Staff training. (j) Record keeping. (k) Periodic review of environmental performance and continual improvement.
G12 – 3.2	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
G13 – 3.2	**You** must record the following details for all environmental **complaints** received: a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.

G14 – 3.2	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a **complaint** not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity.** The monitoring results must be provided to the **administering authority** upon request.
Agency interest: Air	
Condition number	**Condition**
A1 – 3.2	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.**
A2 – 3.2	The release of dust and/or particulate matter resulting from the ERA must not cause an **environmental nuisance** at any nuisance sensitive or **commercial place.**
A3 – 3.2	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 be carried out at a place relevant to the potentially affected dust **sensitive place** and at upwind control sites and 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 per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Noise	
Condition number	**Condition**
N1 – 3.2	Noise from the ERA must not cause an **environmental nuisance** at any nuisance **sensitive place** or **commercial place.**
N2 – 3.2	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) $L_{A\ 10\ adj,\ 10\ mins}$ (b) $L_{A1\ adj,\ 10\ mins}$ (c) The level and frequency of occurrence of impulsive or tonal noise; (d) Atmospheric conditions including wind speed and direction; (e) Effects due to extraneous factors such as traffic noise; and (f) Location, date and time of recording.
N3 – 3.2	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.
Agency interest: Water	
Condition number	**Condition**
W1 – 3.2	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.

W2 – 3.2	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.
W3 – 3.2	A list of pump stations associated with this **activity** must be maintained by the holder of this environmental authority and be made available to the **administering authority** when requested.
W4 – 3.2	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorized place must be constructed, installed and maintained. (a) So as to minimize the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including **groundwater**); (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 construct ion.
W5 – 3.2	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.

Agency interest: Land

Condition number	**Condition**
L1 – 3.2	Other than as permitted within this environmental authority, contaminants must not be released to **land.**
L2 – 3.2	Notices must be prominently displayed on areas undergoing effluent irrigation, 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.
L3 – 3.2	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 to 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.
L4 – 3.2	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.
L5 – 3.2	Effluent must only be dispersed to places that have implemented an Irrigation Management Plan, which adequately addresses the following: (a) efficiency of application; (b) control of sodicity in the soil; (c) minimisation of degradation of soil structure; (d) control of build ups of nutrients and heavy metals in the soil and subsoil from effluent and other sources; (e) preventing impacts to the **groundwater** resource through infiltration; (f) preventing the runoff of effluent from the farms by limitation of application rates and the use of structures such as tail water dams; (g) preventing subterranean flows to effluent to **waters;** (h) method of application; and (i) health and safety in relation to effluent handing and irrigation.

L6 – 3.2	Conduct and keep **records** of any monitoring programs of contaminant releases from the treatment plant at the monitoring points, frequency and for the parameters specified in Table 3.
L7 – 3.2	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 Table 3.
Agency interest: Waste	
Condition number	**Condition**
WA1 – 3.2	A record of all waste must be kept detailing the following information: (a) date of pickup of waste; (b) description of waste; (c) quantity of waste; (d) origin of the waste; and (e) destination of the waste. *NOTE:* Trackable wastes as listed in Schedule 2E of the *Environmental Protection Regulation 2008* are not covered by this condition. Trackable wastes have similar recording requirements to this condition in accordance with a waste tracking system established under the above Regulation.
WA2 – 3.2	Only the following waste materials are permitted to be accepted: any influent able to be treated by the sewage treatment plant.
WA3 – 3.2	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Part 4: Site Specific approval (CR0240/IPDE00688507)

Environmentally Relevant Activities	Location(s)
63-(1e) Sewage treatment >10000 to 50000EP	Harman Street, ROCKHAMPTON - Lot 3 Plan L16804 Goodsall Street and BERSERKER - Lot 279 Plan LN1901 Quay Street, ROCKHAMPTON - Lot 288 Plan R26113

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

Agency interest: General	
Condition number	**Condition**
G1 – 4	In carrying out an ERA to which this approval relates, all reasonable and practicable **measures** must be taken to prevent and/or minimise the likelihood of environmental harm being caused.
G2 – 4	The holder must: (a) Install all **measures**, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and (b) Maintain such **measures**, plant and equipment in a proper and efficient condition; and (c) Operate such **measures**, plant and equipment in a proper and efficient manner.
G3 – 4	From commencement of the **activity**,aSite Based Management Plan (SBMP) must be implemented.The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused.The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out. The SBMP must address the following matters: (a) Environmental commitments - a commitment by senior management to achieve environmental goals. (b) Identification of environmental issues and potential impacts. (c) Control **measures** for routine operations to minimise likelihood of environmental harm. (d) Contingency plans and emergency procedures for non-routine situations. (e) Organisational structure and responsibility. (f) Effective communication. (g) Monitoring of the contaminant releases. (h) Conducting environmental impact assessments. (i) Staff training. (j) Record keeping. (k) Periodic review of environmental performance and continual improvement. (l) Bio solids Management must address at least the following: i. the estimated quality, quantity and nature of biosolids produced; ii. the current method of disposal; and iii. proposed methods of pre-treatment or disposal.
G4 – 4	Telephone the EPA's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G5 – 4	A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition G4 - 4: (a) the name of the operator, including their approval/registration number; (b) the name and telephone number of a designated contact person; (c) quantity and substance released; (d) vehicle and registration details; (e) person/s involved (driver and any others); (f) the location and time of the release; (g) the suspected cause of the release; (h) a description of the effects of the release; (i) the results of any sampling performed in relation to the release; (j) actions taken to mitigate any environmental harm caused by the release; and (k) proposed actions to prevent a recurrence of the release.
G6 - 4	Record, compile and keep all monitoring results required by this approval and present this information to the **administering authority** when requested.
G7 – 4	A competent person(s) must conduct any monitoring required by this approval.
G8 - 4	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.
G9 - 4	An annual monitoring report must be provided to the **administering authority** with the annual return. 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 months 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 any record of equipment failures or events recorded for any site under this authority; and (e) An outline of actions taken or proposed to minimize 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.
G10 – 4	The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
G11 - 4	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.
G12 - 4	In consultation with the **administering authority**, cooperate with and participate in any community environmental liaison committee established in respect of either the site specifically or the industrial estate where the site is located.

Agency interest: Air	
Condition number	**Condition**
A1 – 4	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**.
A2 – 4	From the commencement of **this** environmental authority, the holder must maintain an effective odour response and management procedure.
A3 – 4	The release of dust and/or particulate matter resulting from the ERA must not cause an **environmental nuisance** at any nuisance sensitive or **commercial place**.
Agency interest: Noise	
Condition number	**Condition**
N1 – 4	Noise from the ERA must not cause an **environmental nuisance** at any nuisance **sensitive place** or **commercial place**.
N2 – 4	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) $L_{A\ 10\ adj,\ 10\ mins}$ (b) $L_{A1\ adj,\ 10\ mins}$ (c) The level and frequency of occurrence of impulsive or tonal noise; (d) Atmospheric conditions including wind speed and direction; (e) Effects due to extraneous factors such as traffic noise; and (f) Location, date and time of recording.
N3 - 4	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

Agency interest: Water

Condition number	Condition
W1 - 4	Monitoring must be undertaken and **records** kept of contaminant releases to **waters** for the parameters and not less frequently than specified in Table 4 and Table 5. All determinations of the quality of contaminants released must be: (a) made in accordance with methods prescribed in the latest edition of the Environment Protection Agency Water Quality Sampling Manual; and (b) carried out on samples that are representative of the discharge.

Table 4 – Surface Water Release Limits

Monitoring points			Release limits					
West Plant	South Plant	North Plant	Quality Characteristics	Min	80%ile	Median	Max	Frequency
Secondary sedimentation tank outflow	Secondary sedimentation tank outflow	Secondary sedimentation tank outflow	5-day Biochemical Oxygen Demand (mg/L)	-	-	-	20	Monthly
Last manhole prior to discharge to river	Outflow of chlorine contact tank	Reaney Street manhole prior to discharge to river	Dissolved Oxygen (mg/L)	6	-	-	-	Monthly
Outflow of chlorine contact tank	Outflow of chlorine contact tank	Reaney Street manhole prior to discharge to river	Suspended solids (mg/L)	-	-	-	30	Monthly
			pH	6.5* 6.0**	-	-	8.5	Daily
			Total Nitrogen (mg/L)	-	-	-	-	Weekly
			Total Phosphorus as P (mg/L)	-	-	-	-	Weekly
			Faecal Coliform (FC)/100ml	-	<4000	1000	-	Weekly
			Residual Cl_2 (mg/L)	-	-	-	0.7	Daily

* South and North Plant
** West Plant

W2 – 4

Table 5 – Combined calculated mass release rates from North, South and West Sewage Treatment Plants

Quality Characteristic	Load Limit (kg/week)	
	Long term 50%ile	Maximum
Total Nitrogen	1380	4140
Total Phosphorus	1000	3000

W3 - 4	The registered operator must calculate the weekly, monthly and annual mass loads of total nitrogen and total phosphorus discharged at release points RP1, RP2 and RP3 and record this data as a graph also showing the previous two years annual mass load. Mass loads must be calculated by the following formulae: Weekly Mass Load = (Weekly concentration) x (Weekly Average Dry Weather Flow) Monthly Mass Load =(Monthly Median Concentration) x (Monthly Average Dry Weather Flow) Yearly Mass Load =(Yearly Median Concentration) x (Yearly Average Dry Weather Flow).
W4 – 4	Contaminants must only be released to **waters** from the discharge location and in compliance with the release limits listed in Table 4 and Table 5. Discharge Location identified as No. 1 - namely release of treated sewage effluents from North Rockhampton Plant to 56.AMTD at Fitzroy River. Discharge Location identified as No. 2 - namely release of treated sewage effluents from South Rockhampton Plant to 55.0 AMTD at Fitzroy River. Discharge Location identified as No. 3 - namely release of treated sewage effluents from West Rockhampton Plant to 59.2.AMTD at Fitzroy River.
W5 – 4	The daily volume of contaminants released to **waters** must be determined by a flow meter, and **records** kept of such determinations and estimates.
W6 – 4	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.
W7 – 4	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.
W8 - 4	A list of pump stations associated with the activities of this integrated environmental authority must be maintained by the holder of this integrated environmental authority and be made available to the **administering authority** when requested.
W9 – 4	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorized place must be constructed, installed and maintained. (a) So as to minimize the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including **groundwater**); (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.
W10 - 4	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.

W11 – 4	The registered operator must implement an ongoing Water Quality Release Improvement Plan (WQRIP) for discharges from Rockhampton North, South and West Wastewater Treatment Plants. The WQRIP must undertake the following: (a) Outline the reasonable and practicable **measures** the registered operator intends to take to minimise the mass loads of Total Nitrogen and Total Phosphorus per day released into the receiving environment each year in accordance with best practice environmental management; and (b) Outline the actions to reach a long term target that will produce effluents or reduce nutrient loads from the Rockhampton North, South and West Wastewater Treatment Plants to Total Nitrogen concentration of 5 mg/L as Nitrogen as a 50 percentile and Total Phosphorus of 1 mg/L as a 50%ile (this is not a compliance level). A WQRIP progress report and an updated WQRIP (if required) must be prepared annually as a component of the annual report and be submitted to the **administering authority** upon request.
W12 – 4	The Water Quality Release Improvement Plan (WQRIP) report must include the following information for the year addressed in the report: (a) Average daily loads released to **waters**; averaged over each month and over the year, for Total Nitrogen and Total Phosphorus, as calculated in accordance with condition W3 - 4; (b) The reduction in Total Nitrogen and Total Phosphorus loads achieved over previous years; (c) The approximate proportion of effluent re-used rather than being discharged to **waters**; (d) Other practices and procedures undertaken during the preceding twelve months to reduce the loads of Total Nitrogen and Total Phosphorus discharged to **waters**; (e) Practices and procedures that will be implemented to further reduce the loads of Total Nitrogen and Total Phosphorus released to **waters.**
W13 – 4	The registered operator must implement a **Receiving Environment Monitoring Program** (REMP) to monitor the effects of the release of contaminants on the "receiving environment" to effectively determine whether **environmental values** are being protected. "Receiving Environment" for the purpose of the **Receiving Environment Monitoring Program** includes "affected area of the Fitzroy River".
W14 - 4	Subject to the alternative provided in condition W17 - 4, to achieve compliance with the requirement for a REMP, the holder of this environmental must become and remain a "participating member" in the water quality strategies and monitoring programs relevant to the "receiving environment" and endorsed in writing by the **administering authority**. The registered operator is deemed by the **administering authority** to be a "participating member" in regional studies in the following situations: (a) the holder is a "contributing member", to the regional studies of water quality and ecosystem health; and (b) the holder is identified as a "contributing member" in a written statement to the **administering authority** from the authority carrying out the regional studies; and (c) the holder continues to be a "contributing member" of such regional studies.

W15 – 4	The registered operator is deemed by the **administering authority** to be a "contributing member" until such time as: (a) the authority carrying out the regional studies notifies the **administering authority** in writing that the holder is no longer a "contributing member"; and (b) the **administering authority** has undertaken reasonable steps to confirm this with the holder and the authority carrying out the regional studies; and (c) the holder notifies the administering authority in writing that they are no longer a "contributing member".
W16 – 4	If the registered operator no longer meets the criteria as a "contributing member", submit a proposal to the **administering authority** that details how the registered operator will fulfil the requirements for carrying out a REMP and the holder must undertake the following: (a) within 30 days of ceasing to be a "contributing member", submit a proposal to the **administering authority** that details how the holder will fulfil the requirements for a REMP via one of the alternatives prescribed in the condition W17 - 4; and (b) carry out the REMP alternative that is agreed, as submitted or amended, by the **administering authority**, commencing within 14 days of receipt of such written advice from the administering authority or such later date specified in writing by the **administering authority**; and (c) from that date, otherwise comply in all respects with conditions for carrying out the alternative REMP.
W17 - 4	As an alternative to participating in the regional studies, the registered operator may: (a) carry out an equivalent study, which requires that the holder must monitor and record the same or equivalent environmental indicators at an equivalent frequency at an equivalent number of sites as the regional study; or (b) with the written agreement of the **administering authority**, carry out an alternative **Receiving Environment Monitoring Program** that meets the requirements of conditions W18 - 4 to W24 - 4.
W18 – 4	At least 90 days prior to commencing the environmentally relevant activities or within 30 days of ceasing to be a "contributing member" as the case may be, the registered operator must submit to the **administering authority** a proposal to undertake a REMP that is designed to determine the effects of contaminants released into the receiving environment from the discharge of treated sewage effluent.
W19 - 4	The proposal for the REMP must include but not be limited to the following: (a) description of potentially affected environment including key communities and ambient water quality; (b) description of water quality objectives and biological objectives to be achieved; (c) description of selected physico-chemical (including pH, total nitrogen, total phosphorous, dissolved oxygen saturation, water clarity analyses) and biological indicators (including chlorophyll 'a' and macro algal monitoring) and reasons for their inclusion; (d) the locations of monitoring stations including monitoring transects away from the outfall of the licensed releases as well as any control locations; (e) the proposed sampling depths; (f) the water quality characteristics of receiving **waters** to be determined; (g) the frequency of sampling and analysis; (h) any historical datasets to be relied upon; and (i) description of the statistical basis on which conclusions are drawn.

W20 – 4	The proposal for the REMP must include but not be limited to the following: (a) water quality criteria specified in the Australian Water Quality Guidelines; (b) the water EPP and any other Environmental Protection Policies enacted under Queensland's EP Act concerning the "receiving environment"; (c) relevant reports produced as a consequence of the Environmental Protection Agency's Environmental Monitoring Programs; (d) any other requirements arising due to the inclusion of the "receiving environment", within which the REMP is proposed, as part of any Marine Park and/or Fish Habitat Areas, if applicable; (e) relevant reports prepared by other governmental or professional research organisations that relate to the "receiving environment" within which the REMP is proposed; and (f) spatial and temporal controls to exclude potential confounding factors.
W21 – 4	Have due regard to the comments made by the **administering authority** in finalising the requirements of the REMP and must implement the REMP from commencement of the environmentally relevant activities or within the timeframe mentioned in condition W18 - 4, as the case may be.
W22 – 4	**Records** must be kept of the results of all determinations and monitoring carried out under the REMP for a period of at least 5 years.
W23 – 4	At twelve monthly intervals from the date of commencement of the REMP, if carrying out an equivalent study and/or alternative study report to the **administering authority** the data and findings of the REMP carried out.
W24 - 4	The report on the REMP must address at least the following : (a) a detailed description of the methodology used in the REMP; and (b) a detailed description and analysis of the results of the REMP; and (c) an assessment of the impact of contaminant discharge upon the receiving environment with respect to water quality objectives and biological objectives for the "receiving environment"; and (d) an assessment of the level of change in ambient conditions, if any , of the "receiving environment"; and (e) a summary of recommendations that can be drawn from the findings of the REMP, with respect to the prevention or minimisation of the impacts of the contaminant releases on the "receiving environment".
Agency interest: Land	
Condition number	**Condition**
L1 - 4	Spillage of all chemicals and fuels must be contained within an onsite containment system and controlled 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 Section 5.9 – Storage and Handling of Flammable and Combustible Liquids.*

L2 - 4

The only contaminants permitted to be released to **land** are treated effluent from the activities authorised under this development approval. Treated effluent must only be irrigated to areas managed by Rockhampton Regional Council when in accordance with Table 7, and must meet release limits specified in Table 6.

Table 6 – Water quality specifications for class A to class D recycled water

Class	*E.coli* (median) Cfu/100ml	BOD_5 mg/L median	Turbidity NTU 95%ile (max.)	SS mg/L median	TDS, mg/L or EC, µS/cm median TDS/EC[3]	pH
A	<10	20	2(5)	5	1000/1600	6-8.5
B	<100	20	-	30	1000/1600	6-8.5
C	<1000	20	-	30	1000/1600	6-8.5
D	<10,000	-	-	-	1000/1600	6-8.5

Table 7 – Recycled Water uses and class

Recycled Water use	Class
Domestic and commercial property use • Toilet Flushing, outdoor hosing and wash-down, above ground garden watering	A+
Irrigating public open space and golf courses • Above ground open space irrigation, uncontrolled access • Controlled access or subsurface irrigation	A C
Irrigating pasture/fodder and agricultural wash down • Pasture/fodder for dairy animals without withholding period • Pasture/fodder for dairy animals with withholding period of five days • Pasture/fodder for other grazing animals except pigs with withholding period of four hours • Wash down of hard surfaces in agricultural industries	B C C B
Irrigating nonfood crops • Retail nurseries not irrigating ready to eat products • Silviculture, turf, cotton, wholesale nurseries with controlled access and other safeguards to protect the health of workers or neighbours	A D
Industrial purposes • Open system (potential for high human contact) e.g. car wash or quarry where aerosol generation is constant • Open system (potential for occasional human contact, but with safeguards in place) • Closed system (low human contact) • Irrigation of "no public access" areas	A+ A C C

L3 - 4

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 pending of effluent;
(d) percolation of effluent beyond the plant root zone is minimised;
(e) the capacity to 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.

L4 - 4	An Irrigation Management Plan for all areas that are managed by Rockhampton Regional Council and have received treated effluent must be developed and implemented.The Irrigation Management Plan must address the following: (a) efficiency of application; (b) control of sodicity in the soil; (c) minimisation of degradation of soil structure; (d) control of build ups of nutrients and heavy metals in the soil and subsoil from effluent and other sources; (e) preventing impacts to the **groundwater** resource through infiltration; (f) preventing the runoff of effluent by limitation of application rates and the use of structures such as tail water dams; (g) preventing subterranean flows of effluent to **waters**; (h) method of application; and (i) health and safety in relation to effluent handing and irrigation. (j) inclusion of all new areas that receive treated effluent, including a suitability assessment prior to irrigation of treated effluent which includes: - Modelling to determine the long term acceptance rate, - Soil condition, and - Identification of sensitive receiving environments. (k) monitoring must be untaken and **records** kept of contaminant releases to demonstrate compliance with the parameters specified in Table 6.
L5 – 4	Notices must be prominently displayed on areas undergoing effluent irrigation, 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.
L6 – 4	All determinations of the quality of contaminate 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.
L7 - 4	Effluent must only be dispersed to places that have implemented an Irrigation Management Plan, which adequately addresses the following: (a) efficiency of application; (b) control of sodicity in the soil ; (c) minimisation of degradation of soil structure; (d) control of build ups of nutrients and heavy metals in the soil and subsoil from effluent and other sources; (e) preventing impacts to the **groundwater** resource through infiltration; (f) preventing the runoff of effluent from the farms by limitation of application rates and the use of structures such as tail water dams; (g) preventing subterranean flows to effluent to **waters**; (h) method of application; and (i) health and safety in relation to effluent handing and irrigation.

L8 - 4	If the holder of this development approval gives or transfers ownership of the treated sewerage effluent to another person(s), the holder of this development approval must: 1. 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 in the *Environmental Protection Act 1994* in respect to 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 water; and 2. only give or transfer ownership of such effluent in accordance with a written agreement between the holder of this development approval and that person(s); and 3. upon becoming aware that the person is not in compliance, or is not likely to comply with the general environmental duty provided for in the *Environmental Protection Act 1994*, cease the giving and transferring ownership of such effluent, as the case may be.
Agency interest: Waste	
Condition number	**Condition**
WA1 – 4	The holder of this environmental authority must develop and implement a Waste Management Plan which details at least the following : (a) The source, quantity and nature of each waste produced, and (b) The current method of disposal, and (c) Proposed methods of pre-treatment or disposal, and (d) Expected reduction in quantity of waste produced through waste minimisation and cleaner production, and (e) Provisions for carrying out and submitting to the **administering authority** a waste audit every 5 years.
WA2 – 4	All regulated waste removed from the site must be removed by a person who holds a current authority to transport such waste under the provisions of the *Environmental Protection Act 1994*.
WA3 - 4	A copy of the Waste Management Plan must be made available to the **administering authority** upon request.

Part 5: Site specific approval (IPDE00685907)

Environmentally Relevant Activities	Location(s)
64-(3) Water treatment >10ML raw water day	Belmont Road, PARKHURST - Lot 3 Plan RP609089

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

Agency interest: General	
Condition number	**Condition**
G1 – 5	In carrying out an ERA to which this approval relates, all reasonable and practicable **measures** must be taken to prevent and/or to minimise the likelihood of environmental harm being caused.
G2 – 5	The holder must: (a) Install all **measures**, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and (b) Maintain such **measures**, plant and equipment in a proper and efficient condition; and (c) Operate such **measures**, plant and equipment in a proper and efficient manner.
G3 - 5	From commencement of the **activity**,a Site Based Management Plan (SBMP) must be implemented.The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused.The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out. The SBMP must address the following matters: (a) Environmental commitments - a commitment by senior management to achieve environmental goals. (b) Identification of environmental issues and potential impacts. (c) Control **measures** for routine operations to minimise likelihood of environmental harm. (d) Contingency plans and emergency procedures for non-routine situations. (e) Organisational structure and responsibility. (f) Effective communication. (g) Monitoring of the contaminant releases. (h) Conducting environmental impact assessments. (i) Staff training. (j) Record keeping. (k) Periodic review of environmental performance and continual improvement.
G4 - 5	Telephone the EPA's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

G5 - 5	A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition G4 - 5: (a) the name of the operator, including their approval/registration number; (b) the name and telephone number of a designated contact person; (c) quantity and substance released; (d) vehicle and registration details; (e) person/s involved (driver and any others); (f) the location and time of the release; (g) the suspected cause of the release; (h) a description of the effects of the release; (i) the results of any sampling performed in relation to the release; (j) actions taken to mitigate any environmental harm caused by the release; and (k) proposed actions to prevent a recurrence of the release.
G6 – 5	Record, compile and keep all monitoring results required by this approval and present this information to the **administering authority** when requested.
G7 – 5	A competent person(s) must conduct any monitoring required by this approval.
G8 – 5	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.
G9 – 5	An annual monitoring report must be provided to the **administering authority** with the annual return. 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 months 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 any record of equipment failures or events recorded for any site under this authority; and (e) An outline of actions taken or proposed to minimize the environmental risk from any deficiency identified by the monitoring or recording programs.
G10 – 5	The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
G11 - 5	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**
A1 – 5	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**.

A2 – 5	The release of dust and/or particulate matter resulting from the ERA must not cause an **environmental nuisance** at any nuisance sensitive or **commercial place**.
Agency interest: Noise	
Condition number	**Condition**
N1 – 5	Noise from the ERA must not cause an **environmental nuisance** at any nuisance **sensitive place** or **commercial place**.
N2 – 5	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) $L_{A\ 10\ adj,\ 10\ mins}$ (b) $L_{A1\ adj,\ 10\ mins}$ (c) The level and frequency of occurrence of impulsive or tonal noise; (d) Atmospheric conditions including wind speed and direction; (e) Effects due to extraneous factors such as traffic noise; and (f) Location, date and time of recording.
N3 - 5	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

Agency interest: Water

Condition number	Condition
W1 - 5	Monitoring must be undertaken and **records** kept of contaminant releases to **waters** from the discharge locations for the parameters and not less frequently than specified in Table 8a and Table 8b. All determinations of the quality of contaminants released must be: - Made in accordance with menthods prescribed in the latest edition of the Environment Protection Agency Water Quality Sampling Manual; and - Carried out on samples that are representative of the discharge.

Table 8a – Release Limits for Water Quality Characteristics to the Fitzroy River

Discharge Monitoring Point	Water Quality Characteristics	Release limits			Monitoring frequency
		Minimum	50th%ile	Max	
Final Discharge channel (W1)	Chemical Oxygen Demand (mg/L)	-	-	60	Monthly
	Dissolved Oxygen Concentration (mg/L)	2	-	-	Daily
	pH	6.5	-	8.5	Daily
	Dissolved Aluminium Concentration (µg/L)	-	100	300 or ambient level of Fitzroy River	Monthly[1]
W1 during discharge to Lagoon days as per **Table 8b** and W4 – 5	TSS (mg/L)	-	-	100	Monthly[2]
W1 during discharge to River days as per **Table 8b** and W4 - 5	TSS (mg/L)	Not applicable – see **table 8b** and condition W4 - 5			

[1] Dissolved Aluminium concentration of Raw Fitzroy River Water at Glenmore Water Treatment Plant water intake to be monitored at same time as discharge dissolved aluminium monitored.

[2] Record 0mg/L if there are no discharge to Lagoon days in that monitoring month

W2 - 5

Table 8b – Suspended solids release criteria to the Fitzroy River

Fitzroy River Turbidity	Target Release Requirement (Reference value)	Monitoring Frequency
0.00 – 20.00	Release to sludge Lagoon, 5 out of 5 days (5)	Daily*
20.01 – 26.00	Release to sludge Lagoon, 4 out of 5 days (4)	Daily*
26.01 – 43.00	Release to sludge Lagoon, 3 out of 5 days (3)	Daily*
43.01 – 81.00	Release to sludge Lagoon, 2 out of 5 days (2)	Daily*
81.01 – 220.00	Release to sludge Lagoon, 1 out of 5 days (1)	Daily*
>220.00	Release to sludge Lagoon, 0 out of 5 days (0)	Daily*

* Daily **records** to be kept as below:

- Each days 2am Fitzroy River turbidity reading at the Glenmore Water Treatment Plant water intake,
- Each days Fitzroy River TSS in mg/L calculated from the 9am Fitzroy River Turbidity reading, using correlation derived by JWP (1999). For 0-500NTU, TSS = 0.9 x NTU; TSS = 0.52 x NTU + 240,
- Each days (24hr period from 10am to 10am the following day) release destination (either to Lagoon or to River).

W3 - 5

Contaminants must only be released to water from the discharge location W1 - 5 (combined Lagoon to River and Plant to River discharge channel), with release limits listed in Table 8a. Discharge location W1 - namely release of water treatment effluents from Glenmore Water Treatment Plant to Fitzroy River at 64.0 kilometers adopted middle thread distance (AMTD).

W4 - 5

Release destination (either to Lagoon or to River) from Water Treatment Plan for that day (24 hr period from 10am to 10am following day) is determined by the following:

Step 1: That days Target Release Requirement Reference Value is determined by that days 9am Fitzroy River turbidity reading taken in the vicinity of the Glenmore Water Treatment Plant water intake and Table 8b.

Step 2: If that days target release requirement reference value minus the number of days that releases were directed to Lagoon in the previous 4 days is greater than 0, then the release for that day will be to Lagoon.

If that days target release requirement reference value minus the number of days that releases were directed to Lagoon in the previous 4 days is 0 or less than 0, then the release for that day will be to River.

That day means the day on which ambient turbidity sample was taken and analysed.
Target release requirement reference value means the number identified in brackets in Table 8b.

W5 – 5

There must be no release of stormwater runoff that has been in contact with any contaminant at the site to any **waters**, roadside gutter or stormwater drain.

W6 – 5

All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorized place must be constructed, installed and maintained.

(a) So as to minimize the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including **groundwater**);
(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.

W7 - 5	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.
Agency interest: Land	
Condition number	**Condition**
L1 - 5	Contaminants must not be released to **land**.
L2 - 5	Spillage of all chemicals and fuels must be contained within an onsite containment system and controlled 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 Section 5.9 – Storage and Handling of Flammable and Combustible Liquids.*
Agency interest: Waste	
Condition number	**Condition**
WA1 – 5	The holder of this environmental authority must develop and implement a Waste Management Plan which details at least the following: (a) The source, quantity and nature of each waste produced, and (b) The current method of disposal, and (c) Proposed methods of pre-treatment or disposal, and (d) Expected reduction in quantity of waste produced through waste minimisation and cleaner production, and (e) Provisions for carrying out and submitting to the **administering authority** a waste audit every 5 years.
WA2 – 5	All regulated waste removed from the site must be removed by a person who holds a current authority to transport such waste under the provisions of the *Environmental Protection Act 1994.*
WA3 - 5	A copy of the Waste Management Plan must be made available to the **administering authority** upon request.

Definitions

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

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

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

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90% of the time period of not less than 15 minutes, using Fast response.

Boundary means within 1m of the cadastral **boundary** of the approved place.

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

Compliance bore means a bore, constructed in accordance with the relevant standard, and used to monitor compliance with the groundwater quality limits.

Down-gradient bore means a **background bore** in a location hydraulically down gradient of those aspects of the **activity** that may affect groundwater quality.

Early warning bore means a down-gradient bore located between the landfilled waste or other contamination risk and compliance bore(s) to provide early warning of contaminant release.

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

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

General waste means waste other than regulated waste.

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Groundwater monitoring system means a system of groundwater monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of groundwater in the uppermost aquifer where the location of the groundwater monitoring devices is such that comparisons of groundwater quality and groundwater level can be made between groundwater flowing from beneath the site (down-gradient flow) of the **activity** and groundwater flowing towards the site of the **activity** (up-gradient flow).

Incompatible waste means waste that may chemically react when:

1. placed in proximity to other wastes; and/or

2. mixed with other wastes.

$L_{Aeq\ adj,T}$ means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the **activity** is causing a steady state noise, and no shorter than one hour when the approved **activity** is causing an intermittent noise.

Land does not include **waters**.

Liquid means any substance that:

1. has an angle of repose of less than five degrees; or

2. becomes free flowing at or below 60 degrees Celsius or when it is transported; or

3. is not generally capable of being picked up by a spade or shovel.

Max$L_{pA,T}$ means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

Measures have the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

NATA means National Association of Testing Authorities.

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

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

Prescribed water contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

Receiving environment monitoring program means a monitoring program designed to monitor and assess the potential impacts of controlled and/or uncontrolled releases of contaminants to the environment from the activity.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

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

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

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public thoroughfare, park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008*.

Up-gradient bore means a **background bore,** in a location hydraulically up gradient of all potential influences of the **activity** that may affect groundwater 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.

WaTERS is the Wastewater Tracking and Electronic Reporting System (WaTERS) database formally known as the Point Source Database (PSD).

You means the holder of the environmental authority.

24 hour storm event with an average recurrence interval of 1 in 10 years means the maximum rainfall depth from a 24-hour duration precipitation event with an average recurrence interval of once in 10 years. For example, an Intensity–Frequency–Duration table for a 24-hour duration event with an average recurrence interval of 1 in 10 years, identifies a rainfall intensity of 8.2mm/ hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.

END OF ENVIRONMENTAL AUTHORITY

Attachments

Code of environmental compliance for certain aspects of regulated waste transport (ERA 57) – Version 4