

Permit

Environmental Protection Act 1994

Environmental authority EPPR00664913

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

Environmental authority number: EPPR00664913

Environmental authority takes effect on 06-11-2020

Environmental authority holder(s)

Name(s)	Registered address
WAANYI SPC PTY LTD	Suite 6 28 West Street MOUNT ISA QLD 4825

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (a) less than 2000t	Lot 3 on GY15
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 3 on GY15

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-on the day the authority is issued.

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

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

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

Derek Robson
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 06 November 2020

Enquiries:
Heritage, Utilities and Government Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@des.qld.gov.au

Environmental authority

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)

Conditions of environmental authority

Environmentally relevant activities	Location
ERA 63 (1)(b)(i) Sewage treatment > 100 to 1500 EP – IT or IR	Riversleigh Road, Lawn Hill QLD 4825 – Lot 3 on plan GY15
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (a) less than 2000t	

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

Environmental authority

Agency interest: General	
Condition number	Condition
A1	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: 1. inflows to the sewage treatment plant must not exceed 53kL on any day; 2. disposal of treated effluent is only to be carried out within the application area depicted within Figure 1 - <i>Adel's Grove Site Plan</i> and approved irrigation area; and 3. daily treated effluent irrigation rate must not exceed a long term rolling median of 5.5mm/ha/day.
A2	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities.
A3	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained in and aware of their obligations under the <i>Environmental Protection Act 1994</i> ; and 6. ensure that reviews of environmental performance are undertaken at least annually.
A4	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
A5	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the administering authority upon request and in the format requested.
A6	An annual monitoring report must be prepared and submitted to the administering authority by 30 November each year, for the preceding financial year.
A7	You must record the following details of all environmental complaints received: 1. date and time the complaint was received; 2. name and contact details of the complainant when provided and authorised by the complainant; 3. nature of the complaint; 4. investigation undertaken; 5. conclusions formed; and 6. actions taken.
Page 5	

Environmental authority

A8	When required by the administering authority, monitoring must be undertaken in the manner prescribed by the administering authority to investigate a complaint of environmental nuisance arising from the activity. The monitoring results must be provided within 10 business days to the administering authority upon its request.
A9	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
A10	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring of E. Coli, Electrical Conductivity and pH.

Environmental authority

Agency interest: Air																	
Condition Number	Condition																
B1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance at a sensitive place or commercial place.																
Agency interest: Water																	
Condition number	Condition																
C1	Contaminants must not be released to waters.																
C2	You must install and maintain wet weather storage with a volume of at least 75kL for storage of treated effluent.																
Agency interest: Noise																	
Condition number	Condition																
D1	All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.																
D2	All noise from activities must not exceed the levels specified in Table 1 at any noise sensitive place. Table 1 <table> <tr> <th>Time period</th><th>Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, \max \text{ adj } T}$</th></tr> <tr> <td>7am – 6pm</td><td>40 dB(A) or background noise level plus 5 dB(A), whichever is the greater</td></tr> <tr> <td>6pm – 10pm</td><td>35 dB(A) or background noise level plus 5 dB(A), whichever is the greater</td></tr> <tr> <td>10pm – 7am</td><td>30 dB(A) or background noise level plus 3 dB(A), whichever is the greater</td></tr> <tr> <th>Time period</th><th>Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, \max \text{ adj } T}$</th></tr> <tr> <td>7am – 6pm</td><td>40 dB(A) or background noise level plus 10 dB(A), whichever is the greater</td></tr> <tr> <td>6pm – 10pm</td><td>35 dB(A) or background noise level plus 10 dB(A), whichever is the greater</td></tr> <tr> <td>10pm – 7am</td><td>30 dB(A) or background noise level plus 8 dB(A), whichever is the greater</td></tr> </table>	Time period	Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, \max \text{ adj } T}$	7am – 6pm	40 dB(A) or background noise level plus 5 dB(A), whichever is the greater	6pm – 10pm	35 dB(A) or background noise level plus 5 dB(A), whichever is the greater	10pm – 7am	30 dB(A) or background noise level plus 3 dB(A), whichever is the greater	Time period	Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, \max \text{ adj } T}$	7am – 6pm	40 dB(A) or background noise level plus 10 dB(A), whichever is the greater	6pm – 10pm	35 dB(A) or background noise level plus 10 dB(A), whichever is the greater	10pm – 7am	30 dB(A) or background noise level plus 8 dB(A), whichever is the greater
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D3	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: 1. $L_{A, \max \text{ adj } T}$; 2. the level and frequency of occurrence of impulsive or tonal noise; 3. atmospheric conditions including wind speed and direction; 4. effects due to extraneous factors such as traffic noise; and 5. location, date and time of recording.																

Environmental authority

D4	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's <i>Noise Measurement Manual</i> .
Agency interest: Waste	
Condition number	Condition
E1	Only general and limited regulated wastes are to be disposed of at the landfill.
E2	Keep and maintain records of source, volumes and composition of all waste types accepted at the premises and report these values to the administering authority by 31 August each year.
E3	The holder of this environmental authority must not: 1. burn waste at or on the licensed places; nor 2. allow waste to burn or be burned at or on the licensed places; nor 3. remove waste from the licensed places and burn such waste elsewhere unless the facility can lawfully accept such waste.
E4	Wastes deposited in the waste disposal trench must be compacted and covered with a layer of inert earthen material not less frequently than once per week or more often if it is necessary to: 1. restrict the access of flies, birds, rodents or other animals to deposited wastes; 2. minimise the propagation of odours from deposited waste; 3. minimise the generation of windblown litter; and 4. reduce the risk of fire.
E5	Litter must be collected so as to ensure that the waste disposal facility, all fences, litter screens and the surrounds of the waste disposal facility are kept in a tidy condition.
E6	A firebreak must be established around all the waste disposal trenches so as to prevent the spread of fire to adjoining land.
E7	In the event of any fire occurring at the waste disposal facility it must be extinguished as soon as it is safe to do so.
E8	All regulated waste removed from the premises to which this environmental authority relates must be removed by a person who holds a current approval to transport such waste under the provisions of the <i>Environmental Protection Act 1994</i> .
E9	All reasonable and practicable measures must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. environmental nuisance to occupiers of neighbouring premises; and 2. any danger or risk to the health of any persons.
Agency interest: Land	
Condition number	Condition

F1	The only contaminants permitted to be released to land are treated effluent to the areas shown in Figure 1 - <i>Adel's Grove Site Plan</i> and approved irrigation area in compliance with the limits stated in Table 2 and associated requirements. Table 2 <table><tr><th colspan="6">Release Limit</th></tr><tr><th>Quality characteristic</th><th>Minimum</th><th>50th Percentile</th><th>80th Percentile</th><th>Maximum</th><th>Median</th></tr><tr><td>Total Nitrogen (mg/L)</td><td>-</td><td>-</td><td>-</td><td>50</td><td>-</td></tr><tr><td>Total Phosphorus (mg/L)</td><td>-</td><td>-</td><td>-</td><td>12</td><td>-</td></tr><tr><td>pH</td><td>6.5</td><td>-</td><td>-</td><td>8.5</td><td>-</td></tr><tr><td>E.Coli (organisms/ 100mL)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>100 organisms per 100mL as a median value minimum of 5 samples taken at not less than half-hourly intervals in any one day).</td></tr><tr><td>Electrical Conductivity</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1600 µS/cm</td></tr></table> Associated requirements 1. Releases of sewage effluent must not occur outside of the application area. 2. Monitoring must be in accordance with the administering authority's <i>Water Quality Sampling Manual</i> and any additional relevant guidelines if necessary and all monitoring devices must be effectively calibrated and maintained. 3. Monitoring must be undertaken when treated sewage effluent is being released to land, unless releases have ceased for longer than the relevant parameters specified minimum frequency (e.g. if TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release). 4. Indicators for TN and TP are recommended to be done as grab samples.	Release Limit						Quality characteristic	Minimum	50th Percentile	80th Percentile	Maximum	Median	Total Nitrogen (mg/L)	-	-	-	50	-	Total Phosphorus (mg/L)	-	-	-	12	-	pH	6.5	-	-	8.5	-	E.Coli (organisms/ 100mL)	-	-	-	-	100 organisms per 100mL as a median value minimum of 5 samples taken at not less than half-hourly intervals in any one day).	Electrical Conductivity	-	-	-	-	1600 µS/cm
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F2	The irrigation of effluent must be carried out in a manner such that: 1. the irrigation area is maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; 2. degradation of soil structure is minimised; 3. surface pondage and run-off of effluent is prevented; 4. drainage to groundwater is minimised and subsurface flows of contaminants to surface waters are prevented; 5. the capacity of the land to assimilate nitrogen, phosphorus and salts is not exceeded; 6. Biomass removed from plants growing on the nutrient uptake belt area and revegetation area must be removed from the site for disposal; and																																										
Page 9	7. the treated effluent must be distributed evenly within the land application area ABN 46 640 294 485																																										

Environmental authority

F3	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.																									
F4	The effluent irrigation area depicted within Figure 1 - <i>Adel's Grove Site Plan</i> and approved irrigation area must be fenced to restrict public and visitor access.																									
F5	Conduct and keep records of any monitoring programs of contaminant released from the treatment plant at the monitoring points, frequency, and for the parameters specified in Table 3.																									
F6	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. <table><tr><th colspan="4">Table 3</th></tr><tr><th>Monitoring point</th><th>Quality characteristic</th><th>Units</th><th>Frequency</th></tr><tr><td rowspan="2">MP1 – Outlet of the final effluent holding tank pump prior to release to land</td><td>Total Nitrogen</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Total Phosphorus</td><td>mg/L</td><td>Quarterly</td></tr><tr><td rowspan="3"></td><td>pH</td><td>pH Scale</td><td>Quarterly</td></tr><tr><td>E. Coli (organisms / 100ml)</td><td>cfu/100mL</td><td>Quarterly*</td></tr><tr><td>Electrical Conductivity</td><td>µS/cm</td><td>Quarterly</td></tr></table> <i>*E.Coli testing may be undertaken in-situ quarterly, and must be verified by testing at a NATA certified laboratory biannually.</i>	Table 3				Monitoring point	Quality characteristic	Units	Frequency	MP1 – Outlet of the final effluent holding tank pump prior to release to land	Total Nitrogen	mg/L	Quarterly	Total Phosphorus	mg/L	Quarterly		pH	pH Scale	Quarterly	E. Coli (organisms / 100ml)	cfu/100mL	Quarterly*	Electrical Conductivity	µS/cm	Quarterly
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F7	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.																									
F8	Soil monitoring must be undertaken at the monitoring points, frequency, and for the parameters specified in Table 4. <table><tr><th colspan="4">Table 4 (Soil Monitoring Program)</th></tr><tr><th>Monitoring Point</th><th>GDA 94</th><th>Parameter</th><th>Frequency</th></tr><tr><td>S1</td><td>239483, 7931476</td><td>pH, EC, P, N</td><td>Every 2 years</td></tr><tr><td>S2</td><td>239557, 7931520</td><td>pH, EC, P, N</td><td>Every 2 years</td></tr><tr><td>S3</td><td>239618, 7931567</td><td>pH, EC, P, N</td><td>Every 2 years</td></tr></table>	Table 4 (Soil Monitoring Program)				Monitoring Point	GDA 94	Parameter	Frequency	S1	239483, 7931476	pH, EC, P, N	Every 2 years	S2	239557, 7931520	pH, EC, P, N	Every 2 years	S3	239618, 7931567	pH, EC, P, N	Every 2 years					
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F9	Spillage of all chemicals and fuels must be contained within an on-site contaminant system and controlled in a manner that prevents environmental harm. <i>NOTE: All petroleum product storages must be designed, constructed and maintained in accordance with AS 1940 – Storage and Handling of Flammable and Combustible Liquids.</i>																									
F10	The size of the available irrigation area must be at least 10,000m².																									

Definitions

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

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

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

Site means the place to which this environmental authority relates.

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

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

This authority means this environmental authority.

Odour sensitive place means:

1. a dwelling, mobile home or caravan park, residential marina or other residential place;
2. a motel, hotel or hostel;
3. a kindergarten, school, university or other educational institution;
4. a medical centre or hospital;
5. a protected area;
6. a park or gardens; or
7. a place used as an office or for business or commercial purposes; and
8. includes the curtilage of any such place.

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

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

Long Term Rolling Median means a limit applied to consecutive samples taken over a 12 month period (on a rolling basis for limit calculations) where consecutive samples are taken daily.

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

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

Nuisance sensitive place includes:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises;
2. a motel, hotel or hostel;
3. a kindergarten, school, university or other educational institution;
4. a medical centre or hospital;

5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2002* or a World Heritage Area;
6. a public thoroughfare, park or gardens; or
7. a place used as a workplace, an office or for business or commercial purposes; and
8. includes a place within the curtilage of such a place reasonably used by persons at that place.

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

Noise affected premises means a noise sensitive place or a commercial place.

Noise sensitive place means:

1. a dwelling, mobile home or caravan park, residential marina or other residential place;
2. a motel, hotel or hostel;
3. a kindergarten, school, university or other educational institution;
4. a medical centre or hospital;
5. a protected area;
6. a park or gardens; or
7. includes the curtilage of any such place.

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

Intrusive noise means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:

1. is clearly audible to, or can be felt by, an individual; and
2. annoys the individual.

In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations.

Protected area means:

1. a protected area under the *Nature Conservation Act 1992*;
2. a marine park under the *Marine Parks Act 2004*; or
3. a World Heritage Area.

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.

50th percentile means not more than three (3) of the measured values of the quality characteristic are to exceed the stated release limit for any six (6) consecutive samples for a release / monitoring point at any time during the environmental activities works.

80th percentile means not more than one (1) of the measured values of the quality characteristic is to exceed the stated release limit for any five (5) consecutive samples for a sampling point at any time during the environmental authorities works.

Land means land excluding waters and the atmosphere.

mg/L means milligrams per litre.

NTU means nephelometric turbidity units.

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

1. for an element – any chemical compound containing the element; and
2. anything that has contained the waste.

Limited regulated waste means any of the following regulated wastes, asbestos, clinical waste or quarantine waste that has been rendered non-infectious, fish processing waste, food processing waste, poultry processing waste, tyres or treatment tank sludge or residuals produced in the carrying out of an activity mentioned in ERA 63 (Sewage treatment works).

Figure 1 Adel’s Grove Site Plan and approved irrigation area (in blue)

