

Permit

Environmental Protection Act 1994

Environmental authority EPPR00924813

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

Environmental authority number: EPPR00924813

Environmental authority takes effect on 08-07-2021

Environmental authority holder(s)

Name(s)	Registered address
Alice Faust	128 Gloucester Ave HIDEAWAY BAY QLD 4800 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 5 on SP152050

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.

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

Date issued: 08 July 2021

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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 activity	Location
ERA 63 Sewage treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (a) 21 to 100EP (i) if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.	Lot 51 on Plan SP212259 - 128 Gloucester Ave, Hideaway Bay QLD 4800

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

Agency interest: General	
Condition number	Condition
G1	Prevent and/or minimise likelihood of environmental harm. 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	Maintenance of Measures, Plant and Equipment 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 approval; 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	Site Based Management Plan

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	From commencement of an ERA to which this approval relates, 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 ERAs that are carried out. The SBMP must address the following matters: (a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals; and (b) Identification of environmental issues and potential impacts; and (c) Control measures for routine operations to minimise likelihood of environmental harm; and (d) Contingency plans and emergency procedures for non-routine situations; and (e) Organisational structure and responsibility; and (f) Effective communication; and (g) Monitoring of contaminant releases; and (h) Conducting environmental impact assessments; and (i) Staff training; and (j) Record keeping; and (k) Periodic review of environmental performance and continual improvement.
G4	Records Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
G5	Equipment Calibration 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.
Agency interest: Air	
Condition number	Condition
A1	Nuisance 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	Dust Nuisance 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: Land	
Condition number	Condition
L1	Land Disposal The only contaminants permitted to be released to land are treated effluent to the areas shown in <i>Appendix 1 - Detail Site Layout drawing No S-02</i>. Irrigated effluent quality must be in compliance with the limits levels stated in <i>Table 1 - Contaminant release limits to land</i> and the conditions of

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	this approval.
L2	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	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.
L4	The daily volume of contaminants released to land must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.
L5	When conditions prevent the irrigation of treated effluent to land (such as during or following rain events), the contaminants must be directed to a wet weather storage or alternative measures must be taken to store/lawfully dispose of effluent (such as wet weather storage or tanking off site to another treatment plant or sewer). A record must be kept of any removal or discharge off site, including destination, transporter, dates and volumes.
L6	A minimum area of 4500 square metres of land, excluding any necessary buffer zones, must be utilised for the irrigation of treated effluent/stormwater.
L7	Contaminant pumping stations must be fitted with pump-failure alarms as well as high level alarms to warn of imminent overflow.
L8	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 <i>Table 2 - Monitoring program</i> .
L9	Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm. NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids
Agency interest: Noise	
Condition number	Condition
N1	Noise Nuisance Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place
N2	Noise Monitoring 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) LA 10, adj, 10 mins; and

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	(b) LA 1, adj, 10 mins; and (c) the level and frequency of occurrence of impulsive or tonal noise; and (d) atmospheric conditions including wind speed and direction; and (e) effects due to extraneous factors such as traffic noise; and (f) location, date, and time of recording.
N3	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

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Agency interest: Social	
Condition number	Condition
S1	Complaint Response The operator of the ERA must record the following details for all complaints received and provide this information to the administering -authority on request: (a) Time, date, name and contact details of the complainant; and (b) reasons for the complaint; and (c) any investigations undertaken; and (d) conclusions formed; and (e) any actions taken.
Agency interest: Water	
Condition number	Condition
WT1	Release to Waters Contaminants must not be released from the site to any waters or the bed and banks of any waters.
WT2	Groundwater monitoring of the uppermost aquifer from bores located in the vicinity of the sewage treatment plant and irrigation area must be undertaken and records kept of water quality. At least, two monitoring bores must be utilised and be down gradient from the irrigation areas (situated between marine waters and the effluent irrigation areas).
WT3	Groundwater monitoring must be undertaken by a suitably qualified person at the frequency, and for the parameters specified in Table 2 - monitoring; and must be in accordance with AS/NZ 5667.11.
WT4	The effluent irrigation areas must have a separation distance (buffer) of at least 30 metres from any groundwater bore access point or surface waters
WT5	The sewage treatment plant must incorporate sufficient wet weather storage capacity to permit 10 days storage of the normal average daily volume of effluent treated.

Attachments – Tables

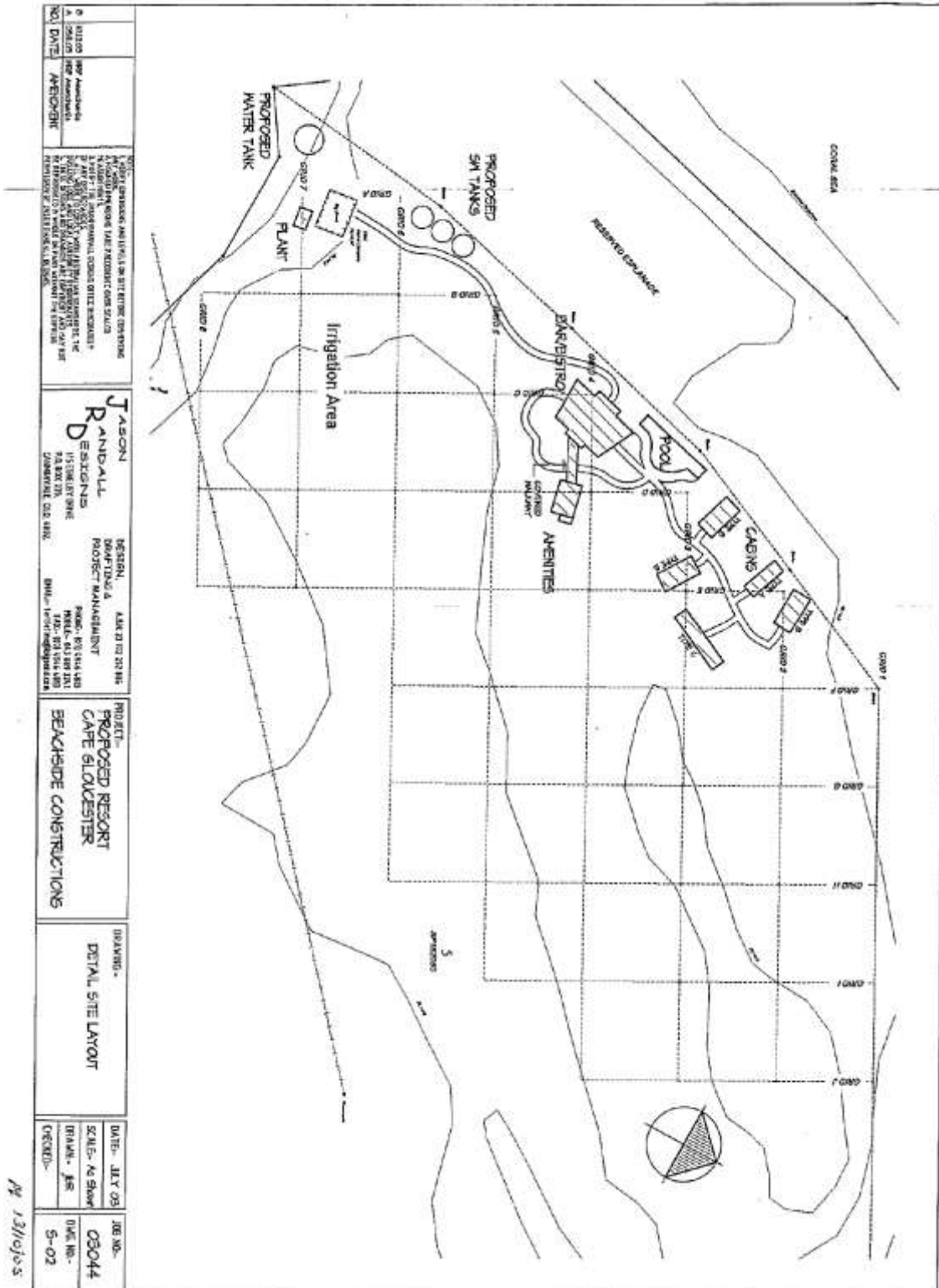
Table 1 - Contaminant release limits to land

Quality characteristics	Release Limit				
	Minimum	50th Percentile	80th Percentile	Maximum	Median
Biological oxygen demand	-	-	-	20 mg/L	-
Total suspended solids	-	-	-	30 mg/L	-
Total Nitrogen	-	-	-	30 mg/L	15 mg/L
Total Phosphorus	-	-	-	15 mg/L	5 mg/L
Thermotolerant coliforms	-	-	-	1000 CFU/100m1	200 CFU/100m1
pH	6.5	-	-	8.5	-

Table 2 - Monitoring program

Monitoring point	Quality characteristics	Units	Frequency
Treated effluent storage tank	BOD	mg/L	Quarterly
Treated effluent storage tank	Suspended solids	mg/L	Quarterly
Treated effluent storage tank	pH	range	Quarterly
Treated effluent storage tank	Total Nitrogen	mg/L	Quarterly
Treated effluent storage tank	Total Phosphorus	mg/L	Quarterly
Treated effluent storage tank	Thermotolerant coliforms	CFU/100ml	Quarterly
Groundwater monitoring bore	Thermotolerant coliforms	CFU/100ml	Prior to commencement then six monthly
Groundwater monitoring bore	Nitrate	mg/L	Prior to commencement then six monthly
Groundwater monitoring bore	Ammonia	mg/L	Prior to commencement then six monthly

Appendix 1 - Detail Site Layout drawing No S-02



Definitions

Words and phrases used throughout this permit are defined below. Where a definition for a term used in this permit is sought and the term is not defined within this permit the definitions provided in the relevant legislation shall be used.

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

Approval means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.

Artificial waterway means an artificial channel, lake or other body of water. Artificial waterway includes —

- an artificial channel that is formed because the land has been reclaimed from tidal water and is
- intended to allow boating access to allotments on subdivided land;
- other artificial channels subject to the ebb and flow of the tide; and
- any additions or alterations to an artificial waterway.

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

Canal means an artificial waterway surrendered to the State. A canal is an artificial waterway connected, or intended to be connected, to tidal water; and from which boating access to the tidal water is not hindered by a lock, weir or similar structure.

Coastal dune means a ridge or hillock of sand or other material on the coast and built up by the wind.

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

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

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

Erosion prone area means an area declared to be an erosion prone area under section 70(1) of the *Coastal Protection and Management Act 1995*.

High water mark means the ordinary high water mark at spring tides.

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

- is clearly audible to, -or can be felt by, an individual; and
- 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.

LA 10, adj, 10 mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10-minute measurement period, using Fast response.

LA 1, adj, 10 mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10-minute measurement period, using Fast response.

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

Land in the "land schedule" of this document means land excluding waters and the atmosphere.

mg/L means milligrams per litre.

Noxious means harmful or injurious to health or physical wellbeing.

Nuisance sensitive place includes —

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- and includes a place within the curtilage of such a place reasonably used by persons at that place.

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

Protected area means —

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

Regulated waste means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 1998 (whether or not it has been treated or immobilised), and includes -

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

Site means the place to which this development approval relates or the premises to which this development approval relates.

Tidal water means the sea and any part of a harbour or watercourse ordinarily within the ebb and flow of the tide at spring tides.

Uppermost aquifer means the geologic formation nearest to the natural ground surface that is an aquifer. The term includes any aquifers that are likely to be hydraulically interconnected with this aquifer within the landfill facility property boundary.

Watercourse means a river, creek or stream in which water flows permanently or intermittently-

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

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 activity(ies) 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 activity(ies) works.

END OF ENVIRONMENTAL AUTHORITY