Permit

Environmental Protection Act 1994

Environmental authority EA0001972

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

Environmental authority number: EA0001972

Environmental authority takes effect on 5 July 2021.

Environmental authority holder(s)

Name(s)	Registered address
Mainstream Aquaculture Queensland PTY LTD	73-79 Lock Ave WERRIBEE VIC 3030 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 01 - Aquaculture 2: Cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of (b) more than 10ha but not more than 100ha	Lot 1 on SP237170 Lot 2 on RP714790 Lot 2 on SP237170 Lot 3 on SP237170
ERA 01 - Aquaculture 2: Cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of (b) more than 10ha but not more than 100ha	Lot 1 on RP726461 Lot 2 on RP726461

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.

Queensland Government

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.

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

Date issued: 5 July 2021

Enquiries:
Coastal and Marine Assessment
Department of Environment and Science

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

Obligations under the *Environmental Protection Act 1994*

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

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

Legislative requirements

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.

Development approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1 – Jay Road Facility

Environmentally relevant activities	Locations
1-(2b) Aquaculture >10ha but <100ha land	Jay Road, Mourilyan Lot 1 on SP237170 Lot 2 on RP714790 Lot 2 on SP237170 Lot 3 on SP237170

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

Agency interest: General	
Condition number	**Condition**
P1-G1	The only areas permitted for aquaculture activities under this **environmental authority** are those outlined in Appendix 1, Figure 1 – Site Map.
P1-G2	The **environmental authority** applies to the operation of not more than fifty eight (58) ponds having a combined total area of 41.3ha.
P1-G3	The on farm waste water retention and treatment system must have a surface area of at least 15.979Ha.
P1-G4	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.
P1-G5	All reasonable and practicable **measures** must be taken to prevent or minimise **environmental harm** caused by the activities.
P1-G6	The **activity** must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the **activity** during routine operations and emergencies; and b) establish and maintain control **measures** that minimise the potential for **environmental harm**; and c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; and d) ensure plant, equipment and **measures** are operated in a proper and effective manner; and e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and f) ensure that reviews of environmental performance are undertaken at least annually.
P1-G7	All **records** must be kept for a period of at least five years and provided to the **administering authority** upon request.

P1-G8	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system.**
P1-G9	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 Dissolved Oxygen and pH.
P1-G10	**You** must record the following details for all environmental complaints received: 1. date and time complaint was received 2. name and contact details of the complainant when provided and authorised by the complainant 3. nature of the complaint 4. investigations undertaken 5. conclusions formed 6. actions taken.
P1-G11	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.
P1-G12	All ponds, channels and containment structures used for the storage, use or treatment of aquaculture waters at or on the authorised place must be constructed, installed and maintained: a) so as to minimise the likelihood of any release of water through the bed or banks of the pond, channels or containment structures to any **waters** (including **groundwater**); and b) so as to ensure the stability of the ponds, channels or containment structures' construction; and c) in accordance with the Queensland Government guideline titled Guideline for constructing and maintaining aquaculture containment structures (2007) or more recent editions.
P1-G13	An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.
P1-G14	A **receiving environment monitoring program** must be designed and implemented by an **appropriately qualified person(s)** to monitor the effects of the **activity** on surface **waters**.
P1-G15	The **receiving environment monitoring program** required by condition P1-G14, must include at least the following: **Surface Waters** a) a description of potentially affected receiving **waters** including key communities and background water and sediment quality characteristics based on accurate and reliable monitoring data that takes into consideration any temporal variation (e.g. seasonality); and b) a description of applicable environmental values and sediment and water quality objectives to be achieved; and c) any relevant reports prepared by other governmental or professional research organisations that relate to the receiving environment within which the **Receiving Environment Monitoring Program** is proposed; and

	d) water and sediment quality targets within the receiving environment to be achieved, and clarification of **contaminant** concentrations or levels indicating adverse environmental impacts during the monitoring program.
Agency interest: Air	
Condition number	**Condition**
P1-A1	Odours or airborne **contaminants** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Agency interest: Land	
Condition number	**Condition**
P1-L1	**Contaminants** must not be released to **land.**
P1-L2	Treatment and management of **acid sulfate soils** must comply with the latest edition of the *Queensland Acid Sulfate Soil Technical Manual*.
P1-L3	Before applying to surrender this **environmental authority**, the site must be rehabilitated to achieve a safe, stable, non-polluting landform.
Agency interest: Acoustic	
Condition number	**Condition**
P1-N1	Noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place.**
Agency interest: Waste	
Condition number	**Condition**
P1-W1	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
P1-W2	The **administering authority** must be notified of any disease outbreak requiring treatment and/or drainage of ponds and/or tank contents.
P1-W3	Where diseased organisms and/or affected water requires disposal it must be monitored and the following **records** kept: a) the date, quantity and type of waste disposed of; and b) name of the waste transporter and or disposal operator that removed the waste; and c) the intended treatment/disposal destination of the waste.

P1-W4	Pond sludge removed from the cultivation or settlement ponds must be stored and/or disposed of in a manner which does not cause the release of **contaminants**.

Agency interest: Water

Condition number	Condition
P1-WT1	Other than as permitted within this **environmental authority**, **contaminants** must not be released to any **waters**.
P1-WT2	**Contaminants** must only be released to surface **waters** in accordance with *Table 1 – Contaminant monitoring and discharge locations and release limits* and the associated requirements.

Table 1 – Contaminant monitoring and discharge locations and release limits

Monitoring Locations	Discharge Locations	Quality Indicator	Release Limits			Minimum Monitoring Frequency
			Minimum	Mean	Maximum	
Settlement Pond A & B	RPS1 & RPN1	pH	6.5	-	9.0	Daily
		Dissolved Oxygen	4.0**mg/L** or 90% of the receiving water value whichever the greater	-	-	
		Total Nitrogen (**mg/L**)	-	1	3	Monthly
		Total Phosphorus (**mg/L**)	-	-	0.4	
		Total Suspended Solids (**mg/L**)	-	40	75	

Associated requirements

1. Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Science Monitoring and Sampling Manual.
2. Water samples must be representative of the general condition of the water body.
3. All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic.
4. Monitoring must be undertaken during a release and at the frequency stated.
5. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.

P1-WT3	The monitoring locations and release points must be situated and maintained in accordance with Appendix 1, Figure 1 – Site Map. RPS1 = discharge point from Settlement Pond A RPN1 = proposed discharge point from Settlement Pond B
P1-WT4	In addition to achieving compliance with P1-WT2, the release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter

<table>
<tr><td>P1-WT5</td><td>The release of contaminants to waters described as Walter Creek from RPS1 and RPN1 in accordance with Table 1 - Contaminant monitoring and discharge locations and release limits must only occur from ½ hour after local high water until 1 hour before local low water.</td></tr>
<tr><td>P1-WT6</td><td>The Annual Mass Load of Total Nitrogen and Total Phosphorus released to waters from release points RPS1 & RPN1 must comply with the release limits listed in Table 2 – Contaminant Release to Waters – Annual Mass Load Limits.

Table 2 — Contaminant Release to Waters – Annual Mass Load Limits
<table>
<tr><th>Release Point Name</th><th>Indicator</th><th>Limit Type</th><th>Release Limit</th></tr>
<tr><td rowspan="2">RPS1 & RPN1</td><td>Total Nitrogen (TN) Annual Mass Load</td><td>Maximum</td><td>2.8t/yr</td></tr>
<tr><td>Total Phosphorus (TP) Annual Mass Load</td><td>Maximum</td><td>525kg/yr</td></tr>
</table></td></tr>
<tr><td>P1-WT7</td><td>You must calculate and report on the yearly sum of Daily Release Volume (ML) and annual mass load of Total Nitrogen and Total Phosphorus released to waters in accordance with condition P1-WT6 quarterly for the first two (2) years of operation.</td></tr>
<tr><td>P1-WT8</td><td>The daily quantity of water released from RPS1 and RPN1 must be determined by use of a method with an accuracy of +5% of the actual amount released.</td></tr>
<tr><td>P1-WT9</td><td>Emergency by-pass of wet weather flow due to extreme weather conditions is permitted at the release points shown in Appendix 1, Figure 1 – Site Map during or immediately after extreme rainfall events when release from the primary settlement pond into the wetland treatment ponds would cause damage to the wetland treatment system.</td></tr>
<tr><td>P1-WT10</td><td>Contaminants must not be released to groundwater or at a location where they are likely to release to groundwater.</td></tr>
</table>

Part 2 – Martyville Road Facility

Environmentally relevant activity	Location
1-(2b) Aquaculture >10ha but <100ha land	Martyville Road, Martyville Lot 1 RP726461 Lot 2 RP726461

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

Agency interest: General	
Condition number	**Condition**
P2-G1	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.
P2-G2	All reasonable and practicable **measures** must be taken to prevent or minimise **environmental harm** caused by the activities.
P2-G3	The **activity** must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the **activity** during routine operations and emergencies; and b) establish and maintain control **measures** that minimise the potential for **environmental harm**; and c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; and d) ensure plant, equipment and **measures** are operated in a proper and effective manner; and e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and f) ensure that reviews of environmental performance are undertaken at least annually.
P2-G4	All **records** must be kept for a period of at least five years and provided to the **administering authority** upon request.
P2-G5	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system**.
P2-G6	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint that is 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.

P2-G7	**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; and f) actions taken.
P2-G8	**An appropriate qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by the **environmental authority** and in the manner specified by this **environmental authority**.
P2-G9	Part 2 of this **environmental authority** applies only to the operation and maintenance of: a) Aquaculture ponds having a combined total area of not more than thirteen (13) hectares; b) An on farm waste water retention and treatment system of at least six (6) hectares surface area, capable of achieving a minimum retention time for all effluent of at least of two (2) days, designed to remove **contaminants** from **waters** released from the production ponds.
P2-G10	Chemicals must be used in accordance with manufacturer's requirements and are limited to those approved by the National Registration Authority, prescribed by a veterinarian or which have been declared Exempt from Registration and their use shall be in accordance with the label requirements for aquaculture.
P2-G11	All drugs and chemicals authorised to be used at the facility shall only be discharged to the receiving environment at a level prescribed or authorised by the **administering authority**.

Agency interest: Air

Condition number	Condition
P2-A1	Odours or airborne **contaminants** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
P2-A2	Exceedance of any of the following levels when measured at any dust **sensitive place** is an **environmental nuisance** for the purposes of condition P2-A1. • Dust deposition of 120 milligrams per square metre per **day**, when monitored in accordance with Australian Standard AS 3580.10 of 1991; OR • A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a dust **sensitive place** downwind of the licensed place/premises to which this **environmental authority** relates, when monitored in accordance with: - Australian Standard AS 3580.9.6 *Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet-Gravimetric method*; or Any alternative method of monitoring PM10 which may be permitted by the *Air Quality Sampling Manual* as published from time to time by the **administering authority**.

P2-A3	When requested by the **administering authority**, dust and particulate monitoring must be undertaken to investigate any complaint of **environmental nuisance** caused by dust and/or particulate matter, and the results notified within 14 days to the **administering authority** following completion of monitoring. Monitoring must include: • For a complaint alleging dust nuisance, dust deposition; and • For a complaint alleging adverse health effects caused by dust, the concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time. Must be carried out a place(s) relevant to the potentially affected dust **sensitive places** and upwind control sites.
Agency interest: Water	
Condition number	**Condition**
P2-WT1	Other than as permitted within this **environmental authority**, **contaminants** must not be released to any **waters**
P2-WT2	All analysis required under this **environmental authority** must be carried out by a laboratory that has **NATA** certification or an equivalent certification for such analysis. The only exception to this condition is for *in situ* monitoring of pH and dissolved oxygen.
P2-WT3	**Contaminants** must only be released to surface **waters** in accordance with the release limits listed in *Table P2-WT3 – Contaminant release limits* and the associated monitoring requirements.

Table P2-WT3 – Contaminant release limits

Monitoring Point	Discharge Location	Quality Characteristics	Minimum	50th Percentile	90th Percentile	Maximum	Monitoring Frequency
W1	Refer to Appendix 2	pH	7	-	-	8.5	Daily during discharge
W1	Refer to Appendix 2	Dissolved Oxygen (%)	80%	-	-	120%	Daily during discharge
W1	Refer to Appendix 2	**Total Nitrogen** (**mg/L**)	-	1.5	3.5	-	Subsequent sampling frequency[1]
W1	Refer to Appendix 2	**Total Phosphorus** (**mg/L**)	-	0.1	0.25	-	Subsequent sampling frequency[1]
W1	Refer to Appendix 2	Total Suspended Solids (**mg/L**)	-	15	25		Subsequent sampling frequency[1]
Background[2] - B1	Receiving **waters** 500 metres upstream of discharge	Total Suspended Solids (**mg/L**) **Total Phosphorus** (**mg/L**) **Total Nitrogen** (**mg/L**) Dissolved Oxygen (%)	-	-	-	-	Monthly - when discharging to receiving **waters**
Impacted[3] I1	Receiving **waters** 500 metres downstream of discharge	**Total Phosphorus** (**mg/L**) **Total Nitrogen** (**mg/L**) Dissolved Oxygen (%)	-	-	-	Background + 10%	Monthly - when discharging to receiving **waters**

[1] Subsequent sampling frequency

Once every two months (for those months when a discharge is occurring), with a minimum of six (6) samples per year. At least two (2) samples must be taken during the later stages of the growing season, no closer than two (2) weeks apart. When drain harvesting, at least one sample must be taken during the later stages of drain harvest.

[2] Background

The impacted water quality sampling must be carried out when discharging to the receiving environment, on the ebb tide within 30 minutes (on the same **day**) as the discharge water quality sample, at Background point B1 defined as point 500 metres upstream of the discharge.

[3] Impacted

The impacted water quality sampling must be carried out when discharging to the receiving environment, on the ebb tide within 30 minutes (on the same **day**) as the discharge water quality sample, and the Background water quality sample, at impacted point I1 defined as point 500 metres downstream of the discharge.

For all monitoring parameters:

- Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection *Water Quality Sampling Manual.*
- Monitoring and analysis should take account of corrections for hardness as specified in the *ANZECC Water Quality Guidelines;*
- Monitoring location OR release points/areas must be in accordance with Appendix 2;
- Monitoring must be undertaken during a release; and
- All monitoring devices must be effectively calibrated and maintained.
- Samples must be representative of the release.

<table>
<tr><td>P2-WT4</td><td>The total quantity of treated effluent released from the facility during any day must be in compliance with the release quantities listed in Table P2-WT4 – Release quantity.

Table P2-WT4 - Release quantity
<table>
<tr><th colspan="4">Dry weather release limits</th></tr>
<tr><th>Predicted tidal range at Mourilyan Port (m-port datum)</th><th>Release volume per tide[1]</th><th>Discharge to commence at</th><th>Discharge to cease at</th></tr>
<tr><td>1m - 2m</td><td>1800m^3</td><td>1.15 hours after Mourilyan Harbour high tide</td><td>Mourilyan Harbour low tide</td></tr>
<tr><td>0.5m – 1m</td><td>900m^3</td><td>1.15 hours after Mourilyan Harbour high tide</td><td>Mourilyan Harbour low tide</td></tr>
<tr><td>0.25m – 0.5m</td><td>450m^3</td><td>1.15 hours after Mourilyan Harbour high tide</td><td>Mourilyan Harbour low tide</td></tr>
<tr><td><0.25m</td><td>0</td><td>No release</td><td>No release</td></tr>
<tr><th colspan="4">Wet weather release limits</th></tr>
<tr><th colspan="2">Rainfall</th><th>Release volume over a six hour period[1]</th><th>Discharge to commence at</th></tr>
<tr><td colspan="2">For every 20mm of rain</td><td>13000m^3</td><td>1.15 hours after Mourilyan Harbour high tide or 6 hours after the commencement of rain in the catchment</td></tr>
</table>
[1] Must be released uniformly over the allowable period</td></tr>
<tr><td>P2-WT5</td><td>The daily quantity of contaminants released must be determined by use of a method with an accuracy of + 5% of the actual amount released.</td></tr>
<tr><td>P2-WT6</td><td>The release of contaminants to waters must only occur on the outgoing tide at the times specified in Table P2-WT4 – Release quantity.</td></tr>
<tr><td>P2-WT7</td><td>Emergency by-pass of wet weather flow due to extreme weather conditions is permitted at the point indicated in Appendix 2, as the spillway channel and must be notified as soon as practicable.</td></tr>
<tr><td>P2-WT8</td><td>All ponds used for the aquaculture activity 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 0.3 metres is maintained at all times, except in emergencies; and
c) so as to ensure the stability of the ponds’ construction.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>P2-N1</td><td>Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place.</td></tr>
</table>

P2-N2

All noise from the **activity** must not exceed the levels specified in *Table P2-N2 – Noise limits* at any noise **sensitive place** or **commercial place.**

Table P2-N2 – Noise limits

Noise level dB(A) measured as	Monday to Saturday			Sunday and Public Holidays		
	7am – 6pm	6pm – 10pm	10pm – 7am	9am – 6pm	6pm – 10pm	10pm – 9am
	Noise measured at the Noise sensitive place					
LA10 adj, 10 mins	45	40	30	45	40	30
LA1, adj, 10mins	50	45	35	50	45	35
Noise level (dB(A) measured as	**Noise measured at a Commercial place**					
LA10 adj, 10 mins	50	45	35	50	45	35
LA1, adj, 10mins	55	50	40	55	50	40

Associated monitoring requirements

The method of measurement and reporting of noise levels must comply with the latest edition of the administering authorities *Noise Measurement Manual.*

P2-N3

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:

- **$L_{A\ 10,\ adj,\ 10\ mins}$**
- **$L_{A\ 1,\ adj,\ 10\ mins}$**
- $L_{A,\ max\ adj,\ T}$
- The level and frequency of occurrence of impulsive or tonal noise;
- Atmospheric conditions including wind speed and direction;
- Effects due to extraneous factors such as traffic noise; and
- Location, date and time of recording.

Agency interest: Land

Condition number	Condition
P2-L1	**Contaminants** must not be released to **land**.
P2-L2	Treatment and management of **acid sulfate soils** must comply with the latest edition of the Queensland *Acid Sulfate Soil Technical Manual***.**

Agency interest: Waste

Condition number	Condition
P2-WS1	Pond sludge removed from the cultivation or settlement ponds must be stored and/or disposed of in a manner which does not cause the release of **contaminants** to any **waters.**

P2-WS2	The holder of this **environmental authority** shall notify the **administering authority** of any disease outbreak requiring treatment and/or drainage of pond and/or tank contents.
P2-WS3	The holder of this **environmental authority** must seek the written approval of the **administering authority** prior to disposing of any diseased organisms, or water which has come into contact with diseased organisms.
P2-WS4	Where diseased organisms and/or affected **waters** requires disposal it must be monitored and the following **records** kept: a) the date, quantity and type of waste disposed of; and b) name of the waste transporter and/or disposal operator that removed the waste, and c) the intended treatment/disposal destination of the waste.
P2-WS5	All waste generated in the carrying out of the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Definitions

Key terms and/or phrases bolded in this **environmental authority** 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.

Acid Sulfate Soils means a soil, sand, mud or clay containing significant levels of pyrite (iron sulphide), which on exposure to oxidising conditions has resulted in or has the capacity to result in the generation of sulphuric acid in quantities greater than the inherent buffer capacity of the soil.

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

Annual Mass Load is calculated as follows:

Annual Mass Load TN (kg) = Yearly sum of Daily Release Volume (ML) x 365 x Yearly Long Term **Mean** TN Concentration (**mg/L**)

Annual Mass Load TP (kg) = Yearly sum of Daily Release Volume (ML) x 365 x Yearly Long Term **Mean** TP Concentration (**mg/L**)

Note: calculations should be undertaken on a rolling basis based on nutrient sampling.

OR can be calculated as the sum of the **Annual Mass Load** minus a **nutrient offset.**

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

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

Contaminant(s) as defined in Section 11 of the *Environmental Protection Act 1994.*

Day means any 24 hour period.

Environmental authority means an environmental authority granted in relation to an environmentally relevant activity under the *Environmental Protection Act 1994*.

Environmental harm as defined in Section 14 of the *Environmental Protection Act 1994.*

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

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

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

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

Land does not include **waters**.

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

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

mg/L means milligrams per litre.

NATA means National Association of Testing Authorities.

Nutrient offset means projects in accordance with the *Flexible options for managing point source water emissions: A voluntary market-based mechanism for nutrient management* or more recent additions or supplements to the document that become available, as agreed to with the **administering authority**.

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.

Release of a contaminant into the environment means to:

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

Reuse means using treated effluent for beneficial purposes such as agricultural and landscape irrigation, industrial processes, toilet flushing and other non-potable applications provided those uses comply with relevant legislative requirements.

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, 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*.

Total Nitrogen (TN) means the sum total of Organic Nitrogen, Ammonia, Nitrite plus Nitrate, as **mg/L** of Nitrogen.

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

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.

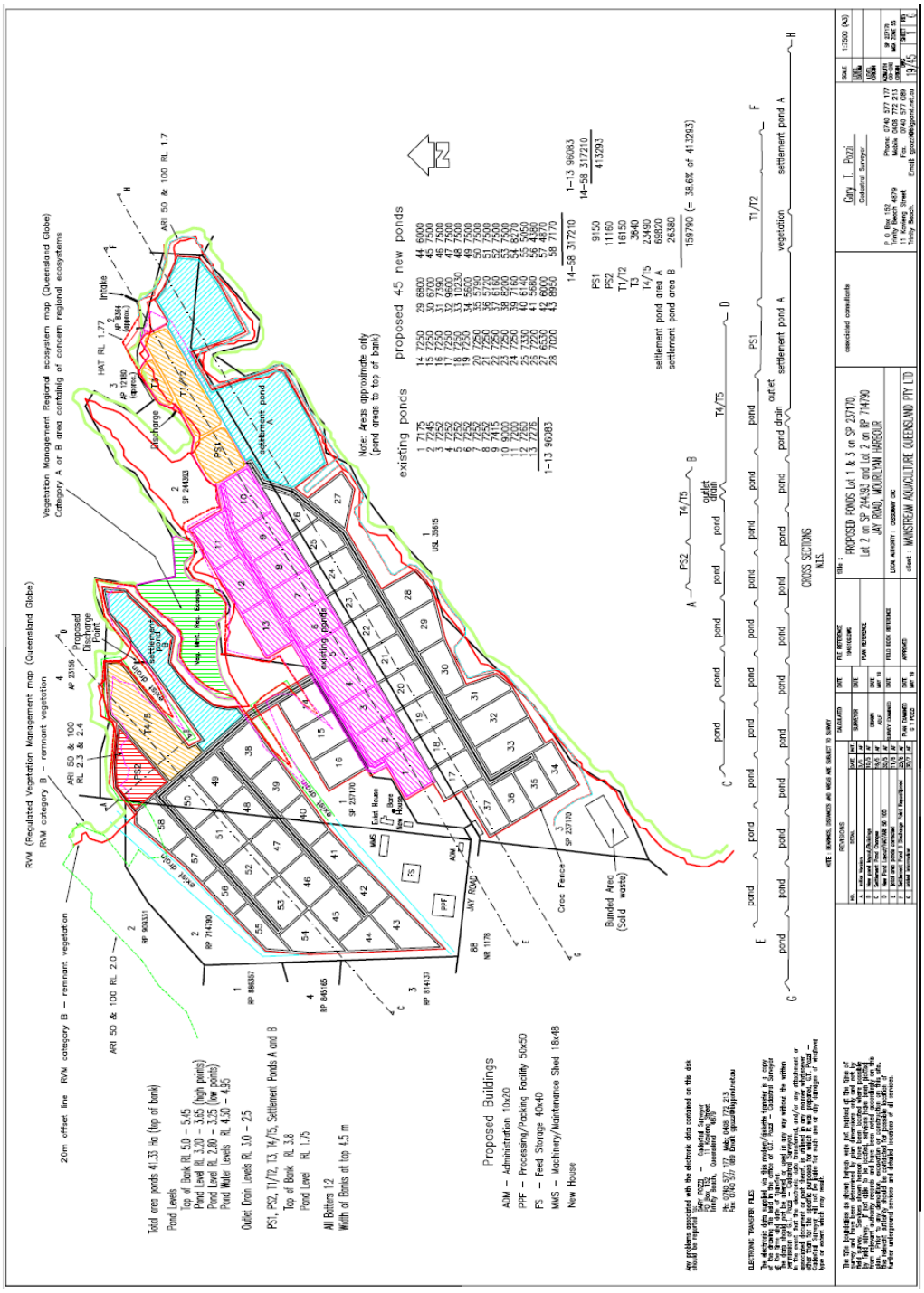
Year means anniversary date to anniversary date.

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

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(s).

90th percentile means not more than one (1) 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(s).

Appendix 1 - *Figure 1 – Site Map*



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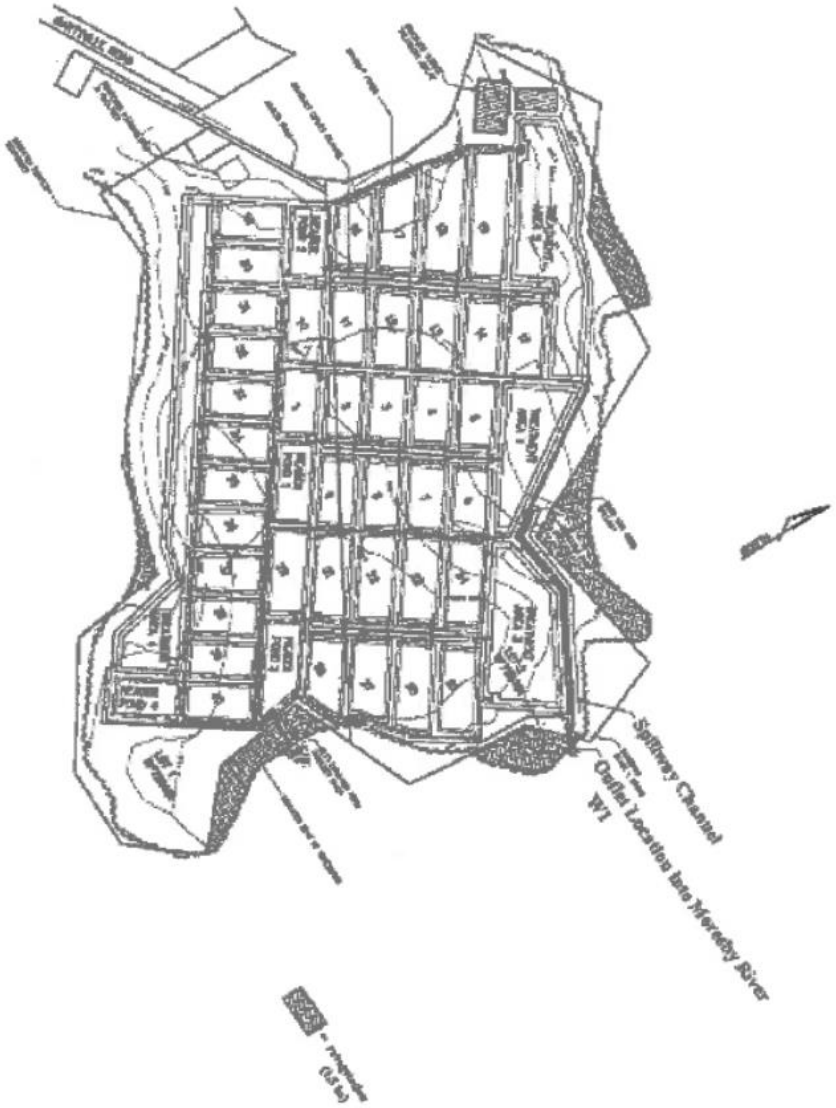
Queensland Government

Appendix 2

GROWOUT PONDS	
POND No.	AREA (Hectares)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
TOTAL	

TREATMENT AREAS	
AREA No.	AREA (Hectares)
1	
2	
3	
4	
TOTAL	

HEADER PONDS	
AREA No.	AREA (Hectares)
1	
2	
3	
4	
TOTAL	



END OF CONDITIONS FOR SCHEDULE I

END OF ENVIRONMENTAL AUTHORITY

Queensland Government