# Permit

***Environmental Protection Act 1994***

## Environmental authority EPPR00681213

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

### Environmental authority number: EPPR00681213

**Environmental authority takes effect on 13-12-2019**

### Environmental authority holder(s)

| Name(s) | Registered address |
|---|---|
| DS Farms Pty Ltd | 505 Rotary Park Road ALBERTON QLD 4207 |

### Environmentally relevant activity and location details

| Environmentally relevant activity/activities | Location(s) |
|---|---|
| ERA 01 - Aquaculture 1: Cultivating or holding crustaceans in enclosures that are on land and have a total area of (b) more than 10ha but not more than 100ha | Lot 2 on RP110440 |
| ERA 01 - Aquaculture 1: Cultivating or holding crustaceans in enclosures that are on land and have a total area of (b) more than 10ha but not more than 100ha | Lot 153 on SP104025 |
| ERA 01 - Aquaculture 1: Cultivating or holding 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 SP104025 |

**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.



Queensland Government

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.

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

**Date issued: 16 December 2019**

**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 and conditions of environmental authority

## 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

| **Agency interest: Schedule A - Activity** | |
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| **Condition number** | **Condition** |
| (A1) | In carrying out the environmentally relevant activities, you must take all reasonable and practicable measures to prevent and / or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have be prevented, shall be carried out in a proper manner in accordance with the conditions of this environmental authority.<br><br>**NOTE:** This environmental authority authorises the environmentally relevant activity. It does not authorise environmental harm unless a condition contained within this authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm. Without limiting the measures which may be applied, examples of reasonable and practicable measures include those mentioned in the **Environmental Code of Practice for Australian Prawn Farmers**. |
| **Maintenance of Measures, Plant and Equipment** | |
| (A2) | **The holder** must:<br>- install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and<br>- maintain such measures, plant and equipment in a proper and efficient condition; and<br>- operate such measures, plant and equipment in a proper and efficient manner. |
| **Display of Environmental Authority** | |
| (A3) | A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activities. |

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| **Records** | |
| (A4) | Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five (5) years and be available for examination by an authorised person. Excluding any environmental monitoring results, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period. |
| (A5) | Copies of any record or document required to be kept by a condition of this environmental authority must be provided to any authorised person or the **administering authority** on request. Where the **administering authority** requires this data to be provided in a specified format, for example, a designated spreadsheet and charts, then the data must be provided in that format. |
| **Calibration** | |
| (A6) | All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be appropriately calibrated, operated and maintained. |
| (A7) | No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment |
| **General** | |
| (A8) | The licensee must ensure that the operation and maintenance of the aquaculture facility is carried out by or under the supervision of person(s) competent to operate and maintain the aquaculture facility. |
| (A9) | Where any new aquaculture species other the propagation or rearing of marine, estuarine or freshwater prawns is to be undertaken **the holder** of this environmental authority must notify the **administering authority** not less than twenty-eight (28) days prior to stocking the new species.<br><br>**Note**: This licence condition does not apply to species propagated or reared as a means of biologically treating effluent from the prawn farm. |
| (A10) | Excepting any reconfiguration of wastewater treatment ponds or growout ponds to improve wastewater treatment that does not increase growout area permitted under this Environmental Authority, siting of the activities is to be in accordance with the site maps and plans included in Schedule K. In the event of any such reconfiguration, **the holder** must provide an updated site plan to the **administering authority**. |
| (A11) | With the exception of the chilling and packaging of any aquaculture species for live sale, the only aquaculture species permitted to be processed at the licensed place is prawns. |
| (A12) | The environmentally relevant activities must be carried in compliance with the "**Environmental Code of Practice for Australian Prawn Farmers**, September 2001" produced by the Australian Prawn Farmers Association or more recent editions or supplements to that document as such become available. |

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| **Grow Out Pond Area** | |
| (A13) | The **maximum** area of aquaculture **grow out pond**s permitted to be used under this environment authority is 20 hectares. This area does not include any waste water treatment ponds such as settlement ponds or ponds containing animal or plant species whose primary purpose is biologically treating the effluent to improve its quality. |
| **Agreements for Intake and Discharge** | |
| (A14) | Where **the holder** of this environmental authority requires permission for lawful use of intake and or discharge structures from the owner(s) of **land** other than that to which this authority relates, then, prior to carrying the environmentally activities, **the holder** must enter into and maintain a written agreement with such owner(s), to permit intake of water and discharge of waste water (as relevant), including all necessary maintenance. |
| (A15) | A copy of the written agreement must be forwarded to the **administering authority** within thirty days of it becoming available to **the holder** of this environmental authority. |
| **Integrated Environmental Management System (IEMS)** | |
| (A16) | **The holder** of this environmental authority must implement and maintain an Integrated Environmental Management System (IEMS) that provides for the effective management by **the holder** of the actual and potential environmental impacts resulting from the carrying out of the activities. |
| (A17) | The IEMS must provide for at least the following functions:<br><br>a) monitoring of the release of contaminants into the environment including procedures, methods, record keeping and notification of results;<br>b) staff training and awareness of environmental issues related to carrying out the activities, which must include at least:<br>- the environmental policy of **the holder**, such that all persons that carry out the activities are aware of all relevant commitments to environmental management; and<br>- any relevant environmental objectives and targets, such that all staff are aware of the relevant performance objectives and can work towards these; and<br>- control procedures to be implemented for routine operations for day to day activities to minimise likelihood of environmental harm, however occasioned or caused; and<br>- contingency plans and emergency procedures to be implemented for non-routine situations to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm (including any necessary site rehabilitation); and<br>- organisational structure and responsibility to ensure that roles, responsibilities and authorities are appropriately defined to manage environmental issues effectively; and<br>- effective communication to ensure two-way communication on environmental matters between operational staff and higher management;<br>- their obligations in respect of monitoring, notification and record keeping obligations under the IEMS and relevant environmental authorities and/or development approvals; and<br>c) conducting assessment of the environmental impact of any release of contaminants into the environment; |

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| | d) periodic conduct of energy audits and review of environmental performance and procedures adopted, not less frequently than after each season for reviewing environmental performance and once every five years for energy audits; and<br>e) waste prevention, treatment and disposal; and<br>f) a program for continuous improvement. |
| (A18) | Any up to date copy of the IEMS must be kept at the licensed place where the activities are carried out with a further copy provided to the **administering authority**, including provision of any amendments within 30 days of completion. |
| (A19) | **The holder** of this environmental authority must not implement or amend an IEMS (including any environmental management plan) that contravenes any condition of this environmental authority or any development condition imposed by the **administering authority** that is applicable to carrying out the activities. |
| **Agency interest: Schedule B - Air** | |
| **Condition number** | **Condition** |
| **Dust Control** | |
| (B1) | In the event of a complaint about an environmental nuisance caused by release of dust beyond the boundaries of the licensed place, **the holder** must install and operate dust minimisation systems to the extent that any environmental nuisance is prevented e.g. water sprays, vehicle adherence to restricted speed limits. |
| (B2) | Notwithstanding any other condition of this environmental authority no release of contaminants from the licensed place is to cause a **noxious** or **offensive** odour beyond the boundaries of the licensed place. |
| **Agency interest: Schedule C - Water** | |
| **Condition number** | **Condition** |
| **Release of Contaminants to Waters** | |
| (C1) | The only contaminants permitted to be released from the licensed place at the release point are:<br>- effluent from the aquaculture **grow out pond**s;<br>- effluent from the wastewater treatment system(s); and<br>- waste water from the processing of seafood grown at the licensed place. |
| **Intake Points** | |
| (C2) | Water may only be drawn into the aquaculture facility from the intake point(s) described below: |

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| | - Intake Point I1: Located in the intake/discharge channel that is used to intake and discharge water from Moreton Bay Marine Park via the Brahma Haven Channel as depicted in Schedule K - Site Lay-out Plan .<br>- Intake Point I2: Located in the Brahma Haven channel as depicted in, Schedule K - Site Lay-out Plan.<br>- Intake Point I3: Located in the Brahma Haven Channel as illustrated on the map as depicted in Schedule K - Site Lay-out Plan. |
| **Release Points** | |
| (C3) | The contaminants specified in condition C1 may only be released either directly or indirectly from the licensed place to any **waters**, at the release point(s) described below:<br><br>- Release Point R1: Discharge channel that discharges into the Brahma Haven Channel, adjacent to Moreton Bay Marine Park as in depicted in Schedule K - - Site Lay-out Plan. |
| (C4) | The release of contaminants to **waters** from the outfalls must be carried out in such a manner which does not erode or otherwise disturb marine plants, mangrove vegetation, the banks or bed of the waterway or the habitat in general. |

| **Water Quality Release Continual Improvement Plan** | |
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| (C5) | Notwithstanding the release limits for **total nitrogen**, **the holder** must implement all reasonable and practicable measures to reduce the mass load of **total Nitrogen** and **total Phosphorus** per day released into the receiving environment, as such measures become practicable to implement in prawn farming operations. Such measures may include but not be limited to increased recycling of effluent, additional or more effective effluent treatment, bioremediation ponds, improved food conversion ratios and use of lower protein feeds. |
| (C6) | Measures implemented under this continual improvement program must be described and submitted to the **administering authority** with each annual return. |
| (C7) | The Water Quality Release Continual Improvement Report must include the following information for each species cultivated, for the year addressed in the report:<br><br>(i) number of hectares stocked;<br>(ii) stocking rate used;<br>(iii) survival rate;<br>(iv) production (kg/ha);<br>(v) feed conversion ratio;<br>(vi) proportion of waste water recycled versus discharged;<br>(vii) comparison of preceding years stocking rate, survival rate, production, feed conversion ration, and waste water recycling rate and the number of hectares stocked with the current year;<br>(viii) the net loads and concentrations of **total Nitrogen** and **total Phosphorus** released as measured and calculated under this authority, compared with the relevant limits and targets specified in this authority and with the previous years results; |

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| | (ix) practices and procedures the steps undertaken during the preceding twelve (12) months to reduce the net load of **total Nitrogen** and **total Phosphorus** discharged into the receiving environment;<br>(x) practices and procedures that will be implemented to further reduce the net load of Total where necessary, i.e. in cases where net loads are greater than industry benchmarks achieved using best practice environmental management. |
| (C8) | The requirement for a Water Quality Release Continual Improvement Report does not apply in the case that the environmentally relevant activity is carried:<br><br>a) by recycling effluent during the whole of the prawn grow out season and the only contaminant releases to **waters** that occur (excluding any staged end of season pond drainage) are overflows of storm water runoff and waste **waters** from grow out and treatment ponds that are solely caused by rainfall causing overtopping of such ponds; or<br>b) such that concentration limits for **total nitrogen** and **total phosphorus** are complied with and the average net load of **total nitrogen** released to **waters** as calculated under this environmental authority is zero. |

**Quantity of Contaminants Released**

(C9) The total quantity of contaminants released from release point W1 during any day must not exceed any of the load limits for each contaminant specified in Schedule C Table 1.

**SCHEDULE C TABLE 1 - RELEASE QUANTITY LIMITS**

| CONTAMINANT | TIME PERIOD - PRAWN GROWING SEASON | RELEASE LOAD LIMIT kg | LIMIT TYPE |
|---|---|---|---|
| **Total Phosphorus** (kg/day) | 2002 - 2003 and seasons thereafter | 2.2 kg/day | Average of daily net loads released over the annual prawn growing season. |
| **Total Phosphorus** (kg/season) | 2002 - 2003 and seasons thereafter | 462 kg/annual season | Total of daily net loads released over the annual prawn growing season. |
| **Total Nitrogen** (kg/day) | 2001 - 2002 | 12.38 kg/day | Average of daily net loads released over the annual prawn growing season. |
| **Total Nitrogen** (kg/day) | 2002 - 2003 and seasons thereafter | 9.9 kg/day | Average of daily net loads released over the annual prawn growing season. |

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| | **Total Nitrogen** (kg/season) | 2002 - 2003 and seasons thereafter | 2100 kg/annual season | Total of daily net loads released over the annual prawn growing season. |

**Note to Schedule C Table 1.**

- Average of daily net loads as calculated under the load calculation conditions in schedule H.
- Total of daily net loads released over the annual prawn growing season means the sum of the daily loads, as calculated under the load calculation conditions in schedule H and definitions in schedule I, over the annual prawn growing season.

**Quality of Contaminants Released**

(C10) The release of contaminants to waters must comply, at the sampling and in flow monitoring point(s) specified in condition H7, with each of the limits specified in Schedule C, Table 2 for each quality characteristic.

**SCHEDULE C TABLE 2 - RELEASE QUALITY CHARACTERISTIC LIMITS**

| QUALITY CHARACTERISTICS | RELEASE POINT NUMBER | RELEASE LIMITS | LIMIT TYPE |
|---|---|---|---|
| pH. (pH Units) | W1 | 6.5 - 9 | **range** |
| Dissolved Oxygen. (**mg/L**) | W1 | 4.0 or 90% of background value, which ever is greater[1] | **Minimum** |
| Suspended Solids. (**mg/L**) | W1 | 30 | **Average over prawn growing season**. |
| Suspended Solids. (**mg/L**) | W1 | 50 | **maximum** |
| **Total Nitrogen** (**mg/L**) | W1 | 3 | **maximum** |
| **Total Phosphorus**. (**mg/L**) | W1 | 0.3 | **maximum** |
| Free Chlorine Residual (**mg/L**) | W1 | 0.01 | **Maximum** |

- For the purposes of this condition, samples must be taken at the discharge and intake points within one hour of each other on the same day.

(C11) Release of contaminants to **waters** must comply with the following qualitative characteristics:

a) The release must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter.
b) The release must not produce any plume or other visible evidence of the release of suspended solids or other contaminants which adversely affects the values of the receiving environment.

**Pond Conditions**

(C12) All ponds including the **grow out pond**s and settlement ponds must be installed and maintained to ensure the stability of the pond's construction including measures to minimise erosion of the pond walls, for example, maintenance of the banks in a vegetated state.

| Times of Release | |
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| (C13) | Where possible the release of contaminants to **waters** must only occur from local high water until two (2) hours before local low water. |

| Agency interest: Schedule D - Stormwater Management | |
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| **Condition number** | **Condition** |
| **Spillage Control** | |
| (D1) | Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any external storm water drainage system, roadside gutter or **waters**. |
| **Storage of Chemicals and Fuels** | |
| (D2) | Any liquids stored on site that may cause environmental harm, including all chemicals, and fuels must be stored in an effective on-site containment system (including base and walls) that is impervious to the materials stored and sized to contain at least:<br>- 110% of the tank's volume if a single tank storage;<br>- 100% of the largest storage tank plus 10% of the second largest tank if a multiple tank storage; or<br>- at least 25% of the **maximum** design storage volume if a drum storage. |
| (D3) | All containment systems must be roofed where practicable. |
| (D4) | Where it is impractical to completely roof a containment system area **the holder** of this environmental authority must ensure that any storm water captured within the bund is free from contaminants or wastes prior to any release. |
| (D5) | All un-washed empty drums must be stored on a concrete hardstand area with their closures in place. |
| (D6) | Washing, degreasing, servicing or other maintenance of vehicles, plant, or other equipment must not occur on the licensed place in any area where resulting contaminants will or may be released to any external storm water drain, **land** or **waters**. |
| **Contaminant Releases Caused by Rainfall** | |
| (D7) | Diversion drains, appropriate grades or equivalent must be installed to ensure surface **waters** from disturbed areas, including operational or trafficable areas and pond walls, are diverted to either the wastewater treatment system or **grow out pond**s. |
| (D8) | Drainage through and from all trafficable areas and production activities must be designed to minimise surface flow velocities. |
| **Pond Sludge Conditioning areas** | |

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| (D9) | Diversion drains, appropriate grades or equivalent must be installed to ensure that runoff from pond Sludge conditioning areas, areas containing pond sludge (including areas where pond sludge has been used as fill), and any leachate derived from these areas must be diverted to either **grow out pond**s or the wastewater treatment system. |
| **Acid Sulfate Soil Management** | |
| (D10) | At least twenty-eight days prior to the commencement of disturbing, extracting or unearthing or drain maintenance of any **soil**s below 5 metres **AHD** for the purposes of carrying out the environmentally relevant activities, an Acid Sulfate **Soil** Investigation must be completed and an Acid Sulfate **Soil** Investigation Report on this investigation provided to the **administering authority**. |
| (D11) | The Acid Sulfate **Soil** Investigation report must provide information relating to the extent of any acid sulfate **soil**s potentially affected or disturbed by the activities, any if any such **soil**s are detected, the proposed management procedures, which must provide for the effective and appropriate environmental management of the Acid Sulfate **Soil**s. |
| (D12) | Acid sulfate **soil** investigations and tests are to be carried out in the manner prescribed in the "**Instructions for the Treatment and Management of Acid Sulfate Soils 2001**". |
| (D13) | The management of the acid sulfate **soil**s must:<br><br>a) comply with "**Instructions for the Treatment and Management of Acid Sulfate Soils 2001**"; and<br>b) be such that contaminants are not directly or indirectly released, as a result of the activity, to any **waters** or the bed and banks of any **waters**. |
| (D14) | Records must be kept of the results of all testing of acid sulfate material for at least the following details:<br><br>(i) date **soil** sample collected;<br>(ii) location of **soil** sample;<br>(iii) laboratory where **soil** sample analysis undertaken; and<br>(iv) results of **soil** sample analysis. |
| (D15) | Receiving **waters** must not be used as a neutralisation agent for the treatment of acid sulfate **soil**s or low pH **waters**. |
| **Stockpiles** | |
| (D16) | Stockpiling of treated and untreated acid sulfate materials must be carried out in such a manner that:<br><br>(i) minimises the surface area of materials exposed to oxidation;<br>(ii) provides for a system of suitable diversion drains or embankments to divert surface **waters** away from the stockpiles;<br>(iii) the base of treatment and stockpile areas are limed before materials are stockpiled and is sufficiently impervious to minimise release of contaminants to groundwater;<br>(iv) ensures that any leachate and/or storm water runoff which has been in contact with acid sulfate materials or contaminants is collected and not released to any storm water drain or **waters** (including groundwater), for example effective and appropriate bunding; and |

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| | (v) stockpiles must not be located on top of marine plants and/or native vegetation. |
| (D17) | Any acid sulfate **soil**s likely to be exposed by lowering of the groundwater table must be isolated from storm water and any leachate from these **soil**s treated as necessary to adjust the pH to be within a **range** of 6.5 to 9. |

| **Agency interest: Schedule E - Waste** | |
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| **Condition number** | **Condition** |
| **Release of Contaminants to Land** | |
| (E1) | There must be no release nor likelihood of release of any contaminants to **land** in a manner that may cause environmental harm or contribute to contamination of such **land**. |

| **Agency interest: Schedule F - Noise** | |
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| **Condition number** | **Condition** |
| **Emission of Noise** | |
| (F1) | In the event of a complaint about noise that constitutes **intrusive noise** being made to the **administering authority**, that the **administering authority** considers is not frivolous or vexatious, then the emission of noise from the licensed place must not result in levels greater than those specified in Table 1 of the Noise Schedule. |

**SCHEDULE F TABLE 1**

| **NOISE LIMITS AT A NOISE SENSITIVE PLACE** | |
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| ***Period*** | ***Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level*** $L_{Amax\ adj,\ T}$ |
| 7 am - 6 pm | **Background noise level** plus 5 dB(A) |
| 6 pm - 10 pm | **Background noise level** plus 5 dB(A) |
| 10 pm - 7 am | **Background noise level** plus 3 dB(A) |
| **NOISE LIMITS AT A COMMERCIAL PLACE** | |
| ***Period*** | ***Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level*** $L_{Amax\ adj,\ T}$ |
| 7 am - 6 pm | **Background noise level** plus 10 dB(A) |

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| | <table><tr><td></td><td></td></tr><tr><td>6 pm - 10 pm</td><td>**Background noise level** plus 10 dB(A)</td></tr><tr><td>10 pm - 7 am</td><td>**Background noise level** plus 8 dB(A)</td></tr></table> |
| (F2) | The use of noise generating equipment such as scare guns or firearms must not cause unreasonable **intrusive noise** at any noise sensitive or **commercial place**. |

| **Agency interest: Schedule G – Waste Management** | |
|---|---|
| **Condition number** | **Condition** |
| **General** | |
| (G1) | **The holder** of this environmental authority must not:<br><br>(i) burn waste at or on the licensed place; nor<br>(ii) allow waste to burn or be burnt at or on the licensed place; nor<br>(iii) remove waste from the licensed place and burn such waste elsewhere. |
| (G2) | Waste must not be released to the environment, stored, transferred or disposed of contrary to any condition of this environmental authority. |

| **On Site Disposal** | |
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| (G3) | **The holder** of this environmental authority must keep and maintain permanent records for all waste disposed of on the premises, including aquaculture pond sludge. The records must include the following information:<br><br>(i) date of disposal of the material;<br>(ii) description of the material;<br>(iii) quantity of the material;<br>(iv) the location where the material is disposed; and<br>(v) the method used to dispose the material. |
| **Off Site Movement** | |
| (G4) | **The holder** of this environmental authority must keep and maintain permanent records for every load of regulated waste and aquaculture pond sludge transported off the premises. The records must include the following information:<br><br>(i) date of transport;<br>(ii) description of waste;<br>(iii) quantity of waste;<br>(iv) destination of any aquaculture pond sludge, including the owner of the property/**land** on which the sludge is disposed; and |

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| | (v) the purpose or proposed use of the sludge. |
| **Agency interest: Schedule H – Self Monitoring and Reporting** | |
| **Condition number** | **Condition** |
| **Complaint Recording** | |
| (H1) | All complaints received by **the holder** of this environmental authority relating to operations at the licensed place must be recorded in a log book with the following details:<br><br>(i) time, date and nature of complaint;<br>(ii) type of communication (telephone, letter, personal etc.);<br>(iii) name, contact address and contact telephone number of complainant (**Note**: if the complainant does not wish to be identified then "Not identified" is to be recorded);<br>(iv) response and investigation undertaken as a result of the complaint;<br>(v) name of person responsible for investigating complaint; and<br>(vi) action taken as a result of the complaint investigation and signature of responsible person. |
| **Monitoring of Waters** | |
| (H2) | All determinations of all quality of **waters** must be made in accordance with methods prescribed in the Environmental Protection Agency's Water Quality Sampling Manual, 3rd Edition, December 1999, or more recent editions or supplements to that document as such become available. |
| (H3) | All determinations of the quality of **waters** must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements. |
| (H4) | For the purposes of this licence any determination or result recorded as less than the limit of detection is taken as at the limit of detection for that particular determination method. |
| **Monitoring of Volume of Intake and Release to Waters** | |
| (H5) | **The holder** of this environmental authority is responsible for ensuring the determination and keeping of records of the total daily volume of water drawn into the prawn farm at the intake point(s) specified in condition C2. |
| (H6) | **The holder** of this environmental authority is responsible for ensuring the determination and keeping of records of the total daily volume of water released for the release point(s) specified in condition C3. |
| **Sampling of Release and Intake Water Monitoring Point Details** | |
| (H7) | Determinations of the quality of contaminants released to **waters** to check compliance with the release characteristics specified in Schedule C of this environmental authority must be undertaken at the sampling and in flow monitoring point(s) described as:<br><br>SR1 Samples are to be taken on the prawn farm side of the discharge structure that discharges into the Brahma Haven Channel, adjacent to Moreton Bay Marine Park as illustrated on the map contained in Schedule K. |

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| (H8) | Determinations of the quality of **waters** drawn into the prawn farm to establish baseline data of the receiving **waters** and to check compliance with conditions C9and C10ust be undertaken at the sampling and in flow monitoring point(s) described as:<br><br>SI1 - Samples are to be taken in the middle of the channel that is used to intake water from the Moreton Bay Marine Park via the Brahma Haven Channel at the point labelled Intake Point I1 as illustrated on the map contained in Schedule K. |
| **Monitoring of Intake and Release to Waters** | |
| (H9) | Monitoring the quality of contaminants released to **waters** must be undertaken at a time when it is estimated that **maximum** flow rate is occurring from the outlet and must include sampling during drainage of ponds contents at least twice. |
| (H10) | Samples taken to determine the quality of water drawn into the prawn farm must be taken at a time within two hours of local high water at a time when the intake pumps are operating. |
| (H11) | Samples of intake water quality and release quality must be taken at the discharge and intake points on the same day. |

(H12) **The holder** of this environmental authority is responsible for the making of determinations of the quality of the contaminants released at the release point described in C3, for the quality characteristics in Schedule C Table 2, at the sample point SR1 described in condition H7, and at the frequency specified in Schedule H Table 1.

**Schedule H - Table 1**

| QUALITY CHARACTERISTIC DETERMINATION | SAMPLING METHOD | SAMPLE AND INFLOW MONITORING POINTS | FREQUENCY |
|---|---|---|---|
| Suspended Solids. (**mg/L**) | **Grab Sample** | SR1 | In the first and third week of each month whilst discharging. |
| pH. | **In flow sample** | SR1 | Weekly whilst discharging. |
| Free Chlorine Residual (**mg/L**) | **Grab Sample** | SR1 | Applies only if chlorine is used a disinfectant. Daily, whilst discharging disinfected waste **waters**. |
| Dissolved Oxygen. (**mg/L**) | **In flow sample** | SR1 | Weekly whilst discharging. |
| **Total Nitrogen** as N, derived from the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen. (**mg/L**) | **Grab Sample** | SR1 | In the first and third week of each month whilst discharging. |

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| | **Total Phosphorus** as P. (**mg/L**) | **Grab Sample** | SR1 | In the first and third week of each month whilst discharging. |

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| (H13) | **The holder** of this environmental authority is responsible for the making of determinations of the quality of the **waters** drawn into the prawn farm at the intake sampling point SI1 described in condition H8 for the quality characteristics in Schedule H Table 2. In relation to **total nitrogen** and **total phosphorus**, this condition applies subject to condition H14. |

**SCHEDULE H TABLE 2 - INTAKE QUALITY CHARACTERISTICS**

| QUALITY CHARACTERISTICS | SAMPLING METHOD | INTAKE MONITORING POINT NUMBER | FREQUENCY |
|---|---|---|---|
| pH. (pH Units) | **In flow sample** | SI1 | Weekly whilst discharging |
| Dissolved Oxygen. (**mg/L**) | **In flow sample** | SI1 | Weekly whilst discharging |
| **Total Nitrogen** (**mg/L**) | **Grab sample** | SI1 | In the first and third week of each month whilst intaking |
| **Total Phosphorus**. (**mg/L**) | **Grab sample** | SI1 | In the first week and third of each month whilst intaking |

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| (H14) | The data to be used in calculating net loads of **total nitrogen** and **total phosphorus** is the corresponding median result from long term ambient water quality monitoring conducted at Environmental Protection Agency site "SMB-o" in southern Moreton Bay near the facility. **The holder** may, in accordance with the conditions of this authority, elect to determine and keep records of **total nitrogen** and **total phosphorus** in inlet **waters**. If **the holder** operates under this option, **the holder** must advise the **administering authority** of this election in writing and carry out monitoring of all quality characteristics in Schedule H Table 2. |
| **Calculation of the loads of total nitrogen, total phosphorus and total suspended solids released to waters** | |
| (H15) | The daily net load (in kilograms) of the contaminants **total nitrogen**, **total phosphorus** and the **daily load of suspended solids** released to **waters** per day shall be determined or calculated and records kept of such determinations or calculations. |
| (H16) | The net kilograms of contaminant released each day shall be calculated for each day according to the following formula:<br><br>Daily Net Load (kg) = (Dis. Conc. – Intake Conc.) X Dis. Vol<br>Where:<br><br>Dis. Conc. = discharge waste water contaminant concentration (in milligrams per litre) measured that day or on the most recent sampling occasion if not measured that day<br>Intake Conc. = corresponding long term median ambient intake water concentration tabulated hereunder. If **the holder** elects to monitor inlet water quality in accordance with the option in |

<table>
<tr><td></td><td>condition H14, “intake conc.” is the contaminant concentration (in milligrams per litre) measured that day or on the most recent sampling occasion if not measured that day.<br>Dis. Vol. = the volume (in megalitres) of waste water discharged that day.
<table>
<tr><td>Quality Characteristic</td><td>Intake Water Concentration* (mg/L)</td></tr>
<tr><td>Total Nitrogen</td><td>0.2 mg/L</td></tr>
<tr><td>Total Phosphorus</td><td>0.04 mg/L</td></tr>
</table>
* As calculated from long-term median results obtained from EPA ambient water quality monitoring conducted at Environmental Protection Agency site “SMB-o” in southern Moreton Bay near the facility</td></tr>
<tr><td>(H17)</td><td>From the calculations of daily loads, calculations must be made and records kept of the following:<br><br>for total nitrogen and total phosphorus:<br><br>a) average of daily net loads released over the annual prawn growing season;<br>b) total of daily net loads released per month;<br>c) total of daily net loads released over the annual prawn growing season.<br><br>for suspended solids:<br><br>a) total of the daily net loads released per month.</td></tr>
<tr><td>(H18)</td><td>Records must be kept of all data used to calculate mass loads, including volumes of waste water released, dates releases occur, discharge water quality and intake water quality.</td></tr>
<tr><td colspan="2">Receiving Environment Monitoring Program</td></tr>
<tr><td>(H19)</td><td>The holder must implement a Receiving Environment Monitoring Program to monitor the effects of the release of contaminants on the “receiving environment” to effectively determine whether environmental values are being protected.<br>“Receiving environment” for the purpose of the Receiving Environment Monitoring Program includes:<br><br>(i) Lower Logan River and<br>(ii) Southern Moreton Bay.<br><br>For the purposes of this condition, environmental values are considered to be harmed and not protected if the water quality guidelines for the indicators for environmental values prescribed in the Environmental Protection (Water) Policy 1997 are not being met, including any water quality objectives adopted pursuant to section 12 of that Policy.</td></tr>
<tr><td colspan="2">Involvement in Regional Monitoring Studies Constitutes Compliance</td></tr>
<tr><td>(H20)</td><td>Subject to the alternatives provided in condition H24, to achieve compliance with the requirement for a Receiving Environment Monitoring Program, the holder must become and remain a “participating member” in the following regional water quality and ecosystem health monitoring studies, or any equivalent studies that succeed them (“the regional studies”):</td></tr>
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| | (i) the Southeast Queensland Regional Water Quality Management Strategy; and<br>(ii) the Ecosystem Health Monitoring Program. |
| (H21) | **The holder** is deemed by the **administering authority** to be a "participating member" in regional studies in the following situations:<br><br>a) **the holder** is a 'contributing member', to the regional studies of water quality and ecosystem health; and<br>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<br>c) **the holder** continues to be a 'contributing member', of such regional studies.<br><br>"Contributing member" means that **the holder** contributes towards the reasonable cost of environmental monitoring studies undertaken relevant to potential impacts of the environmentally relevant activities whereby the amount is agreed to between **the holder** and the authority carrying out the regional studies and the formula used in determining reasonable cost takes into account the number of **grow out pond**s stocked and whether or not the farms fully recycle effluent throughout the grow out season. |

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| (H22) | **The holder** is deemed by the **administering authority** to be a 'contributing member' until such time as:<br><br>(i) the authority carrying out the regional studies notifies the **administering authority** in writing that **the holder** is no longer a 'contributing member'; and<br>(ii) the **administering authority** has undertaken reasonable steps to confirm this with **the holder** and the authority carrying out the regional studies; or<br>(iii) **the holder** notifies the **administering authority** in writing that they are no longer a 'contributing member'. |
| (H23) | If **the holder** no longer meets the criteria as a 'contributing member' to the regional studies, **the holder** is no longer deemed to be in compliance with the requirements for carrying out a REMP and **the holder** must undertake the following:<br><br>(i) Within thirty (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 condition H24 of this environmental authority; and<br>(ii) 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<br>(iii) from that date, otherwise comply in all respects with conditions for carrying out the alternative REMP. |
| **Alternatives to Involvement in Regional Studies – Equivalent Study and Alternative Study** | |
| (H24) | As an alternative to participating in the regional studies, **the holder** may:<br><br>(i) 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 studies; or<br>(ii) with the written agreement of the **administering authority**, carry out an alternative receiving environment monitoring program that meets the requirements of conditions H25 to H29. |

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| (H25) | At least 90 days prior to commencing the environmentally relevant activities or within thirty (30) days of ceasing to be a 'contributing member' as the case may be, **the holder** must submit to the **administering authority** a proposal to undertake an Receiving Environment Monitoring Program (REMP) that is designed to determine the effects of contaminants released into the receiving environment from the discharge of aquaculture effluent. |
| (H26) | The proposal for the REMP must include but not be limited to the following:<br><br>(i) description of potentially affected environment including key communities and ambient water quality;<br>(ii) description of water quality objectives and biological objectives to be achieved;<br>(iii) description of selected physio-chemical (including pH, **total nitrogen**, **total phosphorus**, dissolved oxygen saturation, water clarity analyses) and biological indicators (including chlorophyll 'a' and macro algal monitoring) and reasons for their inclusion;<br>(iv) the locations of monitoring stations including monitoring transects away from the outfall of the licensed release as well as any control locations;<br>(v) the proposed sampling depths;<br>(vi) the water quality characteristics of receiving **waters** to be determined;<br>(vii) the frequency of sampling and analysis;<br>(viii) quality assurance to be applied to sampling and analysis;<br>(ix) any historical data sets to be relied upon; and<br>(x) description of the statistical basis on which conclusions are drawn. |
| (H27) | The REMP assessment techniques must be carried out such that the experimental design allows for appropriate replication that will achieve:<br><br>a) an eighty percent (80%) chance of detecting an impact if one exists; and<br>b) detection of at least a twenty five percent (25%) change from ambient conditions. |
| (H28) | The proposal for the REMP must also consider, but not be limited to, the following:<br><br>(i) Water quality criteria specified in the Australian & New Zealand Environment & Conservation Council's "Australian Water Quality Guidelines for Fresh and Marine **Waters**", December 2000;<br>(ii) the *Environmental Protection (Water) Policy 1997* and any other Environmental Protection Policies enacted under Queensland's *Environmental Protection **Act** 1994* concerning the receiving environment;<br>(iii) relevant reports produced as a consequence of the Environmental Protection Agency's Environmental Monitoring Programs, for example, findings of the Logan Nerang Water Quality Study, Southeast Queensland Regional Water Quality Management Strategy and the Ecosystem Health Monitoring Program;<br>(iv) 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;<br>(v) relevant reports prepared by other governmental or professional research organisations that relate to the receiving environment within which the REMP is proposed; and<br>(vi) spatial and temporal controls to exclude potential confounding factors. |
| (H29) | **The holder** must have due regard to comments made by the **administering authority** in finalising the requirements of the Receiving Environment Monitoring Program and must |

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| | implement the program from commencement of the environmentally relevant activities or within the time frame mentioned in condition H18, as the case may be. |
| **Record Keeping and Reporting – If Carrying Out an Equivalent and Alternative Receiving Environment Monitoring Program** | |
| (H30) | Where **the holder** is carrying out an equivalent study or an alternative study, 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. |
| (H31) | At twelve (12) monthly intervals from the date of commencement of the REMP, **the holder** carrying out an equivalent study or an alternative study must report to the **administering authority** the data and findings of the receiving environment monitoring program carried out. |
| (H32) | The report on the receiving environment monitoring program (REMP) must address at least the following:<br><br>(i) a detailed description of the methodology used in the REMP; and<br>(ii) a detailed description and analysis of the results of the REMP; and<br>(iii) an assessment of the level of change in ambient conditions, if any, of the receiving environment; and<br>(iv) 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<br>(v) 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. |
| (H33) | **The holder** of this environmental authority must keep a record of the use of all chemicals added to the prawn **grow out pond**s or wastewater treatment system, including those added for the control of algae, parasites and **disease**s and those added to prawn feed including veterinary, antibiotic and prophylactic chemicals must be recorded in a table with the following details on each of the chemicals, type of chemical, date at which the chemical was added, the amount of chemical(s) added, type of receival **waters** (e.g. **grow out pond** or wastewater treatment pond) and the date of the next water release after the chemicals have been added. |
| **Noise Monitoring** | |
| (H34) | For the purposes of checking compliance with condition F1 and for investigation of any complaint of unreasonable **intrusive noise**, monitoring and recording of the noise levels from the activities must be undertaken for the following descriptors, characteristics and conditions:<br><br>(i) $L_{Amax,\ Adj\ T}$;<br>(ii) $L_{Abg,\ T}$ or $L_{A90,\ T}$;<br>(iii) $L_{AN,\ T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99);<br>(iv) $MaxL_{pA\ T}$;<br>(v) $L_{Aeq,\ T}$;<br>(vi) the level and frequency of occurrence of impulsive or tonal noise;<br>(vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and<br>(viii) effects due to extraneous factors such as traffic noise. |
| (H35) | In the event of a complaint about noise that constitutes unreasonable **intrusive noise** being made to the **administering authority** that the **administering authority** considers is not |

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| | frivolous or vexatious, **the holder** of this environmental authority must undertake monitoring to investigate such a complaint upon written request from the **administering authority**. |
| (H36) | The method of measurement and reporting of noise levels must comply with the Department of Environment and Heritage Noise Measurement Manual, Third Edition, 1 March 2000, or more recent editions or supplements to that document as become available. |
| (H37) | The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements. |
| **Report Submission** | |
| (H38) | **The holder** of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority are submitted with the initial Annual Return. Each subsequent Annual Return must include details of the results of monitoring performed during the 12 months preceding that Annual Return. |
| **Notification of Emergencies and Incidents** | |
| (H39) | As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, **the holder** of this environmental authority must notify the **administering authority** of the release by telephone or facsimile. |
| (H40) | The notification of emergencies or incidents as required by condition H39 must include but not be limited to the following:<br><br>(i) **the holder** of the environmental authority;<br>(ii) the location of the emergency or incident;<br>(iii) the number of the environmental authority;<br>(iv) the name and telephone number of the designated contact person;<br>(v) the time of the release;<br>(vi) the time **the holder** of the environmental authority became aware of the release;<br>(vii) the suspected cause of the release;<br>(viii) the environmental harm caused, threatened, or suspected to be caused by the release; and<br>(ix) actions taken to prevent further any release and mitigate any environmental harm caused by the release.<br><br>**NOTE**: Any relevant notification given under Section 320 or Section 350 of the **Act** that contains the information specified in condition H40 is also notification under Condition H39. |
| (H41) | Not more than fourteen (14) days following the initial notification of an emergency or incident, **the holder** of the environmental authority must provide written advice of the information supplied in accordance with condition H40 in addition to:<br><br>(i) proposed actions to prevent a recurrence of the emergency or incident; and<br>(ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance. |
| **Exception Reporting** | |
| (H42) | **The holder** of this environmental authority must notify the **administering authority** within twenty-eight (28) days of completion of analysis of any result of a monitoring program required |

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| | by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority. |
| (H43) | The written notification required by condition H42 above must include:<br><br>(i) the full analysis results;<br>(ii) details of investigation or corrective actions taken; and<br>(iii) any subsequent analysis.<br><br>**NOTE**: Any relevant notification given under Section 320 or Section 350 of the **Act** that contains the information specified in condition H43 is also notification under Condition H42. |
| (H44) | **The holder** of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the Annual Return. |

## 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.

| **Agency interest: Schedule I – Definitions** | |
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| For the purposes of this environmental authority the following definitions apply: | |
| (I1) | "**act**" means the Environmental Protection **Act** 1994. |
| (I2) | "**administering authority**" means the Environmental Protection Agency or its successor. |
| (I3) | "**AHD**" means Australian Height Datum, which has been adopted by the National Mapping Council as the datum to which all vertical control for mapping is to be referenced. |
| (I4) | "**aquaculture sludge**" means the solids or sludges which accumulate or deposit on the bottom of a pond as a result of propagation of prawns. |
| (I5) | "**land**" means **land** excluding **waters** and the atmosphere. |
| (I6) | "**composite sample**" means a sample consisting of equal volumes of individual samples collected under the conditions specified in the licence which are sent to the laboratory for analysis as one sample. |
| (I7) | "**disease**" means a **disease** or notifiable event that is listed on a Declared **Disease** List prepared by the Department of Primary Industries under the Fisheries Act 1994. |
| (I8) | "**in flow sample**" means an instantaneous readout from an electronic probe immersed in the flow of liquid, at a location that is representative of the characteristics of the flow. |
| (I9) | "**grab sample**" means a single instantaneous sample which is collected in a manner that ensures that it is a representative sample. |
| (I10) | **mg/L**" means milligrams per litre. |

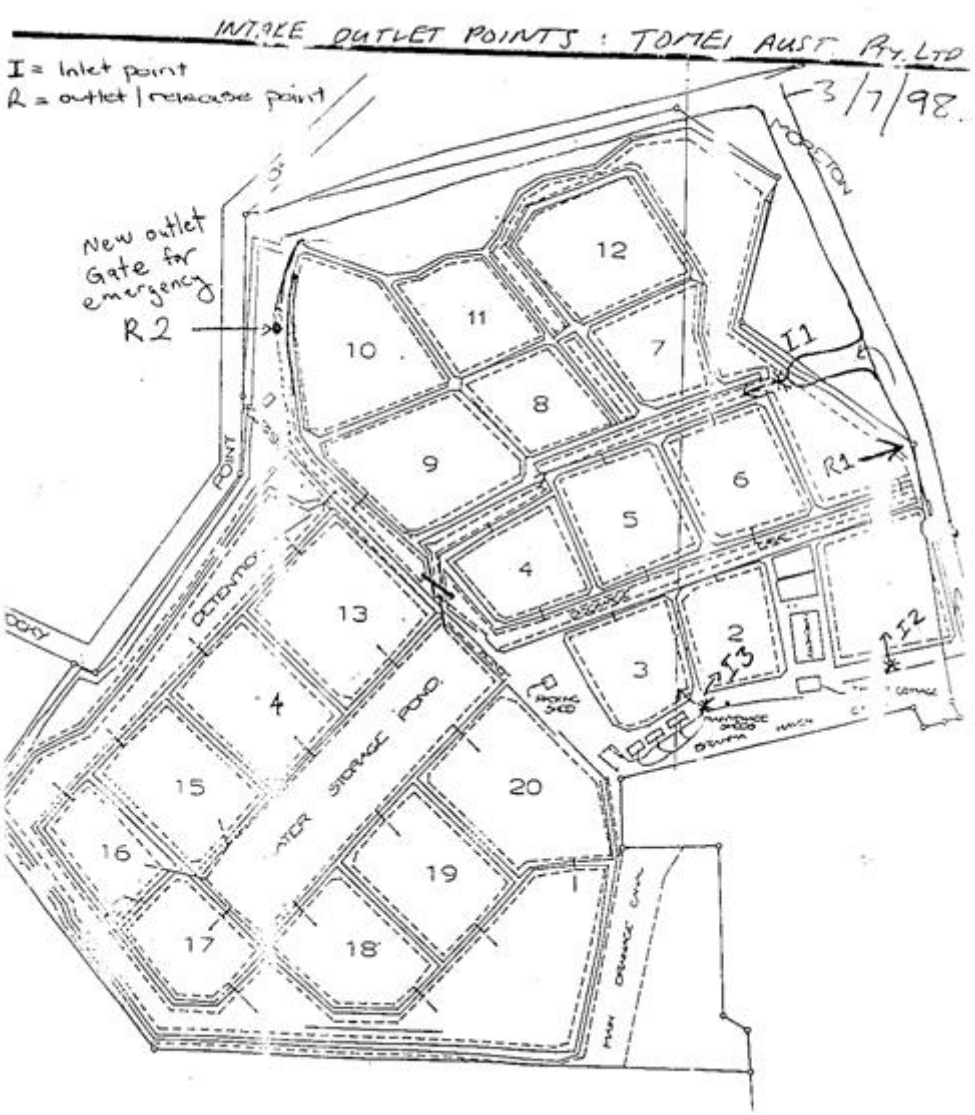
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| (I11) | "**maximum**" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated. |
| (I12) | "**minimum**" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated. |
| (I13) | "**range**" means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated. |
| (I14) | "**The holder**" means **the holder** of this environmental authority. |
| (I15) | "**total Nitrogen**" means the sum of Organic Nitrogen, Ammonia, Nitrite plus Nitrate, as **mg/L** of Nitrogen. |
| (I16) | "**total Phosphorus**" means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as **mg/L** of Phosphorus. This includes both the inorganic and organic fraction of phosphorus. |
| (I17) | "**Average of daily net loads released over the prawn growing season**" means the arithmetic average of the daily net loads of **total nitrogen** released per day, where the daily net loads are calculated in accordance with the load calculation conditions of schedule H and the averaging period commences on the first day on which **grow out pond** waste water is released and continues until the last day of the growing season on which waste water is released, for example, drainage of the last **grow out pond** holding water. |
| (I18) | "**Total of daily net loads released over the prawn growing season**" means the sum of the daily net loads of **total nitrogen** released per day, where the daily net loads are calculated in accordance with the load calculation conditions of schedule H commencing from the first day on which **grow out pond** waste water is released and continuing until the last day on which waste water is released, for example, drainage of the last **grow out pond** holding water. In addition, the growing season for the purpose of this calculation commences no earlier than 1 November each year and continues until no later than 14 June the following calendar year. |
| (I19) | "**Daily load of suspended solids**" means the discharge waste water suspended solids concentration (in milligrams per litre) measured that day, or on the most recent sampling occasion if not measured that day, multiplied by the volume (in megalitres) of waste water discharged that day. |
| (I20) | "**Average over prawn growing season**" means the arithmetic average of water quality results obtained for monitoring of the quality characteristic, where the monitoring is undertaken at approximately equal time intervals, for example fortnightly, and the averaging period commences on the first day on which **grow out pond** waste water is released and continues until the last day of the growing season on which waste water is released, for example, drainage of the last **grow out pond** holding water. |
| (I21) | "**Environmental Code of Practice for Australian Prawn Farmers**" means the "**Environmental Code of Practice for Australian Prawn Farmers**, September 2001" produced by the Australian Prawn Farmers Association or more recent editions or supplements to that document as such become available. |

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| (I22) | "**grow out pond**" means a pond, tank, enclosure or other container for the feeding and growing of aquaculture species. |
| (I23) | "**waters**" includes the bed and/or banks of any water(s), storm water runoff and any part of a river, stream, lake, lagoon, pond, dam, swamp, wetland, unconfined surface water, underground water, unconfined water, natural or artificial **watercourse**, non tidal or tidal **waters** (including the sea), storm water channel, storm water drain, roadside gutter. |
| (I24) | "**watercourse**" includes **land** on which rainwater or storm water runoff concentrates and **land** on or over which rainwater or storm water runoff usually or occasionally flows in concentration in a defined channel, whether:<br><br>a) a natural channel;<br>b) a natural channel artificially improved; or<br>c) an artificial channel that has changed the course of a natural channel:<br>The term does not include a closed conduit conveying storm water. |
| **Acid Sulphate Soils definitions** | |
| (I25) | "**acid sulphate soil**" 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**. |
| (I26) | "**soil**" means sand, silt, mud, clay, or gravel material and for the purposes of this licence does not include aquaculture pond sludge. |
| (I27) | "**Instructions for the Treatment and Management of Acid Sulfate Soils 2001**" means the document "**Instructions for the Treatment and Management of Acid Sulfate Soils 2001**", produced by the Queensland Environmental Protection Agency in consultation with the Department of Natural Resources and Mines and the Department of Primary Industries, or more recent additions or supplements to that document as such become available |
| **Noise Definitions** | |
| (I28) | "$\mathbf{L_{Amax\ adj,\ T}}$ " means the average **maximum** A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using fast response. |
| (I29) | "**background noise level**" means either:<br><br>$L_{A90,\ T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or<br><br>$L_{Abg,\ T}$ being the arithmetic average of the **minimum** readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response. |
| (I230) | "$\mathbf{MaxL_{pA\ T}}$" means the absolute **maximum** instantaneous A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response. |

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| (I31) | "**noise sensitive place**" means:<br><br>a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or<br>b) a motel, hotel or hostel; or<br>c) a kindergarten, school, university or other educational institution; or<br>d) a medical centre or hospital; or<br>e) a **protected area**; or<br>f) a park or gardens. |
| (I32) | "**intrusive noise**" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:<br><br>a) Is clearly audible to, or can be felt by, an individual; and<br>b) annoys the individual.<br><br>In determining whether a noise annoys an individual, regard must be had to *Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to Specific Situations.* |
| (I33) | **"commercial place**" means a place used as an office or for business or commercial purposes. |
| (I34) | "**protected area**" means -<br>a) a **protected area** under the Nature Conservation Act 1992; or<br>b) a marine park under the Marine Parks Act 1982; or<br>c) a World Heritage Area. |
| **Odour definitions** | |
| (I35) | "**noxious**" means harmful or injurious to health or physical well-being. |
| (I36) | "**offensive**" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive. |
| **Agency interest: Schedule J – Disease Management** | |
| **Pond Conditions** | |
| (J1) | **The holder** of this environmental authority must notify the **administering authority** of any declared **disease** or unexplained mortality outbreak requiring treatment and possible drainage of pond contents. |
| (J2) | Disposal of any **disease**d organisms as specified in condition J1 or water which has come into contact with **disease**d organisms must only be undertaken with the prior agreement of the **administering authority**. |
| (J3) | Where **disease**d organisms as specified in condition J1 and affected pond water requires disposal, **the holder** of this environmental authority must monitor and keep records of the following:<br><br>(i) description of the type of **disease**d organisms and/or affected water; |

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| | (ii) quantity of the **disease**d organisms and/or affected water;<br>(iii) intended treatment of the **disease**d organisms and/or affected water;<br>(iv) if the **disease**d organisms are buried on site, the date of burial;<br>(v) if the **disease**d organisms are transported off the premises, the name of any waste transporter and/or disposal operator that removed the **disease**d organisms and the disposal destination of the **disease**d organisms. |
| **Agency interest: Schedule K – Site Layout Plan** | |
| (K1) | The attached map titled "Inlet/Outlet Points: Tomei Australia Pty Ltd , 3 July 1998 submitted to the **administering authority** on 3 July 1998" identifies the location of the inlet and outlet points as described in condition C2 and C3. |

## Appendices




**END OF ENVIRONMENTAL AUTHORITY**