19-May-2014

Queensland Government

Department of
Environment and Heritage Protection

To: JBS Australia Pty Limited
PO Box 139
BOOVAL QLD 4304

Email: Troy.White@jbssa.com.au

Your reference: ENRE00461506, ENDC00453805 & SPDE00195310
Our reference: 241758

Application details

I refer to the application that was received by the administering authority on 27-MAY-2013.

Land description:

- 175 Riverview Road DINMORE QLD 4303.
  Lot 18 Plan RP22351, Lot 3 Plan RP22234,
  Lot 1 Plan RP47325, Lot 104 Plan RP864020,
  Lot 4 Plan RP855341, Lot 4 Plan RP22234,
  Lot 17 Plan RP22351, Lot 101 Plan RP864020,
  Lot 5 Plan RP22234, Lot 1 Plan RP855341
  Lot 12 Plan RP855343, Lot 3 Plan RP101864: and
- 1 Lock Way RIVERVIEW QLD 4303 - Lot 2 on SP121057

Decision

Your application has been approved and your environmental authority (reference EPPR00807613) is attached.

Additional comments or advice

You are advised that if you are not the owner of the land to which the environmental authority relates, you have 10 business days from receipt of this environmental authority to give each owner of the land, written notice that you have been issued this environmental authority.

Should you have any further enquiries, please contact Sinead Summerville on telephone (07) 3894 8157.

Sinead Summerville
ES-RSD-SER-Ipswich
PO Box 875
Level 4/117 Brisbane Street
IPSWICH QLD 4305
Phone: (07) 3894 8157
Email: sinead.summerville@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

Yours sincerely

	19/5/2014
Signature	Date

Scott Blanchard
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR00807613)

Permit[1]

Environmental Protection Act 1994

Environmental authority

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

Permit[1] number: EPPR00807613

Environmental authority takes effect: 19 May 2014

The anniversary date of this environmental authority remains the 3 June.

Environmental authority holder(s)

Name	Registered address
JBS Australia Pty Limited	1 Lock Way RIVERVIEW QLD 4303

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
• 15-Fuel burning >500kg hr • 25-(2c) Meat processing >50000t yr inc rendering • 63-(1b)(ii) Sewage treatment >100 to 1500EP - no IT or IR • 39 Tanning - operating a tannery or facility for tanning, curing or finishing 100t or more of leather products in a year	• 175 Riverview Road DINMORE QLD 4303 - Lot 18 Plan RP22351, Lot 1 Plan RP47325, Lot 4 Plan RP855341, Lot 17 Plan RP22351, Lot 5 Plan RP22234, Lot 12 Plan RP855343, Lot 3 Plan RP22234, Lot 104 Plan RP864020, Lot 4 Plan RP22234, Lot 101 Plan RP864020, Lot 1 Plan RP855341 and Lot 3 Plan RP101864 • 1 Lock Way RIVERVIEW QLD 4303 Lot 2 on SP121057

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

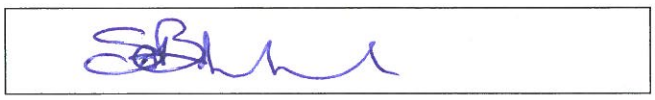
[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority 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 if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

19/5/2014

Date

Scott Blanchard
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Sinead Summerville
ES-RSD-SER-Ipswich
PO Box 875
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IPSWICH QLD 4305
Phone: (07) 3894 8157
Email: sinead.summerville@ehp.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

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

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

Conditions of environmental authority

Location: 175 Riverview Road DINMORE QLD 4303
Lot 18 Plan RP22351, Lot 1 Plan RP47325,
Lot 4 Plan RP855341, Lot 17 Plan RP22351,
Lot 5 Plan RP22234, Lot 12 Plan RP855343,
Lot 3 Plan RP22234, Lot 104 Plan RP864020,
Lot 4 Plan RP22234, Lot 101 Plan RP864020,
Lot 1 Plan RP855341 and Lot 3 Plan RP101864

Relevant activities:

- 15-Fuel burning >500kg hr
- 25-(2c) Meat processing >50000t yr inc rendering
- 63-(1b)(ii) Sewage treatment >100 to 1500EP - no IT or IR

Previous Permit Numbers - ENRE00461506 and ENDC00453805

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

Schedule A – General Conditions
Schedule B - Air
Schedule C – Water
Schedule D – Stormwater Management
Schedule E – Land Application
Schedule F - Noise
Schedule G – Waste Management
Schedule H – Self-Monitoring and Reporting
Schedule I – Definitions

Agency interest: Schedule A – General Conditions	
Condition number	**Condition**
	Maintenance of Plant and Equipment
(A1)	The holder of this environmental authority must: (i) install all measures, plant and equipment required to be installed by the conditions of this environmental authority; and (ii) maintain such measures, plant and equipment in a proper and efficient condition; and (iii) operate such measures, plant and equipment in a proper and efficient manner. In this condition, "plant and equipment" includes: (i) plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused, for example condensers, afterburners, wastewater treatment systems, dissolved air flotation systems, savealls, filter presses, screens and aerators, noise abatement measures, including attenuators, acoustic treatments of surfaces, noise dampening measures; (ii) devices and structures to contain foreseeable escapes of contaminants and waste, for example bunds; (iii) pipework, ducting and associated structures used for transfer of effluent, gases and vapours; (iv) devices and structures used to store, handle, treat and dispose of waste; (v) monitoring equipment and associated alarms, for example high-level alarms on tanks, storage temperature sensors on condensers and obscuration meters; (vi) backup systems that act in the event of failure of a primary system; and (vii) fuel burning equipment, for example boilers, ovens, cookers, and afterburners.
	Prevent/Minimise Likelihood of Environmental Harm
(A2)	In carrying out the environmentally relevant activities, the holder of this environmental authority must take all reasonable and practicable measures to prevent and/or minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, may cause environmental harm, in a manner that could be prevented, shall be carried out in a proper manner by a competent person in accordance with the conditions of this authority.
	Records
(A3)	Any record or document required to be kept by a condition of this environmental authority must be kept at the place to which this environmental authority relates and be available for examination by an authorised person. For daily and weekly records, 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.
(A4)	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.

	Alterations
(A5)	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*
	Calibration
(A6)	All instruments and measurement devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
	Trained/Experienced Operator(s)
(A7)	The holder of this environmental authority must ensure that the day-to-day operation of the wastewater treatment system and pollution control equipment is carried out by a person who possesses appropriate experience and/or qualifications to ensure the effective operation of the wastewater treatment system and pollution control equipment.
	Integrated Environmental Management System (IEMS)
(A8)	The holder of this environmental authority must implement and maintain an Integrated Environmental Management System (IEMS), which provides for the management by the holder of this environmental authority of the environmental impacts of the carrying out of the environmentally relevant activities.
(A9)	The Integrated Environmental Management System must provide for at least the following functions: (i) the monitoring of releases of contaminants into the environment, for example measurement of the quantities and concentrations of releases of contaminants to the environment as required under this environmental authority. (ii) the assessment of the environmental impacts of any releases of contaminants into the environment. (iii) the training of all relevant staff in the awareness of environmental issues, including: (a) The environmental policy of the holder of this environmental authority so that staff are aware of any relevant commitments to environmental management; and (b) Any relevant environmental objectives and targets so that all staff are aware of the relevant performance objectives and can work towards these; and (c) Control procedures for routine operations for day to day operational activities to prevent or minimise environmental harm, however occasioned or caused; and (d) Contingency plans and emergency procedures 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 (e) Organisational structure and responsibility to ensure that roles, responsibilities and authorities are appropriately defined to manage environmental issues effectively; and (f) Effective communication to ensure two-way communication on environmental matters between operational staff and higher management; and (g) Their obligations in respect of record keeping required under this environmental authority. (iv) the conduct of environmental and energy audits. (v) waste prevention, treatment and disposal.

(A10)	The conduct of environmental and energy audits required by condition A9(iv) must be carried out at the frequency specified below: (i) the environmental audit is to be conducted on an annual basis. (ii) the energy audit is to be conducted on an annual basis.
(A11)	The holder of this environmental authority must prepare a summary of the outcomes of the environmental and energy audits required by condition A9 (iv) and submit the summary with the next annual return, which follows the conduct of the audit.
(A12)	An up to date copy of the Integrated Environmental Management System must be provided to the administering authority, including provision of any amendments within 30 days of its completion.
(A13)	An up to date copy of the Integrated Environmental Management System must be kept at the place to which this environmental authority relates.
(A14)	The holder of this environmental authority must not implement or amend an Integrated Environmental Management System or any environmental management plan that contravenes any condition of this environmental authority.
(A15)	Visitors to the site must be under the reasonable supervision of a relevant staff member where it is reasonably necessary to ensure compliance by the holder of their obligations arising under this environmental authority.
(A16)	The only persons authorised to speak for and on behalf of JBS Australia Pty Limited (A.C.N 011 062 338) are the Directors, the Secretary, the Group Environment Manager and the Group Engineer.
End of Conditions for Schedule A	
Agency interest: Schedule B - Air	
Condition number	**Condition**
	Specified Releases of Contaminants to the Atmosphere
(B1)	Contaminants resulting from the operation of the sources described in Table 1 of the Air Schedule must only be released to the atmosphere from those release points specified in Table 1 of the Air Schedule.
(B2)	Contaminants released from each release point specified in Table 1 of the Air Schedule must be directed vertically upwards without any impedance or hindrance.
(B3)	Contaminants must be released to the atmosphere from a release point at a height not less than the corresponding height stated for that release point in Table 1 of the Air Schedule.
(B4)	Contaminants must be released to the atmosphere from a release point at a velocity not less than the corresponding velocity stated for that release point in Table 1 of the Air Schedule.
(B5)	Contaminants must not be released to the atmosphere from a release point at a mass emission rate, as measured at a monitoring point specified in Schedule H, in excess of that stated in Table 2 of the Air Schedule.
(B6)	Contaminants must not be released to the atmosphere from a release point at a concentration, as measured at a monitoring point specified in Schedule H, in excess of that stated in Table 2 of the Air Schedule.
(B6A)	Contaminants resulting from the operation of the sources described in Table 1A of the Air Schedule may be released to the atmosphere from those sources subject to compliance with the conditions of this environmental authority relevant to those sources.

	Noxious or Offensive Odour
(B7)	Notwithstanding any other condition of this environmental authority, there must not be releases of contaminants from the place to which this environmental authority relates: (a) that cause a noxious or offensive odour beyond the boundaries of the place to which this environmental authority relates; and (b) which releases could have been prevented by compliance with the general environmental duty; and (c) where the holder did not, in relation to such releases, comply with the general environmental duty.
(B8)	Point source odours must only be released from release points RP2, RP4, RP5, RP6, RP7, and RP12 subject to the conditions of this environmental authority.
	Labelling of Discharge Points
(B9)	All release points referred to in Table 1 of the Air Schedule must be conspicuously marked with the corresponding release point number which must be readily visible from both ground level and at any required sampling point.
	Dark Smoke: Normal Operations
(B10)	Dark smoke must not be emitted to the atmosphere from release point RP1, except as provided for by Condition B11.
	Dark Smoke: Start-up and Soot Blowing
(B11)	Dark smoke must not be emitted to the atmosphere for a period in excess of thirty minutes after start up of the coal fired boiler and during use of any soot blowers associated with use of the coal fired boiler.
(B12)	Automatic obscuration recorders are to be installed and operated to indicate to the plant operator the obscuration of contaminants at the corresponding monitoring points specified in Schedule H for release point RP1 and to produce a record of that data, for example, in a paper scroll or electronic format.
(B13)	Detection by sensors of the automatic obscuration recorders of smoke in excess of the permitted smoke prescribed in condition B12 is to activate an audible and visual alarm on the plant operator's console.
(B14)	All instruments measuring and recording obscuration as required by condition B12 must be accessible and capable of being read without opening the instrument cabinet.
(B15)	The recordings of obscuration as required by condition B12 shall be marked to show the true calendar date and time of day.
	Fuel Burning
(B16)	The sulphur content of any fuel burned in industrial fuel burning equipment is not to exceed one (1) percent by weight.
(B17)	The only type of fuel to be burned in industrial fuel burning equipment, except during light up, is: (i) coal in the source description of RP1; (ii) natural gas in the source descriptions of RP2, RP3, RP6, RP7 and RP9; (iii) biogas collected from the Covered Anaerobic lagoons (CALs) in the source descriptions of RP2 and RP12.
(B18)	Any industrial fuel burning equipment that treats effluent gases by way of incineration must be operated in a manner such that effluent gases are incinerated at a temperature of not less than 750 degrees Celsius.

Schedule B - Table 1

RELEASE POINT NUMBER AND DESCRIPTION	SOURCE DESCRIPTION	MINIMUM RELEASE HEIGHT (metres above ground level)	MINIMUM EFFLUX VELOCITY (metres/ Second)
RP1 – Coal fired boiler stack	8.5mw General Energy twin grate coal - fired boiler	29	15
RP2 – Gas fired boiler stack	10mw natural gas-fired boiler	13	10
RP3 – Gas fired boiler stack	2.5mw natural gas-fired boiler	13	10
RP4 – By-products building odorous air treatment system	New rendering by-products building – odorous air treatment system including building air	30	18
RP5	Foodpartners retort	12	NS
RP6 – Degreased Cattle Bone (DCB) gas fired burner stack	DCB condenser unit Namco LPG - fired burner	12	15
RP7 – Foodpartners gas fired oven stack	Foodpartners cooker Series E Heat & Control multi-purpose oven	12	8
RP8 – Blood drier furnace stack	Anitec Type 4 BallTec blood dryer (No3)	16	25
RP9 – Gas fired boiler stack	3mW natural gas-fired Trevor boiler	12	15
RP10 – Blood drier furnace stack North	Anitec Type 4 BallTec blood drier (North)	16	25
RP11 – Blood drier furnace stack South	Anitec Type 4 BallTec blood drier (South)	16	25
RP12 – Covered Anaerobic Lagoons (CALs) biogas enclosed flare	Biogas (methane) enclosed flare	9.9	6.6
RP13 – CALs Release Vent 1	Biogas (methane) release vent 1	6	4.7
RP14 –CALs Release Vent 2	Biogas (methane) release vent 2	6	4.7
RP15 – CALs Release Vent 3	Biogas (methane) release vent 3	6	4.7

Schedule B - Table 1A

Source Description
Waste water treatment ponds (Anaerobic and SBR's)
Cattle yards and holding areas
Primary Effluent treatment plant (Pump pits,Savealls,DAF)

Schedule B - Table 2

Release Point Number and Description	Contaminant	Type of Release Limit	Maximum Release Limit
RP1 – Coal fired boiler stack	Particulates	Concentration	0.25 g/Nm^3 (dry) at 12% CO_2
		Mass emission rate	200 g/min
	Sulphur Trioxide	Concentration	0.20 g/Nm^3 (dry) at 3% O_2
		Mass emission rate	160 g/min
	Nitrogen Oxide (NO) and Nitrogen Dioxide (NO_2) expressed as NO_2	Concentration	0.50 g/Nm^3 (dry) at 3% O_2
		Mass emission rate	300 g/min
RP2 – Gas fired boiler stack	Nitrogen Oxide (NO) and Nitrogen Dioxide (NO_2) expressed as NO_2	Concentration	0.50 g/Nm^3 (dry) at 3% O_2
		Mass emission rate	250 g/min
	Hydrogen Sulphide (H_2S)	Concentration	5 mg/Nm^3 (dry) at 3% O_2
	Total Volatile Organic Compounds (VOCs)	Concentration	40 mg/Nm^3 (dry) at 3% O_2
RP12 – Covered Anaerobic Lagoons (CALs) biogas flare	Nitrogen Oxide (NO) and Nitrogen Dioxide (NO_2) expressed as NO_2	Concentration	350 mg/Nm^3 (dry) at 3% O_2
	Hydrogen Sulphide (H_2S)	Concentration	5 mg/Nm^3 (dry) at 3% O_2
	Total Volatile Organic Compounds (VOCs)	Concentration	40 mg/Nm^3 (dry) at 3% O_2

	New By-Products Building
(B19)	All inedible rendering and inedible by-products processing activities must be carried out in an enclosed building (the new by-products building).
(B20)	All external doors of the new by-products building must be kept fully closed when rendering and by-products processing are being carried out, except when necessarily being used for access.

(B21)	The new by-products building must be kept under negative pressure when rendering and by-products processing is occurring.
(B22)	The new by-products building ventilation system must be operated so that the volume of building air extracted in any one hour period is not less than a volume equivalent to 20 times the total volume of the new by-products building.
(B23)	Collection of odorous emissions within the new by-products building must be undertaken in a manner to effectively prevent or minimise the release of noxious and/or offensive odours to the atmosphere from releases of extracted building air and ensure compliance with condition B7.
(B24)	Effluent gases and vapours from rendering plant and equipment must be effectively collected by the extraction systems serving the processing plant and equipment must be treated by bio-filtration, ultraviolet radiation and ozonation or an alternate treatment technology to effectively prevent or minimise the release of noxious and/or offensive odours and ensure compliance with condition B7.
(B25)	Monitoring and keeping of records of parameters that indicate effective operation of the building air collection and treatment equipment must be undertaken. Records must be marked to show the true calendar date and time of day.
(B26)	The ducting and extraction systems which transfer effluent gases, including extracted building air, from one location to another must be constructed, operated and maintained so as to minimise any leakage of effluent gases and vapours to the atmosphere from these sources.
(B27)	In the event of visible emissions occurring from industrial plant or ducting, rendering/processing of animal matter in the processing line served by that industrial plant or ducting must cease and must not recommence until the fault or omission which resulted in the emission is corrected, except in the case where such fault or omission is corrected within 2 hours of its detection.
(B28)	The temperature of the condensate leaving any condenser must not exceed fifty degrees Celsius.
(B29)	The temperature of condensate leaving each condenser must be continuously and accurately measured at a two hourly interval and recorded in degrees Celsius.
	Degreased Cattle Bone (DCB) Plant
(B30)	Effluent gases collected by the gas extraction systems within the Degreased Cattle Bone plant must be passed through a condenser unit prior to their release to the atmosphere via release point No.6.
(B31)	The temperature of the condensate leaving any condenser is not to exceed fifty degrees Celsius.
(B32)	The temperature of condensate leaving each condenser must be continuously and accurately measured at a two hourly interval and recorded in degrees Celsius.
(B33)	The ducting and extraction systems, which transfer effluent gases from one location to another, must be constructed, operated and maintained so as to minimise any leakage of effluent gases and vapours to the atmosphere from these sources.
(B34)	In the event of visible emissions occurring from industrial plant or ducting that is associated with the DCB Plant, the processing of cattle bone must cease and must not recommence until the fault or omission which resulted in the emission is corrected, except in the case where such fault or omission is corrected within 2 hours of its detection.
	Trafficable Areas
(B35)	Any spillage of material onto sealed areas, as a result of delivery or handling, that may be released into the atmosphere must be effectively contained and/or cleaned up without delay and placed into storage bins or other suitable receptacles.

	Dust Minimisation: Livestock Holding, Receival and Transferring Areas
(B36)	Live stock holding, receival and transferring areas must be maintained in a manner which minimises the release of dust and particulate matter to the atmosphere by: (i) removing manure from concreted areas daily and keeping such areas clean; (ii) removing manure from unsealed areas as frequently as practicable, except in periods of excessive rainfall that preclude such removal, and must include at least 40 hours per week of yard scraping by a bob cat or equivalent; and (iii) keeping the surface of unsealed areas damp during periods of dry weather.
(B37)	Treated effluent must not be used for dust suppression except if: (i) the effluent is drawn from the outlet of treatment pond number 5; and (ii) the treated effluent in pond 5 is in an aerobic state so as to minimise any likelihood of noxious or offensive odours being released; and (iii) the treated effluent is applied in a manner such that the likelihood of any spray drift or drift of aerosols beyond the boundaries of the place to which this environmental authority relates is minimised, for example, by applying the treated effluent with a water tanker; and (iv) the treated effluent is not placed in any position from which it could be reasonably expected to be released to any stormwater drain external to the place to which this environmental authority relates or to any waters.
	Short Term Storage of Solid Waste
(B38)	From **31 August 2001**, any organic solid waste materials being paunch, yard scrapings, DAF float, treatment sludges, vehicle wash down sludges, manures, waste activated sludges which are to be removed off site must be held no longer than twenty four hours (except any general waste collected by a Local Government waste collection service). In the event of circumstances beyond the control of the holder, such materials must be: (a) removed offsite as soon as is reasonable practicable; (b) while onsite must be stored in enclosures and must be covered to minimise the release of dust and odours from the sources where such releases of dust and odours is likely to occur.
	Pond Odours
(B39)	All anaerobic ponds must be covered.
	Biogas Facility
(B40)	Biogas must not be released to the atmosphere unless treated by combustion within the 10MW natural gas fired boiler and/or the Covered Anaerobic Lagoons (CALs) biogas enclosed flare.
(B41)	Any flare operated for the treatment of biogas must be operated in such a way that : (a) a flame is present at all times while the biogas is required to be treated; and (b) the temperature for the combustion of the biogas by the flare is greater than 760 degrees Celsius (°C).
(B42)	Visible emissions of flare must not be permitted for more than five (5) minutes in any two (2) hour period.
End of Conditions for Schedule B	

Agency interest: Schedule C – Water	
Condition number	**Condition**
	Release of Contaminants to Waters
(C1)	Contaminants must not be directly or indirectly released from the place to which this environmental authority relates to any waters or the bed and banks of any waters except: (i) as permitted under the Water Schedule; or (ii) as permitted under the Stormwater Management Schedule; or (iii) to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.
(C2)	The only contaminants permitted to be released from the place to which this environmental authority relates at the release point W1 are meat processing effluent, rendering effluent, contaminated stormwater directed into the waste water treatment system and sewage effluent treated as required by the conditions of this environmental authority.
	Release Points
(C3)	Contaminants must not be directly or indirectly released from any source on the place to which this environmental authority relates to any waters at any location other than the contaminants and sources at the locations listed below: Release point W1 - Treated wastewater via an outfall pipe to waters described as the Bremer River at approximately AMTD 2.0 km.
	Quantity of Contaminants Released
(C4)	The total quantity of contaminants released from release point W1 during any day must not exceed any of the limits for each contaminant specified in Schedule C - Table 1.

Schedule C - Table 1 - Release Quantity Limits

CONTAMINANT	RELEASE POINT NUMBER	RELEASE LIMIT (kg/day)	LIMIT TYPE
Oxygen demanding substances as measure by 5-day Biochemical Oxygen Demand (kg/day)	W1	66	Maximum on any one day
Oxygen demanding substances as measure by 5-day Biochemical Oxygen Demand (kg/day)	W1	48*	50th percentile load
pH	W1	6.5-8.5	Range
Suspended Solids (kg/day)	W1	99	Maximum on any one day
Suspended Solids (kg/day)	W1	60*	50th percentile load
Ammonia (kg/day)	W1	33	Maximum on any one day
Ammonia (kg/day)	W1	18*	50th percentile load
Total Nitrogen (kg/day)	W1	330	Maximum on any one day
Total Nitrogen (kg/day)	W1	150*	50th percentile load
Total Phosphorous (kg/day)	W1	from July 1 2004, 100 **	Maximum on any one day
Total Phosphorous (kg/day)	W1	from July 1 2004, 50 **	50th percentile load

Notes to Schedule C - Table 1:

*means 50th Percentile loads for total nitrogen, ammonia nitrogen, suspended solids and biochemical oxygen demand.

** means best practice environmental management by initial reduction in phosphorus levels discharge to the treatment system by applying measures at the source followed by biological reduction and then, if necessary, treatment such as dosing and precipitation until the licensed loads are achieved.

	Quality Characteristics of Release to Waters
(C5)	The release of contaminants to waters must comply, at the sampling and in-situ measurement point/s specified in Schedule H Table 3 with each of the limits specified in Schedule C - Table 2 for each characteristic.

(C6)	Notwithstanding the quality characteristic limits specified in Schedule C - Table 2, the 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.*

Schedule C - Table 2

QUALITY CHARACTERISTICS	RELEASE POINT NUMBER	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (mg/l)	W1	20	Maximum
Suspended Solids (mg/l)	W1	30	Maximum
pH. (pH Units)	W1	6.5-8.5	Range
Total Nitrogen (mg/L)	W1	100	Maximum
Total Phosphorous (mg/L)	W1	40	Maximum
Dissolved Oxygen. (mg/L)	W1	6	Minimum
Faecal Coliforms (organisms/100 ml)	W1	150	#
Faecal Coliforms (organisms/100 ml)	W1	600	Maximum
Enterococci (organisms/100 ml)	W1	35	#
Enterococci (organisms/100 ml)	W1	100	Maximum
Free Chlorine Residual (applies only if disinfection is via chlorination)	W1	0.7 mg/L	Maximum
Oils and Grease (mg/L)	W1	10	Maximum
Ammonia (mg/L)	W1	10	Maximum

Means Median of five consecutive samples taken not more than 30 minutes apart.

	Pond/Pit Conditions
(C7)	All ponds and pits used for the storage or treatment of effluent and contaminants must be installed and maintained so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any waters (including groundwaters).
(C8)	All ponds and pits used for the storage or treatment of contaminants or wastes must be installed and maintained so that a freeboard of not less than 0.25 metres for existing ponds and 0.5 for any new ponds is maintained at all times, except in emergencies or adverse weather conditions.
(C9)	All ponds and pits used for the storage or treatment of contaminants or wastes must be installed and maintained to ensure the stability of the pond's/pit's construction.
	Waste Water Minimisation
(C10)	Cleaning of spillages, equipment, trucks, floors, areas or structures on the place to which this environmental authority relates must be undertaken using dry cleaning methods where practicable and to the greatest extent practicable.
(C11)	Where it is not practicable to utilise dry methods of cleaning as required by condition C10 practicable steps must be taken minimise the volume of wash down water produced, for example by use of high pressure - low volume water spray equipment.

	Addressing Perturbations to Waste Water Treatment Process
(C12)	The holder of this environmental authority must ensure the volume and quality of primary effluent discharged to the anaerobic ponds and sequencing batch reactors is limited to that volume and quality that ensures that effluent discharge limits in this environmental authority are met and managed in accordance with Condition C1 of the Licence.
	Current Study of Bremer River Ecological Processes
(C13)	The holder of this environmental authority acknowledges that the conditions for release of contaminants to the Bremer River in this environmental authority have been calculated without the benefit of the findings of the current study entitled *Bremer River Ecological Processes* being undertaken as part of the Southeast Queensland Regional Water Quality Management Strategy. The administering authority may, based on the information provided in the study, all relevant information available at the time and the regulatory framework applicable at that time, consult with the holder of this environmental authority about the conditions in the environmental authority concerning the treatment and disposal of waste water. The aim of the consultation shall be the meaningful review of the load levels imposed in this licence having regard to: (a) the study results; and (b) best practice environmental management. If this review leads to more stringent requirements on the licence holder, this shall be advanced by way of a further Environmental Management Program.
End of Conditions for Schedule C	
Agency interest: Schedule D – Stormwater Management	
Condition number	**Condition**
	Stormwater Management Plan
(D1)	The holder of this environmental authority must, as part of the IEMS, implement and maintain a Stormwater Management Plan for all areas in the place to which this environmental authority relates, other than grassed areas used primarily for livestock grazing which plan describes reasonable and practicable measures to minimise the likelihood of the release of contaminated stormwater run-off from the place to which this environmental authority relates to any stormwater drain or any waters.
(D2)	The Stormwater Management Plan must address at least the following issues: • prevention of incident stormwater and stormwater run-off from contacting wastes or contaminants; and • diversion of upstream run-off away from areas containing wastes or contaminants; and • collection, treatment and disposal of contaminated stormwater run-off, for example, from cattle yards and any short term solid waste storage areas; and • management of the application of effluent to all areas where irrigation occurs; and • periodic monitoring of the quality of any stormwater released to ensure the measures adopted prevent the discharge of contaminated stormwater.
(D3)	Stormwater run-off from uncontaminated areas, for example stormwater from clean roofed areas, carparks and roadways, may be discharged to stormwater drains and waters. Stormwater from both the first flush pond and the cattleyard pond is authorised to discharge to the river in the event of a storm event exceeding the design capacity of the pond and/or corresponding to the design storm event for the pond in question.
(D4)	An up to date copy of the Stormwater Management Plan must be kept at the place to which this environmental authority relates.

	General
(D5)	The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where the resultant wastes are unlikely to be released into any waters, roadside gutter or stormwater drainage system.
(D6)	Any outside spillage of wastes, or contaminants that may cause environmental harm, must be effectively contained and/or cleaned up as quickly as practicable. Except in an emergency situation, such spillages must not be cleaned up by hosing, or otherwise releasing such wastes or contaminants to any stormwater drainage system, roadside gutter or waters.
	Bunding
(D7)	All liquid waste tanks and liquid chemical storage must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank.
(D8)	All above ground fuel tank storage must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.
(D9)	Refuelling and fuel handling operations must be conducted in a proper and efficient manner to minimise the likelihood of any release of fuel to any stormwater drain or waters.
(D10)	All bunding must be constructed of materials which are impervious to the materials stored.
(D11)	All required pipework from the bunded areas must be directed over the bund wall and not through it.
(D12)	The base and walls of all bunded areas must be maintained free from gaps or cracks.
(D13)	All loading/unloading of bulk materials must take place only within designated vehicle loading/unloading areas.
(D14)	The filling of all tanks used for storage and or flow balancing of liquid wastes and tallow must be controlled by automatic alarms, which produce an audible signal when the tank has reached its nominal capacity.
	Cattle Yards
(D15)	Run-off from the cattle holding yards on the eastern side of the dam and any uncovered solid waste storage areas must be directed to the cattle yard collection pond and must be, as soon as reasonably practicable, either transferred for treatment in the waste treatment system or reused for irrigation in a manner that does not breach condition B7 of the licence.
End of Conditions for Schedule D	
Agency interest: Schedule E – Land Application	
Condition number	**Condition**
	Release of Contaminants to Land
(E1)	The only contaminants that may to be released to land are treated wastewater and collected stormwater.
	Contaminant Release Location
(E2)	The release of treated wastewater and collected stormwater must only be disposed of on the areas identified in the licence holders Irrigation Management Strategy (IMS) that can be used in a sustainable manner, as determined in accordance with condition E6, and must exclude all buffer zones.

(E3)	A minimum of eighteen (18) hectares of land, excluding any necessary buffer zones, must be provided for the irrigation of treated wastewater and collected stormwater.
(E4)	The release of contaminants to land for dust suppression purposes authorised under this environmental authority must only occur on areas where, in dry conditions, dust is generated in carrying out the environmentally relevant activities.
	Irrigation Management Strategy
(E5)	The holder of this environmental authority must, as part of the IEMS, implement and maintain an IMS that describes reasonable and practicable measures to minimise the likelihood of environmental harm resulting from the release of contaminants to the lands referred to in conditions E2, E3 and E4.
(E6)	The IMS must include but not be limited to: (1) the identification of areas suitable for irrigation; (2) an assessment of the soils including types, structure, nutrient status, salinity and sodicity, cation exchange capacity and sodium absorption ratio (SAR) of the contaminant release area; (3) an Irrigation Management Program (IMP), based on the sustainable long-term use of the contaminant release areas, addressing at least the following matters: (a) a water balance table; (b) effluent allocation to the contaminant release area; (c) predicted effect on soil conditions; (d) proposed irrigation rate and return period; (e) nutrient balance, including loads of Nitrogen and Phosphorous; (f) salt balance; and (g) proposed crop development and removal strategies. (4) modelling to determine the daily rate of irrigation during an 'average' year and a ninetieth (90th) percentile 'wet' year; (5) a monitoring program which includes: (a) soil and sub-soil analysis, including assessment of those parameters identified in E6(2)(ii), to be carried out at no less than six representative sites on an annual basis; (b) groundwater monitoring that determines the existence and rate of infiltration of effluent that has been irrigated to land, and the potential or actual impacts on groundwater from such infiltration, to be carried out on an annual basis; (c) plant analysis to assess nutrient export to be carried out on a bi-annual basis; (d) determination of the quantity and quality of effluent; (e) re-assessment, including modelling of the water balance and irrigation rate and return period should be undertaken, if necessary, to ensure sustainable use of the contaminant release area is being achieved. (6) reporting of monitoring results, and any assessment of the impact of the releases on the contaminant release areas, to be kept at the place to which this environmental authority relates.
(E7)	In implementing and maintaining the Irrigation Management Strategy, use may be made of any relevant and appropriate plans, procedures, quality assurance manuals or other relevant documents previously prepared.
(E8)	An up to date copy of the IMS must be provided to the administering authority within 30 days of making any amendments.
(E9)	All determinations of the condition of the contaminant release area must be performed by a person or body possessing appropriate experience and/or qualifications to perform the required determinations.

	Quality of Contaminants Released to Land
(E10)	Treated wastewater reused on the place to which this environmental authority relates for dust suppression and irrigation purposes must comply, at the sample and in-situ measurement points in Schedule H, with the quality characteristics specified in Schedule E - Table 1.

Schedule E - Table 1

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
pH	4.5 to 9 pH units	range
Dissolved Oxygen	2 mg/L	minimum

(E11)	The release of treated wastewater to land must comply with the following conditions: (i) The release must not have any properties nor contain any organisms or contaminants in concentrations which are capable of causing environmental harm; and (ii) The release must be environmentally sustainable by complying with the requirements of the irrigation management program addressing the matters referred to in condition E6(3)(iii).
(E12)	Collected contaminated stormwater in the cattle yard pond reused for irrigation purposes on the place to which this environmental authority relates must comply with: (i) the quality characteristics specified in Schedule E - Table 1 for pH at the sampling and in situ measurement point/s specified in Schedule H.
	Irrigation in General
(E13)	The irrigation of treated wastewater and stormwater to land must not be carried out within 20 metres of any watercourse.
(E14)	The irrigation of treated wastewater and stormwater to land must not be carried out within 10 metres of any boundary of the place to which this environmental authority relates.
(E15)	The irrigation of treated wastewater and stormwater to land must not be carried out if soil moisture conditions are such that surface run-off or ponding is likely to occur.
(E16)	All irrigation areas must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the irrigated wastewater and stormwater.
(E17)	Spray from any irrigation of treated wastewater and stormwater to land must not drift beyond nor be otherwise released beyond the boundaries of the place to which this environmental authority relates.
(E18)	Pipelines and fittings for the release of contaminants to land must be clearly identified. Lockable valves or removable handles must be fitted to the contaminant release pipelines where there is public access to the contaminant release areas.
	Provision of Treated Effluent and Stormwater to Other Person(s) for Reuse, etc
(E19)	Contaminants supplied to another party for irrigation purposes or other use, must comply, at the sampling and in-situ measurement point/s specified in Schedule H, with the quality characteristics specified in Schedule E - Table 2.

Schedule E – Table 2

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand	20mg/L	Maximum
Suspended Solids	30mg/L	Maximum
pH	4.5 to 9.0 pH units	Range
Dissolved Oxygen	2 mg/L	Minimum
Faecal Coliforms	4000 organisms/100mL	Maximum

Median of five consecutive samples taken at regular intervals of not less frequently than weekly must not exceed the release limit.

(E20)	Notwithstanding the quality characteristic limits specified in Schedule E - Table 2 the contaminants supplied to another party must also comply with the following qualitative characteristics: (i) The treated wastewater to be re-used must not have any properties nor contain any organisms or contaminants in concentrations, which are capable of causing environmental harm.
(E21)	If the holder of this environmental authority gives or transfers ownership of the treated wastewater to another person(s), the holder of this environmental authority must: (i) prior to giving such treated wastewater or transferring ownership of such treated wastewater and or stormwater to that person(s), obtain from that person details of how that person intends to comply with the general environmental duty provided for by Section 319 of the Environmental Protection Act 1994 (the Act) in respect of the use and disposal of such treated wastewater, particularly in relation to environmental sustainability of any treated wastewater disposal, protection of public health and protection of environmental values of waters; and (ii) only give or transfer ownership of such treated wastewater in accordance with a written agreement between the holder of this environmental authority and that person(s); and (iii) upon becoming aware that the person is not or is not likely to comply with the general environmental duty provided by Section 319 of the Act, cease the giving and transferring ownership of such treated wastewater, as the case may be.
	End of Conditions for Schedule E

Agency interest: Schedule F - Noise

Condition number	**Condition**
	Emission of Noise
(F1)	Subject to condition F2, the emission of noise from the place to which this environmental authority relates must not result in levels greater than: (a) for noises complained of that are not solely caused by or portable mechanical plant, those levels specified in Tables 1 and 2 of the Noise Schedule; and (b) for noise complained of that is caused by portable mechanical plant, those levels specified in Tables 2 and 3 of the Noise Schedule.

(F2)	Condition F1 applies if: (a) there are complaints to the administering authority about the level of noise from any source in the carrying out of the environmentally relevant activities at the place to which this environmental authority relates; and (b) the complaints are not frivolous or vexatious or based on mistaken belief.

Schedule F - Table 1

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
Period	**Noise Level at a Noise Sensitive Place Measured as the Rating Level $L_{Ar,T}$**
6 am - 6 pm	43 dB (A) or Background noise level plus 5 dB(A)
6 pm - 10 pm	43 dB (A) or Background noise level plus 5 dB(A)
10 pm - 6 am	40 dB (A) or Background noise level plus 5 dB(A)

Schedule F - Table 2

NOISE LIMITS IN TERMS OF MAXIMUM dB(A) AT NOISE SENSITIVE PLACES	
Period	***Maximum noise level within a sleeping area of a noise sensitive place measured as the maximum sound pressure level Max LpA,T (Where time period "T" equals 15 minutes)***
10 pm - 6 am	43

Schedule F - Table 3

ADDITIONAL NOISE LIMITS AT A NOISE SENSITIVE PLACE FOR PORTABLE MECHANICAL PLANT	
Period	**Noise Level at a Noise Sensitive Place measured as the $L_{A90,\ Adj\ T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, adjusted for noise characteristics**
6 am - 6 pm	43 dB(A) or Background noise level plus 5 dB(A)
6 pm - 10 pm	43 dB(A) or Background noise level plus 5 dB(A)
10 pm - 6 am	40 dB(A) or Background noise level plus 5 dB(A)

(F3)	In addition to condition F1, the holder of this environmental authority must undertake the following measures: (a) Movement of vehicles on the premises must be in adherence to speed limits that minimise generation of noise. Such speed limits must be signposted in prominent locations and an active education and enforcement program must be put in place; (b) Cattle must not be unloaded or loaded between the hours of 11 pm and 6 am, excepting any emergency circumstance necessary to protect stock health. An emergency circumstance for the purpose of this clause means due to an unexpected and unavoidable occurrence; (c) Disturbance of cattle must be minimised at all times. Unnecessary disturbance must be prevented; (d) The northern fence of the ante-mortem yards must be lined with conveyer belting; (e) All reasonable and practicable measures must be undertaken to minimise the noise of cattle bellowing received at noise sensitive places at night, for example, holding cattle in yards more distant from the noise sensitive places in preference to yards closer to such places; (f) Excluding any emergency circumstance, trucks must not use exhaust brakes on site; (g) Truck doors, truck gates, and other gates and doors must be opened and closed in a quiet manner; (h) Clanging of metal and other heavy objects must be avoided; (i) Stockwhips must not be used between the hours of 7 p.m. and 6 am; (j) Truck washing activities must be undertaken in a manner that minimises emission of noise; (k) Excluding any emergency circumstance, yelling at people or animals must not occur so as to be clearly discernible at any noise sensitive place; (l) Where any vehicles being company vehicles, contractors and hired plant on-site are equipped with reversing beepers, the volume of the beeper must be adjusted so as to satisfy workplace health and safety requirements and comply with condition Fl; (m) Unless approved in writing by the administering authority, doors to all buildings housing noise generating equipment, for example the kill floor, engine room, refrigeration room, boiler house, must be kept closed except when necessarily being used for access; (n) All reasonable and practicable measures must be undertaken to avoid and minimise transmission of clanging, banging and impulsive noises, such as those caused by dropping, clanging or bumping objects; and (o) Where firearms are to be used for the destruction of injured animals, where possible a silencer should be used with that firearm. It is acknowledged within this term that approval for the use of a silencer or noise suppression device must be granted by the Queensland Police Service.
(F4)	Bellowing of cattle is excluded from the limits specified in Schedule F Table 2 subject to compliance with the measures stated in condition F3.
End of Condition for Schedule F	
Agency interest: Schedule G – Waste Management	
Condition number	**Condition**
	General
(G1)	Waste must not be released to the environment, stored, transferred or disposed contrary to any condition of this environmental authority.

(G2)	The holder of this environmental authority must not: (i) burn waste at or on the place to which this environmental authority relates; nor (ii) allow waste to burn or be burnt at or on the place to which this environmental authority relates; nor (iii) remove waste from the place to which this environmental authority relates and burn such waste elsewhere.
(G3)	Except as otherwise provided by the conditions of this environmental authority, all disposal of waste generated in carrying out the environmentally relevant activity must be to a proper and appropriate facility that accepts that waste.
	Waste Storage and Handling Conditions
(G4)	Waste generated in the carrying out of the environmentally relevant activities must be stored, handled and transferred in a proper and efficient manner.
	Waste Management Plan (WMP)
(G5)	The holder of this environmental authority must, as part of the IEMS, implement and maintain a Waste Management Plan which details reasonable and practicable measures to be taken by the holder to minimise, treat and dispose of waste caused by the carrying out of the environmentally relevant activities.
(G6)	The Waste Management Plan must address at least the following: • the estimated quantity and nature of each waste produced, and • the current method of disposal, and • proposed methods of pre-treatment or disposal, and • proposals for reductions in the quantity of waste produced through waste minimisation and cleaner production, and • as part of the review of environmental performance carried out under the IEMS, provisions for carrying out and submitting to the administering authority a waste audit within two (2) years from the date of issue of this environmental authority and thereafter every five (5) years.
(G7)	An up to date copy of the Waste Management Plan must be kept at the place to which this environmental authority relates.
	Off Site Movement
(G8)	Regulated waste must only be removed from the place to which this environmental authority relates (other than by a release as permitted excepting any release of regulated waste provided for under another schedule of this environmental authority), by a person licensed under the Environmental Protection Act 1994 to transport that waste.
	Material Storage and Handling
(G9)	Animal matter (excluding paunch, manure and yard scrapings), raw materials, end products and waste materials from any processing of animal matter, must not be kept outside any building or enclosed structure for more than six hours duration without the written authorisation of the administering authority.
	Treatment of Sewage
(G10)	The sewage treatment system(s) must be operated and maintained in a proper and efficient manner.
(G11)	The sewage treatment system(s) must be desludged as often as is necessary to prevent: (i) any overloading of the sewage treatment system(s); and (ii) any carryover of solid materials from the sewage treatment system(s) likely to cause an unauthorised release onto the place to which this environmental authority relates.

(G12)	Manholes and or inspection covers which can be easily removed and replaced must be provided for inspection, cleaning and desludging of the sewage treatment system(s).
	Composting/Soil Conditioning
(G13)	Composting and soil conditioner manufacturing are prohibited at or on the licensed site.
End of Conditions for Schedule G	
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 place to which this environmental authority relates must be recorded in a logbook with the following details: (i) time, date and nature of complaint; (ii) type of communication (telephone, letter, personal etc.); (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); (iv) response and investigation undertaken as a result of the complaint; (v) name of person responsible for investigating complaint; and (vi) action taken as a result of the complaint investigation and signature of responsible person.
	Incident Recording
(H2)	A record must be maintained of events including but not limited to: (i) the time, date and duration of equipment malfunctions that may affect the environmental performance of the place to which this environmental authority relates; (ii) any shut-down of equipment upon which the environmental performance of the place to which this environmental authority relates depends, including, but not limited to, the system for collection, transfer or incineration of foul gases and vapours; effluent gas condensers; and the waste water treatment system, including the aerators, anaerobic and intermittent wastewater facilities.
(H3)	A record must be maintained of the hours of operation of the place to which this environmental authority relates.
	Notification of Emergencies and Incidents
(H4)	Where the holder of this environmental authority has not given notification to the administering authority under Section 320 of the Environmental Protection Act, 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, e-mail or facsimile.

(H5)	Where the holder of this environmental authority has not given notification to the administering authority under Section 320 of the *Environmental Protection Act*, the notification of emergencies or incidents as required by condition number H4 must include but not be limited to the following: (a) the holder of the environmental authority; (b) the location of the emergency or incident; (c) the number of the environmental authority; (d) the name and telephone number of the designated contact person; (e) the time of the release; (f) the time the holder of the environmental authority became aware of the release; (g) the suspected cause of the release; (h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and (i) actions taken to prevent any further release and mitigate any environmental harm caused by the release.
(H6)	Where the holder of this environmental authority has not given notification to the administering authority under Section 320 of the *Environmental Protection Act*, not more that 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 H5 together with (a) a statement as to the proposed corrective action; and (b) any outcomes of actions taken at the time to prevent or minimise environmental harm.
(H7)	As soon as practicable, but not more than six (6) weeks following the conduct of any environmental monitoring performed in relation to the emergency or incident, the holder of this environmental authority must provide written advice of the results of any such monitoring.

	Monitoring of Contaminant Releases to the Atmosphere
(H8)	The holder of this environmental authority must conduct and keep records of a monitoring program of contaminant releases to the atmosphere at the release points, frequency, and for the parameters specified in Schedule H - Table 1 and which complies with the following: (a) all determinations must be performed by a person or body possessing appropriate experience and/or qualifications to perform the required determinations; (b) monitoring provisions for the release points listed in Schedule H - Table 1 must comply with the Australian Standard AS 4323.1 - 1995 "Stationary source emissions Method 1: Selection of sampling provisions". Sample points must also be provided for, in the ducting that carries rendering odours and that carries building air prior to combination; (c) all determinations of contaminant releases to the atmosphere must be made in accordance with methods prescribed in the Department of Environment and Heritage Protection (EHP) Air Quality Sampling Manual. If monitoring requirements are not described in the EHP Air Quality Sampling Manual, monitoring protocols must be in accordance with a method as approved by New South Wales Environmental Protection Authority (NSW EPA) or Department of Environment, Climate Change and Water (DECCW), the Environmental Protection Authority Victoria (Vic EPA) or the United States Environmental Protection Agency (US EPA). (d) the following tests must be performed for each required determination specified in Table 1: (i) gas velocity and volume flow rate; (ii) temperature and oxygen content; (iii) water vapour concentration; (e) where practicable samples taken must be representative of the contaminants discharged when emissions are expected to be at a maximum level; (f) during the sampling period, the following additional information must be gathered, (i) rate of production on site (processing lines in operation); (ii) boiler firing status and steam demand; (iii) sulphur content of fuel.

Schedule H - Table 1 - Required Release Point Determinations

Release Point Number	Contaminant	Determination Required	Monitoring Frequency
RP1	Particulates	Concentration and mass emission rate	Annually
	Sulphur Trioxide (SO_3)		Once every two (2) years
	Nitrogen Oxide and Nitrogen Dioxide (NO_2) expressed as NO_2		
RP2	Nitrogen Oxide and Nitrogen Dioxide (NO_2) expressed as NO_2	Concentration, mass emission rate and destruction efficiency	Biannually for first year following commissioning of the biogas facility and annually thereafter
	Hydrogen Sulphide (H_2S)		
	Total Volatile Organic Compounds (VOCs)		
	Odour	Concentration, odour emission rate and destruction efficiency	
RP4 (Outlet of odour treatment equipment treating processing emissions from by-products plant and building environment	Odour	Concentration and odour emission rate	Six (6) monthly commencing upon commissioning of the new plant
RP6	Odour	Concentration and odour emission rate	Six (6) monthly
RP12	Nitrogen Oxides (NO_x) expressed as NO_2	Concentration, mass emission rate and destruction efficiency	Biannually for first year following commissioning of the biogas facility and annually thereafter
	Hydrogen Sulphide (H_2S)		
	Total Volatile Organic Compounds (VOCs)		
	Odour	Concentration, odour emission rate and destruction efficiency	

	Monitoring of Quality of Waste Water Released to Effluent Treatment System
(H9)	The holder of this environmental authority must carry out monitoring and record keeping procedures in respect of the quality and volume of raw wastewater released to Anaerobic Ponds, and the sequencing batch reactors.
	Monitoring of Quality of Treated Waste Water Released to Irrigation Areas
(H10)	The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released from the treated wastewater pond for the quality characteristics and at the frequency specified in Schedule H - Table 2:

Schedule H - Table 2

QUALITY CHARACTERISTICS	UNITS	sampling and in-situ monitoring point	MONITORING FREQUENCY
5-day Biochemical Oxygen Demand	mg/L	S1 **	Monthly
Suspended Solids	mg/L	S1 **	Monthly
pH	pH scale	S1, S2 **	Weekly *
Dissolved Oxygen	mg/L	S1 **	Weekly *
Total Nitrogen (as Nitrogen)	mg/L	S1 **	Monthly
Total Phosphorus (as Phosphorus)	mg/L	S1 **	Monthly
Faecal Coliforms	cfu/100 mL	S1 **	Weekly *
Sodium Adsorption Ratio	calculated	S1 **	Six monthly
Dissolved Solids	mg/L	S1 **	Six monthly
Total Dissolved Salts (calculated)	mg/L	S1 **	Six monthly
Specific Conductance or electrical conductivity	µS/cm	S1 **	Six monthly
Exchangeable cations	mg/L	S1 **	Six monthly

Notes to Schedule H - Table 2:

* = Weekly samples only to be taken in each week that irrigation or other re- use occurs
** = Where sample point S1 corresponds to sample point S3, a duplicate set of samples need not be taken i.e. only one set is required.

	Sampling and In-situ Monitoring Point Details - Irrigation
(H11)	Determinations of the quality of contaminants released from the effluent treatment system to check conformity with the release quality characteristic limits specified in the Land Application Schedule must be undertaken at the sampling and in-situ monitoring point(s) described as: Sampling Point S1 - from outlet pipe on the outlet of the final effluent treatment pond transferring treated effluent to irrigation areas. Sampling Point S2- from the outlet of the cattle yard ponds.
	Monitoring of Contaminant Releases to Waters
(H12)	The holder of this environmental authority is responsible for the making of determinations of and the keeping of records of the quality of the contaminants released from the place to which this environmental authority relates for the release points, quality characteristics, and at the frequency specified in Schedule H - Table 3.

	Sampling and In-situ Monitoring Point Details - Release to Waters
(H13)	Determinations of the quality of contaminants released to waters must be undertaken at the sampling and in-situ measurement point(s) described as: (i) to check conformity with the release quality characteristics specified in Schedule C of this environmental authority, at: Sampling Point S3: The outlet from Contact Tank/Pond 5 into the outfall to the Bremer River; and (ii) to determine quality of contaminated stormwater released via the bypass of each first flush stormwater collection system and effectiveness of the first flush stormwater collection system in minimising the likelihood of environmental harm being caused, at: First flush bypass drain(s): A sampling point in the bypass drain(s) that release stormwater bypassing each first flush stormwater collection system to the Bremer River.

Schedule H - Table 3

QUALITY CHARACTERISTIC DETERMINATION	RELEASE POINTS	FREQUENCY
5-day Biochemical Oxygen Demand. (mg/L)	W1	Weekly
Suspended Solids. (mg/L)	W1	Weekly
pH. (pH Units)	W1	Weekly
Total Nitrogen (mg/L)	W1	Weekly
Ammonia Nitrogen (mg/L)	W1	Weekly
Total Phosphorous (mg/L)	W1	Weekly
Dissolved Oxygen. (mg/L)	W1	Weekly
Faecal Coliforms (organisms/100ml)	W1	Weekly
Enterococci Coliforms (organisms/100ml)	W1	Weekly
Oil and Grease. (mg/L)	W1	Weekly
5-day Biochemical Oxygen Demand. (mg/L)	First flush bypass drain(s)	Once a month during a release event in the event that a release occurs during that month via the bypass drain(s)
Suspended Solids. (mg/L)	First flush bypass drain(s)	Once a month during a release event in the event that a release occurs during that month via the bypass drain(s)
Total Nitrogen (mg/L)	First flush bypass drain(s)	Once a month during a release event in the event that a release occurs during that month via the bypass drain(s)
Total Phosphorous (mg/L)	First flush bypass drain(s)	Once a month during a release event in the event that a release occurs during that month via the bypass drain(s)
Faecal Coliforms (organisms/100ml)	First flush bypass drain(s)	Once a month during a release event in the event that a release occurs during that month via the bypass drain(s)
Enterococci Coliforms (organisms/100ml)	First flush bypass drain(s)	Once a month during a release event in the event that a release occurs during that month via the bypass drain(s)

(H14)	All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the *Environmental Protection Agency Water Quality Sampling Manual, 3rd Edition, December 1999*, or more recent editions or supplements to that document as such become available.
(H15)	All determinations of the quality of contaminants released to waters must be made by a person or body possessing appropriate experience and/or qualifications to perform the required measurements.
	Monitoring of Volume of Release to Waters
(H16)	The daily volume of effluent released to waters must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.

	Calculation of Mass Loads Released to Waters
(H18)	The daily kilograms of contaminants released to waters per day shall be determined or calculated and records kept of such determinations or calculations. The kilograms of contaminant released per day shall be calculated by multiplying the measured value of the contaminant in milligrams per litre (the measured value being the value measured that day or on the most recent sampling occasion if not measured that day) by the volume (in megalitres) of wastewater that day. Mass loads shall be calculated for the contaminants released via the release points and on the basis specified in Schedule H - Table 4.

Schedule H - Table 4

MASS LOAD DETERMINATIONS REQUIRED OF THESE CONTAMINANTS	RELEASE POINTS	RECORDS REQUIRED TO BE KEPT FOR LOADS ON THE FOLLOWING BASIS
5-day Biochemical Oxygen Demand (mg/L)	W1	*Daily **Median Weekly *** Number of non-compliance out of 6
Suspended Solids (mg/L)	W1	*Daily **Median Weekly *** Number of non-compliance out of 6
Total Nitrogen (mg/L)	W1	*Daily **Median Weekly *** Number of non-compliance out of 6
Total Phosphorous (mg/L)	W1	*Daily **Median Weekly *** Number of non-compliance out of 6
Ammonia Nitrogen (mg/L)	W1	*Daily **Median Weekly *** Number of non-compliance out of 6

Notes to Schedule H - Table 4:

* Daily = Daily mass loads discharged as calculated from daily discharge flow data and that day's or the most recent sampling result

** Median Weekly = The median weekly mass load as calculated on a weekly basis from the seven relevant daily mass loads

*** = No. non-compliance out of 6 the number of calculated mass loads (kg/day) out of 6 most recent weekly sampling events that the breach the respective median limit for the contaminant prescribed in Schedule C e.g. 1 out of 6, 5 out of 6.

	Noise Monitoring
(H19)	In the event of a complaint about noise that constitutes annoyance or intrusive noise being made to the administering authority that the administering authority reasonably considers is not frivolous or vexatious or based on mistaken belief, the holder of this environmental authority must undertake monitoring to investigate such a complaint upon written request from the administering authority.

(H20)	For the purposes of investigating any complaint of noise annoyance and checking compliance with condition F1 of the noise schedule, monitoring and recording the noise levels from the environmentally relevant activity/activities must be undertaken for at least the following descriptors, characteristics and conditions: (i) $L_{Ar, T}$; (ii) $L_{Abg, T}$ (or $L_{A90, T}$); (iii) $L_{AN, T}$ (where N equals statistical levels of 10, 90); (iv) Max $L_{pA T}$; (v) $L_{Aeq, T}$; (vi) the level and frequency of occurrence of impulsive or tonal noise; (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and (viii) effects due to extraneous factors such as traffic noise.
(H21)	In conjunction with the measurement and recording of the noise, the following parameters and conditions must be recorded: (a) location of sample; (b) date of sample; and (a) time of sample.
(H22)	The method of measurement and reporting of noise levels must comply with the *Environmental Protection Agency Noise Measurement Manual, third edition, March 2000*, or more recent editions or supplements to that document as become available.
(H23)	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and/or qualifications to perform the required measurements.
(H24)	Records must be kept of all noise monitoring carried out under this environmental authority.
	Report Submission
(H25)	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.
	Exception Reporting
(H26)	The holder of this environmental authority must notify the administering authority in writing of any monitoring result, which indicates an exceedance of any licence limit within 28 days of completion of analysis.
(H27)	The written notification required by condition H26 above must include: (i) the full analysis results; and (ii) details of investigation or corrective actions taken; and (iii) any subsequent analysis.
	End of Conditions for Schedule H

Agency interest: Schedule I – Definitions

For the purposes of this development approval the following definitions apply:

(1) "Act" means the *Environmental Protection Act* 1994.

(2) "administering authority" means the Environmental Protection Agency or its successor.

(3) "land" in the land application schedule means land excluding waters and the atmosphere.

(4) "Total Nitrogen" means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, which must be reported separately.

(5) "mg/l" means milligrams per litre.

(6) "g/min" means grams per minute.

(7) "N/S" means not specified.

(8) "µs/cm" means microseimens per centimetre.

(9) "kg/day" means kilograms of contaminant released per day, calculated as stated in H18.

(10) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

(11) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

(12) "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.

(13) "50^{th} percentile load" means that the calculated daily release load of the contaminant must not be greater than the quantity limit for any more than three out of six consecutive samples and corresponding flow measurements, where the time interval between the taking of each consecutive sample/flow measurement to calculate the load is not less that three (3) days and not more than seven (7) days.

(14) "Normal cubic metre" (Nm^3) means the volume of dry gaseous contaminant which occupies 1 cubic metre at a temperature of zero degrees Celsius and at an absolute pressure of 101.3 kilopascals.

(15) "g/ Nm^3" means grams per normal cubic metre.

(16) "Dark smoke" means a release, which appears, on comparison, to be darker than Shade 1 on the Australian Miniature Smoke Chart (AS 3543 - 1989).

(17) "effluent gases" shall be taken to include gaseous emissions as well as vapours.

(18) "noxious" means harmful or injurious to health or physical well-being.

(19) "offensive" means in relation to odour, an odour which is unreasonable having regard to its frequency, intensity, duration and location in which it is detected and which odour is offensive, disgusting, nauseous or repulsive.

Agency interest: Schedule I – Definitions – Continued

(20) "$L_{Ar,T}$" means the rating level is the equivalent continuous sound pressure level adjusted for noise character over a time period of not less than 15 minutes, using Fast response. The rating level is to be calculated as follows:

(a) measure all noise including the source noise as the equivalent continuous sound pressure $L_{Aeq,T}$. The result is the ambient level (a).

(b) measure all noise excluding the source noise, also as the equivalent continuous sound pressure $L_{Aeq,T}$, level by turning off the source noise or measuring at an site with similar background levels in the absence of the source noise under investigation. The residual level (b) is the result of this measurement or 41 dB (A), whichever is the higher. [Note level of $L_{Aeq,T}$ consistent with a 35 dB(A) background (excluding insect noise) to be inserted as 40 dB(A).]

(c) Subtract logarithmically the residual level (b) from the ambient level (a) [i.e. Ambient (a) - log Residual (b) to obtain the component noise level (d)]

(d) If noise is tonal add the following penalties to component noise level (d) to obtain the rating level $L_{Ar,T}$.

AS1055.1 – 1997 Acoustics – Description and Measurement of Environmental Noise
Part 1 - General Procedures

Noise Characteristic	Penalty added to component level (d) to obtain rating level $L_{Ar,T}$.
Tonal characteristic is just audible	+ 2 dB(A)
Tonal characteristic is clearly audible	+ 5 dB(A)

(21) "Max$L_{pA\,T}$" means the absolute maximum instantaneous A-weighted sound pressure level attributed to the source when measured over a time period of not less than 15 minutes, using Fast response. (i.e. without the contribution from the ambient noise source)

(22) "background noise level" means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent measured over a time period of not less than 15 minutes, using Fast response; or

$L_{Abg,T}$ being the arithmetic average of the minimum A-weighted sound pressure level readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

If measurements cannot be made at the affected site due to other dominant sources or the noise under investigation, then measurements must be made at a site with similar background levels to the site under investigation. Joseph Brady Park at Barellan Point is declared to be a suitable similar site for determining background levels and residual levels.

Agency interest: Schedule I – Definitions – Continued

(23) "L A90,Adj T" is the A -weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, adjusted for noise characteristics in accordance with the following Table:

AS1055.1 – 1997 Acoustics – Description and Measurement of Environmental Noise
Part 1 - General Procedures

Noise Characteristic	Penalty added to component level (d) to obtain rating level $L_{Ar,T}$.
Tonal characteristic is just audible	+ 2 dB(A)
Tonal characteristic is clearly audible	+ 5 dB(A)

(21) "Max$L_{pA\,T}$" means the absolute maximum instantaneous A-weighted sound pressure level attributed to the source when measured over a time period of not less than 15 minutes, using Fast response. (i.e. without the contribution from the ambient noise source)

(22) "background noise level" means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent measured over a time period of not less than 15 minutes, using Fast response; or

$L_{Abg,T}$ being the arithmetic average of the minimum A-weighted sound pressure level readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

If measurements cannot be made at the affected site due to other dominant sources or the noise under investigation, then measurements must be made at a site with similar background levels to the site under investigation. Joseph Brady Park at Barellan Point is declared to be a suitable similar site for determining background levels and residual levels.

(23) "L A90,Adj T" is the A -weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, adjusted for noise characteristics in accordance with the following Table:

AS1055.1 – 1997 Acoustics – Description and Measurement of Environmental Noise
Part 1 - General Procedures

Noise Characteristic	**Penalty added to $L_{A90,T}$ to obtain $L_{A90,Adj\,T}$**
Tonal characteristic is just audible	+ 2 dB(A)
Tonal characteristic is clearly audible	+ 5 dB(A)
Impulsive characteristic is just audible	+ 2 dB (A)

(24) In measuring noise, the precision of the instrumentation and the variability in measurement technique must be taken into account and this allowance is to be 2dB (A) in total.

(25) All noise to be measured from the premises of the approval holder must be discernible by aural means in accordance with Australian Standards 1055.1 1997 Sec 3.17.

Agency interest: Schedule I – Definitions – Continued

(26) Measurements should be conducted where possible in calm weather conditions. When conducting noise measurements to determine compliance with the noise limits in Schedule F Table 1, if a temperature inversion exists or is suspected, then assessment for compliance purposes requires that at least 10 separate sampling measurements be conducted over at least 5 nights, of which compliance must be achieved for at least eighty percent (80%) of the measurements.
In the event that the outcome of noise investigations shows that a marginal exceedance of the permit limits in schedule F Table 1(a), namely an exceedance of 2dB(A) or less is measured, then an additional four (4) measurements are to be undertaken at both the background location and receptor premises, either sequentially or contemporaneously. Compliance with the permit will be judged to occur if compliance is measured on at least one measurement.

(27) If insects are a feature of the environment at the time of measurement, the noise due to insects should be excluded by appropriate subtraction from the measured levels.

(28) For the purposes of Table 1 & 3, Schedule F the greater of the two levels shall apply

(29) "noise sensitive place" as mentioned in Schedule 5 of the *Environmental Protection (Noise) Policy 1997 means* any of the following places:

(a) a dwelling;
(b) a library, childcare centre, kindergarten, school, college, university or other educational institution;
(c) a hospital, surgery or other medical institution;
(d) a protected area, or an area identified under a conservation plan as a critical habitat or an area of major interest, under the *Nature Conservation Act 1992;*
(e) a marine park under the *Marine Parks Act 1982;*
(f) a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.

(30) "dwelling" as mentioned in Schedule 5 of the *Environmental Protection (Noise) Policy 1997* means any of the following structures or vehicles that is principally used as a residence:

(a) a house, unit, motel, nursing home or other building or part of a building;
(b) a caravan, mobile home or other vehicle or structure on land;
(c) a watercraft in a marina.

(31) "intrusive noise" as mentioned in Schedule 5 of the *Environmental Protection (Noise) Policy 1997 means* noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -

(a) is clearly audible to, or can be felt by, an individual; and
(b) annoys the individual.

(32) "protected area" means -

(a) a protected area under the *Nature Conservation Act 1992*; or
(b) a marine park under the *Marine Parks Act 1982*; or
(c) a World Heritage Area

(33) "adverse weather conditions" means rainfall in excess of a 1 in 10-year 90th percentile 24-hour duration storm event, as calculated from the most recent version of the Australian Rainfall and Run-off manual.

(34) "Odour level" ("OU") of a sample means the odour level measured in accordance with draft Australian Standard for determination of odour concentration by dynamic olfactometry.

Agency interest: Schedule I – Definitions – Continued	
(35)	"Odour emission rate" ("odour unit volumes per minute" "OUV/min") means the arithmetic product of the odour level of the release of contaminants and the volume rate of discharge (in wet cubic metres per minute referred to a temperature of zero degrees Celsius and a pressure of 101.3 kilopascals).
(36)	"Pollution control equipment" means plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused, for the example biofilters, scrubbers, incinerators, gas collection equipment, condensers, afterburners, wastewater treatment systems, dissolved air flotation systems, savealls, filter presses, screens and aerators.
(37)	"Portable plant" means portable equipment not including vehicles.
(38)	"Composting" as described in G13, means that the holder of this environmental authority shall not manufacture soil conditioner through the composting of organic material. The intent of G13 is that the holder of this environmental authority will not conduct the Environmentally Relevant Activity 53 at the Dinmore Site.
(39)	"Treated wastewater" is water comprising the contaminants as referred to in C2.
(40)	Where a definition for a term used in this licence is sought and the term is not defined within this licence, the definitions provided in the *Environmental Protection Act* 1994, its regulations, and EPPs shall be used.
End of Definitions for Schedule I	
End of Conditions	

Obligations under the *Environmental Protection Act 1994*

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

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

Conditions of environmental authority

Location: 1 Lock Way RIVERVIEW QLD 4303
Lot 2 on SP121057

Relevant activities: ERA 39 Tanning - operating a tannery or facility for tanning, curing or finishing 100t or more of leather products in a year

Previous Permit Numbers - ENRE00461506 and SPDE00195310

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

Schedule A – General

Schedule B - Air

Schedule C – Water

Schedule D – Noise

Schedule E – Water

Schedule F – Waste

Schedule – Definitions

Agency interest: Schedule A: General	
Condition number	**Condition**
A1	**Prevent and/or minimise likelihood of environmental harm** In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.
A2	**Maintenance of measures, plant and equipment** The operator of an ERA to which this approval relates must: (a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and (b) maintain such measures, plant and equipment in a proper and efficient condition; and (c) operate such measures, plant and equipment in a proper and efficient manner.

A3	**Site Based Management Plan** From commencement of an ERA to which this approval relates, a Site Based Management Plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out. The SBMP must address the following matters: a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals; b) Identification of environmental issues and potential impacts; c) Control measures for routine operations to minimise likelihood of environmental harm; d) Contingency plans and emergency procedures for non-routine situations; e) Organisational structure and responsibility; f) Effective communication; g) Monitoring of contaminant releases; h) Conducting environmental impact assessments; i) Staff training; j) Record keeping; and k) Periodic review of environmental performance and continual improvement.
A4	The SBMP must not be implemented or amended in a way that contravenes any condition of this approval.
A5	**Records** Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
A6	All records required by this approval must be kept for 5 years.
A7	**Notification** Telephone the administering authority's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.
A8	**Information about spills** A written notice detailing the following information must be provided to the administering authority within 14 days of any advice provided in accordance with condition **A7**: a) the name of the operator, including their approval / registration number; b) the name and telephone number of a designated contact person; c) quantity and substance released; d) vehicle and registration details; e) person/s involved (driver and any others); f) the location and time of the release; g) the suspected cause of the release; h) a description of the effects of the release; i) the results of any sampling performed in relation to the release; j) actions taken to mitigate any environmental harm caused by the release; and k) proposed actions to prevent a recurrence of the release.
A9	**Monitoring** A person(s) with appropriate experience and/or qualifications must conduct any monitoring required by this approval.
A10	**Equipment calibration** All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

A11	**Trained / Experienced operator(s)** The daily operation of the waste brine water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
A12	**Spill kit** An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site.
A13	**Spill kit training** Anyone operating under this approval must be trained in the use of the spill kit.
Agency interest: Schedule B: Air	
Condition number	**Condition**
B1	**Odour nuisance** The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.
B2	**Dust nuisance** The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.
B3	When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: (a) for a complaint alleging dust nuisance, dust deposition; and (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Schedule C: Land	
Condition number	**Condition**
C1	**Preventing contaminant release to land** Contaminants from activities associated with the hide salting plant to land must not be released to land.
C2	**Containment systems** Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm. NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

Agency interest: Schedule D: Noise	
Condition number	**Condition**
D1	**Emission of noise** Subject to condition **D2**, the emission of noise from the place to which this environmental authority relates must not result in levels greater than: (a) for noises complained of that are not solely caused by or portable mechanical plant, those levels specified in Tables 1 and 2 of the Noise Schedule; and (b) for noise complained of that is caused by portable mechanical plant, those levels specified in Table 2 and 3 of the Noise Schedule.
D2	Condition **D1** applies if: (a) there are complaints to the administering authority about the level of noise form any source in the carrying out of the environmentally relevant activity at the premises to which the approval relates; and (b) The complaints are not frivolous or vexatious or based on mistaken belief.

Schedule D – Table 1

Noise limits at a noise sensitive place.	
Period	Noise level at a noise sensitive place measured as the rating level $L_{Ar,\,T}$.
6 am – 6 pm	43 dB(A) or Background noise level plus 5 dB(A)
6 pm – 10 pm	43 dB(A) or Background noise level plus 5 dB(A)
10pm – 6 am	40 dB(A) or Background noise level plus 5 dB(A)

Schedule D – Table2

Noise limits in terms of maximum dB(A) at noise sensitive places.	
Period	Maximum noise level within a sleeping area of a noise sensitive place measured as the maximum sound pressure level Max LpA,T (Where time period "T" equals 15 minutes)
10pm – 6 am	43

Schedule D – Table 3

Additional noise limits at a noise sensitive place for portable mechanical plant	
Period	Noise level at a noise sensitive place measured as the $L_{A90,\,adj\,T}$. Being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast Response, adjusted for noise characteristics.
6 am – 6 pm	43 dB(A) or Background noise level plus 5 dB(A)
6 pm – 10 pm	43 dB(A) or Background noise level plus 5 dB(A)
10pm – 6 am	40 dB(A) or Background noise level plus 5 dB(A)

D3	In addition to condition **D1**, the holder of this approval must undertake the following measures: (a) Movement of vehicles on the premises must be in adherence to speed limits that minimise generation of noise. Such speed limits must be signposted in prominent locations and an active education and enforcement program must be put in place; (b) Excluding any emergency circumstance, vehicles must not use exhaust brakes on site; (c) Vehicle doors and gates, other gates and doors must be opened and closed in a quiet manner. (d) Clanging of metal and other heavy objects must be avoided; (e) Vehicle washing activities must be undertaken in a manner that minimises the emission of noise; (f) Excluding any emergency circumstance, yelling must not occur so as to be clearly discernable at any noise sensitive place; (g) Where any vehicles are equipped with reversing beepers, the volume of the beeper must be adjusted so as to satisfy workplace health and safety requirements and comply with condition **D1**; (h) Unless approved in writing from the administering authority, doors to all buildings housing noise generating equipment must be kept closed except when necessarily being used for access; and (i) All reasonable and practicable measures must be undertaken to avoid and minimise transmission of clanging, banging and impulsive noises, such as those caused by dropping, clanging and bumping objects.
D4	**Noise monitoring** In the event of a complaint about noise that constitutes annoyance or intrusive noise being made to the administering authority that the administering authority reasonably considers is not frivolous or vexatious or based on mistaken belief, the holder of this approval must undertake monitoring to investigate such a complaint upon written request from the administering authority.
D5	For the purposes of investigating any complaint of noise annoyance and checking compliance with condition **D1** of the noise schedule, monitoring and recording the noise levels from the environmentally relevant activity must be undertaken for at least the following descriptors, characteristics and conditions: (a) LAr, T; (b) LAbg,T (or LA90, T); (c) LAN,T (where N equals statistical levels of 10, 90); (d) Max LpA, T; (e) LAeq, T; (f) The level and frequency of occurrence of impulsive or tonal noise; (g) Atmospheric conditions including temperature, relative humidity and wind speed and direction; and (h) Effects due to extraneous factors such as traffic noise.
D6	In conjunction with the measurement and recording of the noise, the following parameters and conditions must be recorded: (a) Location of sample; (b) Date of sample; and (c) Time of sample.
D7	The method of measurement and reporting of noise levels must comply with the most recent edition of the Noise Measurement Manual published by the Queensland Government from time to time for the purpose of informing people other than authorised persons how to measure environmental noise.
D8	In measuring the noise, the precision of the instrumentation and the variability in measurement technique must be taken into account and this allowance is to be 2 dB(A) in total.
D9	All noise to be measured from the premises must be discernable by aural means in accordance with Australian Standards 1055.1 1997 Sec 3.17.

D10	Measurements must be conducted where possible in calm weather conditions. When conducting noise measurements to determine compliance with the noise limits in Schedule D – Table 1, if a temperature inversion exists or is suspected, then assessment for compliance purposes requires that at least ten (10) separate sampling measurements be conducted over at least five (5) nights, of which compliance must be achieved for at least eighty percent (80%) of the measurements. In the event that the outcome of noise investigations shows that a marginal exceedance of the permit limits in schedule Table 1, namely an exceedance of 2dB(A) or less is measured, then an additional four (4) measurements are to be undertaken at both the background location and receptor premises, either sequentially or contemporaneously. Compliance with the permit will be judged to occur if compliance is measured on at least one measurement.
D11	If insects are a feature of the environment at the time of measurement, the noise due to insects should be excluded by appropriate subtraction from the measured levels.
D12	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and/or qualifications to perform the required measurements.

Agency interest: Schedule E: Water

Condition number	Condition
E1	**Release to waters** Contaminants from activities associated with the hide salting plant must not be directly released from the site to any waters or the bed and banks of any waters.
E2	Contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters.
E3	**Stormwater management** There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.

Agency interest: Schedule F: Waste

Condition number	Condition
F1	All liquid waste streams generated by this activity must be directed to the wastewater treatment plant.
F2	Waste brine from the hide salting must be treated to reduce the saline content prior to discharge to the Waste Water Treatment Plant.
F3	All trimmings and fleshings generated by the activity must be disposed of to the rendering plant within 24 hours of being generated.
F4	**Material storage and handling** Animal matter, including raw materials, end products and waste materials, from any processing of animal matter must not be kept outside any building or enclosed structure or buried on any land defined on the cover sheet of this approval, without the written authorisation of the administering authority.

F5	**Waste Management Plan** The holder of this environmental authority must, as part of this approval, develop and implement a Waste Management Plan (WMP) which details how the holder of this environmental authority will effectively and appropriately manage waste caused by carrying out of the environmentally relevant activity. The WMP must address but should not be limited to the following: (a) each of the waste streams generated by this activity; (b) the method of disposal of each of the waste stream; and (c) methods of pre-treatment or disposal

Agency interest: Schedule - DEFINITIONS

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

"administering authority" means the Department of Environment and Resource Management or its successor.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Sustainable Planning Act 2009*.

"artificial watercourse" means an artificial channel, lake or other body of water. Artificial watercourse includes

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

"background noise level" means either:

$L_{A90,\,T}$ being the A-weighted sound pressure level exceeded for 90 percent measured over a time period of not less than 15 minutes, using Fast Response; or

$L_{Abg,\,T}$ being the arithmetic average of the minimum A-weighted sound pressure level readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast Response.

NOTE: If measurements cannot be made at the affected site due to other dominant noise sources or the noise under investigation, then measurements must be made at a site with similar background levels to the site under investigation. Joseph Brady Park at Barrellan Point is declared to be a suitable similar site for determining background levels and residual levels

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

"dwelling" means any of the following structures or vehicles that is principally used as a residence –

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

"Department of Environment and Resource Management" means the department or agency (whatever called) administering the *Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration –

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.
- In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations.

"$L_{Ar,\,T}$" means the rating level is the equivalent continuous sound pressure level adjusted for noise character over a time period of not less than 15 minutes, using fast response. The rating level is to be calculated as follows:

1. measure all noise including the source noise as the equivalent continuous sound pressure $L_{Aeq,\,T}$. The result is the ambient level (a).
2. measure all noise excluding the source noise, also as the equivalent continuous sound pressure $L_{Aeq,T}$, level by turning off the source noise or measuring at a site with similar background levels in the absence of the source noise under investigation. The residual level (b) is the result of this measurement or 41 dB(A), whichever is higher. (Note level of $L_{Aeq,\,T}$ consistent with a 35 dB(A) background (excluding insect noise) to be inserted as 40 dB(A).)

3. Subtract logarithmically the residual level (b) from the ambient level (a) (i.e. Ambient (a) – log Residual (b) to obtain the component noise level (d)).
4. If noise is tonal add the following penalties to component noise level (d) to obtain the rating level $L_{Ar,T}$.

Noise characteristic	Penalty added to component level (d) to obtain rating level $L_{Ar,T}$.
Tonal characteristic is just audible	+ 2 dB(A)
Tonal characteristic is clearly audible	+ 5 dB(A)

AS1055.1 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 1 – General Procedures.

"$L_{A\ 90,\ adj\ T}$" is the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes; using fast response, adjusted for noise characteristics in accordance with the following table:

Noise characteristic	Penalty added to $L_{A90,T}$ to obtain $L_{A90,\ adj\ T}$.
Tonal characteristic is just audible	+ 2 dB(A)
Tonal characteristic is clearly audible	+ 5 dB(A)
Impulsive characteristic is just audible	+ 2 dB(A)

AS1055.1 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 1 – General Procedures.

"Max $L_{pA\ T}$" means the absolute maximum instantaneous A-weighted sound pressure level attributed to the source when measured over a time period of not less than 15 minutes, using Fast Response. (i.e. without contribution from the ambient noise source).

"noxious" means harmful or injurious to health or physical well being.

"noise sensitive place" for the purpose of this approval includes the type of locations described as being a nuisance sensitive place.

"nuisance sensitive place" includes –

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- 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.

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

"site" means land or tidal waters on or in which it is proposed to carry out the development approved under this development approval.

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

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

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

"waters" includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part-thereof.

"works" or "operation" means the development approved under this development approval.

"you" means the holder of this development approval or owner / occupier of the land which is the subject of this development approval.

END OF CONDITIONS

END OF PERMIT