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: EPPR01728213

This environmental authority takes effect on the day that the delegate signs this document.

The anniversary date of this environmental authority remains the 18th of February.

Environmental authority holder(s)

Name	Registered address
Teys Australia Meat Group Pty Ltd T/A Teys Australia Rockhampton	112-148 Logan River Road HOLMVIEW QLD 4207

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
25-(2c) Meat processing >50000t yr incl rendering **8** (1) Chemical storage – storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 in containers of at least 10 m^3	Lakes Creek Road, North Rockhampton – Lot 145 Plan CP897344, Lot 13&14&15&20 Plan RP608774, Lot 83 Plan CP LN1482, Lot 5 Plan RP900422, Lot 3 Plan RP603491, Lot 1&2 Plan RP603373, Lot 84 Plan CP LN4014, Lot 144 Plan CP897343, Lot 1 Plan CP888744, Lot 1 Plan RP606380, Lot 11&12 Plan RP608774, Lot 2 Plan RP60911, Lot 85&86 Plan CP LN4014, Lot 16&17&19&70 Plan RP608774, Lot 20 Plan CP897347, Lot 1&4 Plan RP810628, Lot 1&3 Plan RP607819, Lot 18 Plan RP608774, Lot 1&8 Plan RP603369, Lot 2 Plan CP LN1547, Lot 7 Plan CP897347, Lot 3 Plan RP608230 and Lot 4 Plan RP603371

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

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

the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

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.

Monitoring and tracking of waste water releases

The adminstering authority requests that the results of water quality monitoring undertaken under this authority be submitted to the Queensland government's Water Tracking and Electronic Reporting System (WaTERS). Information on how to access and use the system is available at <https://www.qld.gov.au/dsitia/about-us/business-areas/monitoring-water-releases/> or by emailing the WaTERS team directly at psd.help@qld.gov.au

Signature	Date
CMooney	16/6/15

Christine Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

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Obligations under the *Environmental Protection Act 1994*

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

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

Location: Lakes Creek Road, North Rockhampton

Lot 145 Plan CP897344, Lot 13 & 14 & 15 & 20 Plan RP608774, Lot 83 Plan CP LN1482, Lot 5 Plan RP900422, Lot 3 Plan RP603491, Lot 1 & 2 Plan RP603373, Lot 84 Plan CP LN4014, Lot 144 Plan CP897343, Lot 1 Plan CP888744, Lot 1 Plan RP606380, Lot 11 & 12 Plan RP608774, Lot 2 Plan RP60911, Lot 85 & 86 Plan CP LN4014, Lot 16 & 17 & 19 & 70 Plan RP608774, Lot 20 Plan CP897347, Lot 1 & 4 Plan RP810628, Lot 1 & 3 Plan RP607819, Lot 18 Plan RP608774, Lot 1 & 8 Plan RP603369, Lot 2 Plan CP LN1547, Lot 7 Plan CP897347, Lot 3 Plan RP608230 and Lot 4 Plan RP603371.

Relevant activity/ies:

25 (2c) Meat processing >50000t yr incl rendering

8 (1) Chemical storage – storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 in containers of at least 10 m^3

Conditions of environmental authority

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:

General	
Condition number	**Condition**
G1	All reasonable and practicable **measures** must be taken to minimise the likelihood of environmental harm being caused.
G2	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicably possible, or at most, within 24 hours of becoming aware of the breach. Records must be kept which detail the breach and any subsequent actions taken.

G3	All information and records that are required by the conditions of this environmental authority must be kept for a period of at least 5 years and provided to the **administering authority** upon request.
G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G5	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G6	All analyses and tests required by this environmental authority must be carried out by a laboratory that has **NATA** certification, or an equivalent certification, for such analyses and tests.
G7	If **you** become aware of any adverse impact on an **environmental value**, **you** must notify the **administering authority** in writing of the full details of the adverse impact within 24 hours of becoming aware of the impact.
G8	The activity must be undertaken in accordance with written procedures that: • identify potential risks to the environment from the **activity** during routine operations and emergencies • establish control **measures** that minimise the potential for environmental harm • ensure plant and equipment is maintained (this includes calibration of all monitoring equipment) and operated in a proper and effective condition • ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994* • ensure that reviews of environmental performance are undertaken at least annually.
G9	The activity must not cause environmental nuisance at a nuisance **sensitive place**.
G10	Storage of chemicals and fuels in bulk or in containers of greater than 15 litres must be within a secondary containment system and releases from the containment system controlled in a manner that prevents environmental harm.

Air

Condition number	**Condition**
A1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity must not cause nuisance beyond the boundary of the approved place.
A2	Emissions from rendering activities must be captured and treated by an appropriately designed and sized treatment system.
A3	Where a biofilter is used to treat rendering emissions, all reasonable and practicable measures must be taken to ensure the biofilter is maintained and operated in a manner which optimises its ability to reduce odour emissions.

A4	Emissions, including combustion gases, released from vents or stacks must achieve sufficient dispersion to prevent environmental harm.
A5	Air contaminants resulting from the operation of the sources described in Schedule 2 – Table 1 must only be released to the atmosphere from those release points specified in Schedule 2 – Table 1.
A6	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 Schedule 3 - Table 1.
A7	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 Schedule 3 – Table 1.
A8	Contaminants must not be released to the atmosphere from a release point specified in Schedule 2 – Table 1, at a concentration in excess of that stated in Schedule 3 - Table 1.
A9	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 parameter specified in Schedule 2 – Table 3 and which complies with the following: (a) Monitoring provision for the release points listed in Schedule 2 – Table 3 must comply with the Australian Standard AS 4323.1 - 1995 "Stationary source emissions Method 1: Selection of sampling provisions". (b) All determinations of contaminant releases to the atmosphere must be made in accordance with methods prescribed in Schedule 2 – Table 3 and the Department of Environment and Heritage Protection (EHP) Air Quality Sampling Manual. If monitoring requirements are not described in Schedule 2 – Table 3 or in the EHP's Air Quality Sampling Manual, monitoring protocols must be in accordance with a method as approved by New South Wales DECCW/EPA, Victorian EPA or United States EPA. (c) All air emission stack monitoring must be conducted by an experienced person or body holding current National Association of Testing Authorities (NATA) accreditation. (d) Where practicable samples taken must be representative of the contaminants discharged when emissions are expected to be at maximum rates. (e) The following tests must be performed for each required determination specified in Schedule 2 – Table 3: (i) gas velocity and volume flow rate; (ii) temperature and oxygen content; and (iii) water vapour concentration.
A10	Biogas must not be released to the atmosphere unless treated by combustion within a steam boiler or enclosed flare.
A11	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 gas is required to be treated; and b) the temperature for the combustion of the biogas by the flare is greater than 760 degrees Celsius.

A12	Visible emissions of flare must not be permitted for more than five minutes in any two hour period.
A13	The quantity of fuel burned in coal-fired boilers in any one hour period is not to exceed 5000 kilograms.
A14	The only fuels permitted for use in coal-fired boilers are coal or natural gas.
A15	The sulphur content of any fuel burned in coal-fired boilers is not to exceed one (1) percent by weight on a monthly weighted average basis.
Water	
Condition number	**Condition**
WT1	Other than as permitted in this environmental authority, contaminants must not be released from the site to any **waters**.
WT2	Contaminants must not be released to groundwater.
WT3	Stormwater contaminated by the activity must be managed to minimise or prevent any adverse impacts on the values of the receiving environment.
WT4	**Treated plant process water** must only be released to surface water from the release points specified, and subject to the limitations described in Schedule 2 - Table 2.
WT5	Monitoring for water quality parameters in **treated plant process water** discharged to surface water from the W2 or W3 release points must be undertaken at the frequencies described in Schedule 2 – Table 5.
WT6	Contaminants must not be released to surface water from the W2 or W3 release points in excess of the concentration and load limits described in Schedule 3 - Table 2.
WT7	The determination of load limits required by condition WT6 must be calculated as follows: Long-term 50th percentile Total nitrogen (kg/week) = (The sum of the daily release volume for the most recent fifty two (52) week period multiplied by the median TN concentration for the most recent fifty two (52) week period) divided by fifty two (52). Total phosphorus (kg/week) = (The sum of the daily release volume for the most recent fifty two (52) week period multiplied by the median TP concentration for the most recent fifty two (52) week period) divided by fifty two (52).
WT8	The daily volume of **treated plant process water** discharged to surface water from the W2 or W3 release points must be determined in accordance with the monitoring requirements described in Schedule 2 – Table 4.

WT9	**You** must arrange for an **appropriately qualified person** to develop and implement a Groundwater Monitoring Program (GMP) to monitor, identify and describe any adverse impacts on groundwater due to potential leakage from the covered anaerobic lagoons and Biolac basin of the wastewater treatment system. The proposed GMP must include periodic monitoring of the potential effects of wastewater on the groundwater environment.
WT10	The GMP must be prepared and submitted for review to the administering authority within 6 months of issuing this environmental authority. **You** must take due consideration of any comments provided by the administering authority through revision of the GMP document. The most current version of the GMP must be made available upon request to the administrating authority, or any other government agency acting on behalf of the administering authority.
WT11	A GMP Report outlining the findings of the program, including all monitoring results and interpretations must be prepared annually and made available upon request to the administering authority, or any other government agency acting on behalf of the administering authority.
WT12	If **you** give or transfer ownership of the treated plant process water to another person(s) ("the third party"), **you** must- a) prior to giving such treated plant process water or transferring ownership of such treated plant process water, obtain from the third party details of how the third party will comply with the general environmental duty (GED) provided for by section 319 of the Environmental Protection Act 1994 in respect of the use and disposal of such treated plant process water, particularly in relation to the environmental sustainability of any disposal of such treated plant process water, protection of public health and protection of environmental values of water; and b) only give or transfer ownership of such treated plant process water in accordance with a written agreement between the person undertaking the activity to which this environmental authority relates and the third party (the "third party agreement"); c) include, in any third party agreement, the provision that supply of treated plant process water may be discontinued at any time if the supplier reasonably believes that the third party is utilising treated plant process water in a way that may cause environmental harm, or is otherwise not complying with the GED; and d) if the person becomes aware that the person is not or is not likely to comply with the general environmental duty provided by section 319 of the Environmental Protection Act 1994, cease the giving and transferring ownership of such treated plant process water. *Note 1: Any recycled water management plan approved under the* Water Supply (Safety and Reliability) Act 2008 *that fulfils the above requirements is deemed to achieve compliance with this condition.*
WT13	6 months from the commissioning of the new wastewater treatment plant, a **receiving environment monitoring program** must be designed and implemented by an **appropriately qualified person(s)** to monitor the effects of the **activity** on waters described as Lakes Creek and the affected area of the Fitzroy River.

WT14	The **receiving environment monitoring program** required by **condition WT13** should focus on near field impacts and must address at least the following: a. description of potentially affected receiving **waters** including key communities and background water and sediment quality characteristics based on accurate and reliable monitoring data that takes into consideration any temporal variation (e.g. seasonality); and b. description of applicable **environmental value**s and sediment and water quality objectives to be achieved; and c. any relevant reports prepared by other governmental or professional research organisations that relate to the receiving environment within which the Receiving Environment Monitoring Program is proposed; and d. water and sediment quality targets within the receiving environment to be achieved, and clarification of contaminant concentrations or levels indicating adverse environmental impacts during the monitoring program.
WT15	Alternatively, **you** will be deemed to have met the requirement of condition WT13 if you become and remain *a participating member* in the water quality strategies and monitoring programs relevant to the receiving environment and are endorsed in writing by the administering authority.
WT16	**You** will be considered by the administering authority to be *a participating member* in regional studies in the following situations: i. you are a contributing member, to the regional studies of water quality and ecosystem health; and ii. you are identified as *a contributing member* in a written statement to the administering authority from the authority carrying out the regional studies.
Agency interest: Noise	
Condition number	**Condition**
N1	Noise from the **activity** must not occur from blasting or include **substantial low frequency noise** components and must not exceed the levels identified in Schedule 3 – Table 4 and the associated requirements at any nuisance **sensitive place** or **commercial place**.
Land	
Condition number	**Condition**
L1	Other than as permitted in this environmental authority, contaminants must not be released from the site to land.
L2	The only contaminants to be released to land are in **treated plant process water** from the release point specified in Schedule 2 - Table 2.
L3	Monitoring must occur for the water quality parameters described, and at the monitoring frequency described in Schedule 2 – Table 6.

L4	Water quality parameters described in Schedule 2 – Table 6 and released to land in accordance with condition L2 must be released in accordance with the release limits described in Schedule 3 – Table 3.
L5	The daily volume of **treated plant process water** discharged to land from the W1 release point must be determined in accordance with the monitoring requirements described in Schedule 2 – Table 4.
L6	**Treated plant process water** is permitted to be irrigated to land provided that it is undertaken in accordance with a written procedure to ensure that: a) irrigation areas of sufficient area are identified and provided for its application; b) it is applied at a loading rate that can be assimilated by the irrigation area; c) infiltration to groundwater and subsurface flows of contaminants to surface waters are prevented; d) surface pondage and run-off is prevented; e) degradation of soil structure is minimised; f) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; g) spray drift or overspray do not carry beyond **treated plant process water** disposal areas; h) irrigation areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; i) the crop on the irrigation area is harvested and removed from the area.
L7	When weather conditions or soil conditions preclude irrigating **treated plant process water** onto designated land, **treated plant process water** must be discharged to surface water in accordance with the conditions in this environmental authority, maintained in wet weather storage or be lawfully removed from the site.
Waste	
Condition number	**Condition**
WS1	Waste must only be removed from the site by a transporter lawfully able to transport it and to a place lawfully able to receive it.
WS2	Waste must not be released to the environment, stored, transferred or disposed contrary to any condition of this environmental authority.
WS3	**You** must not: a) allow waste to burn or be burned at the licenced place; nor b) remove waste from the licenced place and burn such waste elsewhere.

WS4	Where regulated waste is removed from the licenced place (other than by a release as permitted in this environmental authority), **you** must monitor and record the following: (a) the date, quantity and type of waste removed; and (b) name of the waste transporter and/or disposal operator that removed the waste; and (c) the intended treatment/disposal destination of the waste. (NOTE: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition).
WS5	**You** must ensure that only a transporter possessing a current licence granted by the **administering authority** for the transport of regulated waste shall be used for the removal of regulated waste from the facility.
WS6	If **you** become aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or is unlawful, then **you** must notify the **administering authority** as soon as practicable.

Definitions

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

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

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

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

Biannual means twice in any year, and separated as close as practicable by a period of six months.

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

Continuous monitoring means the use of automatic monitoring and recording instrumentation where data is logged at regular intervals, with a minimum data capture rate of 80%.

Environmental value (the Act) is—

a) a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
b) another quality of the environment identified and declared to be an **environmental value** under an environmental protection policy or regulation.

Long-term 50th percentile means the median value of the measured values in ranked order of the quality characteristic is not to exceed the stated release limit for any fifty two (fifty two) consecutive samples where:

i. the consecutive samples are taken over a fifty two (52) week period;
ii. the consecutive samples are taken at approximately equal periods; and
iii. the time interval between the taking of each consecutive sample is not less than six (6) days.

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

NATA is the National Association of Testing Authorities

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.

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

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

Release of a contaminant into the environment means to:

1. deposit, discharge, emit or disturb the contaminant; and
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed; and
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed; and
4. allow the contaminant to escape; and
5. fail to prevent the contaminant from escaping.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
6. a public thoroughfare, park or gardens; or
7. for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008*.

Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurements, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a noise sensitive place exceeding 55 dB(Z).

Treated plant process water means effluent that exits the wastewater treatment plant following treatment.

Total Nitrogen means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, which must be reported separately, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

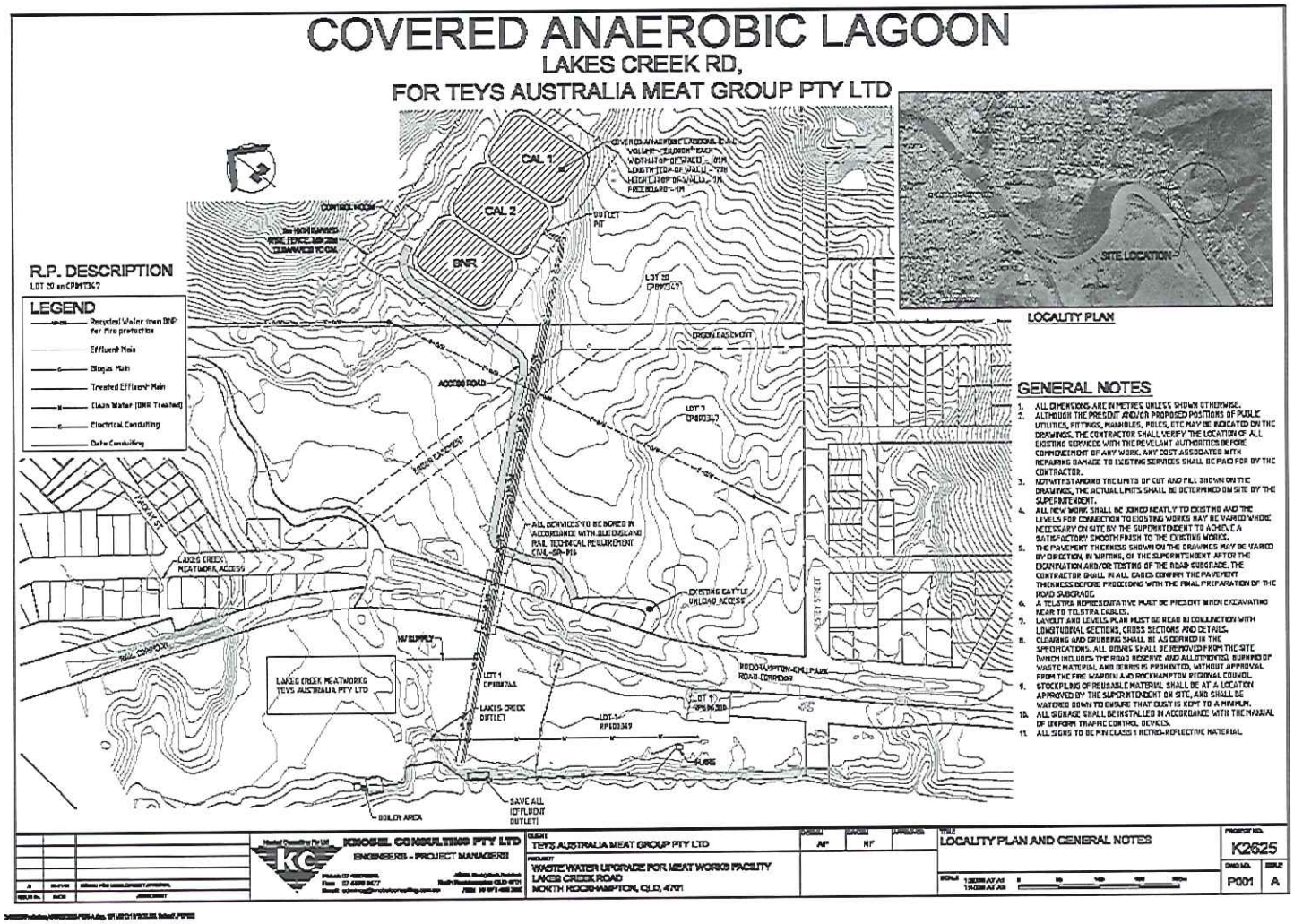
Total Phosphorus means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of phosphorus. This includes both the inorganic and organic fraction of phosphorus

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.

You means the holder of the environmental authority.

Schedules:

Schedule 1—Approved plans



Schedule 2— Monitoring

Table 1 –Air contaminant release points

Release Point	Source of Release	Monitoring Location (Decimal degrees)	
		Latitude	Longitude
RP1 – Coal-fired boiler stack	Coal-fired boilers No. 1 & 2	-23.381564°	150.560323°
RP2 – Biogas boiler stack	Biogas boiler	-23.381410°	150.560262°
RP3 – Biogas flare stack	Biogas flare	-23.378204°	150.565767°
RP4 – Blood drier furnace stack	Blood drier furnace	-23.380908°	150.561101°

Table 2 – Release points for treated plant process water

Release Point	Description	Limitation	Monitoring Location (Decimal degrees)	
			Latitude	Longitude
W1	Pipe outlet at holding pond No. 3	Not applicable	-23.381881°	150.561073°
W2	Outlet at holding pond No. 3 to the open channel through a mangrove region to the Fitzroy River	Releases are permitted from this point only until the wastewater treatment plant is commissioned[1]	-23.414850°	150.590181°
W3	Pipe outlet from BNR plant at confluence between Lakes Creek and Fitzroy River	Releases must occur at this point following the commissioning of the wastewater treatment plant[1]	-23.381835°	150.561074°

[1] The wastewater treatment plant is being installed and commissioned under transitional environmental program certificate of approval number MAN15080.

Table 3 – Required release point determinations

Release point numbers	Monitoring points	Determination required	Monitoring specifications	Frequency
RP1 - Coal fired boiler stack	Coal-fired boiler #1 outlet duct prior to the common stack	Mass emission rate and concentration of Particulates	Australian Standard AS4323.2 (Method 2) - 1995	Stacks must be monitored within 3 months of commissioning the plant and **biannually** thereafter.
	Coal-fired boiler #2 outlet duct prior to the common stack	Mass emission rate and concentration of Particulates	Australian Standard AS4323.2 (Method 2) - 1995	
RP2 – Biogas boiler stack	-	Mass emission rate and concentration of Oxides of Nitrogen	USEPA Method 7E	
	-	Mass emission rate and concentration of Hydrogen Sulphide	USEPA Method 15	
RP3 – biogas flare stack	-	Flare temperature	Inline instrumentation	Continuous monitoring

Table 4 – Reporting requirements for treated plant process water discharged to land and water

Release point	Unit	Monitoring method
W1	Cubic metres per day	**Continuous monitoring**
W2	Cubic metres per day	**Continuous monitoring**[1]
W3	Cubic metres per day	**Continuous monitoring**[2]

[1] Continuous monitoring is to cease at the W2 discharge point when the W3 discharge point is used after commissioning the wastewater treatment plant being constructed under transitional environmental program certificate of approval number MAN15080.

[2] Continuous monitoring is to commence at the W3 discharge point coincident with commissioning the wastewater treatment plant being constructed under transitional environmental program certificate of approval number MAN15080.

Table 5 –Monitoring frequency for contaminants released in treated plant process water to surface water

Water quality parameter	Monitoring frequency
5-day biochemical oxygen demand (BOD_5)	**Weekly**
Suspended solids	**Weekly**
pH	**Weekly**
Dissolved oxygen	**Weekly**
Ammonia	**Weekly**
Total nitrogen	**Weekly**
Total phosphorus	**Weekly**
Oil and grease	**Weekly**

Table 6 –Monitoring frequency for contaminants released in treated plant process water to land

Water quality parameter	Monitoring frequency
5-day Biochemical Oxygen Demand (BOD_5)	**monthly**
Dissolved oxygen	**monthly**
pH	**monthly**
Oil and grease	**monthly**

Schedule 3 — Release limits

Table 1 – Air emissions release limits

Release point number	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit
RP1- Coal-fired boiler stack	40	9.2	Particulates	250 mg/Nm^3 dry at 12% CO_2[1]
RP2 – Biogas boiler stack	8	Not applicable	Oxides of Nitrogen	350 mg/Nm^3 (dry) at 3% O_2[1]
			Hydrogen Sulphide	5 mg/Nm^3 (dry) at 3% O_2[1]
RP3 – Biogas flare stack	9.3	Not applicable	Not applicable	Not applicable
RP4 – Blood drier furnace stack	16	8	Not applicable	Not applicable

[1]The emission limits in this table are based on the NSW DECCW (ex EPA) document: *Protection of the Environment Operations (Clean Air) Regulation:* http://www.legislation.nsw.gov.au/sessionalview/sessional/sr/2010-428.pdf

Table 2 – Surface water quality release limits

Water quality parameter	Release point	Release limit	Limit type
5 day Biochemical Oxygen Demand -BOD_5 (mg/L)	W2 & W3	20	maximum
Suspended solids (mg/L)	W2 & W3	50	maximum
pH	W2 & W3	6.5 - 8.5	range
Dissolved oxygen (mg/L)	W2 & W3	2	minimum
Ammonia-N (mg/L as Nitrogen))	W2 & W3	10	maximum
Total Nitrogen (kg/week)	W2 & W3	800	long-term 50th percentile
Total Phosphorous (mg/L as Phosphorus)	W2 & W3	40	Maximum
Total Phosphorous (kg/week)	W2 & W3	1000	long-term 50th percentile
Oil and grease (mg/L)	W2 & W3	10	Maximum

Table 3 – Land application water quality release limits

Water quality parameter	Release point	Release limit	Limit type
5-day Biochemical Oxygen Demand -BOD_5 (mg/L)	W1	25	maximum
Dissolved oxygen (mg/L)	W1	2	minimum
pH	W1	6.5 – 8.5	range
Oil & grease (mg/L)	W1	15	maximum

Table 4 – Noise limits

Noise level measured in dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am-6pm	6pm-10pm	10pm-7am	9am-6pm	6pm-10pm	10pm-9am
	Noise measured at a nuisance **sensitive place**					
$L_{Aeq\ adj,T}$	Background +5	Background +3	Background +0	Background +5	Background + 3	Background + 0
$MaxL_{pA,T}$	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
	Noise measured at a **commercial place**					
$L_{Aeq\ adj,T}$	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
$MaxL_{pA,T}$	Background +15	Background +13	Background +10	Background +15	Background +13	Background +10

END OF PERMIT