

Permit

Environmental Protection Act 1994

Environmental authority EPPR00944013

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

Environmental authority number: EPPR00944013

Environmental authority takes effect on the date it is signed by the delegate.

The anniversary date of this environmental authority remains **4 March** every year. The payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

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

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 08 - Chemical Storage - 1 - Storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 under subsection (1)(a)	1514 Cockburn Road, Purrawanda QLD 4356 Lot 2 on Plan SP308316 Lot 3 on Plan SP308316 Lot 1 on Plan SP308316 Lot 6 on Plan SP308316
ERA 25 - Meat Processing - 2(c) - Processing, including rendering, in a year, the following quantity of meat or meat products - more than 50,000t	
ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	

Additional information for applicants

Environmentally relevant activities

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

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

The anniversary day of this environmental authority is the same day each year as the original take effect date unless you apply to change the anniversary day. The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 April.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the

additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

24 April 2023

Date

Calvin Quick

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

Enquiries:

Utilities and Government Organisations Assessment
Department of Environment and Science
GPO Box 2454 BRISBANE QLD 4001
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Privacy statement

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@des.qld.gov.au or telephone 13 74 68.

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)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. If you are unsure that you have the most current version of the environmental authority relating to this site please visit <https://apps.des.qld.gov.au/env-authorities/> to access all environmental authorities currently approved.

Conditions of environmental authority

Environmentally relevant activity/activities	Location(s)
ERA 08 - Chemical Storage - 1 - Storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 under subsection (1)(a)	1514 Cockburn Road, Purrawanda QLD 4356 – Lot 2 on Plan SP308316, Lot 3 on Plan SP308316, Lot 1 on Plan SP308316 and Lot 6 on Plan SP308316.
ERA 25 - Meat Processing - 2(c) - Processing, including rendering, in a year, the following quantity of meat or meat products - more than 50,000t	
ERA 63 - Sewage Treatment - 1(b-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	

The environmentally relevant activities conducted at the locations as described above must also be conducted in accordance with the site-specific conditions as mentioned in this permit.

Agency interest: General	
Condition number	Condition
G1	All reasonable and practicable measures must be taken to prevent or minimise the environmental harm caused by the activities.
G2	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G4	All records must be kept for a period of at least five years and provided to the administering authority upon request.
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 required under this environmental authority must be carried out by a laboratory that has NATA certification, or an equivalent certification, for such analyses.
G7	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority to investigate a complaint of environmental nuisance arising from the activity. The monitoring results must be provided within 10 business days to the administering authority upon its request.
G8	The activity must be undertaken in accordance with written procedures that:

	(a) identify potential risks to the environment from the activity during routine operations and emergencies; and (b) establish and maintain control measures that minimise the potential for environmental harm; and (c) ensure plant, equipment and measures are maintained in a proper and effective condition; and (d) ensure plant, equipment and measures are operated in a proper and effective manner; and ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and (e) ensure that reviews of environmental performance are undertaken at least annually.
G9	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.
G10	A receiving environment monitoring program must be designed and implemented by appropriately qualified persons to monitor the effects of the activity on soil and subsoil, and groundwater.
G11	The receiving environment monitoring program required by condition G10, must include at least the following: (a) A soil and subsoil assessment including types, structure, nutrient status, salinity and sodicity, cation exchange capacity and sodium absorption ratio (SAR) of the irrigation area, to be carried out at no less than six representative sites on an annual basis. (b) Plant analysis to assess nutrient export is to be carried out on an annual basis. (c) Groundwater monitoring (in accordance with the current edition of the administering authority's Monitoring and Sampling Manual) that determines the existence and rate of infiltration of effluent that has been irrigated to land, and potential or actual impacts on groundwater from such infiltration to be carried out on an annual basis at not less than three locations near treatment ponds and the irrigation area. This must include assessment of the following parameters: i. pH ii. electrical conductivity iii. total dissolved solids iv. ammonia v. total nitrogen vi. total phosphorus (as P) vii. faecal coliforms (d) Reassessment, if necessary, of the irrigation to land to ensure sustainable use of the irrigation area. This must include modelling of the water balance and irrigation rate and return period.
Agency interest: Air	
Condition number	Condition
A1	Odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .
A2	Contaminants must only be released to air from the point source(s) in accordance with <i>Table 1 – Point Source Air Release Limits</i> and the associated requirements.

Table 1 – Point Source Air Release Limits

Authorised Release Point Description GDA2020 MGA2020			Contaminant	Minimum Release Height (m)	Minimum Velocity m/sec)	Minimum Temperature (°C)	Maximum Release Limit	Monitoring Frequency
Release Point	Latitude	Longitude						
Erie Works Boiler (RP1)	- 27.53055	151.62338	Nitrogen Oxides (NO _x)	12	7	-	350 mg/Nm ³ at 3% O ₂	Within 3 months of commissioning the plant, after 6 months of commissioning the plant, and annually thereafter
			Carbon monoxide (CO)				125 mg/Nm ³ at 3% O ₂	
			Sulphur dioxide (SO ₂)				200 mg/Nm ³ at 3% O ₂	
			Hydrogen sulphide (H ₂ S)				5 mg/Nm ³ at 3% O ₂	
East Coast Steam Boiler (RP2)	-27.53060	151.62343	-	10	7	-	-	-
Cookhouse Exhaust (RP3)	-27.53085	151.62351	-	12	6	-	-	-
Blood Drier (RP4)	-27.53079	151.62364	-	12	11	-	-	-
Biogas Flare (RP5)	-27.52956	151.62378	Nitrogen Oxides (NO _x)	-	-	760	350 mg/Nm ³ at 3% O ₂	Within 3 months of commissioning the plant, after 6 months of commissioning the plant, and annually thereafter
			Carbon monoxide (CO)				125 mg/Nm ³ at 3% O ₂	
			Sulphur dioxide (SO ₂)				200 mg/Nm ³ at 3% O ₂	
			Hydrogen sulphide (H ₂ S)				5 mg/Nm ³ at 3% O ₂	

Associated requirements

1. The only type of fuel to be burned at the source description of RP2, RP3 and RP4, except during light up, is natural gas.
2. The only types of fuel to be burned at the source description of RP1 and RP5, except during light up, is natural gas or biogas.
3. Monitoring must be taken when emissions are expected to be representative of actual operating conditions for the sample frequency period.
4. Contaminants released must be directed vertically upwards without any impedance or hindrance.
5. Monitoring must be in accordance with the most recent edition of the **administering authority's Air Quality Sampling Manual**.

	6. Sulphur dioxide (SO₂) maximum release limits for both RP1 and RP5 apply after 6 months of commissioning the plant. 7. 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; and (iii) water vapour concentration. 8. During the sampling period the following additional information must be gathered: (i) percentage of biogas combusted in the boiler at the time of sampling; (ii) any typical factors that may influence air pollutant emissions; and (iii) reference to the actual test methods and accuracies.																																
Agency interest: Water																																	
Condition number	Condition																																
WT1	Contaminants must not be released to any waters .																																
Agency interest: Noise																																	
Condition number	Condition																																
N1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .																																
Agency interest: Land																																	
Condition number	Condition																																
L1	Other than as permitted within this environmental authority, contaminants must not be released to land .																																
L2	The only contaminants to be released to land are treated wastewater and collected stormwater in accordance with the <i>Table 2 – Treated effluent release limits to irrigation area</i> and the associated requirements. Table 2 – Treated effluent release limits to irrigation area <table><tr><th>Quality Characteristics</th><th>Units</th><th>Sampling and In-Situ Monitoring Points</th><th>Monitoring Frequency</th></tr><tr><td>pH</td><td>pH scale</td><td>W1</td><td>Quarterly</td></tr><tr><td>Total Nitrogen (as Nitrogen)</td><td>mg/L</td><td>W1</td><td>Quarterly</td></tr><tr><td>Total Phosphorus (as Phosphorus)</td><td>mg/L</td><td>W1</td><td>Quarterly</td></tr><tr><td>Faecal Coliforms</td><td>CFU/100mL</td><td>W1</td><td>Quarterly</td></tr><tr><td>Sodium Adsorption Ratio</td><td>calculated</td><td>W1</td><td>Quarterly</td></tr><tr><td>Total Dissolved Salts (calculated)</td><td>mg/L</td><td>W1</td><td>Quarterly</td></tr><tr><td>Specific Conductance or Electrical Conductivity</td><td>µS/cm</td><td>W1</td><td>Quarterly</td></tr></table>	Quality Characteristics	Units	Sampling and In-Situ Monitoring Points	Monitoring Frequency	pH	pH scale	W1	Quarterly	Total Nitrogen (as Nitrogen)	mg/L	W1	Quarterly	Total Phosphorus (as Phosphorus)	mg/L	W1	Quarterly	Faecal Coliforms	CFU/100mL	W1	Quarterly	Sodium Adsorption Ratio	calculated	W1	Quarterly	Total Dissolved Salts (calculated)	mg/L	W1	Quarterly	Specific Conductance or Electrical Conductivity	µS/cm	W1	Quarterly
	Quality Characteristics	Units	Sampling and In-Situ Monitoring Points	Monitoring Frequency																													
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	Specific Conductance or Electrical Conductivity	µS/cm	W1	Quarterly																													

	Exchangeable Cations	mg/L	W1	Quarterly
	Associated Requirements - Monitoring must be undertaken at the frequency specified in Table 2. - Water quality monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's <i>Monitoring and Sampling Manual 2009 V2</i>. - Samples must be representative of the release. - W1 is defined as areas identified on site where irrigation may occur in a sustainable manner in accordance with condition L5 (the irrigation area).			
L3	The controlled release of treated/settled stormwater must be conducted in a way and at a rate that does not cause: - re-suspension of particles; or - erosion of bed or banks of receiving waters; or - landscape damage; or - ponding of the water; or - vegetation damage.			
L4	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorised place must be constructed, 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 ground water); - so that a freeboard of not less than 500mm for the Anaerobic Ponds are maintained at all times, except in emergencies; and - so as to ensure the stability of the ponds' construction.			
L5	Treated effluent is permitted to be released to land provided that it is done in accordance with a written procedure that ensures; - infiltration to groundwater and subsurface flows of contaminants to surface waters are prevented; - degradation of soil structure is minimised; - soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; - spray drift or overspray do not carry beyond effluent disposal areas; - effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; and - the crop on the disposal area is harvested and removed from the disposal area.			
L6	When weather conditions or soil conditions preclude the release of effluent to land, effluent must be directed to wet weather storage or be lawfully removed from the site.			
Agency interest: Waste				
Condition number	Condition			
W1	Other than effluent released to land as permitted within the environmental authority, all waste generated in carrying out the activity must be reused, recycled or lawfully disposed of offsite.			
W2	Incompatible wastes must not be mixed in the same container or waste storage area.			

W3	Waste being treated must be lawfully treated to render it less hazardous and be fit for its intended use or disposal.
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Definitions

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

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

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

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

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

Incompatible waste means waste that may chemically react when

- (a) placed in proximity to other wastes; and/or
- (b) mixed with other wastes.

Land does not include waters.

Measures has the broadest interpretation and includes:

- (a) Procedural measures such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines
- (b) Physical measures such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.

NATA means National Association of Testing Authorities,

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment means to:

- (a) deposit, discharge, emit or disturb the contaminant
- (b) cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- (c) fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- (d) allow the contaminant to escape
- (e) fail to prevent the contaminant from escaping,

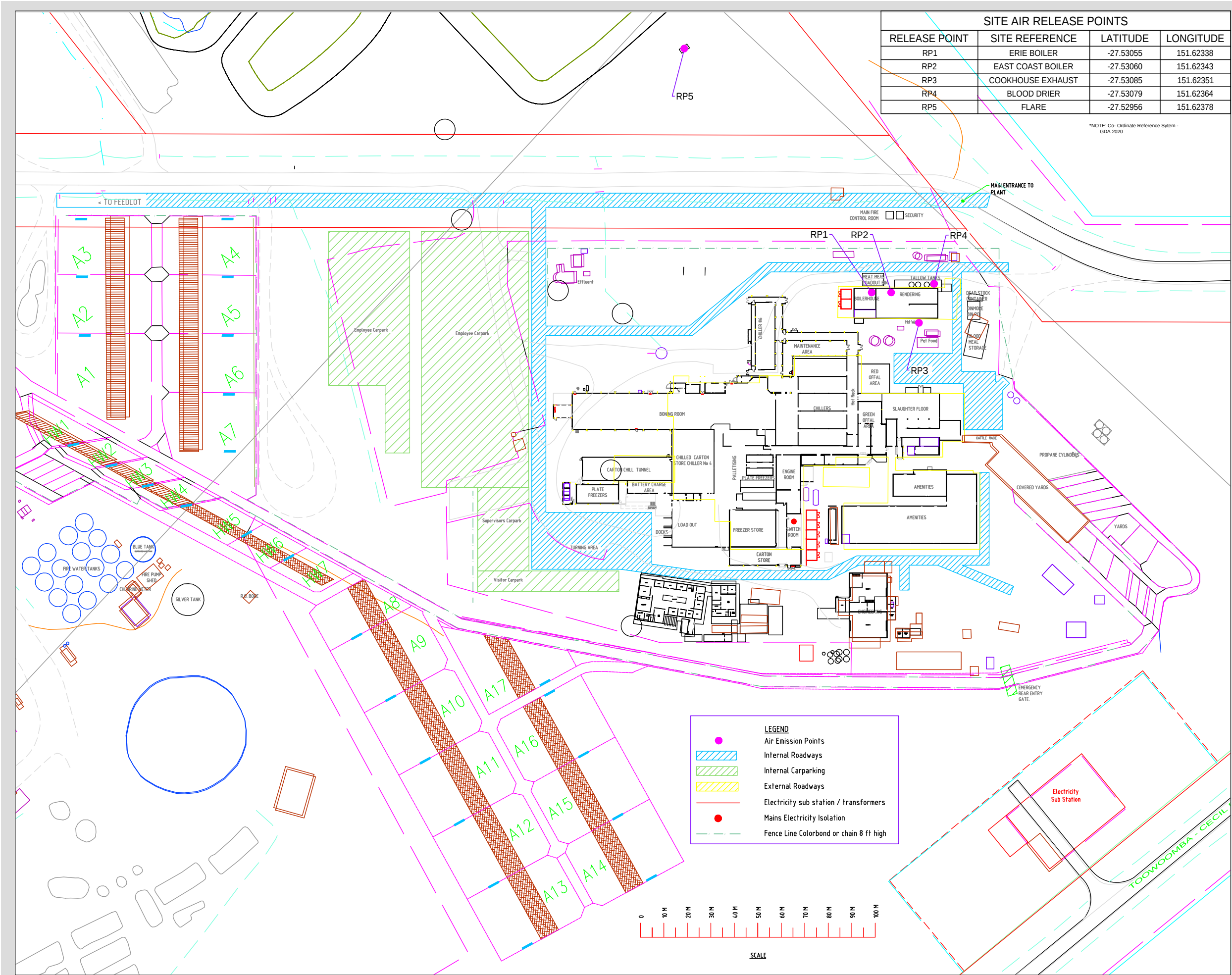
Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

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

- (a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential
- (b) premises; or
- (c) a motel, hotel or hostel; or
- (d) a kindergarten, school, university or other educational institution; or
- (e) a medical centre or hospital; or
- (f) a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World
- (g) Heritage Area; or
- (h) a public park or garden; or

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.

END OF ENVIRONMENTAL AUTHORITY



SITE AIR RELEASE POINTS			
RELEASE POINT	SITE REFERENCE	LATITUDE	LONGITUDE
RP1	ERIE BOILER	-27.53055	151.62338
RP2	EAST COAST BOILER	-27.53060	151.62343
RP3	COOKHOUSE EXHAUST	-27.53085	151.62351
RP4	BLOOD DRIER	-27.53079	151.62364
RP5	FLARE	-27.52956	151.62378

*NOTE: Co-Ordinate Reference Sytem - GDA 2020

Date Issue Amendment Init Appr

JBS AUSTRALIA PTY LTD



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Project

ENVIRONMENTAL

FOR
JBS AUSTRALIA
BEEF CITY PROCESSING
PLANT
AT
CECIL PLAINS ROAD,
PURRAWUNDA, QLD 4350.

Drawing Title

AIR EMISSION POINTS

Scales 1:50 (A1) 1:100 (A3)

Drawn B.Wills Date 29.09.22

Approved W.Green Designed

Project No.

BFC-43-100

Drawing No.

SHEET 1

Issue