Permit

Environmental Protection Act 1994

Environmental authority EPPR01578413

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

Environmental authority number: EPPR01578413

Environmental authority takes effect on 30 August 2022.

The anniversary date of this environmental authority is 1 April each year.

Environmental authority holder(s)

Name(s)	Registered address
James Hardie Australia Pty Ltd	Suite 1, Level 20 60 Castlereagh Street SYDNEY NSW 2000 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 15 - Fuel burning: Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour ERA 33 - Crushing, milling, grinding or screening: Crushing, grinding, milling or screening more than 5000t of material in a year	1-35 Cobalt St, Carole Park, Ipswich City, 4300 Lot 108 on SL7249

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).

Queensland Government

Contaminated land

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

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

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

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

Take effect

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

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority – on the nominated day; or

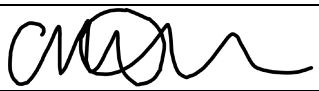
b) if the authority states a day or an event for it to take effect – on the stated day or when the stated event happens; or

c) otherwise – on the day the authority is issued.

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

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

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

30 August 2022

Date

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

Enquiries:
Energy and Extractive Resources Business Centre
GPO Box 2454, Brisbane, QLD, 4001
Phone: (07) 3330 5715
Email: EnergyandExtractive@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

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

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

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. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Agency interest: General	
Condition number	**Condition**
G1	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 including full details of the breach and any subsequent actions taken.
G2	The crushing, screening or grinding activity conducted under this environmental authority must not exceed more than 170,000 tonnes per annum.
G3	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
G4	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; b) establish and maintain control measures that minimise the potential for environmental harm; c) ensure plant, equipment and measures are maintained in a proper and effective condition; d) ensure plant, equipment and measures are operated in a proper and effective manner; e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and f) ensure that reviews of environmental performance are undertaken at least annually.
G5	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.
G6	An appropriately qualified person(s) must monitor, interpret and record all quality indicators in the manner required by any condition of this environmental authority and any associated monitoring requirements.
G7	All analysis and tests required under this approval must be carried out by a laboratory that has NATA or equivalent certification for such analysis and tests.
G8	Storage of chemicals and fuels in bulk or in containers of greater than 15 litres must be within a secondary containment system.

Agency interest: Air

Condition number	Condition
A1	Odours or airbourne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any nuisance sensitive place or commercial place.
A2	The only contaminants to be released to air are contaminants from release points and sources in accordance with *Table 1 – Air release limits* and the associated monitoring requirements.

Table 1 – Air release limits

Release Point (RP) or Monitoring Point (MP) Name	Minimum monitoring frequency	Minimum release height (m)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit	Minimum temperature (°C)
Release Point No. 1A & 1B Boiler Stack	Stacks must be monitored within three (3) months of commissioning of the boiler and annually thereafter for at least one boiler, so that both boilers are monitored biennially (i.e. every other year).	14	6	Oxides of Nitrogen (as NO_2)	350 mg/Nm^3 (dry) at 3% O_2	70
				Carbon Monoxide (CO)	125 mg/Nm^3 (dry) at 3% O_2 (see Note 1)	
				Volatile Organic Compounds (VOC as n-propane equivalent)	40 mg/Nm^3 (dry) at 3% O_2 (see Note 1)	
Release Points No. 2 - 3 Gas Fired Dryers	Not applicable	3 m above the roof	10	Not applicable	Not applicable	200
Release Points No. 9 - 13 Finishing Line Bag Filters – (each release point/stack separately)	Annually	14	10	Total Suspended Particulates (TSP)	50 mg/Nm^3	Not applicable
				PM_{10}	25 mg/Nm^3 and 0.10 g/s	
Release Point No. 15 Finishing Line Bag Filters – (each release point/stack separately)	Annually	14	10	Total Suspended Particulates (TSP)	50 mg/Nm^3	Not applicable
				PM_{10}	25 mg/Nm^3 and 0.27 g/s	

	Release Points No. 16 - 25 Autoclave vents	Not applicable	7	12	Not applicable	Not applicable	95
	Release Points No. 26 - 40 Autoclave fugitive tophats	Not applicable	5	0.5	Not applicable	Not applicable	95

Note 1: The holder of this environmental authority must demonstrate compliance with either the CO or the VOC release limit.

Note 2: The location of the release points in *Table 1 – Air release limits* are displayed in *Schedule 2 – Air release point locations*.

Associated monitoring requirements

1. The release of contaminants from a point source must be directed vertically upwards without any impedance or hindrance.
2. Monitoring must be undertaken during a release and at the authorised release points, frequency and for the contaminants specified in *Table 1 – Air release limits*.
3. Monitoring must be undertaken when emissions are expected to be representative of actual operating conditions for the sample period.
4. All monitoring devices must be effectively calibrated and maintained in accordance with the manufacturer's instructions and Australian and international standards.
5. Air Monitoring must be in accordance with the current edition of the administering authority's Air Quality Sampling Manual. If monitoring requirements are not described in the department's Air Quality Sampling Manual, monitoring protocols must be in accordance with a method as approved by New South Wales EPA, Victorian EPA or United States EPA.
6. Monitoring provisions for the release points listed in *Table 1 – Air release limits* must comply with the Australian Standard AS 4323.1-1995 "Stationary source emissions Method 1: Selection of sampling provisions".
7. All air emission stack monitoring must be conducted by an experienced person or body which holds current National Association of Testing Authorities (NATA).
8. The following tests must be performed for each required determination specified in *Table 1 – Air release limits*:
   (i) gas velocity and volume flow rate;
   (ii) temperature and oxygen content; and
   (iii) water vapour concentration.
9. During the sampling period the following additional information must be gathered:
   a. boiler operating load (as percentage of the total capacity) at the time of sampling;
   b. any typical factors that may influence air pollutant emissions;
   c. reference to the actual test methods and accuracy's.

A3	The only type of fuel to be burned in the boilers (Release Points No. 1A and No. 1B) is natural gas. The boilers are limited to operate at either: a) one boiler at 100% capacity; or b) both boilers operating at 60% capacity.

A4	The only type of fuel to be burned in the dryers (Release Points No. 2–3) is natural gas.
A5	All contaminants leaving Release Points No. 9–15 must be treated in fabric filter dust collectors (FFDC) prior to leaving these release points.
A6	Only two (2) autoclaves can blowdown into a blowdown vessel at any given time and only two (2) autoclave vents can discharge at any given time.

Agency interest: Noise

Condition number	**Condition**
N1	The person undertaking the activity to which this approval relates must not cause or permit the release of noise from the activity to which this environmental authority relates if the noise causes, or is likely to cause, an environmental nuisance at or beyond the boundary of the approved place.
N2	Noise from the activity must not exceed the levels identified in *Table 2 – Noise limits* and the associated requirements at the locations identified at the boundary of the site. The position of these monitoring locations is included within *Schedule 1 – Approved plan, Map 1: Approximate noise monitoring locations.*

Table 2 – Noise limits

Location (GDA94)		**Boundary Noise Limit at Corner of James Hardie Site**					
		Northern	**Eastern**	**Southern**	**Western**	**South East**	**South West**
Longitude		152.9299	152.9325	152.9257	152.9238	152.9277	152.9253
Latitude		-27.6157	-27.6185	-27.6217	-27.6208	-27.6208	-27.6209
Time Period	**Metric-dB(A)**						
7:00am-6:00pm	$L_{Aeq,adj,15min}$	53	52	56	55	68	57
6:00pm-10:00pm	$L_{Aeq,adj,15min}$	53	52	56	55	68	57
10:00pm-6:00am	$L_{Aeq,adj,15min}$	53	52	56	55	68	57
	$MaxL_{pA,adj,15min}$	58	57	61	60	73	62

Note: The compliance noise level must be measured as the component noise level.

N3	If directed by the administering authority or an authorised person, noise monitoring, which addresses the following issues, must be undertaken to investigate any complaint of noise nuisance, and the results of the monitoring are given or sent to the administering authority or authorised person within fourteen (14) days of the completion of the monitoring – (a) background noise; (b) $L_{A10,adj,15min}$; (c) $L_{A1,adj,15min}$; (d) $L_{Aeq,adj,15min}$; (e) $MaxL_{pA,adj,15min}$; (f) the level and frequency or occurrence of impulsive or tonal noise; (g) atmospheric conditions including wind speed and direction; (h) effects due to extraneous factors such as traffic noise; and (i) location, date and time of recording.
N4	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.
N5	Subject to condition N6, the person undertaking the activity to which this environmental authority relates must investigate, or commission the investigation of, all complaints alleging noise nuisance from the activity to which this approval relates.
N6	The obligation to investigate a nuisance complaint under condition N5 is negated if the facts and circumstances forming the basis for the complaint are substantially the same as those alleged in a recent or ongoing series of complaints made by the same complainant that is currently under investigation.
N7	The person undertaking the activity to which this environmental authority relates must make reasonable adjustment[1] of practices, procedures or equipment to resolve any validated complaint investigated under condition N5. Examples of a reasonable adjustment include: a) changing the times of the day at which particular actions giving rise to the complaint happen; b) installing or replacing acoustic housing of equipment; or c) enclosing, covering or closing open or exposed infrastructure if enclosing, covering or closing the infrastructure would not compromise or reduce its effectiveness.
Agency interest: Water	
Condition number	**Condition**

[1] See section 319 of the *Environmental Protection Act 1994* (General environmental duty) for things that must be considered in determining whether a change is a reasonable adjustment.

WT1	Other than as permitted within this authority, contaminants must not be released from the site to any waters or the bed and banks of any waters.
WT2	The only contaminants to be released to surface waters are stormwaters that have been treated in accordance with the James Hardie Australia – Carole Park – Pty Ltd Stormwater management documents.
WT3	Should the document in condition WT2 be amended or otherwise updated, a copy must be provided to the administering authority upon its completion.
Agency interest: Waste	
Condition number	**Condition**
WS1	Waste must only be removed from the site by a transporter lawfully able to transport it to a place lawfully able to receive it.
Agency interest: Land	
Condition number	**Condition**
L1	Contaminants must not be released to land.

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.

Administering authority means the Department of Environment and Science or its successor or predessors.

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.

Background means noise, measured in the absence of the noise under investigation, as $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response.

Boundary means within 1m of the cadastral boundary of the approved place.

Commercial place means a place (other than a sensitive place) used as a workplace, and 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 under the *Environmental Protection Act 1994*.

$\mathbf{L_{Aeq,adj,T}}$ means the adjusted A-weighted equivalent continuous sound pressure level measures on Fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measure for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than 1 hour when the approved activity is causing an intermittent noise.

$\mathbf{MaxL_{pA,T}}$ means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

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

NATA means National Association of Testing Authorities.

"Normal cubic metre (Nm3)" 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.

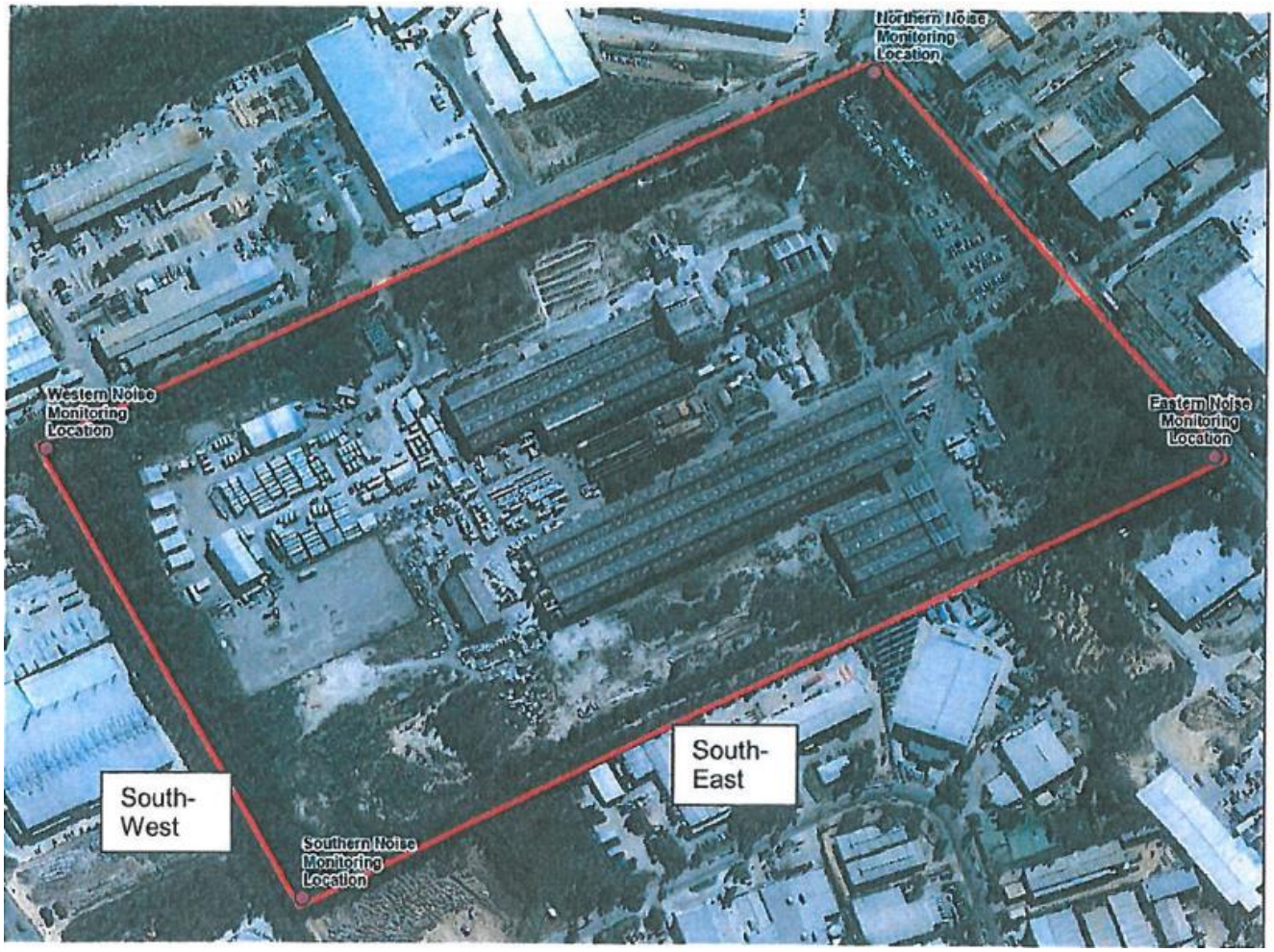
Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- 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

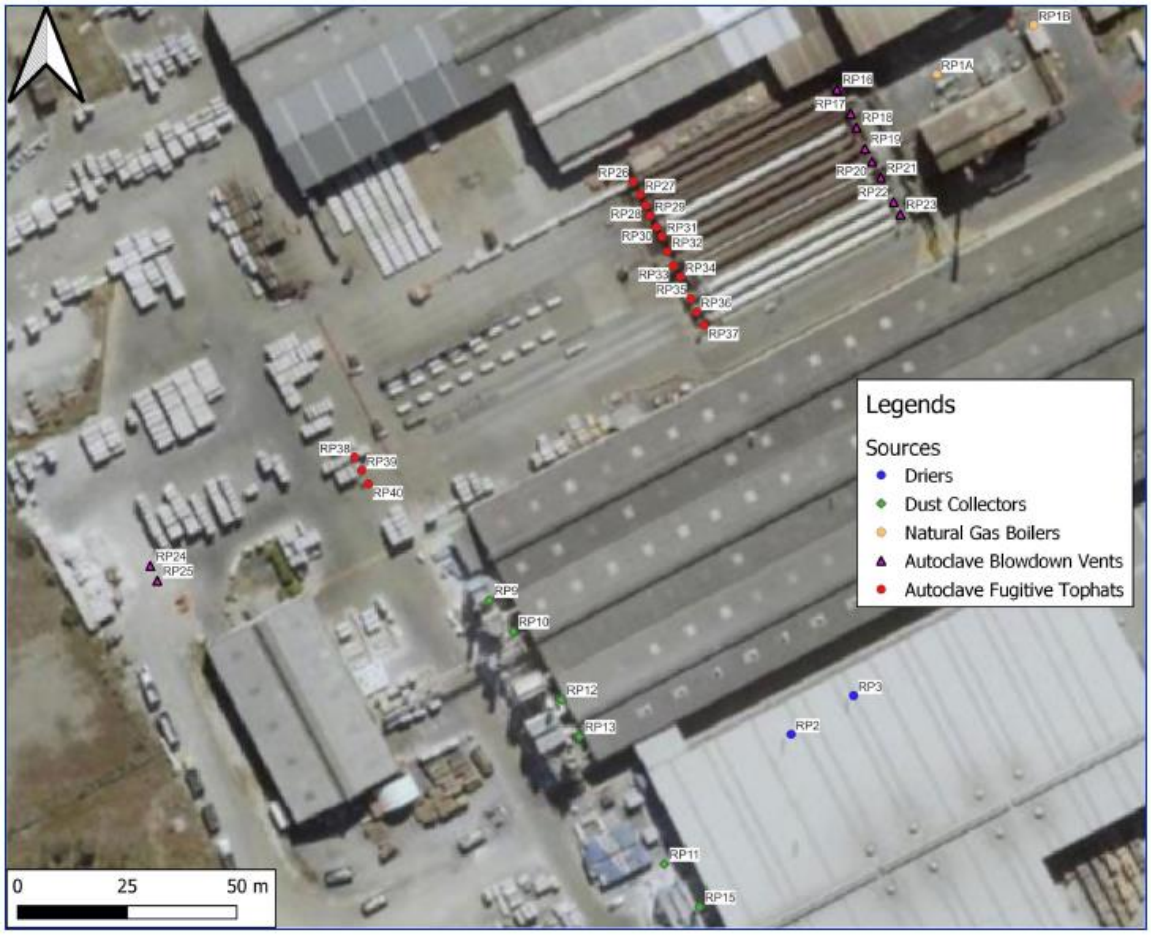
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992,* the *Marine Parks Act 2004* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.

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 dam, roadside gutter, stormwater run-off, and groundwater any any part thereof.

Schedule 1 – Approved plan - Map 1: Approximate noise monitoring locations



Schedule 2 – Air release point locations



END OF ENVIRONMENTAL AUTHORITY