

Permit

Environmental Protection Act 1994

Environmental authority EPPR00423513

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

Environmental authority number: EPPR00423513

Environmental authority takes effect on 29 April 2022

Environmental authority holder(s)

Name(s)	Registered address
MACKAY SUGAR LIMITED	1 Racecourse Mill MACKAY QLD 4740

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/CP892187
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/CP892187
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP702186
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP702186
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP702197

Environmentally relevant activity/activities	Location(s)
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP702197
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP703613
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP703613
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP704739
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP704739
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP704747
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP704747
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP704750
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP704750
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP710736

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	1/RP710736
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP719137
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP719137
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP723347
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP723347
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/RP727930
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/RP727930
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/SP221679
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	1/SP221679
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	1/SP289789

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	1/SP289789
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	10/CP906317
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	10/CP906317
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	100/SP244960
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	100/SP244960
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	15/RP730576
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	15/RP730576
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/CP854468
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/CP854468
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/RP702186

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	2/RP702186
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/RP704747
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/RP704747
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/RP707240
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/RP707240
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/RP719137
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/RP719137
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/RP721609
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/RP721609
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/RP723347
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or	2/RP723347

Environmentally relevant activity/activities	Location(s)
manufacturing 200t or more of sugar or other sugarcane products in a year	
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	2/RP895328
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	2/RP895328
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	3/CP907076
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	3/CP907076
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	3/RP702185
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	3/RP702185
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	3/RP704748
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	3/RP704748
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	3/SP221679
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	3/SP221679

Environmentally relevant activity/activities	Location(s)
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	3/SP276550
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	3/SP276550
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	31/SP312691
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	31/SP312691
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	32/SP129018
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	32/SP129018
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	4/RP702185
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	4/RP702185
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	4/RP704212
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	4/RP704212
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or	4/RP704748

Environmentally relevant activity/activities	Location(s)
manufacturing 200t or more of sugar or other sugarcane products in a year	
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	4/RP704748
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	4/RP895328
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	4/RP895328
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	5/RP709232
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	5/RP709232
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	5/RP836242
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	5/RP836242
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	6/RP702194
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	6/RP702194
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	63/SP278411

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	63/SP278411
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	800/SP244960
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	800/SP244960
ERA 28 - Sugar milling or refining - Crushing or grinding 200t or more of sugar cane in a year or manufacturing 200t or more of sugar or other sugarcane products in a year	9/RP749853
ERA 15 - Fuel burning - Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	9/RP749853

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:

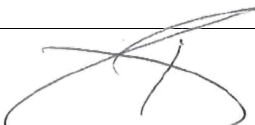
- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day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

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

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

29 April 2022

Date

Enquiries:
Energy and Extractive Resources
GPO Box 2454, BRISBANE QLD 4001
Phone: (07) 3330 5737
Email: EnergyandExtractive@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).

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at <https://www.rshq.qld.gov.au/>, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

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

Agency interest: General	
Condition number	Condition
A1	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities .
A2	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
A3	Any incident, breach or receipt of monitoring results not in accordance with a condition of this environmental authority must be reported to the administering authority as soon as practicable but within 24 hours of becoming aware of the breach.
A4	Within ten (10) business days following the initial notification in accordance with condition A3, or receipt of monitoring results, whichever is the latter, further written advice must be provided to the administering authority, including the following: 1. Results and interpretation of any samples taken and analysed; and 2. Outcomes of actions taken at the time to prevent or minimise unlawful environmental harm; and 3. Proposed actions to prevent a recurrence of the incident or breach.
A5	Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the administering authority , or nominated delegate upon request, within the required timeframe and in the specified format.
A6	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.
A7	All instruments and 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.
A8	The activity must be undertaken in accordance with written procedures that: 1. Identify potential risks to the environment from the activity during routine operations, closure and an emergency; and 2. Establish and maintain control measures that minimise the potential for environmental harm; and 3. Ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. Ensure plant, equipment and measures are operated in a proper and effective manner;

	and 5. Ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 6. Ensure that reviews of environmental performance are undertaken at least annually.
A9	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses. The only exception to this condition is point source air contaminants and the in situ monitoring of pH, temperature and dissolved oxygen.
A10	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 to the administering authority within the timeframe specified in the request.
A11	You must record the following details for all environmental complaints received: 1. Date and time complaint was received; and 2. Name and contact details of the complainant when provided and authorised by the complainant; and 3. Nature of the complaint; and 4. Investigations undertaken; and 5. Conclusions formed; and 6. Actions taken to resolve the complaint.
A12	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
A13	All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Air	
Condition number	Condition
B1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .
B2	Contaminants must only be released to air 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 GDA94 (GDA94 decimal degrees)			Minimum Release Height (m)	Minimum Efflux Velocity (m/s) at MCR	Contaminant	Release Limit	Monitoring Frequency
Source Description	Release point	Latitude Longitude					
Racecourse Mill Boiler #2 and #4	A1	-21.16346 149.13451	57.9	7.0	Solid Particles	250 mg/Nm ³ *	Annually
Racecourse Mill Boiler #3	A2	-21.16346 149.13424	61.0	9.0	Solid Particles	250 mg/Nm ³ *	Annually
Marian Mill Boiler #1	A4	-21.14180 148.93972	64.0	9.0	Solid Particles	250 mg/Nm ³ *	Annually
Marian Mill Boiler #3	A5	-21.14200 148.94047	56.0	9.0	Solid Particles	250 mg/Nm ³ *	Annually
Farleigh Mill Boiler #3 and #4	A6	-21.09965 149.09994	64.0	9.0	Solid Particles	650 mg/Nm ³ *	Annually

* corrected to twelve percent by volume of carbon dioxide

Associated requirements

1. Contaminants released must be directed vertically upwards without any impedance or hindrance.
2. 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.

B3

The release of **contaminants** specified in condition B2 must be monitored in accordance with the following requirements:

1. Monitoring must be undertaken any time the activity is in operation; and
2. Monitoring must be undertaken during a release; and
3. Monitoring must be undertaken when emissions are expected to be representative of actual operating conditions; and
4. Monitoring of the release points listed in *Table 1 – Point source air release limits* must comply with the Australian Standard AS 4323.1 – 1995 “Stationary source emissions Method 1: Selection of sampling positions” (or more recent editions); and
5. The following tests must be performed for each required determination specified in *Table 1 – Point source air release limits*:
 - a. Gas velocity and volume flow rate;
 - b. Temperature; and
 - c. Water vapour concentration;
6. During the sampling period the following additional information must be gathered:
 - a. The percentage load on the boiler when compared against the maximum continuous rating of the boiler.

B4	Dust and particulate matter emissions must not exceed the following concentrations at any sensitive place or commercial place : a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.
B5	The sulphur content of any fuel burned in industrial fuel burning equipment is not to exceed 3 percent by weight.
B6	The only fuels which may be burned in industrial fuel burning equipment are coal, natural gas, uncontaminated wood , fuel oil, bagasse, diesel, and waste paper/cardboard.
B7	Afterburner – Carbon Regeneration Plant (Racecourse Mill Refinery) All contaminants leaving the carbon regeneration plant must be treated in an afterburner prior to release to the atmosphere.
B8	The afterburner referenced in condition B7 must be capable of holding the incoming contaminants at a temperature of at least 600 degrees Celsius for a period of at least 0.5 seconds.
B9	A device must continuously measure and record the temperature of the exhaust gases at the end of the combustion chamber of the afterburner referenced in condition B7.
B10	In the event of a complaint about odour that the administering authority considers is reasonable, the afterburner referenced in condition B7 must be operated so that incoming contaminants are held at a temperature of at least 760 degrees Celsius for a period of at least 0.5 seconds.
Agency interest: Water	
Condition number	Condition
C1	Other than as permitted within this environmental authority, contaminants must not be released to any waters .
C2	The only contaminants to be released to surface waters are in accordance with <i>Table 2 – Contaminant release points and monitoring point</i> and <i>Table 3 – Contaminant release limits</i> .

Table 2 – Contaminant release points and monitoring point

Release Point (reference)	Receiving Waters	Release Point(s) Description (GDA94 decimal degrees)	
		Latitude	Longitude
Racecourse (W1)	Rocky Creek	-21.2093	149.1065
Pleystowe (W3)	Bakers Creek	-21.1554	149.0395
Farleigh (W4)	Amhurst Creek	-21.0988	149.0920
Marian downstream (W2.0) ¹	Perry Creek	-21.2355	148.9874
Marian Pond 5 (W2.1) ²	Cane drain to Perry Creek	-21.1771	148.9543
Marian Pond 4 (W2.2) ³	Cane drain to Perry Creek	-21.174	148.957
Marian Pond 5 (W2.3) ⁴	Cane drain to Perry Creek	-21.1767	148.9543

Table 3 – Contaminant release limits

Release / Monitoring Point (reference)	Quality characteristic	Limit (unit)	Limit Type	Frequency
W1, W2.0 ¹ , W2.1 ² , W2.2 ³ , W2.3 ⁴ , W3 and W4	5 Day Biological Oxygen Demand	20 mg/L	80 th percentile	As soon as practicable after commencement of release but no later than 24 hours after commencing, and weekly thereafter. For successive releases from the same site under similar circumstances, only one sample per week is required.
		50 mg/L	Maximum	
	Suspended Solids	30 mg/L	80 th percentile	
		90 mg/L	Maximum	
	pH	6.5-8.5 pH	Range	
	Dissolved Oxygen	2 mg/L	Minimum	
W2.0 ¹ , W2.1 ² and W2.2 ³ , W2.3 ⁴	Ammonia	0.9 mg/L	Maximum	
W1	Flow	2800 m ³	Maximum per day	Daily
W2.1, W2.2 and W2.3 ⁴		3900 m ³	Maximum per day	
W3		2800 m ³	Maximum per day	
W4		2800 m ³	Maximum per day	

¹ The release point release limits for downstream (W2.0) apply up to 1 January 2023.

² The release point release limits for Marian Pond 5 (W2.1) apply from 1 January 2023.

³ The release point release limits for Marian Pond 4 (W2.2) apply from 1 January 2023

⁴ Marion Pond 5 (W2.3) ceases to be a release point once Marion Pond 5 (W2.1) becomes operational.

C3

The release of **contaminants** specified in condition C2 must be monitored in accordance with the following requirements:

1. Release points must be situated and maintained in accordance with *Table 2 – Contaminant release points and monitoring point* and Appendix 1; and

	2. Water quality monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's Monitoring and Sampling Manual; and 3. Samples must be representative of the release.
C4	The environmental authority holder must take measures to improve the water management system at Marian Mill to ensure water contaminants released from W2.1 and W2.2 comply with the release limits in <i>Table 3 – Contaminant release limits</i> by 1 January 2023.
C5	From 13 March 2020, a progress report detailing measures that have or will be undertaken to ensure compliance with condition C4 must be submitted to the administering authority every six months. The progress report must be prepared by an appropriately qualified person and must include: 1. Identification of remedial works to be undertaken; 2. Schedule of remedial works; 3. An analysis of improvements in water quality in the effluent ponds; and 4. An assessment of the performance of the effluent ponds (for example, capacity and treatment efficiency).
C6	A Stormwater Management Plan must be developed by an appropriately qualified person and implemented.
C7	Stormwater that is not contaminated by the activity must be diverted away from areas where it may become contaminated by the activity . Stormwater that is contaminated by the activity must be directed to a treatment system.
Agency interest: Acoustic	
Condition number	Condition
D1	Other than as permitted within this environmental authority, noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
E2	Treated effluent and/or wastewater may be removed from the site and used for an alternate purpose, with the written consent of any third party (end user) involved.

Definitions

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

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 predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the environmental authority requirement and can give authoritative assessment, advice and analysis in relation to the environmental authority requirements using the relevant protocols, standards, methods or literature.

Authorised place means the place authorised under this environmental authority for the carrying out of the specified environmentally relevant activities.

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.

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

Disturbed areas includes areas:

1. that are susceptible to erosion;
2. that are contaminated by the activity; and/or
3. upon which stockpiles of soil or other materials are located.

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

Environmental value means:

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

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Land means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes **tidal land**).

Maximum Continuous Rating (MCR): the maximum output running continuously under safe conditions (as per manufacturer's recommendation).

Measures has the broadest interpretation and includes:

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

mg/L means milligrams per litre.

NATA means National Association of Testing Authorities.

Nominated delegate means another government agency that provides services to the **administering authority**.

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

Offensive means causing offence or displeasure; is unreasonably disagreeable to the senses; disgusting,

nauseous or repulsive.

Prescribed water contaminants means contaminants listed within Schedule 10 of the *Environmental Protection Regulation 2019*.

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:

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

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 2004* or a World Heritage Area; or
6. a public park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2019*.

Stormwater that is not contaminated by the activity includes stormwater runoff from external or undisturbed catchments.

Uncontaminated wood includes wood that has not been treated by chemicals, or wood that does not contain glue.

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.

80th percentile means not more than one fifth (one in five) of values measured during releases are to exceed the stated release limit for the previous 12 month period.

Appendix 1

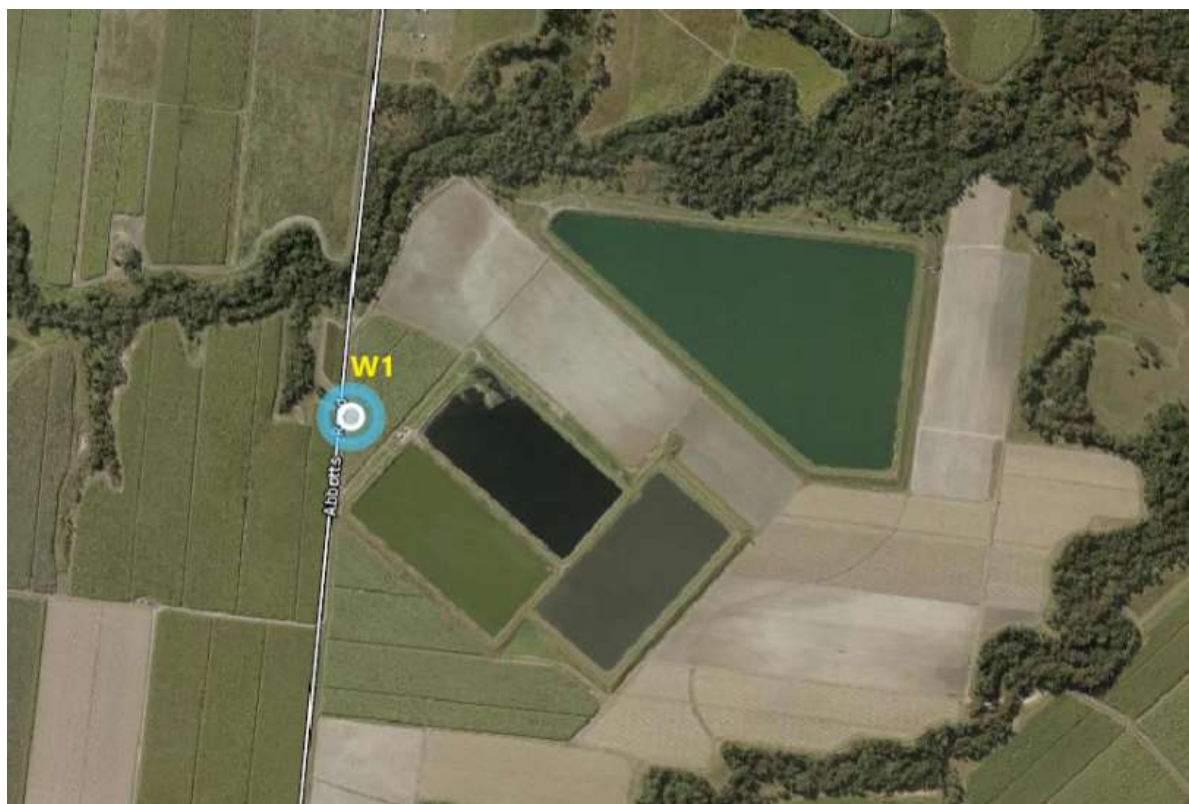


Figure 1. Racecourse Mill Release Point W1

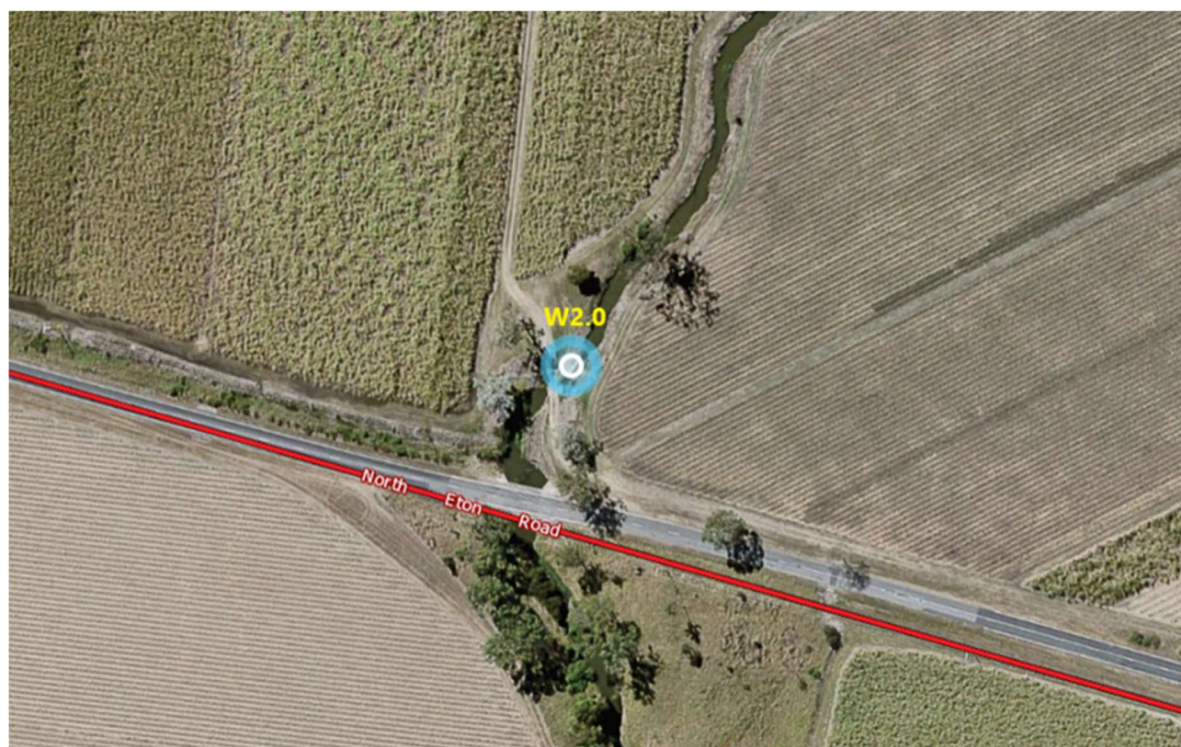


Figure 2. Marian Mill Release Point W2.0



Figure 3. Marian Mill Monitoring Point W2.1

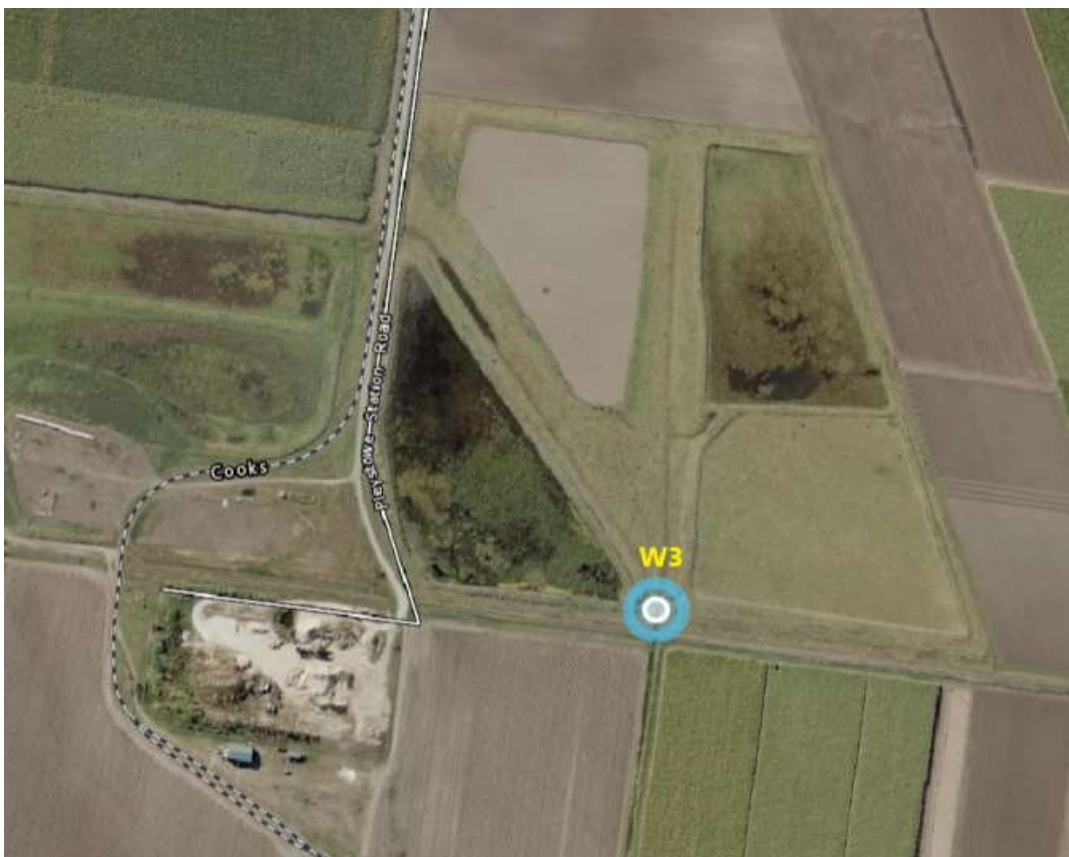


Figure 4. Pleystowe Mill Release Point W3



Figure 5. Farleigh Mill Release Point W4

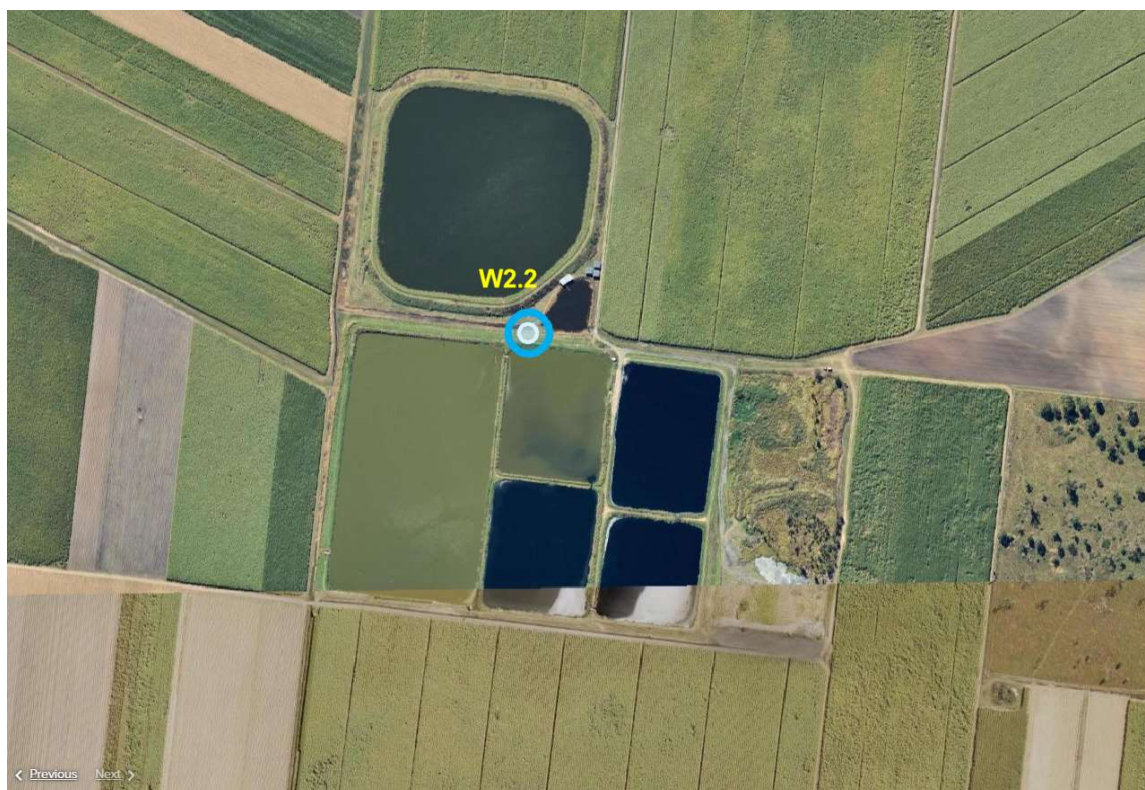


Figure 6. Marian Mill Monitoring Point W2.2

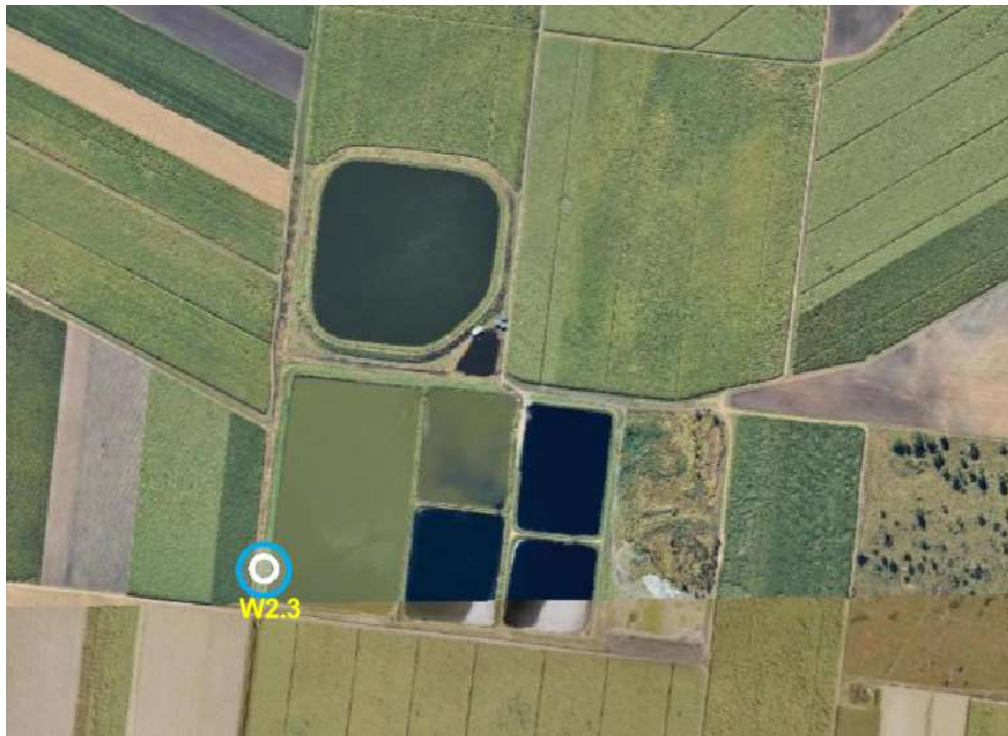


Figure 7. Marian Mill Monitoring Point W2.3

END OF ENVIRONMENTAL AUTHORITY