Permit

Environmental Protection Act 1994

Environmental authority P-EA-100215123

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

Environmental authority number: P-EA-100215123

Environmental authority takes effect on the day the associated development application "DA/2021/4286" takes effect.

Within 5 business days of the environmental authority taking effect, the administering authority must be given written notice of the occurrence. Prior to the commencement of the activity, the administering authority must be given written notice of the proposed date of commencement.

The first annual fee is payable within 20 business days of the take effect date.

The anniversary date of this environmental authority is the same day each year as the take effect date. The payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name(s)	Registered address
SUNSHINE DC PTY LTD	Suite 1, Capri on Via Roma ISLE OF CAPRI QLD 4217

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 14 - Electricity generation - 2(a) - Generating electricity by using a fuel, other than gas, at a rated capacity of 10MW electrical to 150MW electrical	121/M31114
ERA 14 - Electricity generation - 1 - Generating electricity by using gas at a rated capacity of 10MW electrical or more	

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

ABN 46 640 294 485

Queensland Government

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

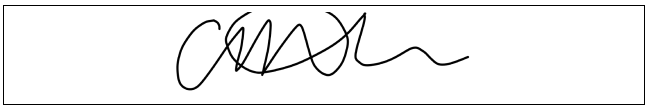
c) otherwise on the day the authority is issued.

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

30 March 2022

Date

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

Enquiries:

GPO Box 2454, BRISBANE QLD 4001
Phone: (07) 3330 5715
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**
G1	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. Generators are located generally in accordance with the site plan and the location of activities in Appendix 1 – Site Plan and the Location of Activities. 2. Records must be kept of the quantity of chemicals and fuels stored.
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	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities.
G4	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G5	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.
G6	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 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.
G7	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.
G8	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.

G9	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.
G10	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.

Agency interest: Waste

Condition number	Condition
W1	All waste generated in carrying out the activity must be lawfully reused, recycled, or removed to a facility that can lawfully accept the waste.
W2	Incompatible wastes must not be mixed in the same container or waste storage area.

Agency interest: Acoustic

Condition number	Condition
N1	The noise generated by the activity must not cause environmental nuisance to any sensitive place.
N2	Noise from the activity must not exceed the levels identified in *Table – Noise limits* when measured in accordance with the associated monitoring requirements.

Table – Noise limits

Noise level measured in dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am
	Noise measured at the sensitive place					
$L_{Aeq, adj, T}$	50	45	40	50	45	40
$L_{Amax,adj,T}$	-	-	49	-	-	49

Associated monitoring requirements

1. Limits are applied at the boundary of the sensitive receptor. For the dwelling located within Lot 2 on RP912725 limits are applied within 30m from the current dwelling
2. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.
3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.

N3	When required by the administering authority, noise monitoring must be undertaken in

	accordance with the associated monitoring requirements of *Table - Noise Limits*, and the results notified within 14 days to the administering authority. Monitoring must include: 1. $L_{Aeq, adj, T}$; 2. Background noise (Background) as $L_{A90, adj, T}$; 3. $L_{Amax,T}$; 4. the level and frequency of occurrence of any impulsive or tonal noise; 5. atmospheric conditions including wind speed and direction; 6. effects due to extraneous factors such as traffic noise; 7. recording of location, date and time of measurements.
N3	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual

Agency interest: Air

Condition number	Condition
A1	Odours or airborne contaminants must not cause environmental nuisance to any sensitive place.
A3	Dust and particulate matter emissions must not exceed the following concentrations at any sensitive 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) (PM_{10}) 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.
A4	The types of fuels to be burnt in the backup generators are as listed below: - natural gas; - bioethanol; - biodiesel; - hydrogen gas; and - ultra-low sulphur diesel with a sulphur content no greater than 10 ppm.

A5

Contaminants:

- must only be released to air from the point source in accordance with *Table – Point source air release limits* and the associated requirements; and
- must be monitored not less than the frequency stated in *Table – Point source air release limits* and the associated requirements.

Table - Point source air release limits

Release point	Minimum release height above ground (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit (see Note 1)	Monitoring Frequency
Back- up Generators' Stacks 1–6 (Stationary reciprocating internal combustion engine) (see Note 1)	8	15	Oxides of Nitrogen (as NO_2 equivalent)	450 mg/Nm^3 (dry) @ 3% O_2	Annually as well as after each commissioning (see Note 2)
			Carbon Monoxide (CO)	125 mg/Nm^3 dry @ 3% O_2 (see Note 3)	
			Volatile Organic Compounds (VOC) (as n-propane equivalent)	40 mg/Nm^3 (dry) @ 3% O_2 (see Note 3)	

Note 1: As indicated in Appendix 1 – Site Plan and the Location of Activities.

Note 2: The above NOx, CO and VOC release limits are applicable during all timings except start-up, shut-down. The start-up duration is allowed up to 30 minutes.

Note 3: For Carbon Monoxide (CO) and Volatile Organic Compounds (VOC), only CO limit of 125 mg/Nm^3 (dry) @ 3% O_2 or VOC limit of 40 mg/Nm^3 (dry) @ 3% O_2 is applicable

Associated requirements

1) The release of contaminants from a point source must be directed vertically upwards without any impedance or hindrance.

A6

The release of contaminants specified in condition A5 must be monitored in accordance with the following requirements

1) Monitoring must be undertaken during a release and at the authorised release points, frequency and for the contaminants specified in *Table - Point source air release limits*.
2) Monitoring must be undertaken when emissions are expected to be representative of actual operating conditions for the sample period.
3) All monitoring devices must be effectively calibrated and maintained in accordance with the manufacturer's instructions and Australian and international standards.
4) 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, or United States EPA. 5) Monitoring provision for the release points (stack) listed in *Table - Point source air release limits* must comply with the Australian Standard AS 4323.1 - 1995 "Stationary source emissions Method 1: Selection of sampling positions". 6) All air emission stack monitoring must be conducted by an experienced person or body which holds current National Association of Testing Authorities (NATA). 7) The following tests must be performed for each required determination specified in *Table - Point source air release limits*: (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) plants throughput rate at the time of sampling; (ii) any typical factors that may influence air pollutant emissions; (iii) reference to the actual test methods and accuracies
A7	The only power generators that are permitted by this environmental authority, are the back-up generators shown within Appendix 1 – Site Plan and the Location of Activities of this environmental authority.

Agency interest: Land

Condition number	Condition
L1	Contaminants must not be released to land.
L2	Treatment and management of acid sulfate soils must comply with the latest edition of the *Queensland Acid Sulfate Soil Technical Manual.*
L3	Before applying to surrender this environmental authority, the site must be safe, stable and non-polluting.
L4	This environmental authroity does not permit impacts to prescribed enviornmental matters under the *Environmental Offsets Act 2014*.

Agency interest: Water

Condition number	Condition
WT1	Contaminants must not be released to any waters.
WT2	Contaminants must not be released to groundwater or at a location where they are likely to release to groundwater.

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 successors or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement 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% of the time period of not less than 1 hour, using Fast response.

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

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

Incompatible waste means waste that may chemically react when:

1. placed in proximity to other wastes; and/or
2. mixed with other wastes.

$L_{Aeq\ adj,T}$ 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 measured for a period no less than 1 hour when the activity is causing a steady state noise, and no shorter than 1 hour when the approved activity is causing an intermittent noise.

$L_{Amax,T}$ means the maximum A-weighted sound pressure level measured over a time period T of not less than 1 hour, using Fast response.

Land does not include waters.

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

Mineral— as defined in Section 50 Schedule 2 of the Environmental Protection Regulation 2019.

NATA means 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.

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

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:

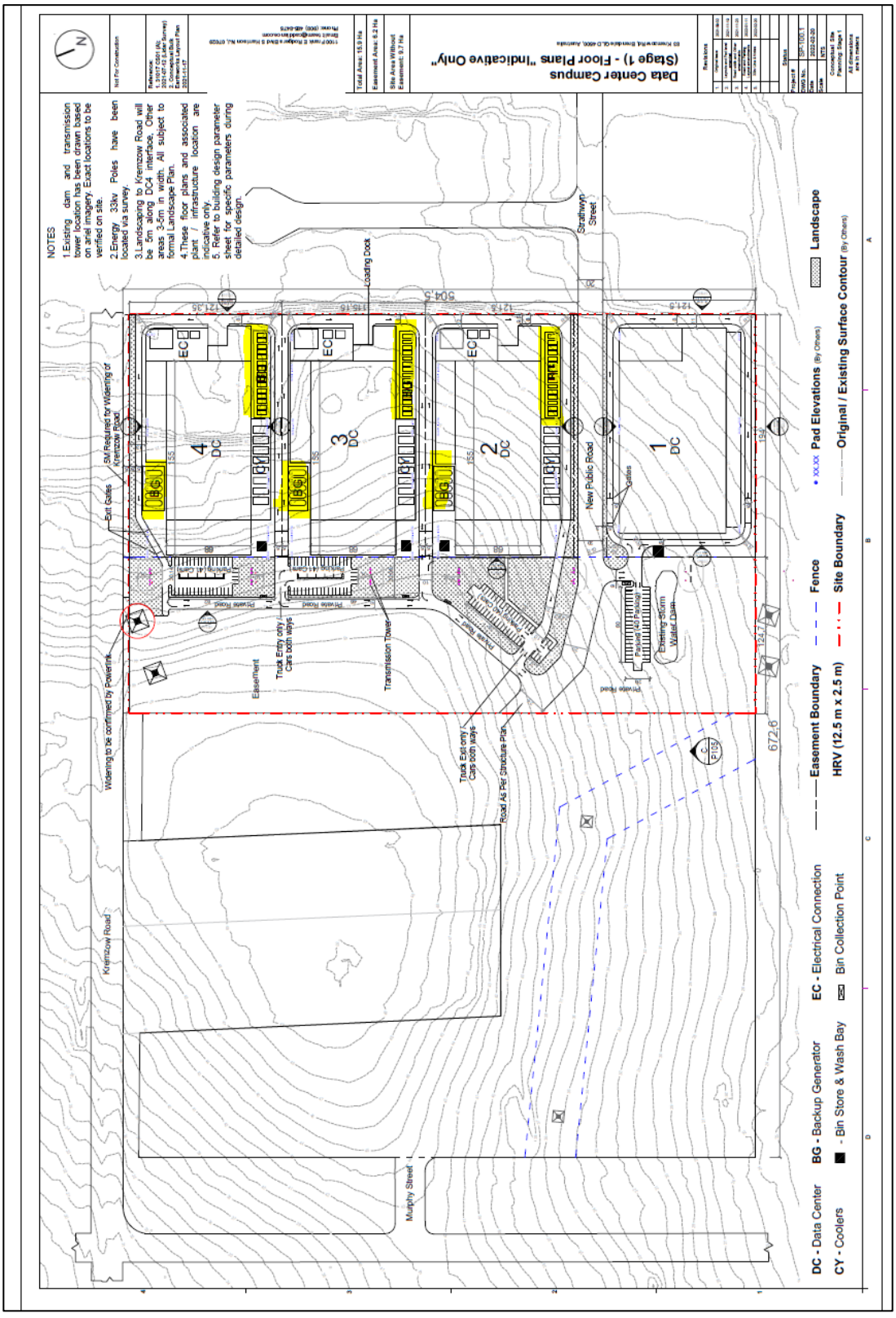
1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or garden; or
7. a place used as a workplace, an office or for business or commercial purposes; and
8. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.

"Volatile organic compounds (VOC)" means any chemical compound based on carbon chains or rings with a vapor pressure greater than 2mm of mercury (0.27 kPa) at 25ºC), that participate in atmospheric photochemical reactions. The substances that are specifically excluded are: methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonate salts. This is according to the definition of VOC outlined in the Australian Government National's Pollutant Inventory.

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.

Appendix 1 – Site Plan and the Location of Activities

(Note: the yellow highlighted areas show the location of back-up generators)



END OF ENVIRONMENTAL AUTHORITY