Permit

Environmental Protection Act 1994

Environmental authority EPPR03642715

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

Environmental authority number: EPPR03642715

Environmental authority takes effect on 04-03-2020

Environmental authority holder(s)

Name(s)	Registered address
EDL PROJECTS (AUSTRALIA) PTY LTD	Waterfront Place, Level 6, 1 Eagle St, BRISBANE CITY QLD 4000 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 14 - Electricity Generation 1: Generating electricity by using gas at a rated capacity of 10MW electrical or more	Lot 16 on SP261431

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:

Queensland Government

- 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.

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

Date issued: 06 March 2020

Enquiries:
Extraction, Energy and Chemical Industries Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@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)

Conditions of environmental authority

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

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 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.
G2	Activities authorised under this environmental authority must be conducted in accordance with the following limitations: a) The activity must be conducted within the boundaries identified in *Schedule 1 – Site location: Project location local context*.
G3	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the activities.

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; 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.
G5	All **records** must be kept for a period of at least five years and provided to the **administering authority** upon request.
G6	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system.**
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	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.
G9	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
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 sources, release heights, velocities and contaminant release limits in accordance with *Table 1 – Contaminant release limits to air* and the associated requirements.

A2 – Cont.

Table 1 – Contaminant release limits to air

Release point number	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit [1]
A1-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A2-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A3-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A4-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A5-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A6-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A7-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A8-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A9-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3

A10-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A11-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A12-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A13-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3
A14-Generator Stack	12.5	25	Oxides of Nitrogen	564 mg/Nm^3
			Carbon Monoxide	1,214 mg/Nm^3

Associated requirements

1. The above release limits are applicable during all timings except start-up, shut-down and calibration of emission monitoring devices. The start-up duration is allowed up to 30 minutes.
2. The concentration limits in Table 1 refers to 3% oxygen reference level.
3. Contaminants released must be directed vertically upwards without any impedance or hindrance.
4. All release points referred to in Table 1 must be conspicuously marked with the corresponding release point number.
5. **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.

A3

Contaminants must be monitored not less frequently than *Table 2 - Required Release Point Determinations* and in accordance with the associated requirements.

Table 2 - Required Release Point Determinations

Determination Required	Release Point Numbers	Frequency
Mass emission rate and concentration of oxides of nitrogen (NOx) in the flue gas at 3 percent oxygen reference level	Generator Stacks A1 to A14 inclusive	All stacks must be monitored within three months of commissioning (See Note1) of the generation units and at least three generator stacks per year thereafter on rotational basis
Mass emission rate and concentration of carbon monoxide (CO) in the flue gas at 3 percent oxygen reference level		

Associated requirements

1. Within 3 months of commissioning the power generation units, the holder of this authority must conduct air emission monitoring to demonstrate compliance with air emission limits listed in Table 1.

A4

The only type of fuel to be burnt in power generation under normal operating conditions is waste coal mine gas or natural gas.

A5

The holder of this approval must conduct and keep **records** of a monitoring program of contaminant releases to the atmosphere at the release points, frequency, and for the parameter specified in *Table 2 - Required Release Point Determinations* and which complies with the following:

a) Monitoring provision for the release points listed in Table 2 must comply with the Australian Standard AS 4323.1 - 1995 "Stationary source emissions Method 1: Selection of sampling provisions".
b) Air Monitoring must be in accordance with the current edition of the **administering authority's** Air Quality Sampling Manual.
c) The following tests must be performed for each required determination specified in *Table 2 - Required Release Point Determinations*:
   i. gas velocity and volume flow rate;
   ii. temperature and oxygen content;
   iii. water vapour concentration
d) Samples taken must be representative of the contaminants discharged when emissions are expected to be at maximum rates.
e) During the sampling period the following additional information must be gathered:
   - power generation rate at the time of sampling;
   - fuel type and consumption rate;
   - number of generating units in use; and
   - reference to the actual test methods and accuracy's.

Agency interest: Water

<table>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>WT1</td><td>Contaminants must not be released to any waters, other than as permitted within this Environmental Authority.</td></tr>
<tr><td>WT2</td><td>Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from areas that treat contaminants or wastes.</td></tr>
<tr><td>WT3</td><td>Stormwater discharged from the site must comply with the release limits and monitoring frequency for water quality parameters identified in Table 3 – Stormwater Discharge Criteria and conducted in accordance with the associated requirements.
Table 3 – Stormwater Discharge Criteria
<table>
<tr><th>Release Point</th><th>Parameter</th><th>Release Limit</th><th>Limit Type</th><th>Frequency</th></tr>
<tr><td>Oily Water Separator Discharge Point</td><td>Visible Oil and Grease</td><td>No visible oil and grease</td><td>-</td><td>Monthly</td></tr>
</table>
Associated requirements
1. Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection Water Quality Sampling Manual.
2. Samples must be taken using representative samples.
3. Monitoring must be undertaken as per the frequency stated.
4. All monitoring devices must be correctly calibrated and maintained.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>N1</td><td>Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place.</td></tr>
</table>

<table>
<tr><td>N2</td><td>Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in Table 4 – Noise limits and the associated requirements at any nuisance sensitive place or commercial place.
Table 4 – Noise limits
<table>
<tr><th rowspan="2">Noise level measured as</th><th colspan="3">Monday to Sunday including Public Holidays</th></tr>
<tr><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th></tr>
<tr><td></td><td colspan="3">Noise measured at a ‘nuisance sensitive place’ or ‘commercial place’</td></tr>
<tr><td>$L_{Aeq, adj, T}$</td><td>41</td><td>33</td><td>30</td></tr>
<tr><td>$MaxL_{pA,T}$</td><td>N/A</td><td>N/A</td><td>49 dB(A)</td></tr>
</table>
Associated requirements
1. All monitoring devices must be correctly calibrated and maintained.
2. Any monitoring must be in accordance with the most recent version of the administering authority’s Noise Measurement Manual.
3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.</td></tr>
<tr><td>N3</td><td>When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 4 - 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 $L_{A\ 90, adj, T}$
3. $MaxL_{pA,T}$
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. location, date and time of recording.</td></tr>
<tr><td colspan="2">Agency interest: Waste</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>WS1</td><td>All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.</td></tr>
</table>

Definitions

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

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

Administering authority means the Department of Environment and Heritage Protection 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 15 minutes, using Fast response.

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*.

$\mathbf{L}_{Aeq\ adj,T}$ 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 measured for a period no less than 15 minutes when the **activity** is causing a steady state noise, and no shorter than one 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 have the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

Prescribed water contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

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

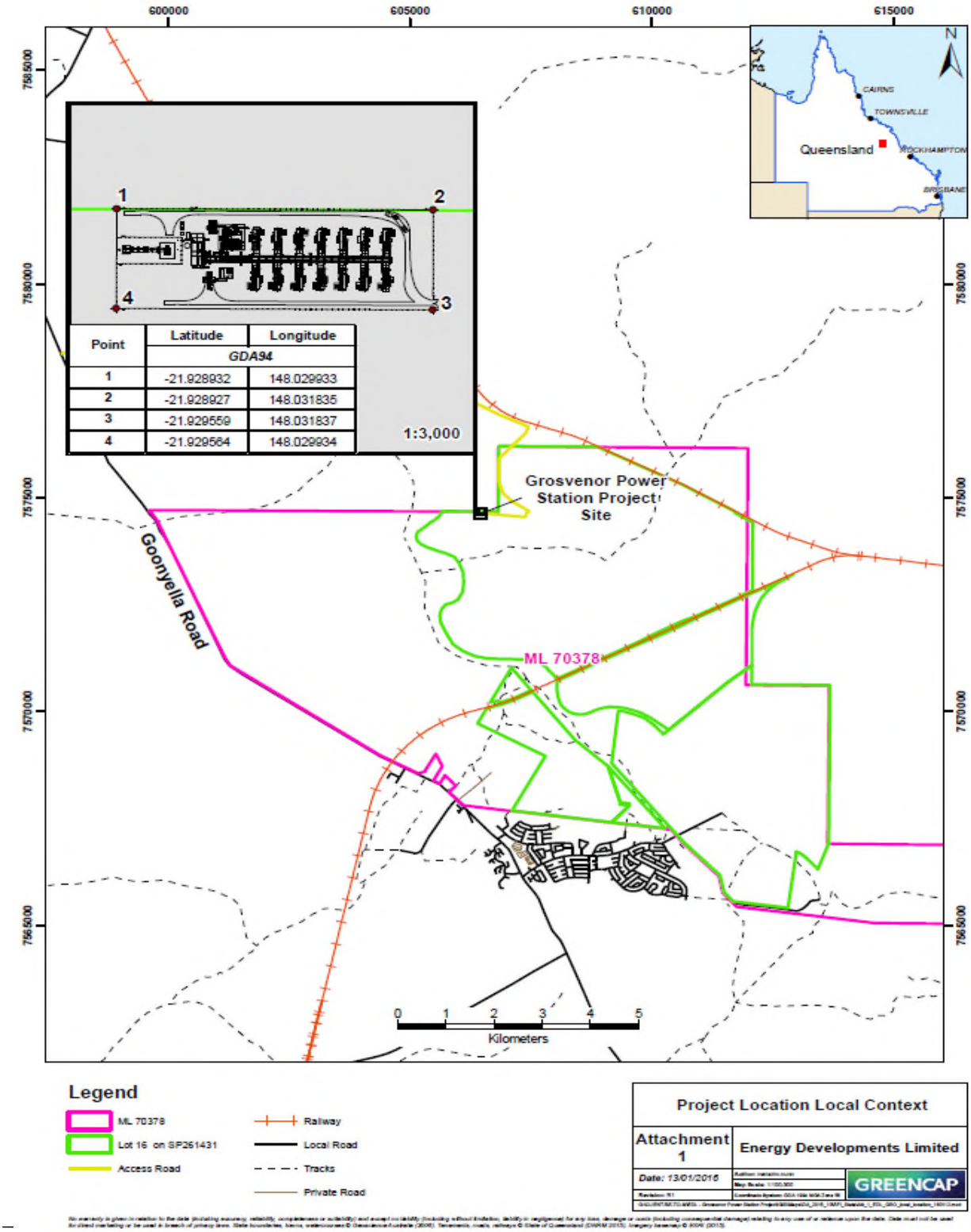
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

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

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.

Schedules

Schedule 1 – Site location: Project location local context.



Point	Latitude	Longitude
	GDA94	
1	-21.928932	148.029933
2	-21.928927	148.031835
3	-21.929559	148.031837
4	-21.929564	148.029934

END OF PERMIT