Permit

Environmental Protection Act 1994

Environmental authority BRID0063

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

Environmental authority number: BRID0063

Environmental authority takes effect on: the first connection of the first generator to the Energex 110KV system.

Environmental authority holder(s)

Name(s)	Registered address
Lockyer Energy Management Pty Ltd	Suite 1.303, 15-21 Via Roma, Isle of Capri, QLD 4217

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 14 (1): generating electricity by using gas at a rated capacity of 10MW electrical or more	Lot 191 on Plan CSH 2361

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).

ABN 46 640 294 485

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

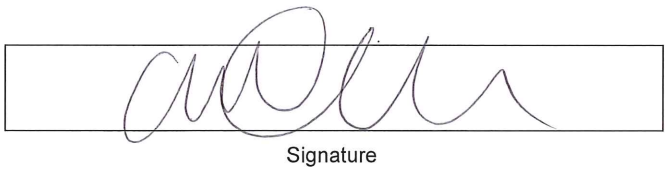
b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise- one 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

29 June 2018

Date

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

Enquiries:
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Department of Environment and Science
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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 Natural Resources, Mines and Energy (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 www.dnrm.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. 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

General 1 In carrying out the activity to which this approval relates, all reasonable and practicable measures must be taken to prevent or to minimise the likelihood of environmental harm being caused.

General 2 Subject to condition General 3, the person undertaking the activity to which this approval relates must do each of the following—
(a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval;
(b) maintain such measures, plant and equipment in a proper and efficient condition; and
(c) operate such measures, plant and equipment in a proper and efficient manner.

General 3 Condition General 2 applies to measures, plant or equipment intended to measure compliance with condition Air 4 only if the person undertaking the activity to which this approval relates is directed by the administering authority under condition Air 5 to undertake monitoring for these contaminants, and then only for the period of time stated in the direction.

Qualified persons only to undertake monitoring, maintenance and calibration of measuring devices

General 4 The following activities, as required under this approval or a site based management plan applying to the site, must be carried out only by a person with appropriate experience or qualifications —
(a) all monitoring assessments and reports;
(b) maintenance of measures, plant and equipment; and
(c) calibration of instruments or equipment used for maintenance, measuring and monitoring the operational performance of, and emissions from, the power station.

Site based management plan

General 5 From commencement of the activity to which this approval relates, a site based management plan that addresses the following matters must be implemented —
(a) environmental commitments — a commitment by the person undertaking the activity to which the approval relates to achieve environmental goals stated in the plan and undertake continuous improvement in the overall environmental performance of the environmentally relevant activity;
(b) identification of environmental issues (including all sources or potential sources of environmental harm) and potential impacts of those issues on the environment;
(c) control measures for routine operations and all sources of actual or potential environmental harm mentioned in (b) to prevent or minimise the likelihood of environmental harm;
(d) contingency plans and emergency procedures for non-routine situations;
(e) organisational structure and responsibility;
(f) effective communication;
(g) monitoring of contaminant releases;
(h) conducting environmental impact assessments;
(i) staff training;
(j) record keeping;
(k) periodic review of environmental performance and benchmarks against which compliance with the terms of the site based management plan can be measured; and
(l) commitment by the operator to undertake continuous improvement in the overall environmental performance of the environmentally relevant activity.

General 6 The site based management plan, or any amendments made to it, must not be inconsistent with any condition(s) of this approval if the inconsistency would result in a lower standard of environmental performance than is required under the conditions of the approval.

Example for condition General 6: A lower standard of environmental performance might include, for example--
(a) specifying targets for the release of contaminants (incl. air, noise or water) at concentrations higher than those permitted for the contaminant under this approval, or where the concentrations of contaminants are specified under this approval as a range, by specifying concentrations targets for emissions outside that range; or
(b) requiring less frequent monitoring or reporting than required under the conditions of this approval.

General 7 To the extent of any inconsistency between a site based management plan and any condition(s) of this approval, other than where the inconsistency is of a type authorised under condition General 6, or any law of the State or Commonwealth in force at the relevant time, the site based management plan is invalid.

General 8 To remove any doubt, if a site based management plan imposes a higher standard of environmental performance than the standard required under the conditions of this approval, the registered operator must, under condition General 5, give effect to higher standard stated in the site based management plan.

Example for condition General 8: a higher standard of environmental performance requirement might include, for example—
(c) specifying lower emissions targets for contaminants to air or lower noise emissions than the limits specified for the contaminant under this approval;
(d) requiring more frequent monitoring or reporting of emissions than is required under this approval ; or
(e) requiring more frequent training for employees undertaking the activity about environmental issues than is required under the conditions of this approval.

General 9 If a site based management plan prescribes a higher standard of environmental performance than is required under the conditions of this approval, the plan can only be amended in a way that lowers the standard of environmental performance with the written approval of the administering authority.

Record keeping

General 10 The person undertaking the activity to which this approval relates must keep the following documents in a location accessible by all employees at the authorised place—
(a) a copy of this approval, incorporating any amendments made to the approval;
(b) a copy of the site based management plan, incorporating any amendments made to the site based management plan;
(c) all records kept under a condition of this approval; and
(d) all monitoring results compiled in accordance with the conditions of this approval.

General 11 The person undertaking the activity to which this approval relates must give the documents mentioned in condition General 10 to an authorised person or the administering authority as soon as possible upon request.

General 12 The person undertaking the activity to which this approval relates must keep all records or monitoring results made or compiled in accordance with the conditions of this approval for a minimum of five (5) years from the date the record is made or the result is compiled.

Auditing compliance with conditions of approval

General 13 The person undertaking the activity to which this approval relates must ensure that an audit of compliance with the conditions of this approval is commenced, by a suitably qualified third party auditor who is nominated by the approval holder and accepted by the administering authority, within 28 days following the commissioning of the power station.

General 14 The person undertaking the activity to which this approval relates must submit to the administering authority a complete and final report prepared by the auditor (the "auditor's report") mentioned in condition General 13 describing the auditor's findings and accompanied by a statutory declaration made under the *Oaths Act 1867* signed by the auditor declaring that the contents of the auditor's report are true and correct to the auditor's belief, within the timeframes specified below —

(a) if the audit is completed within 6 months of its commencement — within 28 days after the audit is completed; or

(b) if the audit is not completed within 6 months of its commencement — within 28 days after a period of 6 months has passed since the audit commenced.

General 15 If the auditor's report submitted under condition General 14 shows non-compliance with the conditions of this approval, the person undertaking the activity to which this approval relates must, within 14 days after giving the auditor's report to the administering authority, give the administering authority a complete and final report—

(a) describing the person's response to the findings stated in the auditor's report;

(b) describing the actions that the person intends to undertake to rectify each non-compliance issue identified in the auditor's report; and

(c) if the action(s) mentioned in (b) will take more than 28 days to complete — describing the timeframes by which the action will be completed and specifying benchmarks against which compliance with the conditions of the approval will be achieved.

General 16 The total financial cost of the audit(s), and preparation and lodgement of the auditor's report, will be the responsibility of the person undertaking the activity to which this approval relates.

General 17 If the person undertaking the activity to which this approval relates gives the administering authority a report to which condition General 15(c) applies, the person must comply with the timeframes specified in the report.

General 18 If condition General 15(c) applies, the administering authority may, at the end of the timeframes specified in 15(c), by written notice, require the person undertaking the activity to which this approval relates to submit a further auditors report prepared by the same auditor in accordance with conditions General 13 to 15 and the person must comply with the requirement forthwith.

Notification of non-conforming discharges to the environment

General 19 The person undertaking the activity to which this approval relates must telephone the administering authority as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

General 20 The person undertaking the activity to which this approval relates must give the administering authority a written notice detailing the following information within 14 days of any advice provided in accordance with condition General 19 —

(a) the name of the person undertaking the activity, the number of this approval and the number stated on the registration certificate under which this activity is undertaken;

(b) the name and telephone number of a designated contact person;
(c) quantity and substance released;
(d) vehicle and registration details (if applicable);
(e) person/s involved (driver and any others);
(f) the location and time of the release;
(g) the suspected cause of the release;
(h) a description of the effects of the release;
(i) the results of any sampling performed in relation to the release;
(j) actions taken to mitigate any environmental harm caused by the release; and
(k) proposed actions to prevent a recurrence of the release.

Equipment must be calibrated to appropriate standard

General 21 All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated—
(a) if a statutory instrument or standard made under a law of the State prescribes standards for calibrating the equipment — in accordance with that statutory instrument or standard; or
(b) otherwise — according to any relevant Australian Standard applicable to the calibration of the equipment.

Spill kits and training requirements

General 22 The person undertaking the activity to which this approval relates must keep an appropriate spill kit, personal protective equipment, operator instructions and emergency procedure guides for the management of wastes and chemicals associated with the activity in a place accessible to all employees at the authorised place.

General 23 The person undertaking the activity to which this approval relates must ensure that all employees undertaking the activity at the authorised place have received training in the use of the spill kit and the handling of chemicals stored at the authorised place.

General 24 The training mentioned in condition General 23 must be repeated for each employee at the authorised place at intervals of not greater than two (2) years.

General 25 The person undertaking the activity to which this approval relates must keep a record of the training provided to employees, including —

(a) the names of all persons who undertook the training;
(b) the date on which the training was provided; and
(c) an outline of the training provided.

General 26 The site layout for the power station, and associated structures, must comply with the document titled "PLANT LAYOUT OPTION 1 PLAN VIEW" with the reference number "Drawing No: 41-21379-SK004 rev: E" attached to this approval.

General 27 The proposed power station may be comprised of not more than 6 generators with a total electrical generating capacity of ≤1000MW.

Agency Interest: Air

Air 1 The only fuel that may be used to power the power station gas turbines is natural gas.

Air 2 The nitrogen dioxide (NO_2) emissions control technology known as a "low NO_x burner" must be installed for each generator.

Air 3 The release of dust or particulate matter resulting from the activity to which this approval relates must not cause an environmental nuisance at any nuisance sensitive place or commercial place.

Air 4 Dust and particulate matter must not exceed the following levels when measured at any nuisance 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 of 2003 (or more recent editions); or

(b) a concentration of particulate matter with an aerodynamic diameter of ≤10 micrometre (µm) (PM_{10}) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the authorised place, when monitored in accordance with —

- Australian Standard AS 3580.9.6 of 2003 (or more recent editions) 'Ambient air — Particulate matter - Determination of suspended particulate PM_{10} high-volume sampler with size-selective inlet — Gravimetric method'; or
- any alternative method of monitoring PM_{10} which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority; or

(c) a concentration of particulate matter with an aerodynamic diameter of ≤2.5 micrometre (µm) ($PM_{2.5}$) suspended in the atmosphere of 25 micrograms per cubic metre over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the authorised place, when monitored in accordance with —

- any relevant Australian Standard to the extent it is relevant to the measurement of $PM_{2.5}$ particles; or
- any alternative method of monitoring $PM_{2.5}$ which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority.

Monitoring dust or particulate matter

Air 5 The administering authority may, by written notice, direct the person undertaking the activity to which this approval relates to undertake monitoring for dust or particulate matter (PM_{10} or $PM_{2.5}$) if, based upon information available to the authority, the authority reasonably believes the activity to which this approval relates is causing, or is likely to cause, either or both of the following:

- environmental nuisance contrary to condition Air 3; or
- an exceedence of the concentration specified in condition Air 4 for the contaminant.

Air 6 If directed by the administering authority under condition Air 5 to undertake monitoring for dust or particulate matter, the person undertaking the activity to which this approval relates must undertake the monitoring for the contaminant, and a copy of the results must be given to the administering authority within 14 days following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include —

(a) for a complaint alleging dust nuisance — dust deposition; and

(b) for a complaint alleging adverse health effects caused by dust — the concentration per cubic metre of particulate matter with an aerodynamic diameter of ≤ 10 micrometre (µm) (PM_{10}) suspended in the atmosphere over a 24 hour averaging time.

Air 7 Subject to condition Air 8, the concentration of contaminants must not exceed the maximum release limits specified in the **Table 1 – Contaminant release limits to air.**

Table 1— Contaminant release limits to air

Release point number	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit	Sampling frequency
All generator stacks	25	25 at full power output or pro-rata at lower output	Oxides of nitrogen	143.3 grams per second.	Continuous
			Carbon Monoxide	28.3 grams per second.	First sample within 28 days of commissioning of power plant. Thereafter, once in each period of six months or 876 hours of operating, whichever is the longer interval, but no longer than 12 months.
			Sulphur dioxide	6.9 grams per second	
			PM_{10}	22.7 grams per second	
			$PM_{2.5}$	11.35 grams per second	

Air 8 The release limits for oxides of nitrogen are applicable at all times except during start up and shut down phases of operation.

Air 9 Start-up and shut-down phases for the power plant must not exceed the time specified for the phase as follows —
(a) start-up (cold) — 1 hour;
(b) start-up (warm) — 30 minutes; or
(c) shut down — 30 minutes.

Air 10 Contaminants may be discharged only from the release points mentioned in **Table 1 — Contaminant release limits to air**.

Air 11 Contaminants must be directed vertically upwards and without any impedance or hindrance, other than arising from the installation of the stack outlet silencer required under condition Noise 1.

Air 12 Sampling for each contaminant mentioned in **Table 1 — Contaminant release limits to air** must be performed at the frequency specified for the contaminant in that table.

Note: the plant is taken to operate for one (1) hour where one or more generators are generating electricity over that period, regardless of the configuration or electrical output of each generator. Therefore, sampling of all stacks for each contaminant should occur at or about the same time (e.g. emissions from stacks should be undertaken within 1 week, or where a single sampler is used to sample all stacks, sampling of each stack should be undertaken consecutively).

Air 13 The combustion efficiency and electrical efficiency of each gas turbine must be monitored and recorded at all time whilst operational. This continuous monitoring, which is based on process parameters, is required to ensure combustion efficiency and power station efficiency are maintained all the time at the manufacturer's guaranteed performance levels.

Air 14 An audible and visual alarm is to be installed, and the person undertaking the activity to which this approval relates must implement a process to investigate and address instances where the combustion efficiency falls below the manufacturer's guaranteed performance levels and all such alarm instances must be recorded.

Air 15 Monitoring of any releases to the atmosphere required by a condition of this approval must be carried out in accordance with the following requirements —

(a) monitoring provisions for the release points listed in the following table must comply with the Australian Standard AS 4323.1 - 1995 'Stationary source emissions Method 1: Selection of sampling positions' (or more recent editions);
(b) the following tests must be performed for each contaminant specified in Table 1 — Contaminant release limits to air:
- gas velocity and volume flow rate;
- temperature;
- water vapour concentration (moisture content);

(c) where practicable, samples must be taken when emissions are expected to be at maximum rates;
(d) during the sampling period the following additional information must be gathered —
- power station and turbine load;
- number of turbines operating; and
- reference to the actual test methods and accuracy of the methods.

Air 16 Contaminants must be released to the atmosphere from a release point at a height and a flow rate not less than the corresponding height and velocity stated for that release point in **Table 1 — Contaminant release limits to air**.

Air 17 The person undertaking the activity to which this approval relates must submit a report to the administering authority each period of 12 months describing the quality characteristics of emissions from the power station for the contaminants (averaged over the term specified for each characteristic) specified in **Table 2 – Reporting emissions characteristics.**

Table 2 — Reporting emissions characteristics

Monitoring point	Quality characteristics	Data report as	Averaging period for reporting of emissions
All stack discharge points	Combustion efficiency [CO] v [CO_2]	$\frac{[CO] \times 100}{[CO_2]^2 \times 1}$ or as agreed in writing by the administering authority	Six monthly
All stack discharge points	Oxides of Nitrogen	Parts per million & Grams/Second	Six monthly
All stack discharge points	Sulphur dioxide	Parts per million & Grams/second	Twelve monthly

Note: [CO_2] means the concentration of carbon dioxide and [CO] means the concentration of carbon monoxide.

Air 18 The person undertaking the activity to which this approval relates must—
(a) implement a monitoring program to regularly leak test all components including pumps, piping and controls, vessels and tanks;
(b) implement operating, maintenance and management practices to mitigate fugitive emission sources; and
(c) ensure ducting and extraction systems that transfer effluent gases from one location to another must be constructed, operated and maintained so as to minimise any leakage of effluent gases and vapours to the atmosphere occurring from these sources.

Air 19 The release of noxious or offensive odours or any other noxious or offensive airborne contaminant resulting from the activity to which this approval relates must not cause a nuisance at any nuisance sensitive place or commercial place.

Air 20 The person undertaking the activity to which this approval relates must install a monitoring station, in accordance with Australian Standard AS2923 — 1987 (Ambient air – guide for measurement of horizontal wind for air quality applications) (or a later standard), to record and log the following parameters —
- barometric pressure;

- humidity;
- temperature; and
- wind speed and direction.

Air 21 The data from the monitoring station mentioned in condition Air 20 must be given to the administering authority or an authorised person upon request.

Air 22 The person undertaking the activity to which this approval relates must install and operate a device to measure and record the total hours of operation of each generator, and the total accumulated hours of operation where the plant is generating electricity, and the record must be given to the administering authority or an authorised person upon request.

Agency Interest: Land

Land 1 A person must not, at any time, release contaminants to land, except to an evaporation pond at the authorised place that complies with condition Water 6 and that is designed and maintained specifically for the purpose of containing or treating the contaminant.

Land 2 If contaminants are released from the authorised place to land outside the authorised place, the person undertaking the activity to which this approval relates must as soon as reasonably practicable, notify, in writing, all persons affected or likely to be affected by the release, by providing the following information:

(a) the nature and extent of the contaminant release;
(b) a description of the contaminant released;
(c) if the incident involves the release of a chemical — a copy of the Material Safety Data Sheet for the chemical; and
(d) stating that the person who released the contaminant to land, or if the person who released the contaminant is not known, the person undertaking the activity to which the approval relates is required to remove or neutralise the contamination at the place.

Land 3 If contaminants are released from the authorised place to land contrary to this approval, the person who released the contaminant from the authorised place, or if the person who released the contaminant is not known, the person undertaking the activity to which this approval relates, must take all reasonable and practicable measures to remove or neutralise the contamination from the affected land, subject to directions of the landholder or occupier of the affected land and the administering authority or an authorised person.

Land 4 To remove any doubt, condition Land 3 does not authorise any person to enter another person's land without the consent of the landowner or occupier.

Land 5 The person who released the contaminant, or if the person who released the contaminant is not known, the person undertaking the activity to which this approval relates, shall be liable to pay all costs for removal or neutralisation of contaminants released to land contrary to this approval.

Land 6 All fuels and chemicals must be stored in an on-site containment system of a type suitable to prevent the spillage of the material and its discharge to the environment.

Land 7 In all instances, the storage and handling of chemicals and fuels done in accordance with the relevant Australian Standard (as amended or substituted by a later standard) shall be taken to be sufficient for compliance with condition Land 6.
At this date, see Standards:

- AS1940 — 2004 The storage and handling of flammable and combustible liquids;
- AS3780 — 2008 The storage and handling of corrosive substances; and
- AS/NZS 3833:2007 The storage and handling of mixed classes of dangerous goods, in packages and bulk intermediate containers.

Agency Interest: Noise

Noise 1 The following noise attenuation devices and design specifications must be installed or applied to the power plant before it is commissioned —

- air inlet attenuator;
- stack outlet silencers;
- stack body noise absorbing material;
- transformer noise attenuation barriers; and
- gas turbine and generator hall enclosures.

Noise 2 Noise from the activity to which this approval relates must not cause an environmental nuisance at any nuisance sensitive place or commercial place.

Noise 3 All noise from the power station, in any phase of operation, must not exceed the levels specified in **Table 3 – Noise limits at any nuisance sensitive place or commercial place**.

Table 3 — Noise limits at any nuisance sensitive place or commercial place

Noise level dB(A) measured as	7am - 6pm	6pm - 10pm	10pm - 7am
	Noise measured at a "nuisance sensitive place"		
$L_{Aeq, adj, 15 mins}$	43	38	37
	Noise measured at a "commercial place"		
$L_{Aeq, adj, 15 mins}$	48	43	42

Noise 4 When requested by the administering authority, the person undertaking the activity to which this approval relates must undertake, or commission the undertaking of, noise monitoring to investigate any complaint of noise nuisance, and the administering authority given a copy of the results of the monitoring within 14 days of the completion of monitoring. Monitoring must include the following —

(a) background noise level;
(b) $L_{Aeq, adj, 15 min}$;
(c) the level and frequency of occurrence of impulsive or tonal noise;
(d) atmospheric conditions including wind speed and direction;
(e) effects due to extraneous factors such as traffic noise; and
(f) location, date and time of recording.

Noise 5 The method of measurement and reporting of noise levels must comply with the latest edition of the 'Noise Measurement Manual' as published from time to time by the administering authority.

Agency Interest: Social

Social 1 The person undertaking the activity to which this approval relates must record the following information for each complaint received about the activity —

(a) time, date, name and contact details of the complainant;
(b) reasons for the complaint;
(c) any investigations undertaken by the person undertaking the activity to which this approval relates;
(d) conclusions formed by the person undertaking the activity to which this approval relates following the investigation; and
(e) any actions taken by the person undertaking the activity to which this approval relates to resolve the complaint(s).

Social 2 External lighting at the authorised place must conform to AS 4282 — 1997 (Control of the obtrusive effects of lighting) (or a later Australian Standard).

Social 3 Light emitted from the authorised place must not cause nuisance at a nuisance sensitive place.

Agency Interest: Waste

Waste 1 Sludges or any industrial wastewaters from the evaporation ponds may be disposed of only in the following ways:

- discharging to trade waste infrastructure (whether by direct connection to the authorised place or otherwise) in accordance with a trade waste approval; or
- tankering off-site to a facility authorised under the *Environmental Protection Act 1994* to receive the waste.

Waste 2 The person undertaking the activity to which this approval relates must ensure that regulated waste that are to be sent to another facility for disposal or treatment are transported only by a person authorised under the *Environmental Protection Act 1994* to transport it.

Waste 3 Waste (other than wastewater or sludges in the evaporation pond) must be removed from the authorised place within the timeframe specified for the waste as follows —

(a) if the waste is surplus from the construction of the power station — within three (3) months after the power station is commissioned; or

(b) otherwise—within three (3) months of the waste being generated.

Waste 4 Waste generated by the activity to which this approval relates must be stored, pending its lawful disposal to landfill or to a recycling facility, or another place with the written approval of the administering authority, in a location at the authorised place where it is not visible to a person outside the authorised place.

Waste 5 Waste must not be imported for storage or disposal at the authorised place.

Waste 6 Waste must not be buried or burned at the authorised place.

Agency Interest: Water

Water 1 Erosion protection and sediment control measures must be implemented and maintained to minimise erosion and prevent the release of sediment to any surface waters during construction of the power plant.

Water 2 A person must not allow or cause industrial wastewater or stormwater from the authorised place that has been in contact with any contaminant arising from the activity to be released to land or waters, other than to an on-site evaporation pond that complies with condition Water 6, at any time.

Water 3 All industrial wastewater or stormwater that has been in contact with any contaminant associated with the conduct of the activity to which this approval relates must be diverted to an on-site evaporation pond that complies with condition Water 6.

Water 4 All evaporation ponds must be constructed in a way that achieves Q100 flood line immunity.

Water 5 Evaporation ponds must have sufficient capacity to contain runoff expected from a 24-hour storm with an average recurrence interval of 1 in 5 years.

Water 6 The person undertaking the activity to which this approval relates must ensure that all evaporation ponds used for the storage or treatment of industrial wastewater or contaminated stormwater are constructed, installed and maintained —

(a) so as to prevent any release of contaminants through the bed or banks of the pond to any waters (including ground water);

(b) so that a freeboard of not less than 0.5 metres is maintained at all times; and

(c) so as to ensure the stability of the ponds construction.

Water 7 The person undertaking the activity to which this approval relates must ensure that industrial wastewater or contaminated stormwater is disposed of in accordance with condition Waste 1 if the evaporation ponds are not in compliance with condition Water 6, until such time as the noncompliance with condition Water 6 is rectified.

Water 8 The person undertaking the activity to which this approval relates must ensure that suitable banks or diversion drains are built and maintained to prevent stormwater runoff from entering any ponds or other structures used for the storage or treatment of industrial wastewater or contaminated stormwater.

Water 9 Banks and diversion drains must be of suitable design and capacity to disperse non-contaminated stormwater so as not to cause flooding, or contribute to increased flood potential, of the area.

End Of Conditions

DEFINITIONS

Words and phrases used throughout this permit are defined under the *Environmental Protection Act 1994*. Where a term is not defined under the *Environmental Protection Act 1994*, or the term is defined below, the definition in this permit prevails.

"activity" include that part, if any, of an activity relating to:

- preparing the authorised place for the activity before carrying out the activity; or
- rehabilitating the authorised place after it has been used for carrying out the activity.

"authorised place" means Lot 191 CSH2361 situated at Ranger Road, ADARE QLD 4343.

"background noise" means either —

- $L_{A90, T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or
- $L_{Abg, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

"commercial place" means a place, other than a nuisance sensitive place, that is used as 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.

"dwelling" means any of the following structures or vehicles that is principally used as a residence –

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land; or
- a water craft in a marina.

"$L_{Aeq,adj,15min}$" means an A-weighted sound pressure level of a continuous steady sound, adjusted for tonal character, that within a 15 minutes period has the same mean square sound pressure as a sound level that varies with time.

"land" in the "land schedule" of this document means land excluding waters and the

atmosphere. **"noxious"** means harmful or injurious to health or physical well being.

"nuisance sensitive place" means –

- 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; or
- a public thoroughfare, park or gardens.

"offensive" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

"protected area" means –

- a protected area under the *Nature Conservation Act 1992*; or
- a marine park under the *Marine Parks Act 2004*; or
- a World Heritage Area.

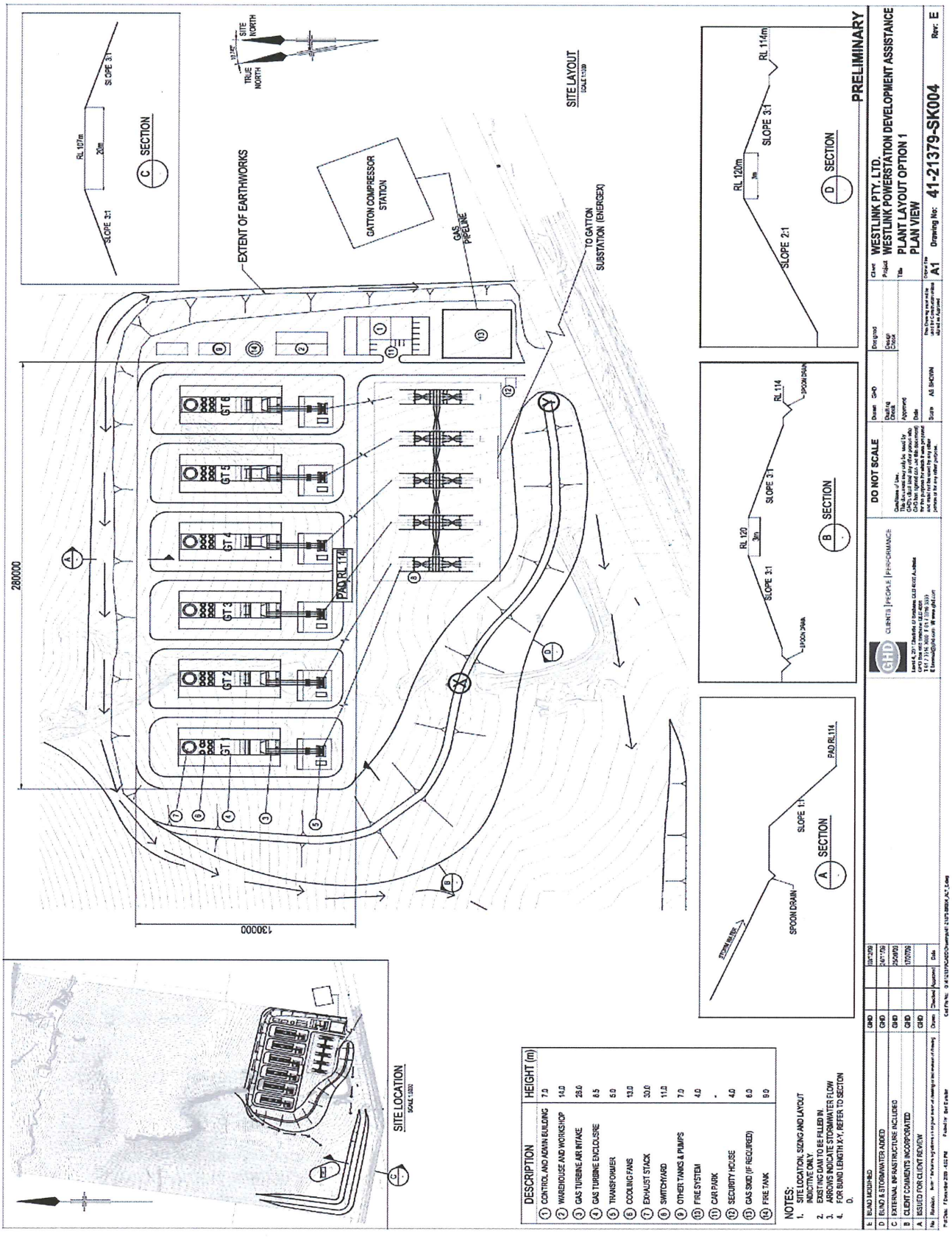
"site" means land on or in which it is proposed to carry out the development approved under this development approval.

"watercourse" means a river, creek or stream in which water flows permanently or intermittently-

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"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.

Appendices


SITE LAYOUT
SCALE 1:1500
SITE LOCATION
SCALE 1:200
EXTENT OF EARTHWORKS
GATTON COMPRESSOR STATION
GAS PIPELINE
TO GATTON SUBSTATION (ENERGEX)
SITE NORTH
TRUE NORTH
280000
130000
PAD RL 114
GT 1
GT 2
GT 3
GT 4
GT 5
GT 6
SECTION A
SECTION B
SECTION C
SECTION D
SLOPE 1:1
SLOPE 3:1
SLOPE 2:1
RL 107m
RL 120m
RL 114m
RL 122
20m
3m
SPOON DRAIN
DESCRIPTION
HEIGHT (m)
1 CONTROL AND ADMIN BUILDING 7.0
2 WAREHOUSE AND WORKSHOP 14.0
3 GAS TURBINE AIR INTAKE 25.0
4 GAS TURBINE ENCLOSURE 8.5
5 TRANSFORMER 5.0
6 COOLING FANS 13.0
7 EXHAUST STACK 30.0
8 SWITCHYARD 11.0
9 OTHER TANKS & PUMPS 7.0
10 FIRE SYSTEM 4.0
11 CAR PARK -
12 SECURITY HOUSE 4.0
13 GAS SKID (IF REQUIRED) 6.0
14 FIRE TANK 9.0
NOTES:
1. SITE LOCATION, SIZING AND LAYOUT INDICATIVE ONLY.
2. EXISTING DAM TO BE FILLED IN.
3. ARROWS INDICATE STORMWATER FLOW.
4. FOR BUND LENGTH X-Y, REFER TO SECTION D.
E BUND REQUIRED GHD 19/12/2016
D BUND & STORMWATER ADDED GHD 24/11/16
C EXTERNAL INFRASTRUCTURE INCLUDED GHD 25/08/16
B CLIENT COMMENTS INCORPORATED GHD 17/07/16
A ISSUED FOR CLIENT REVIEW GHD
No. Revision Drawn Checked Approved Date
DO NOT SCALE
GHD
CLIENTS | PEOPLE | PERFORMANCE
PRELIMINARY
Client WESTLINK PTY. LTD.
Project WESTLINK POWERSTATION DEVELOPMENT ASSISTANCE
Title PLANT LAYOUT OPTION 1
PLAN VIEW
Drawing No: 41-21379-SK004
Rev: E
Paper Size A1
Designed
Drawn GHD
Checked
Approved
Date
Scale AS SHOWN

END OF ENVIRONMENTAL AUTHORITY