Department of Environment and Resource Management

COPY

Registration certificate

Environmental Protection Act 1994

Registration certificate

No: ENRE00849608

This registration certificate is issued by the administering authority and takes effect from: 23-MAR-2011.

The anniversary day for the purposes of the Annual Return remains: 20 November.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following place; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-
Dyno Nobel Moranbah Pty Ltd
70 Southbank Boulevard
SOUTHBANK VIC 3006

Place:-
Lot 14 Plan SP191699
Located at:-
Broadmeadows Road via Goonyella Road,MORANBAH QLD 4744
Registered Activity: -
ERA 63 Sewage treatment Threshold 2(a) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP (i) if treated effluent is discharged to an infiltration trench or through an irrigation scheme

C. E. Birt

Cathy Birt
Delegate
Department of Environment and Resource Management
Environmental Protection Act 1994

23-MAR-2011

Department of Environment and Resource Management
www.derm.qld.gov.au ABN 46 640 294 485

Queensland Government

Sustainable Planning Act 2009

Date application received:	23 January 2013
Permit type:	Development Permit
Date of decision:	7 March 2013
Decision:	The application is approved subject to conditions and any concurrence agency conditions are included in this permit
Relevant laws and policies:	*Environmental Protection Act 1994* and any related statutory instruments and subordinate legislation
Jurisdiction(s):	Material change of use of premises– For an environmentally relevant activity (ERA): *Sustainable Planning Regulation 2009* Schedule 3, Part 1, Table 2, item 1

Development Description:

Property/Location		Development
Lot 14 on SP191699 & Lot 13 on SP191679	Broadmeadows Road (via Goonyella Road), MORANBAH 4744	ERA 63 Sewage treatment Threshold 2 operating sewage treatment works, other than no-release works, with a total daily peak design capacity of – (b)100 to 1500EP – (i) if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.

Reason(s) for inclusion of conditions:

In accordance with section 289 of the *Sustainable Planning Act 2009*, the reason(s) for inclusion of conditions stated in this permit required by the concurrence agency response for the application are as follows.

The Department of Environment and Heritage Protection is recognised as a concurrence agency under the *Sustainable Planning Regulation 2009* for Environmentally Relevant Activities (ERAs). Development conditions placed on the development permit for this application are pursuant to section 345 of the *Sustainable Planning Act 2008* and section 73B of the *Environmental Protection Act 1994*.

The description of any ERA for which a development permit is issued is a restatement of the ERA as defined by legislation at the time the permit is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by a development permit as to the scale, intensity or manner of carrying out the ERA, then the conditions prevail to the extent of the inconsistency.

As part of the development permit, the following development conditions apply:

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CONDITIONS

Activity: **ERA 63 Sewage treatment Threshold 2 operating sewage treatment works, other than no-release works, with a total daily peak design capacity of – (b)100 to 1500EP – (i) if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.**

LIST OF SCHEDULES:

SCHEDULE A: GENERAL

SCHEDULE B: AIR

SCHEDULE C: WATER

SCHEDULE D: LAND

SCHEDULE E: WASTE

SCHEDULE F: NOISE

SCHEDULE G: MONITORING AND REPORTING

SCHEDULE H: COMMUNITY

SCHEDULE I: DEFINITIONS

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SCHEDULE A: GENERAL

Scope

(A1) This development approval authorises the construction and operation of a sewage treatment plant at Lot 14 on SP191699 & Lot 13 on SP191679 with a maximum daily treatment design capacity of no more than 1500 equivalent persons.

Copy of Development Approval Must Be Kept At Approved Place

(A2) A copy of this development approval must be kept at the approved place.

Alterations

(A3) No alteration of any plant or equipment is permitted if the alteration increases, or is likely to substantially increase, the risk of environmental harm above that expressively provided for by this approval.

Records

(A4) Any records made as a condition of this approval must be kept for a minimum of five years.

Monitoring

(A5) A suitably qualified and competent person(s) must conduct all monitoring required by this approval.

Appropriate Signage

(A6) Pipelines and fittings associated with the sewage treatment system must be clearly identified. Lockable valves or removable handles must be fitted to all release pipes situated in public access areas.

(A7) Signage in accordance with *AS 3500.1:2003 Plumbing and drainage – Water services* must be prominently displayed on areas undergoing effluent irrigation. These notices must be clearly visible and maintained in a legible condition.

Alarms

(A8) An ERA to which this approval relates, must be fitted with an alarm system(s) that, as a minimum, notifies the operator of the following:

(a) pump failure;

(b) electrical faults and power outage;

(c) high and low sewage levels in tanks;

(d) overflows from plant and pump stations;

(e) blower failure; and

(f) disinfection failure.

END OF CONDITIONS FOR SCHEDULE A

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SCHEDULE B: AIR

Nuisance

(B1) Noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.

END OF CONDITIONS FOR SCHEDULE B

SCHEDULE C: WATER

Release to Waters

(C1) An ERA to which this approval relates must not release contaminants to waters, a roadside gutter or stormwater drainage.

(C2) An ERA to which this approval relates must not release contaminants at a place, and in a way, so that the contaminant could reasonably be expected to wash, or otherwise move into waters, a roadside gutter or stormwater drainage.

Stormwater Management

(C3) Infrastructure associated with ERA activities at the approved place must incorporate appropriate stormwater diversion drains and channels to prevent stormwater from entering contaminated, or potentially contaminated, areas.

END OF CONDITIONS FOR SCHEDULE C

SCHEDULE D: LAND

Land Disposal – Irrigation

(D1) Irrigation using treated effluent must be carried out in a manner such that:

(a) there is no surface ponding of effluent;

(b) there is no runoff of effluent off-site;

(c) percolation of effluent beyond the plant root zone is minimised;

(d) the capacity of the soils to assimilate effluent is not exceeded; and

(e) the quality of ground water is not adversely affected.

(D2) The daily volume of contaminants released to land must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations, estimates and flows.

(D3) All biomass that is harvested from irrigated areas must be removed from said areas.

Release Limits to Land

(D4) Contaminants are only permitted to be released from the treatment plant to land in compliance with the limits stated in **Schedule D – Table 1: Contaminant release limits to land.**

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Schedule D – Table 1: Contaminant release limits to land

Quality Characteristics	Limit Type	Release Limit	Monitoring Frequency
5 Day Biological Oxygen Demand (BOD_5)	maximum	50 mg/L	Monthly
Total Nitrogen	average	38 mg/L	
Total Phosphorous	maximum	10 mg/L	
pH	within	6.5-8.5	

(D5) When irrigating to land monitoring must be undertaken not less frequently than specified in **Schedule D – Table 1** and **Schedule D – Table 2.** All analyses of the quality of contaminants released must be:

(a) made in accordance with methods prescribed in the latest version of the administering authority's *Water Quality Sampling Manual*; and

(b) carried out on samples that are representative of the effluent discharge.

Monitoring of Soils

(D6) The registered operator of the ERA to which this development approval relates, must monitor and keep records of soil characteristics which include top-soil and sub-soil samples taken from a representative location in the irrigation area and at the frequency specified in **Schedule D – Table 2: Monitoring parameters and frequency for soils within irrigation areas**.

Schedule D – Table 2: Monitoring parameters and frequency for soils within irrigation areas

Parameter	Units	Frequency
Electrical conductivity	µS/cm	On commencement, and biannually thereafter
Total Nitrogen	mg/kg	
Total Phosphorous	mg/kg	
Sodium Absorption Ratio (SAR)	N/A	

(D7) Any significant variation in soil monitoring data must be reported to the administering authority in accordance with **Schedule G** of this permit.

Wet Weather Conditions

(D8) When conditions prevent the irrigation of treated effluent to land, the contaminants must be directed to a wet weather storage facility with a minimum storage capacity of 2 megaliters.

(D9) Effluent is not to be irrigated to land:

(a) during a rain event; or

(b) while surface water is visible in the irrigation area.

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Alternative Disposal

(D10) Alternative measures must be taken to store/lawfully dispose of effluent (such as tanking off site to another treatment plant or sewer) when conditions prevent the:

(a) effective treatment of the influent;

(b) irrigation of treated effluent to land; or

(c) transfer of effluent to a wet weather storage.

Public Access

(D11) Members of the public must not be allowed to access the sewage treatment infrastructure without the approval of the operator.

SCHEDULE E: WASTE

Waste General

(E1) Waste generated in the carrying out of an ERA to which this approval relates must be stored, handled and transferred in a proper and efficient manner so as to prevent spillage or contamination of land or waters.

(E2) This plant is not licenced to receive regulated waste.

END OF CONDITIONS FOR SCHEDULE E

SCHEDULE F: NOISE

Nuisance

(F1) Noise resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.

END OF CONDITIONS FOR SCHEDULE F

SCHEDULE G: MONITORING AND REPORTING

Notification of Incidents / Emergencies

(G1) The registered operator must telephone the administering authority's Pollution Hotline or local office as soon as practicable, but within 24 hours, after becoming aware of any release of contaminants or monitoring results not in accordance with the conditions of this approval.

Information to Follow Notification

(G2) A written notice detailing the following information must be provided to the administering authority within fourteen (14) days of any advice provided in accordance with condition **(G1)**:

(a) the name of the operator, including their approval / registration number;

(b) the name and telephone number of a designated contact person;

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(c) quantity and substance(s) released;

(d) vehicle and registration details;

(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.

Annual Monitoring Report

(G3) An annual monitoring report must be prepared each year and presented to the administering authority. This report shall include but not be limited to:

(a) a summary of the previous twelve (12) months monitoring results obtained under any monitoring programs required under this approval and, in graphical form showing relevant limits, a comparison of the previous twelve (12) months monitoring results to both this approvals limits and to relevant prior results;

(b) an evaluation/explanation of the data from any monitoring programs;

(c) a summary of any record of quantities of releases required to be kept under this approval;

(d) a summary of the record of equipment failures or events recorded for any site under this approval; and

(e) an outline of actions taken or proposed to minimise the environmental risk from any deficiency by the monitoring or recording programs.

END OF CONDITIONS FOR SCHEDULE G

SCHEDULE H: COMMUNITY

Complaint Response

(H1) All complaints received must be recorded, including investigations undertaken, conclusions formed and action(s) taken. This information must be made available to the administering authority on request.

END OF CONDITIONS FOR SCHEDULE H

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SCHEDULE I: DEFINITIONS

Words and phrases used throughout this permit are defined below. Where a definition for a term used in this permit is sought and the term is not defined within this permit the definitions provided in the relevant legislation shall be used.

"administering authority" means the Department of Environment and Heritage Protection or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *Environment Protection Act 1994*) for the section 73F registration certificate that applies to the development approval.

"authorised person" means a person holding office as an authorised person under an appointment under the *Environmental Protection Act 1994* by the chief executive or chief executive officer of a local government.

"authorised place" means the place authorised under this development permit for the carrying out of the specified environmentally relevant activities.

"commercial place" means a place used as an office or for business or commercial purposes.

"commissioning" means the condition of anything in active service or use.

"contaminant" can be-

- a gas, liquid or solid; or
- an odour; or
- an organism (whether alive or dead), including a virus; or
- energy, including noise, heat, radioactivity and electromagnetic radiation; or
- a combination of contaminants.

"control measure" means a device, equipment, structure, or management strategy used to prevent or control the release of a contaminant or waste to the environment.

"general waste" means waste other than regulated waste.

"land" means land excluding waters and the atmosphere.

"material" means a material in its solid, liquid or gaseous state.

"maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

"minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

"mg/kg" means milligrams per kilogram..

"mg/L" means milligrams per litre.

"noxious" means harmful or injurious to health or physical wellbeing.

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

"permit" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Sustainable Planning Act 2009*.

"rain event" means the duration of any precipitation from the atmosphere.

"release" of a contaminant into the environment, includes—

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- to deposit, discharge, emit or disturb the contaminant;
- to cause or allow the contaminant to be deposited, discharged emitted or disturbed;
- to fail to prevent the contaminant from being deposited, discharged, emitted or disturbed;
- to allow the contaminant to escape; and
- to fail to prevent the contaminant from escaping.

"release limits" means the release limit of a characteristic or property (each being a contaminant under the *Environmental Protection Act 1994*) mentioned for treated effluent released from an ERA to which this approval relates: Schedule D – Table 1.

"regulated waste" means waste that is of a type, or contains a constituent of a type, mentioned in Schedule 7 of the *Environmental Protection Regulation 2008* and includes-

- for an element - any chemical compound containing the element; and
- anything that contains residues of the waste.

"significant variation" means a change of greater than 50 per cent from any previous data.

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

"soil" means-

- that portion of the earth's surface in which plants grow; a well-developed system of inorganic and organic material and of living organisms; and
- particular kind of earth, e.g. *sandy soil.*

"suitably qualified person" means a person with qualifications in the relevant area or field and at least 5 years' experience in that relevant technical area or field.

"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.

"works" or "operation" means the development approved under this development approval.

END OF CONDITIONS FOR SCHEDULE I

END OF CONDITIONS

KMClarke

Delegate

Katrina Clarke
Delegate, Chief Executive administering the *Environmental Protection Act 1994*

7 March 2013