Queensland Government

Department of
Environment and Heritage Protection

17-JUN-2014

To: Downer Edi Works Pty Ltd
C/- PO Box 1057
MUDGEERABA QLD 4213

Attention: Mr Tyson Dodd Email: tyson@jtenvironmental.com.au

Our reference: 313637

Application details

I refer to the application that was received by the administering authority on 17-JUN-2014.

Land description: Rafter Road GYMPIE Lot 3 Plan SP157908.

Decision

Your application has been approved and your environmental authority (reference EPPR02278614) is attached.

Should you have any further enquiries, please contact Margaret Jones on telephone 1300 130 372 (Option 4).

Yours sincerely



17/06/2014

Signature Date

Jodie Brackenbury
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR02278614)

Margaret Jones
Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5875
Email: palm@ehp.qld.gov.au
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Permit[1]

Environmental Protection Act 1994

Environmental authority

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

Permit[1] number: EPPR02278614

Environmental authority takes effect on 17-JUN-2014.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Downer Edi Works Pty Ltd	C/- JT Environmental Pty Ltd PO Box 1057 MUDGEERABA QLD 4213

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
15-Fuel burning >500kg hr 6 Asphalt manufacturing 1000t or more in a year	Rafter Road GYMPIE - Lot 3 Plan SP157908

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority 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).

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

17/06/2014

Date

Jodie Brackenbury
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Margaret Jones
Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5875
Email: palm@ehp.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

Location:	Rafter Road GYMPIE
Lot/Plan:	Lot 3 Plan SP157908
Relevant activities:	15-Fuel burning >500kg hr
	6 Asphalt manufacturing 1000t or more in a year

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

CONDITIONS OF APPROVAL

General Permit Condition

Agency Interest: General

PG1 Prevent and/or minimise likelihood of environmental harm.

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

PG2 Maintenance Of Measures, Plant and Equipment.

The operator of an ERA to which this approval relates must:

(a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and
(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.

PG3 Site Based Management Plan.

From commencement of an ERA to which this approval relates, a site based management plan

(SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.

The SBMP must address the following matters:

(a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals.
(b) Identification of environmental issues and potential impacts.
(c) Control measures for routine operations to minimise 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 continual improvement.

PG4 The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.

PG5 Records.

Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.

PG6 All records required by this approval must be kept for 5 years.

PG7 Waste Records.

A record of all waste must be kept detailing the following information:

a) date of pickup of waste;
b) description of waste;
c) quantity of waste;
d) origin of the waste; and
e) destination of the waste.

Note: Trackable wastes as listed in Schedule 1 of the Environmental Protection (Waste Management) Regulation 2000 are not covered by this condition. Trackable wastes have similar recording requirements to this condition in accordance with a waste tracking system established under the above Regulation.

PG8 Notification.

Telephone the EPA's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

PG9 Information About Spills.

A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition PG8:

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

b) the name and telephone number of a designated contact person;
c) quantity and substance 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.

PG10 Monitoring.

A competent person(s) must conduct any monitoring required by this approval.

PG11 Equipment Calibration.

All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

PG12 Spill Kit.

An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site, and in each vehicle used if the activity is a mobile ERA.

PG13 Spill Kit Training.

Anyone operating under this approval must be trained in the use of the spill kit.

Agency Interest: Air

PA1 Nuisance.

The release of 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.

PA2 Dust Nuisance.

The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.

PA3 When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority 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 (monitored in accordance with Australian Standard AS 3580.10.1 of 2003 (or more recent editions); 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 less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.

PA4 The Release Of Contaminants To The Atmosphere.

The release of contaminants to the atmosphere from a point source must only occur from those release points identified in Table 1 - Contaminant release limits to air and must be directed vertically upwards without any impedance or hindrance.

Table 1 - Contaminant release limits to air

Release point number and description	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit	Sampling frequency
RP1 Wet Scrubber Stack	7	8	Suspended particulates (as PM_{10})	100 mg/m^3	Annually
			Volatile Organic Compounds (VOCs)	100 ppm Note 1	
			Carbon Monoxide	300 ppm Note 2	

Note 1 : parts per million in dry air expressed as propane
Note 2 : parts per million in dry air corrected to 16% O_2

PA5 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.

PA6 Contaminants must not be released to the atmosphere from a release point at a mass emission rate/concentration, as measured at a monitoring point, in excess of that stated in Table 1 - Contaminant release limits to air.

PA7 Contaminants must be monitored not less frequently than specified in Table 1 - Contaminant release limits to air.

PA8 When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by a release to the atmosphere from a release point at the site, and the results thereof notified to the administering authority within 14 days following completion of monitoring.

PA9 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 Table 1 - Contaminant release limits to air 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 required determination specified in Table 1 - Contaminant release limits to air:
    i. gas velocity and volume flow rate;
    ii. temperature;
    iii. 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:
   i. production rate at the time of sampling;
   ii. raw materials used;
   iii. number of equipment and mixing vessels operating;
   iv. operating or mixing temperature;
   v. product made; and
   vi. reference to the actual test methods and accuracy of the methods.

PA10 All release points referred to in Table 1 - Contaminant release limits to air must be conspicuously marked with the corresponding release point number.

Agency Interest: Land

PL1 Preventing Contaminant Release To Land.

Contaminants must not be released to land.

PL2 Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.
NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

Agency Interest: Noise

PN1 Noise from activities must not cause an environmental nuisance at any noise sensitive place or any commercial place.

PN2 All noise from activities must not exceed the levels specified in Table 2 - Noise limits at any nuisance sensitive or commercial place.

Table 2 - Noise limits

Time period	**Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, max\ adj\ T}$** Note 3
7am - 6pm	Background noise level plus 5 dB(A)
6pm - 10pm	Background noise level plus 5 dB(A)
10pm - 7am	Background noise level plus 3 dB(A)
Time period	**Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, max\ adj\ T}$**
7am - 6pm	Background noise level plus 10 dB(A)
6pm - 10pm	Background noise level plus 10 dB(A)
10pm - 7am	Background noise level plus 8 dB(A)

Note 3: $L_{A\ 10,\ adj,\ 15\ mins}$ levels may be substituted for $L_{Amax,\ adj,\ 15\ mins}$ levels if evidence is provided that $L_{A\ 10,\ adj,\ 15\ mins}$ levels are representative of component noise levels from source(s)/premises under investigation.

PN3 Noise Monitoring.

When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:

- $L_{A\ 10,\ adj,\ 10\ mins}$
- $L_{A\ 1,\ adj,\ 10\ mins}$
- the level and frequency of occurrence of impulsive or tonal noise;
- atmospheric conditions including wind speed and direction;
- effects due to extraneous factors such as traffic noise; and
- location, date and time of recording.

PN4 The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

Agency Interest: Social

PS1 Complaint Response.

The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request:

a) Time, date, name and contact details of the complainant;
b) reasons for the complaint;
c) any investigations undertaken;
d) conclusions formed; and
e) any actions taken.

Agency Interest: Water

PWA1 Settled/treated stormwater runoff waters from the site must only be released in compliance with the release limits listed in Table 3 - Contaminant release limits to water, from the discharge location shown in Table 3.

Table 3 - Contaminant release limits to water

Monitoring point	Discharge location	Quality characteristics	Release limit		Monitoring frequency
			Minimum	Maximum	
RP 2	Overflow point from Recyled Water Pond at site boundry	Oil and grease	N/A	1 mg/L	Quarterly
		Total suspended solids	N/A	10 mg/L	
		pH	6.5	8.2	

PWA2 Notwithstanding condition PWA1, any release of stormwater resulting from the site must not contain any contaminants in concentrations and quantities capable of causing environmental harm.

PWA3 All rainfall falling outside the site must be prevented from coming into contact with contaminants through a system of diversion drains and/or embankments.

PWA4 The size of any sedimentation dam must be sufficient to contain the run-off expected from a 24 hour storm with an average recurrence interval of 1 in 5 years.

PWA5 All determinations of the stormwater quality must be made in accordance with methods prescribed in the latest edition of the Environmental Protection Agency Water Quality Sampling Manual, and carried out on samples that are representative of the discharge.

DEFINITIONS

Words and phrases used throughout this permit[1] are defined below. Where a definition for a term used in this permit[1] is sought and the term is not defined within this permit[1] the definitions provided in the relevant legislation shall be used.

"administering authority" means the Environmental Protection Agency 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.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.

"approved plans" means the plans and documents listed in the approved plans section in the notice attached to this development approval.

"authorised place" means the place authorised under this development approval 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.

"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;
- a water craft in a marina.

"Environmental Protection Agency" means the department or agency (whatever called) administering the *Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration –

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.
- In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations.

"$L_{A\ 10,\ adj,\ 10\ mins}$" means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

"$L_{A\ 1,\ adj,\ 10\ mins}$" means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

"$L_{A,\ max\ adj,\ T}$" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

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

"mg/L" means milligrams per litre.

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

"NTU" means nephelometric turbidity units.

"nuisance sensitive place" includes –

- 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 under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- 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.

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

"regulated waste" means non-domestic waste mentioned in Schedule 7 of the *Environmental Protection Regulation 1998* (whether or not it has been treated or immobilised), and includes -

- for an element - any chemical compound containing the element; and
- anything that has contained the waste.

"site" means land or tidal waters 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-

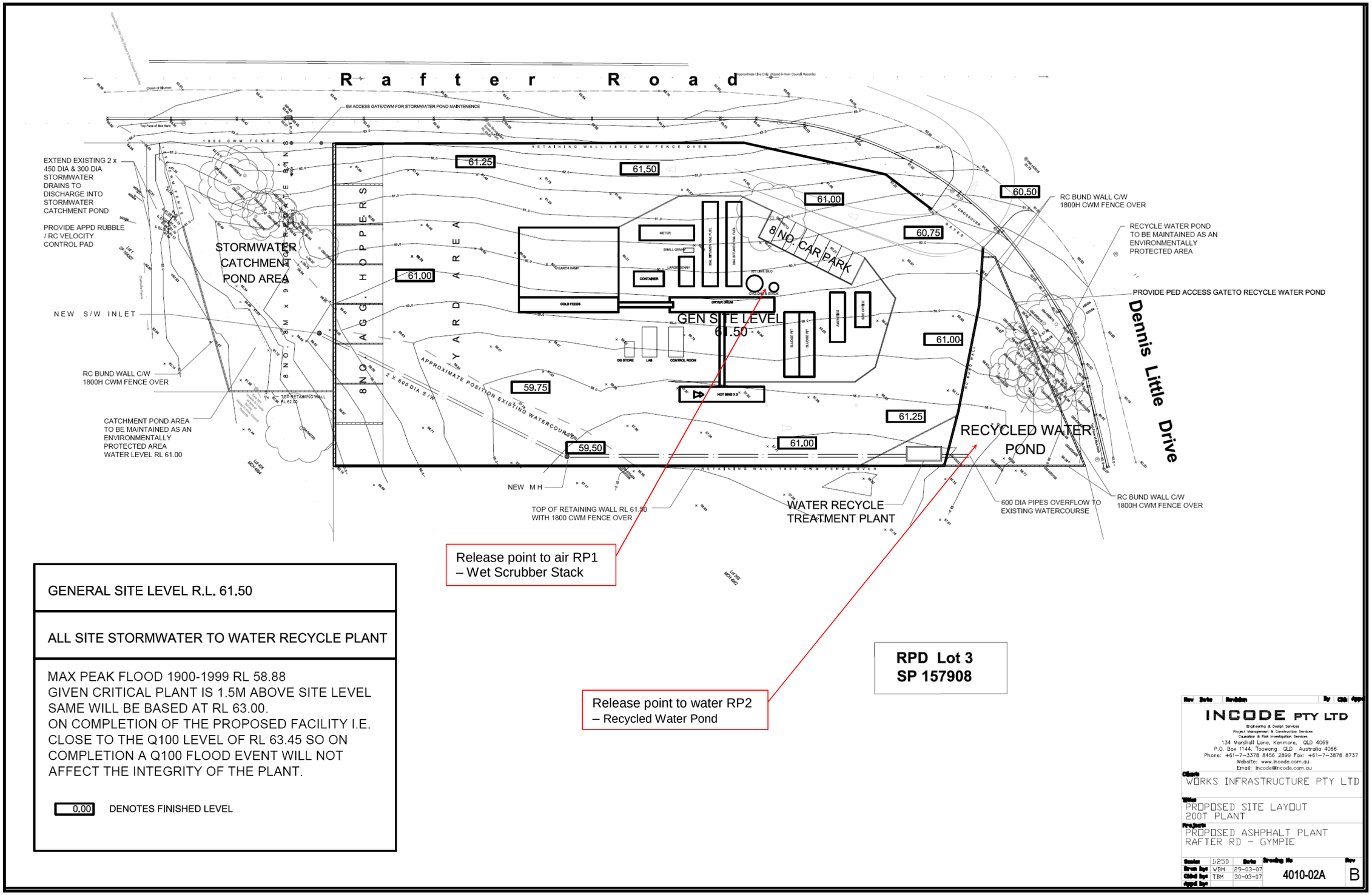
- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"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.

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

"you" means the holder of this development approval or owner / occupier of the land which is the subject of this development approval.

END OF CONDITIONS



Attachment 1 – Site layout for asphalt plant Rafter Road Gympie with emission points shown