Permit

Environmental Protection Act 1994

Environmental authority EPPR02323314

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

Environmental authority number: EPPR02323314

Environmental authority takes effect on 09 May 2019

Environmental authority holder(s)

Name(s)	Registered address
Department of Environment and Science	400 George Street BRISBANE CITY QLD 4000 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 185/FTY1789
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 185/FTY1789
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 202/NPW175
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 185/FTY1789
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-	Lot 185/FTY1789

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Environmentally relevant activity/activities	Location(s)
release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 185/FTY1789

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:

- 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.

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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.

Christine Mooney
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 13 May 2019

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

This environmental authority consists of the following parts:

Applicable Part	Environmentally Relevant Activities	Locations
Part 1	ERA 63 (1a)(i) — Sewage treatment: 21-100 equivalent persons with treated effluent discharged to an infiltration trench or irrigation scheme	**All locations list in the 'Environmentally relevant activity and locations details' table above.**
Part 2	ERA 63 (1a)(i) — Sewage treatment: 21-100 equivalent persons with treated effluent discharged to an infiltration trench or irrigation scheme	**Crater Lakes National Park** **Lake Eacham Day Use Area** GISID 42267 Lot 202 Plan NPW175
Part 3	ERA 63 (1a)(i) — Sewage treatment: 21-100 equivalent persons with treated effluent discharged to an infiltration trench or irrigation scheme	**Danbulla State Forest** **Downfall Creek Camping Area** GISID 5234 — Block #1 GISID 5233 — Block #2 Lot 185 Plan FTY1789
Part 4	ERA 63 (1a)(i) — Sewage treatment: 21-100 equivalent persons with treated effluent discharged to an infiltration trench or irrigation scheme	**Danbulla State Forest** **Fong-On Bay Camping Area** GISID 41605 — Bulmba #3; and GISID 5441 — Gungal #1 Lot 185 Plan FTY1789
Part 5	ERA 63 (1a)(i) — Sewage treatment: 21-100 equivalent persons with treated effluent discharged to an infiltration trench or irrigation scheme	**Danbulla State Forest** **Fong-On Bay Camping Area** GISID 5440 — Bulmba #2 Lot 185 Plan FTY1789

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Part 1 — Common conditions for all locations

Agency interest: General	
Condition number	**Condition**
P1 - G1	All reasonable and practicable **measures** must be taken to prevent the likelihood of **environmental harm** being caused.
P1 - G2	The **activity** must be undertaken in accordance with written procedures that: (a) identify potential risks to the environment from the **activity** during routine operations, closure and an emergency; (b) establish and maintain control **measures** that minimise the potential for environmental harm; (c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; (d) ensure plant, equipment and **measures** are operated in a proper and effective manner; (e) ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994;* and (f) ensure that reviews of environmental performance are undertaken at least annually.
P1 - G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within twenty-four (24) hours of becoming aware of the breach. **Records** must be kept including full details of the breach and any subsequent actions taken.
P1 - G4	All information and records required by the conditions of this environmental authority must be kept for a minimum of five (5) years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
P1 - G5	**You** must record the following details for all environmental **complaints** received: (a) date and time complaint was received; (b) name and contact details of the complainant; (c) nature of the complaint; (d) investigations undertaken; (e) conclusions formed; and (f) actions taken
P1 - G6	When required by the **administering authority,** monitoring must be undertaken in the manner prescribed by the **administering authority,** to investigate a **complaint** not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from

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	the **activity.** The monitoring results must be provided to the **administering authority** upon request.
P1 - G7	The installation must be certified by an approved installer and copies of the documentation provided to the **administering authority** within twenty (20) business days of the completion of the installation of the systems
Agency interest: Air	
Condition number	**Condition**
P1 - A1	Odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place.**
Agency interest: Waste	
Condition number	**Condition**
P1 - WS1	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Water	
Condition number	**Condition**
P1 - WT1	Contaminants must not be released to any **waters.**

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Part 2 — Crater Lakes National Park - Lake Eacham Day Use Area (GISID 42267)

Agency interest: General

Condition number	Condition
P2 - G1	This environmental authority authorises sewage treatment **works** using plant and equipment with a total daily peak design capacity of twenty-one (21) equivalent persons (**EP**).
P2 - G2	All analysis and tests required under this approval must be carried out by a laboratory that has NATA certification for such analysis and tests. The only exception to this condition is for the-situ monitoring of pH, electrical conductivity and chlorine.

Agency interest: Land

Condition number	Condition
P2 - L1	The only contaminants to be released to **land** are advanced treated waste **waters** in accordance with the **Table 1 – Land Release Limits** and the associated requirements.

Table 1 — Land Release Limits

Quality Characteristics	Release Limit	Limit Type
Biological Oxygen Demand	20 mg/L	Maximum
Total Suspended Solids	20 mg/L	Maximum
Total Nitrogen	10 mg/L	Maximum
Total Phosphorus	10 mg/L	Maximum
Electrical Conductivity	1600 µs/cm	Maximum
pH	6.0-8.0	Range
Chlorine	0.5 mg/L	Maximum
E.Coli	<1000 cfu/100ml	Maximum

P2 - L2	Quarterly monitoring of treated wastewater must be carried out to assess compliance with condition P2-L1.
P2 - L3	Treated effluent must be evenly distributed over an area not less than four hundred and twenty square metres (420m²).
P2 - L4	Treated effluent released to **land** must be done in accordance with documentation that ensures: (a) drainage to groundwater and subsurface flows of contaminants to surface **waters** are prevented; (b) surface pondage and run-off of effluent is prevented;

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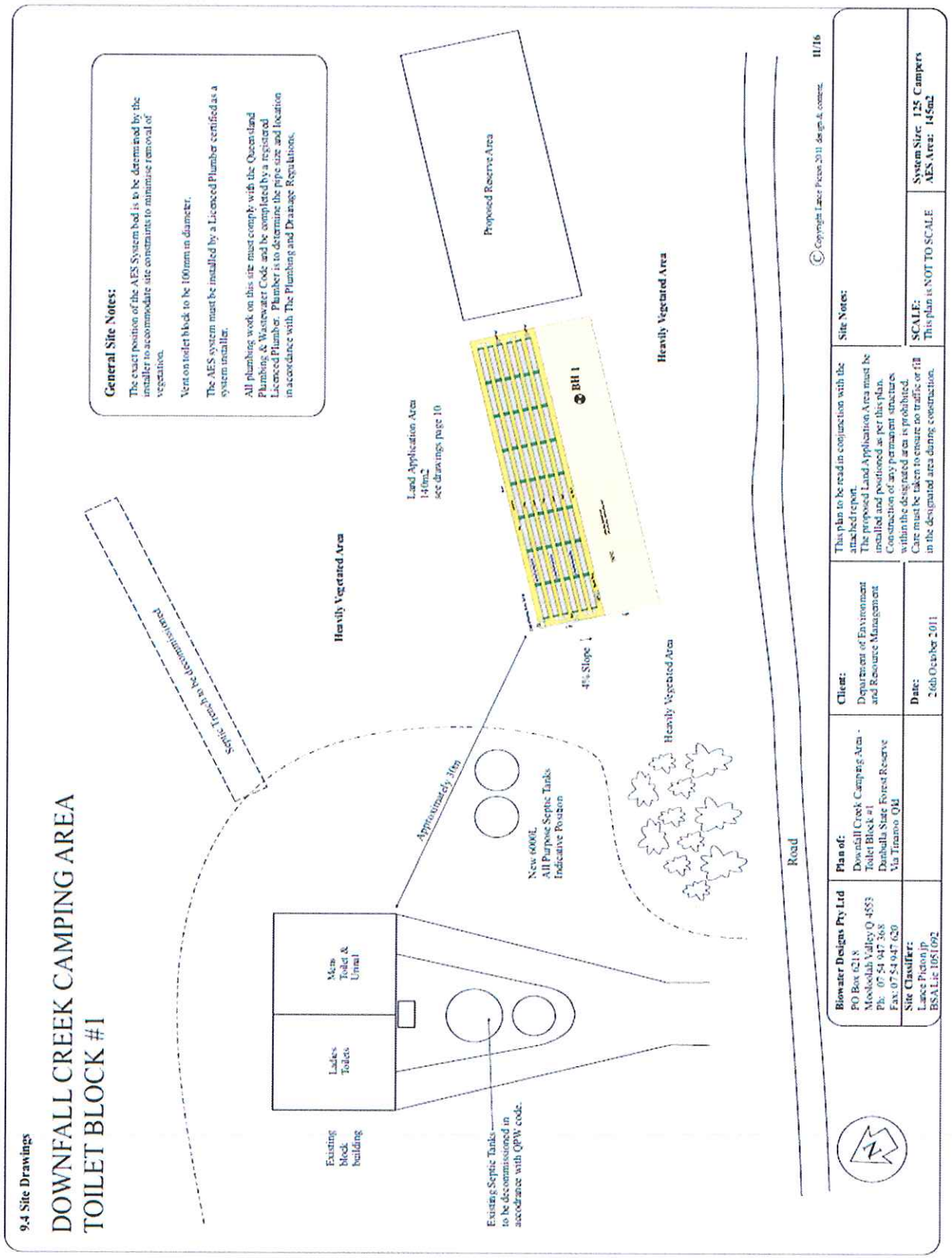
	(c) degradation of soil structure is minimised; (d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; (e) spray drift or overspray does not carry beyond effluent disposal areas; (f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; and (g) sufficient buffer zones are maintained between irrigation **sites** and sensitive environmental receptors.

Part 3 - Danbulla State Forest - Downfall Creek Camping Area (GISID 5234- Block #1 and GISID 5233 - Block #2)

Agency interest: General	
Condition number	**Condition**
P3 - G1	This environmental authority authorises sewage treatment **works** with a peak design capacity of fifty-eight (58) **EP** using septic tanks and an Advanced Enviro-Septic effluent treatment and disposal system.
P3 - G2	The sewage treatment **works** must be constructed in accordance with the *Site & Soil Evaluation: Downfall Creek Camping Area Toilet Blocks 1 and 2, Danbulla State Forest Reserve, via Tinaroo, QLD* as prepared by Biowater, Natural Biological Solutions, dated 26 October 2011.
Agency interest: Land	
Condition number	**Condition**
P3 - L1	The only contaminants permitted to be released to **land** are treated effluent to the **land** application area via an advanced enviro-septic system designed and installed in accordance with the plans specified in **Schedule 1** and **2** of this environmental authority.
P3 - L2	A minimum area of 140m^2 (Toilet block 1- GISID 5234) and 207m^2 (Toilet block 2 - GISID 5233) of **land**, excluding any necessary buffer zones, must be used for the disposal of treated effluent.

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Schedule 1 – Land Application Area (GISID 5234 – Block #1)



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Schedule 2 – Land Application Area (GISID 5233 – Block #2)

9.4 Site Drawings

DOWNFALL CREEK CAMPING AREA TOILET BLOCK #2

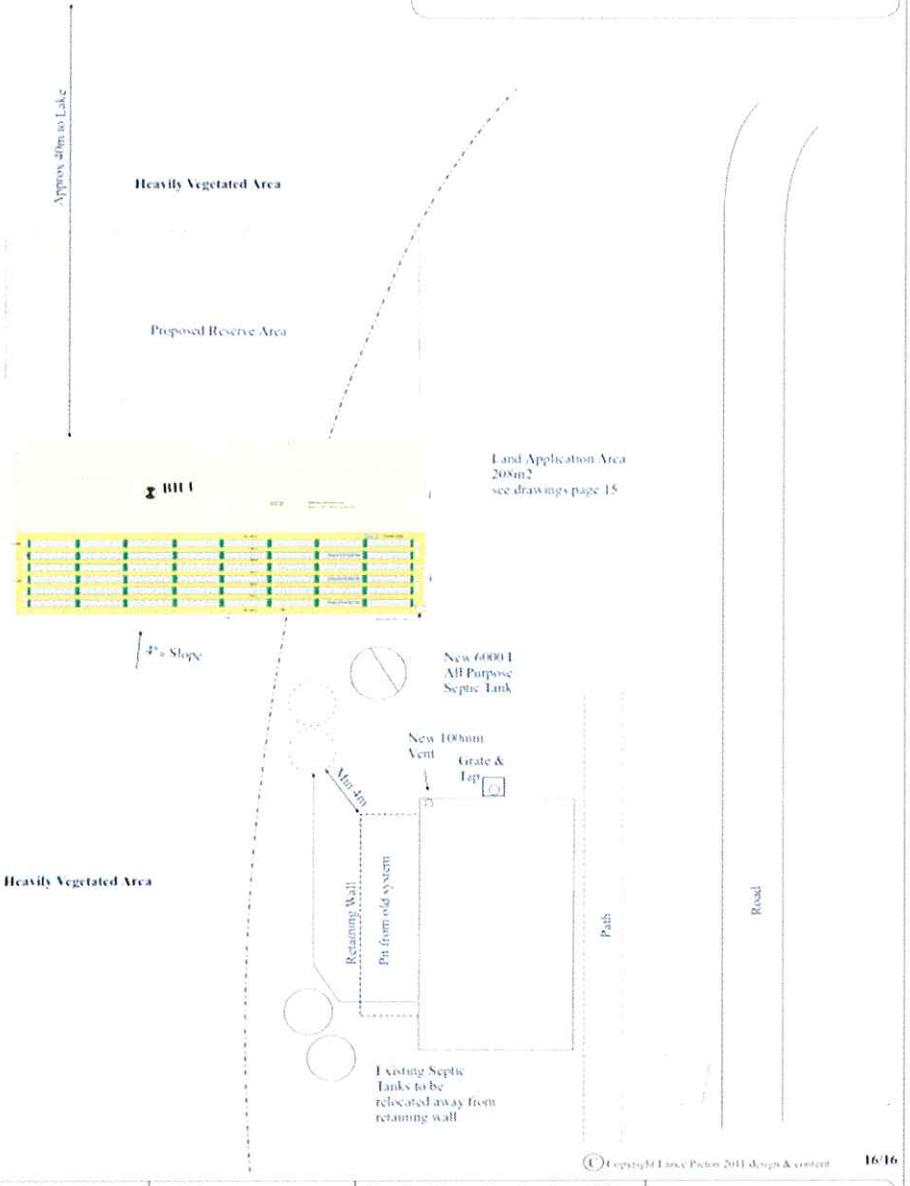
General Site Notes:

The exact position of the AES System bed is to be determined by the installer to accommodate site constraints and minimise removal of vegetation.

Additional Vent to be installed on the toilet block - 100mm

The AES system must be installed by a Licenced Plumber certified as a system installer

All plumbing work on this site must comply with the Queensland Plumbing & Wastewater Code and be completed by a registered Licenced Plumber. Plumber is to determine the pipe size and location in accordance with The Plumbing and Drainage Regulations



Biowater Designs Pty Ltd PO Box 6218 Mooloolah Valley Q 4553 Ph: 07 54 947 368 Fax: 07 54 947 620	**Plan of:** Downfall Creek Camping Area - Toilet Block #2 Danbulla State Forest Reserve Via Innatoo Qld	**Client:** Department of Environment and Resource Management	This plan to be read in conjuction with the attached report The proposed Land Application Area must be installed and positioned as per this plan Construction of any permanent structures within the designated area is prohibited Care must be taken to ensure no traffic or fill in the designated area during construction	**Site Notes:**
Site Classifier: Lance Picton jp BSX Lic 1051092	**System Size: 125 Campers** **AES Area: 208m2**	**Date:** 26th October 2011		**SCALE:** This plan is NOT TO SCALE

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Part 4 — Danbulla State Forest — Fong-On Bay Camping Area (GISID 41605 — Bulmba #3; and GISID 5441 — Gungal #1)

Agency interest: General	
Condition number	**Condition**
P4 - G1	This approval authorises the carrying out of a sewage treatment **works** with a peak design capacity of ninety (90) **EP** at the Fong Bay Camping Areas within the Danbulla State Forest as described in **Table 2 – Sewage Treatment Works**.

Table 2 - Sewage Treatment Works

System Name	Site Description	Sewage treatment works
Gungal #1	GISID 5441	2 x 4500 **L** septic tanks Advanced Enviro- Septic Systems
Bulmba # 3	GISID 41605	2 x 4500 **L** septic tanks Advanced Enviro- Septic Systems

P4 - G2	The sewage treatment **works** described in condition P4-G1 must be constructed in accordance with the *Site and Soil Evaluation, Fong On Bay Campground, Bulmba & Gungal Sections, QLD* as prepared by Biowater, Natural Biological Solutions dated on 20 October 2011.
Agency interest: Land	
Condition number	**Condition**
P4 - L1	The only contaminant permitted to be released to **land** is advanced secondary treated effluent to **land** application areas (i.e. advanced enviro-septic systems) as shown in **Schedule 3** and **4.**
P4 - L2	A minimum area of 172m^2 (Gungal #1 - GISID 5441), 165m^2 (Bulmba #2 - GISID 5440) and 114m^2 (Bulmba #3 — GISID 41605) of **land**, excluding any necessary buffer zones, must be used for the disposal of treated effluent.

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Schedule 3 – Land Application Area (GISID 5441 – Gungal #1)

9.4 Site Drawings

FONG ON BAY CAMPGROUND GUNGAL SECTION

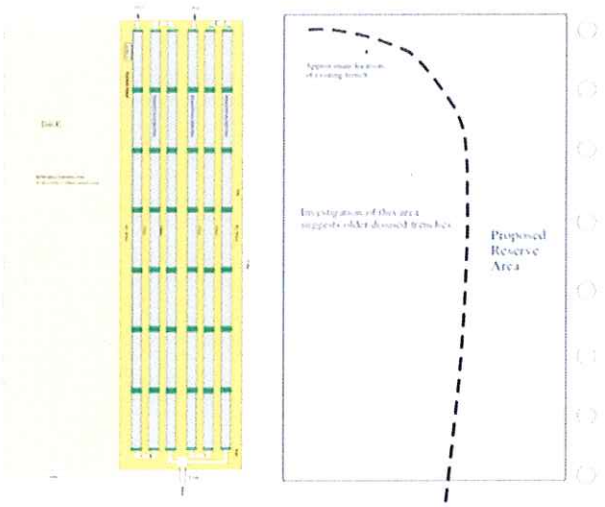
General Site Notes:

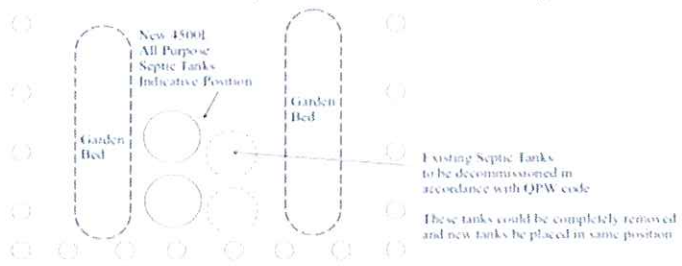
The exact position of the AES System bed is to be determined by the installer to accommodate site constraints.

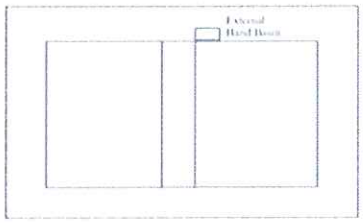
Geotech fabric to be layed across top of existing trenches after excavation for AES Bed, prior to system sand layed in base of bed.

The AES system must be installed by a Licenced Plumber certified as a system installer.

All plumbing work on this site must comply with the Queensland Plumbing & Wastewater Code and be completed by a registered Licenced Plumber. Plumber is to determine the pipe size and location in accordance with The Plumbing and Drainage Regulations.





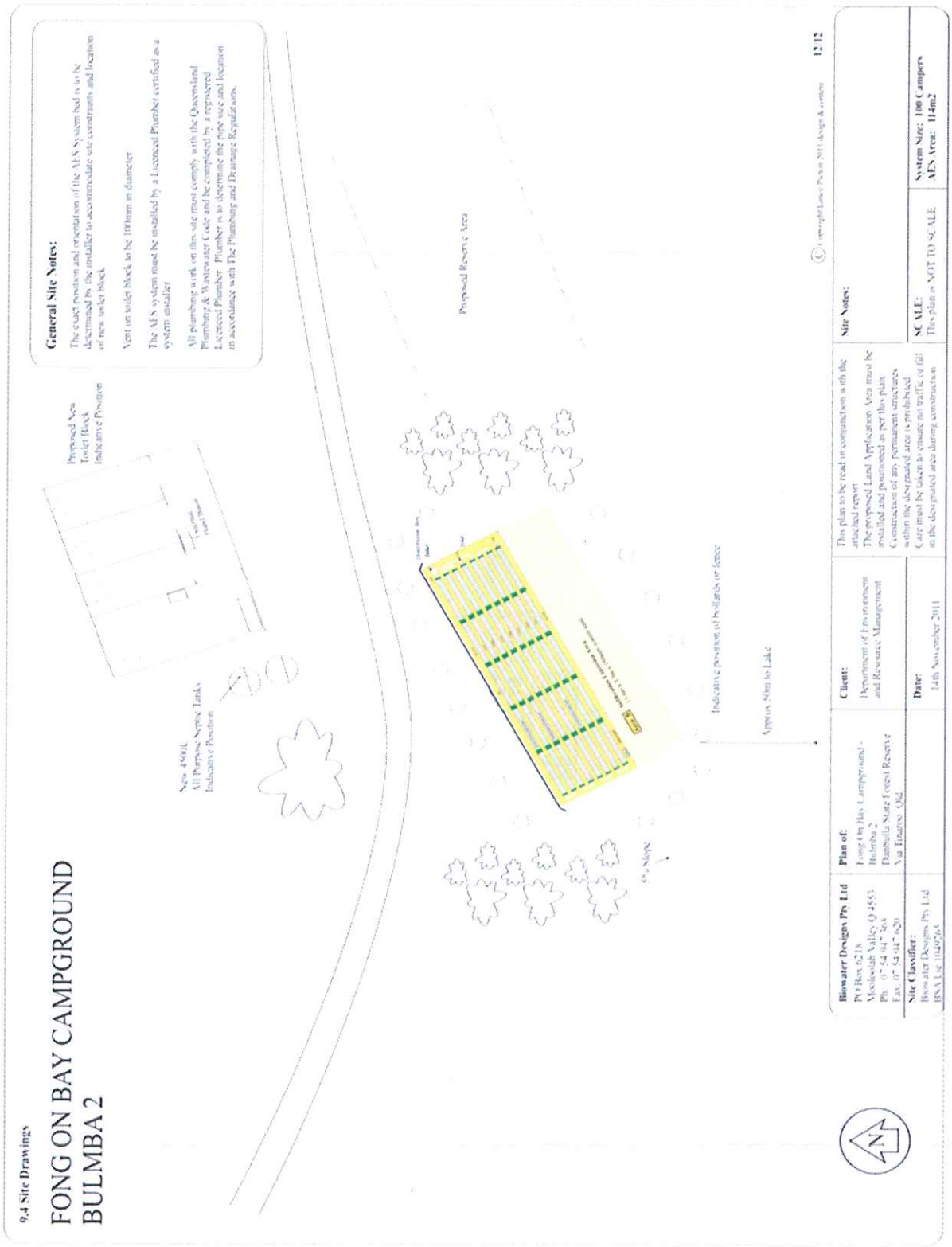


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Biowater Designs Pty Ltd PO Box 6218 Mooloolah Valley Q 4553 Ph: 07 54 947 368 Fax: 07 54 947 620	**Plan of:** Fong On Bay Campground - Gungal Section Daribulla State Forest Reserve Via Tinaroo Qld	**Client:** Department of Environment and Resource Management	This plan to be read in conjunction with the attached report The proposed Land Application Area must be installed and positioned as per this plan Construction of any permanent structures within the designated area is prohibited Care must be taken to ensure no traffic or fill in the designated area during construction	**Site Notes:**
Site Classifier: Biowater Designs Pty Ltd BSA Lic 1049265	**System Size: 100 Campers** **AES Area: 172m2**	**Date:** 20th October 2011		**SCALE:** This plan is NOT TO SCALE

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Scheudle 4 – Land Application Area (GISID 41605 – Bulmba #3)



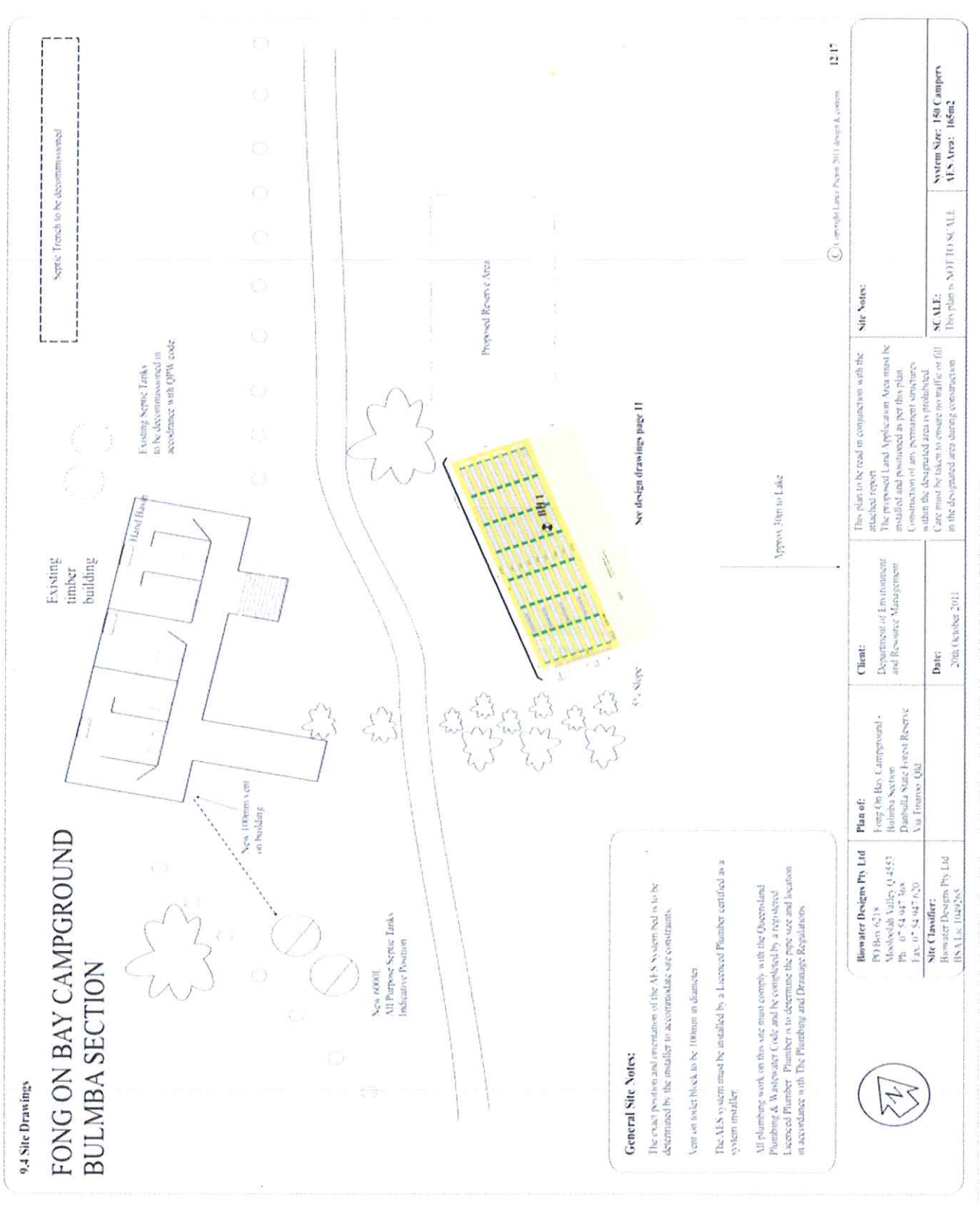
Part 5 — Danbulla State Forest — Fong-On Bay Camping Area (GISID 5440 — Bulmba #2)

<table>
<tr><td colspan="2">Agency interest: General</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>P5 - G1</td><td>This approval authorises the carrying out of a sewage treatment works with a peak design capacity of ninety (60) EP at the Fong Bay Camping Areas within the Danbulla State Forest as described in Table 3 – Sewage Treatment Works.

Table 3 – Sewage Treatment Works.
<table><tr><th>System Name</th><th>Site Description</th><th>Sewage treatment works</th></tr><tr><td>Bulmba #2</td><td>GISID 5440</td><td>2 x 6000 L septic tanks
Advanced Enviro- Septic Systems</td></tr></table></td></tr>
<tr><td>P5 - G2</td><td>The sewage treatment works described in condition P5-G1 must be constructed in accordance with the Site and Soil Evaluation, Fong On Bay Campground, Bulmba 2, Danbulla State Forest Reserve via Tinaroo, QLD as prepared by Biowater, Natural Biological Solutions dated on 14 November 2011.</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>P5 - L1</td><td>The only contaminant permitted to be released to land is advanced secondary treated effluent to land application areas (i.e. advanced enviro-septic systems) as shown in Schedule 5.</td></tr>
<tr><td>P5 - L2</td><td>A minimum area of 165m^2 (Bulmba #2 - GISID 5440) of land, excluding any necessary buffer zones, must be used for the disposal of treated effluent.</td></tr>
</table>

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Schedule 5 – Land Application Area (GISID 5440 – Bulmba #2)



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Definitions

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

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

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.

Contaminant(s) means (Section 11 of the EP Act)

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

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.

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 harm means any adverse effect, or potential adverse effect (whether temporary or permanent and of whatever magnitude, duration or frequency) on an environmental value, and includes environmental nuisance. **Environmental harm** may be caused by an **activity** —

- whether the harm is a direct or indirect result of the **activity**; or
- whether the harm results from the **activity** alone or from the combined effects of the **activity** and other activities or factors.

Environmental nuisance means unreasonable interference or likely interference with an environmental value caused by —

- aerosols, fumes, light, noise, odour, particles or smoke; or
- an unhealthy, **offensive** or unsightly condition because of contamination; or
- another way prescribed by regulation.

EP means equivalent persons, as defined in the *Environmental Protection Regulation 2008.*

Environmentally Relevant Activity (ERA) means an **activity** prescribed by regulation as an ERA.

Land means **land** excluding **waters** and the atmosphere

Noxious means harmful or injurious to health or physical well being.

Nuisance sensitive place includes —

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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 2004 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.

Release of a contaminant into the environment, includes —

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

Site means **land** or tidal **waters** on or in which it is proposed to carry out the development approved under this environmental authority.

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 environmental authority.

You means the holder of the environmental authority.

END OF ENVIRONMENTAL AUTHORITY

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