Permit

Environmental Protection Act 1994

Environmental authority P-EA-100575247

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

Environmental authority number: P-EA-100575247

Environmental authority takes effect on the day it is signed by the delegate. This is the take effect date.

The first annual fee is payable within 20 business days of the take effect date.

The anniversary date of this environmental authority is the same day each year as the take effect date. The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
Smada Bucket No. 2 Pty Ltd (ACN 131 921 214)	Level 1, 184 Main Street KANGAROO POINT QLD 4169

Environmentally relevant activity and location details

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) – operating sewage treatment works, other than no-release works, with a total daily peak capacity of 21 to 100EP – if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1 on Plan RP744856 Wordsworth Road, REID RIVER 4816

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).

Queensland Government

Contaminated land

It is a requirement of the EP Act that an owner or occupier of land give written notice to the administering authority if they become aware of the following:

- the presence of, or happening of an event involving, a hazardous contaminant on the land that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours); or
- if the land is contaminated land – a change in the condition of the land that is causing, or is reasonably likely to cause, serious or material environmental harm (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 land (notice must be given within 20 business days).

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority – on the nominated day; or

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

c) otherwise – on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

	01/03/2024
Signature	Date

Rebecca Griffiths
Department of Environment, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Industry and Development Business Centre
Department of Environment, Science and Innovation
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)

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 Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

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, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(a)(i) – operating sewage treatment works, other than no-release works, with a total daily peak capacity of 21 to 100EP – if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1 on Plan RP744856 Wordsworth Road, REID RIVER 4816

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

Agency Interest: General	
Condition number	**Condition**
PG1	This development approval permits the carrying out of the environmentally relevant activity (ERA), operating a sewage treatment works, using: (a) one package treatment plant and equipment with a peak design capacity of 25 equivalent persons (based on a wastewater generation rate of 200L/ep/day) to treat up to 5,000 litres of sewage generated per day, under peak dry weather flow conditions; and (b) one septic tank with a water capacity of 3000L (connected to the existing 3 bedroom dwelling).
PG2	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.
PG3	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.
PG4	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.
PG5	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
PG6	Records. Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
PG7	All records required by this approval must be kept for 5 years.
PG8	Waste Records. A record of all regulated 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.
PG9	All vehicles used to transport regulated waste must be registered with the administering authority.
PG10	Notification. Telephone the Department of Environment and Resource Management'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.
PG11	Information About Spills. A written notice detailing the following information must be provided to the Department of Environment and Resource Management within 14 days of any advice provided in accordance with condition PG10: (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.
PG12	Monitoring. A competent person(s) must conduct any monitoring required by this approval.
PG13	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.
PG14	Trained / Experienced Operator(s). The daily operation of the waste water treatment system and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
PG15	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.
PG16	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.

Agency Interest: Land

PL1

Land Disposal.

The only contaminants permitted to be released to land are treated effluent to the areas shown in appendix 1 – Concept layout on Lot 1 RP744856 in compliance with the limits and levels stated in Table 1.- Contaminant release limits to land and monitoring program; and the conditions of this approval.

Table 1 - Contaminant release limits to land and monitoring program

Quality characteristics	Release Limit			
	Monitoring and/or Release Point	Minimum	Maximum	Monitoring Frequency
5 Day BOD-mg/L	W1 – STP release point of the irrigation tank	-	20	Quarterly
Suspended Solids – mg/L	W1 – STP release point of the irrigation tank	-	30	Monthly
pH	W1 – STP release point of the irrigation tank	6.0	8.5	Daily
Total Nitrogen-mg/L	W1 – STP release point of the irrigation tank	-	25	Quarterly
Total Phosphorus-mg/L	W1 – STP release point of the irrigation tank	-	10	Quarterly
Free Chlorine-mg/L	W1 – STP release point of the irrigation tank	0.8	2.0	Weekly[1]
E. Coli -cfu/100ml	W1 – STP release point of the irrigation tank	-	200	Weekly
EC — µS/cm	W1 – STP release point of the irrigation tank	-	1600	Quarterly

1 – Monitoring is to be done weekly after verification monitoring in accordance with section 6.6.3 of the Queensland Water Recycling Guidelines, December 2005 or any subsequent updated version or document.

The Queensland Water Recycling Guidelines are available at the following link: http://www.derm.qld.gov.au/water/requlation/recycling/pdf/recycle quidelines.pdf

PL2	Notwithstanding the quality characteristic limits specified in Table 1 - Contaminant release limits to land and monitoring program, releases of effluent must not have any properties nor contain any organisms or other contaminants in concentrations that are capable of causing environmental harm.
PL3	Monitoring of contaminant releases to land through the treated sewage effluent irrigation system must be undertaken at the monitoring point described below for each discharge location and records kept for quality characteristics at the frequency specified in Table 1 - Contaminant release limits to land and monitoring program. Monitoring Point: W1 – STP release point of the irrigation tank.
PL4	All determinations of the quality of contaminants released must be made in accordance with methods prescribed in the latest edition of the Department of Environment and Resource Management Water Sampling Manual, carried out on samples that are representative of the discharge.
PL5	The daily volume of contaminants released to land must not exceed 5,000 litres per day and an annual volume of 1.825 ML.
PL6	The daily volume of contaminants released to land must be determined by an appropriate method, with an accuracy of plus or minus 5%, for example a flow meter, and records kept of such determinations and estimates.
PL7	A minimum area of 0.3 hectares of land, excluding any necessary buffer zones, must be utilised for the irrigation of treated effluent.
PL8	The irrigation of effluent must be carried out in a manner such that: (a) separation distances recommended by the Queensland Plumbing and Wastewater Code are met; (b) vegetation is not damaged; (c) soil erosion and soil structure damage is avoided; (d) there is no surface ponding of effluent; (e) percolation of effluent beyond the plant root zone is minimised; (f) the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and (g) the quality of ground water is not adversely affected.
PL9	Areas irrigated with treated effluent must be periodically mown or harvested and mown grass or harvested crop material must be removed from the irrigation area.
PL10	Irrigation Monitoring Program. Implement and maintain an irrigation monitoring program (IMP) for the release of contaminants to land(s). As a minimum, the IMP must include: (a) soil and sub-soil analysis, including assessment of the soils including types, structure, phosphorus adsorption capacity, nutrient status, salinity and sodicity, cation exchange capacity and sodium absorption ratio (SAR) of the contaminant release area(s), to be carried out at no less than six representative sites on an bi- annual basis; (b) ground water monitoring that determines the existence and rate of infiltration of effluent that has been irrigated to land, and the potential or actual impacts on ground water from such infiltration, to be carried out on an bi-annual basis; (c) plant analysis to assess nutrient export to be carried out on a bi-annual basis; (d) determination of the quantity and quality of contaminants applied;

	(e) periodic re-assessment, including modelling of the water, nutrient and salt balances and irrigation rate and return period should be undertaken, if necessary, to ensure sustainable use of the contaminant release area is being achieved; and (f) reporting of monitoring results, and an assessment of the impact of the releases on the contaminant release areas.
PL11	When conditions prevent the irrigation of treated effluent to land (such as during or following rain events), the contaminants must be directed to a wet weather storage or alternative measures must be taken to store/lawfully dispose of effluent (such as wet weather storage or tanking off site to another treatment plant or sewer). A record must be kept of any removal or discharge off site, including destination, transporter, dates and volumes.
PL12	A minimum of 50 kL of wet weather storage must be provided for effluent generated by the sewage treatment plant that is the subject of the approval.
PL13	All wet weather storages must be operated and maintained in a manner that maximises the available storage capacity for when wet weather conditions prevent the irrigation of treated effluent.
PL14	Pipelines and fittings associated with the effluent irrigation system must be clearly identified. Lockable valves or removable handles must be fitted to all release pipes situated in public access areas.
PL15	Notices must be prominently displayed on areas undergoing effluent irrigation, warning the public that the area is irrigated with effluent and not to use or drink the effluent. These notices must be maintained in a visible and legible condition.
PL16	Provision Of Treated Effluent To Other Persons. If responsibility of the treated effluent is given or transferred to another person: (a) the responsibility of such effluent must only be given or transferred in accordance with a written agreement (the third party agreement); (b) include in the third party agreement a commitment from the person utilising the effluent to use effluent in such a way as to prevent environmental harm or public health incidences and specifically make the persons aware of the General Environmental Duty (GED) under section 319 of the Environmental Protection Act 1994, environmental sustainability of any effluent disposal and protection of environmental values of waters; and (c) upon being notified or otherwise becoming aware that the person's use of effluent is causing or threatens to cause environmental harm or is posing a human health risk, and if the person does not rectify the situation upon written request, the giving and transferring responsibility for such effluent must cease.
PL17	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.
PL18	Septic tank effluents must not be permitted to pool on the surface of the absorption trenches nor be released directly to any stormwater drain or waters.

Agency Interest: Noise	
PN1	Noise Nuisance. Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
PN2	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: - LA 10, adj, 10 mins - LA 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.
PN3	The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Resource Management'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: Waste	
PW1	Septic tanks must be emptied as often as is necessary to prevent: (a) any overloading of the septic tank; and (b) any carryover of solid materials to the absorption trenches which is likely to cause surface ponding of effluent.
PW2	Manholes and/or inspection covers must be provided for inspection, de-sludging and/or cleaning of the septic tank.
Agency Interest: Water	
PWA1	Release To Waters. Contaminants must not be released from the site to any waters or the bed and banks of any waters.
PWA2	Stormwater Management. There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.

PWA3	Contaminant And Sewage Pump Station. Contaminant pumping stations must be fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power.
PWA4	Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any ponds or other structures used for the storage or treatment of contaminants or wastes.
PWA5	Backup Power Supply There must be sufficient backup power available to operate essential processes of the treatment plant to prevent the discharge of untreated or poorly treated wastewater to the environment. This shall include any instrumentation and alarms associated with the wastewater treatment plant or sewage pumping station(s).

Definitions

Words and phrases used throughout this permit[1] 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 Environment and Resource Management 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 *Sustainable Planning Act 2009*.

"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.

"cfu" means coliform forming units.

"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.

"Department Environment of Environment and Resource Management" 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.

"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 2008* (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.

"µS/cm" means micro-Siemens/centimetre and is a measure of how much salt is in solution.

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

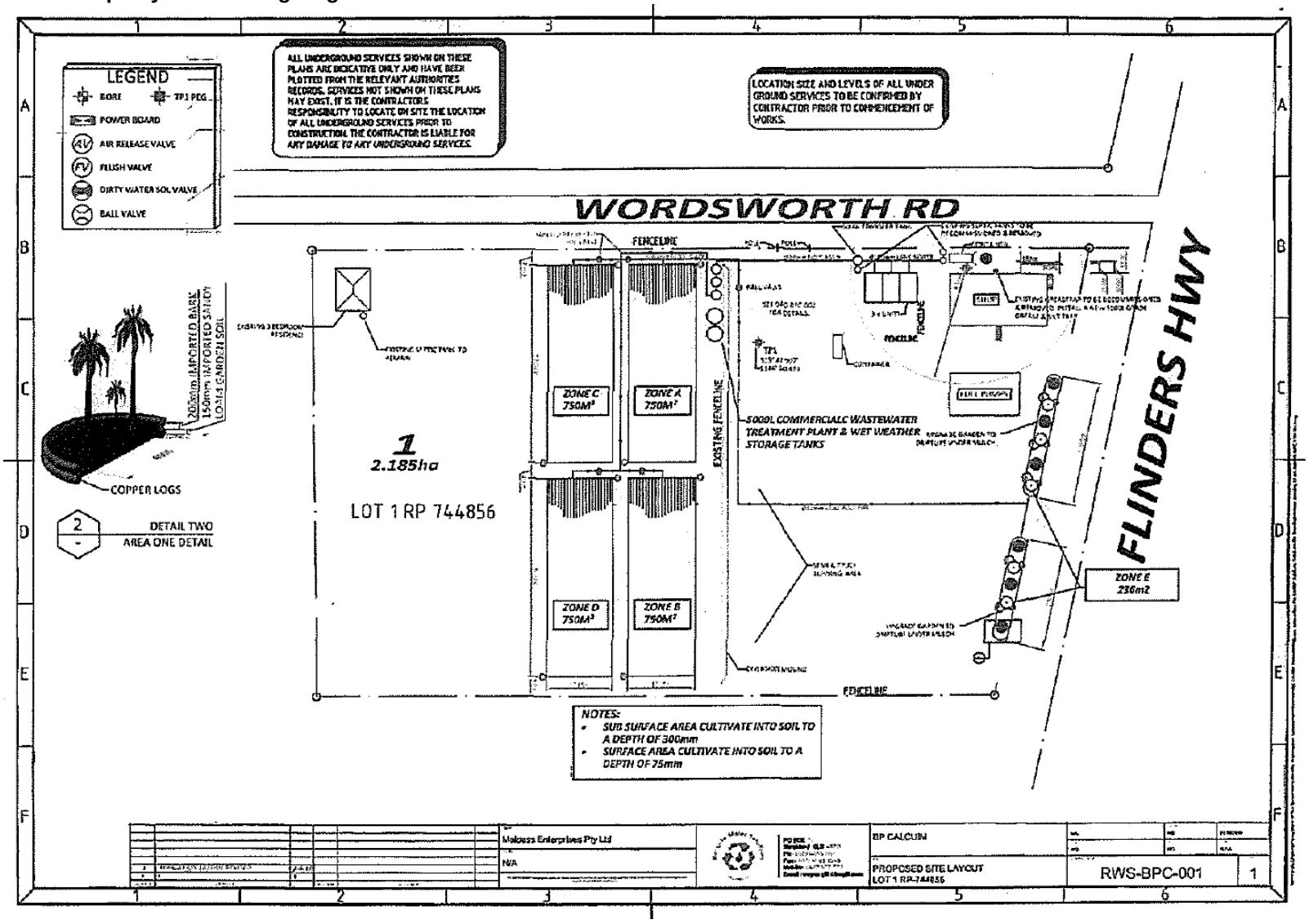
- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"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.

Appendix 1 – Concept layout showing irrigation area within Lot 1 on Plan RP744856



END OF ENVIRONMENTAL AUTHORITY