

Permit

Environmental Protection Act 1994

Environmental authority EPPR00660913

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

Environmental authority number: EPPR00660913

Environmental authority takes effect on the date signed by the delegate.

The anniversary date of this environmental authority remains the 7th June.

Environmental authority holder

Name	Registered address
Debbie Lee Langfield	141 Old Bruce Hwy BURRUM TOWN QLD 4659 Australia

Environmentally relevant activity and location details

Environmentally relevant activity	Location
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 2 on Plan SP290423

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 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:

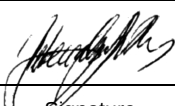
- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority – on the nominated day; or
- b) if the authority states a day or an event for it to take effect – on the stated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

The anniversary day of this environmental authority remains the 7th of June.

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



Signature

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

10/04/2025

Date

Enquiries:

Industry and Development Business Centre
Department of the Environment, Tourism, 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 Natural Resources and Mines, Manufacturing and Regional and Rural Development (to clear vegetation), and the Department of Primary Industries (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 the Environment, Tourism, 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: 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 2 on Plan SP290423

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

Agency interest: General	
Condition number	Condition
G1.0	Inflows into the sewage treatment plant must not exceed 20kL on any day .
G2.0	An Annual Monitoring Report must be prepared by 30 November each year, for the preceding financial year, and submitted to the administering authority on request.
G3.0	All reasonable and practicable measures must be taken to prevent the likelihood of environmental harm being caused.
G3.1	Unless specifically authorised by a condition of this environmental authority, this environmental authority does not authorise a relevant act which is: a) an act that causes serious or material environmental harm or an environmental nuisance; or b) an act that contravenes a noise standard; or c) a deposit of a contaminant, or release of stormwater run-off, mentioned in section 440ZG of the <i>Environmental Protection Act 1994</i>.
G4.0	Contravention of conditions Unless specifically authorised by a condition of this environmental authority, details of any contravention of a condition of this environmental authority must: a) be reported to the administering authority within 24 hours of becoming aware of the contravention; and b) include the nature and circumstances of the contravention and any immediate actions taken.
G4.1	As soon as reasonably practicable but no later than 20 business days of a report made under condition G4.0 (or a longer period agreed to in writing by the administering authority), an investigation must be undertaken to determine: a) the potential circumstances and actions that may have contributed to the contravention; and b) the environmental impact of the contravention; and c) reasonable and practicable measures that will be implemented to address the cause of the contravention to prevent future contraventions of this nature.
G4.2	As soon as reasonably practicable but no later than 20 business days of investigating a contravention under condition G4.1 (or a longer period agreed to in writing by the administering authority), the reasonable and practicable measures identified in the investigation must be implemented.

G4.3	The outcome of the investigation carried out under condition G4.1 and the reasonable and practicable measures implemented under condition G4.2 must be recorded.
G5.0	Complaints The following details must be recorded for all complaints received and provided to the administering authority upon request: a) date and time the complaint was received; and b) if authorised by the person making the complaint, their name and contact details; and c) nature and details of the complaint.
G5.1	As soon as reasonably practicable but no later than 5 business days of receiving a complaint (or a longer period agreed to in writing by the administering authority), an investigation must be undertaken to determine: a) the potential circumstances and actions on site that may have contributed to the basis of the complaint; and b) reasonable and practicable measures that will be implemented to address the complaint.
G5.2	As soon as reasonably practicable but no later than 5 business days of investigating a complaint under condition G5.1 (or a longer period agreed to in writing by the administering authority), the reasonable and practicable measures identified in the investigation must be implemented.
G5.3	The outcome of the investigation carried out under condition G5.1 and the reasonable and practicable measures implemented under condition G5.2 must be recorded.
G6.0	Environmental risk management procedures Written procedures must be developed and implemented by an appropriately qualified person that ensure: a) all potential risks to the environment from the carrying out of the activity are identified and assessed, including: i) during routine operations; and ii) outside routine operations (e.g., maintenance, start up and shut down); and iii) during preparation, rehabilitation, and closure; and iv) in an emergency (e.g., fire, flood or other natural disaster); and b) for each potential risk identified, any necessary measures to prevent or minimise the potential for environmental harm are implemented; and c) staff understand their obligations under this environmental authority and the <i>Environmental Protection Act 1994</i>; and d) environmental risk management procedures are continually reviewed and improved, based on a reasonable risk-management approach.
G7.0	Plant and equipment An appropriately qualified person must install, operate, calibrate, and maintain the plant and equipment required to carry out the activity (including monitoring devices) in a proper and effective manner.
G7.1	Records of installation, calibration and maintenance carried out under condition G7.0 must be kept.

G8.0	Record keeping Unless otherwise specified by a condition of this environmental authority, records must be: a) kept for the period outlined in <i>Table G1 – Record keeping requirements</i>; and b) provided to the administering authority upon request and in the format requested. Table G1 – Record keeping requirements <table> <tr> <th>Description of records</th><th>Retention requirement</th></tr> <tr> <td>Monitoring results</td><td>Retain for 15 years</td></tr> <tr> <td>All other records</td><td>Retain for 5 years</td></tr> </table>	Description of records	Retention requirement	Monitoring results	Retain for 15 years	All other records	Retain for 5 years
Description of records	Retention requirement						
Monitoring results	Retain for 15 years						
All other records	Retain for 5 years						
G9.0	Chemical storage Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.						
G10.0	Monitoring and sampling All monitoring and sampling required by the conditions of this environmental authority must be carried out, interpreted, and recorded by an appropriately qualified person.						
G10.1	Unless otherwise authorised in writing by the administering authority, all laboratory analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) accreditation for such analyses. The only exception to this condition is for <i>in situ monitoring</i> of pH, dissolved oxygen, electrical conductivity, and total chlorine etc.						
Agency interest: Noise							
Condition number	Condition						
N1.0	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .						
Agency interest: Air							
Condition number	Condition						
A1.0	Odours or airborne contaminants from the activity must not cause environmental nuisance to any sensitive place or commercial place .						
A2.0	Effluent spray must not move beyond the Effluent Disposal Area .						
A2.1	Effluent must only be disposed to the Effluent Disposal Area via coarse droplet sprinklers with low throw settings.						
A3.0	Warning signs must be installed and maintained at all land application areas within the Effluent Disposal Area with clearly visible wording that states 'Recycled Water – Avoid Contact – Do Not Drink'.						
A3.1	A buffer of at least 4m shall be maintained between the Effluent Disposal Area and residential and caravan sites.						

Agency interest: Land					
Condition number	Condition				
L1.0	The only contaminants authorised to be released to land is treated effluent generated by the activity , which must only be released within Lot 2 on Plan SP290423 to the Effluent Disposal Area shown in <i>Appendix 1 – Effluent Disposal Area</i> and defined by the GPS coordinates in <i>Appendix 2 – GPS Co-ordinates of Effluent Disposal Area</i> .				
L1.1	Treated effluent generated by the activity must only be released to the Effluent Disposal Area when the following requirements are complied with: a) the release limits for each quality characteristic are complied with at the monitoring locations as specified in <i>Table L1 – Contaminant limits for releases to land</i> ; and b) releases are monitored at all monitoring locations and at the minimum monitoring frequency for each quality characteristic specified in <i>Table L1 – Contaminant limits for releases to land</i> .				
Table L1 – Contaminant limits for releases to land					
Monitoring location	Quality characteristic (units)	Release limits			Minimum monitoring frequency
		Minimum	Mean	Maximum	
STP Effluent Outlet GPS Coordinates: -25.33028, 152.57977 (GDA2020)	Irrigation volume (L/day)	-	10,000	20,000	Daily
	Irrigation rate (mm/day)	-	1.7	3.4	
	Total Nitrogen TN (mg/L as N)	-	38	60	Quarterly
	Total Phosphorus TP (mg/L as P)	-	18	30	Quarterly
	pH (pH units)	6.5	-	8.5	Quarterly
	Escherichia coli (E.coli) cfu/100mL)	-	-	10	Quarterly
	Electrical Conductivity (EC) (µS/cm)	-	-	1,600	Quarterly
	Total Chlorine (mg/L)	-	-	5.0	Quarterly
L1.2	Monitoring required by condition L1.1 must be undertaken when effluent is being disposed, unless effluent disposal has ceased for longer than the relevant parameters specified minimum frequency (e.g., if pH was only required to be monitored once a week, then a pH sample would not be required after the first week following cessation of the release).				
L1.3	The irrigation rate monitoring required by condition L1.1 must be calculated based on the total area irrigated on that day , and the actual volume of effluent irrigated on that same day .				

L1.4	The mean calculations required by condition L1.1 must be calculated as a Long-Term Rolling Limit, meaning a limit applied to consecutive monitoring results taken over a 12-month period when monitored at the minimum frequency specified in <i>Table L1 – Contaminant limits for releases to land</i> .
L1.5	Volume monitoring required by condition L1.1 and G1.0 must be undertaken using a flow meter.
L1.6	A minimum area of 5,920m ² of land , excluding any necessary buffer zones, must be utilised for the irrigation of treated effluent .
L2.0	When soil in the Effluent Disposal Area is saturated , effluent must not be released to land .
L3.0	All organic material removed from vegetation growing in the Effluent Disposal Area must be transported and disposed of in an area other than in the Effluent Disposal Area .
L4.0	Wet weather storage, with a minimum volume of 60kL, must be installed and maintained on the site for the storage of effluent .
L4.1	Wet weather storage required by condition L4.0 must be completely enclosed from rainfall ingress.
L5.0	Ponding of effluent within the Effluent Disposal Area must not occur after irrigation has ceased.
L6.0	Treated effluent must not run off to areas beyond the Effluent Disposal Area .
L7.0	Soil structure must not be degraded as a result of the activity .
L8.0	By 30 April 2026 and continuing thereafter, all reasonable and practical measures must be taken to attain at least 60% grass cover across the Effluent Disposal Area .
L8.1	Vegetation Monitoring A six-monthly vegetation monitoring and management program must be implemented and must include: a) visual monitoring of the grass cover within the Effluent Disposal Area; and b) representative photographs of the grassed areas; and c) a determination of the total percentage of grass cover over the Effluent Disposal Area; and d) taking action to promote additional grass cover where necessary to comply with condition L8.0; and e) maintaining records of the total percentage grass cover determinations and actions taken to promote additional grass cover.
Agency interest: Waste	
Condition number	Condition
W1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
W2.0	Written procedures must be developed and implemented which identify measures to ensure that fluctuations in inflow rates to the sewage treatment plant throughout the year do not adversely impact the ability of the sewage treatment plant to treat sewage.

Agency interest: Water	
Condition number	Condition
WT1	Contaminants must not be released from the site to any waters or the bed and banks of any waters .

Definitions

Where a word or phrase in this document is defined in this definitions section or within the document, it has its corresponding meaning. Where a word or phrase in this document is not defined in this definitions section, it has the meaning given to it (in order of priority):

- the *Environmental Protection Act 1994* (EP Act), its regulations or its environmental protection policies;
- the *Acts Interpretation Act 1954*;
- the Macquarie Dictionary (taking account of the context in which the word or phrase is used in this document).

For example, environmental value, environmental harm, environmental nuisance, material environmental harm, serious environmental harm and relevant act are defined in the EP Act and groundwater is defined in the Environmental Protection Regulation 2019.

Defined words or phrases in the singular include the plural and vice versa.

Activity means the environmentally relevant activities to which the environmental authority relates.

Administering authority means the Department of the Environment, Tourism, Science and Innovation or its successor or predecessors.

Business days means:

- a) a day that does not occur during the period starting on 20 December in a year and ending 5 January in the following year; or
- b) a day that is not a Saturday or Sunday; or
- c) a day that is not a public holiday, special holiday or bank holiday in the place in which any relevant act is to be or may be done.

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.

Day means any 24-hour period.

Effluent means the liquid fraction of treated sewage.

Effluent Disposal Area means the land application areas shown in *Appendix 1 – Effluent Disposal Area*, and defined by the GPS coordinates in *Appendix 2 – GPS Co-ordinates of Effluent Disposal Area*, where located within Lot 2 on Plan SP290423.

Land in the “land schedule” of this document means land excluding **waters** and the atmosphere.

Mean is the sum of a collection of numbers divided by the count of numbers in the collection. E.g., $(n_1+n_2+n_3)/3$.

Measures has the broadest interpretation and includes plant, equipment, physical objects, **monitoring**, procedures, actions, directions and competency.

Monitor, monitored and monitoring means monitoring the impact of an **activity** on the receiving environment and includes analysing, assessing, examining, inspecting, measuring, modelling or reporting any of the following matters—

- a) the quantity, quality, characteristics, timing and variability of the release of any contaminant; and
- b) the effectiveness of any control measure; and
- c) the characteristics of, and impact on, the receiving environment; and
- d) the effectiveness of remedial or rehabilitation **measures** (if applicable to the relevant monitoring requirement).

mg/L means milligram per litre.

Nuisance as defined under Chapter 1 of the *Environmental Protection Act 1994*

Records include breach notifications, written procedures, analysis results, **monitoring** reports and **monitoring** programs required under a condition of this authority.

Saturated means the soil moisture level is greater than the soil field capacity or drained upper limit. **Field capacity or drained upper limit** means the maximum amount of water retained in soil against gravity when the soil has been allowed to drain for 24hrs.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or gardens; or
7. for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008*.

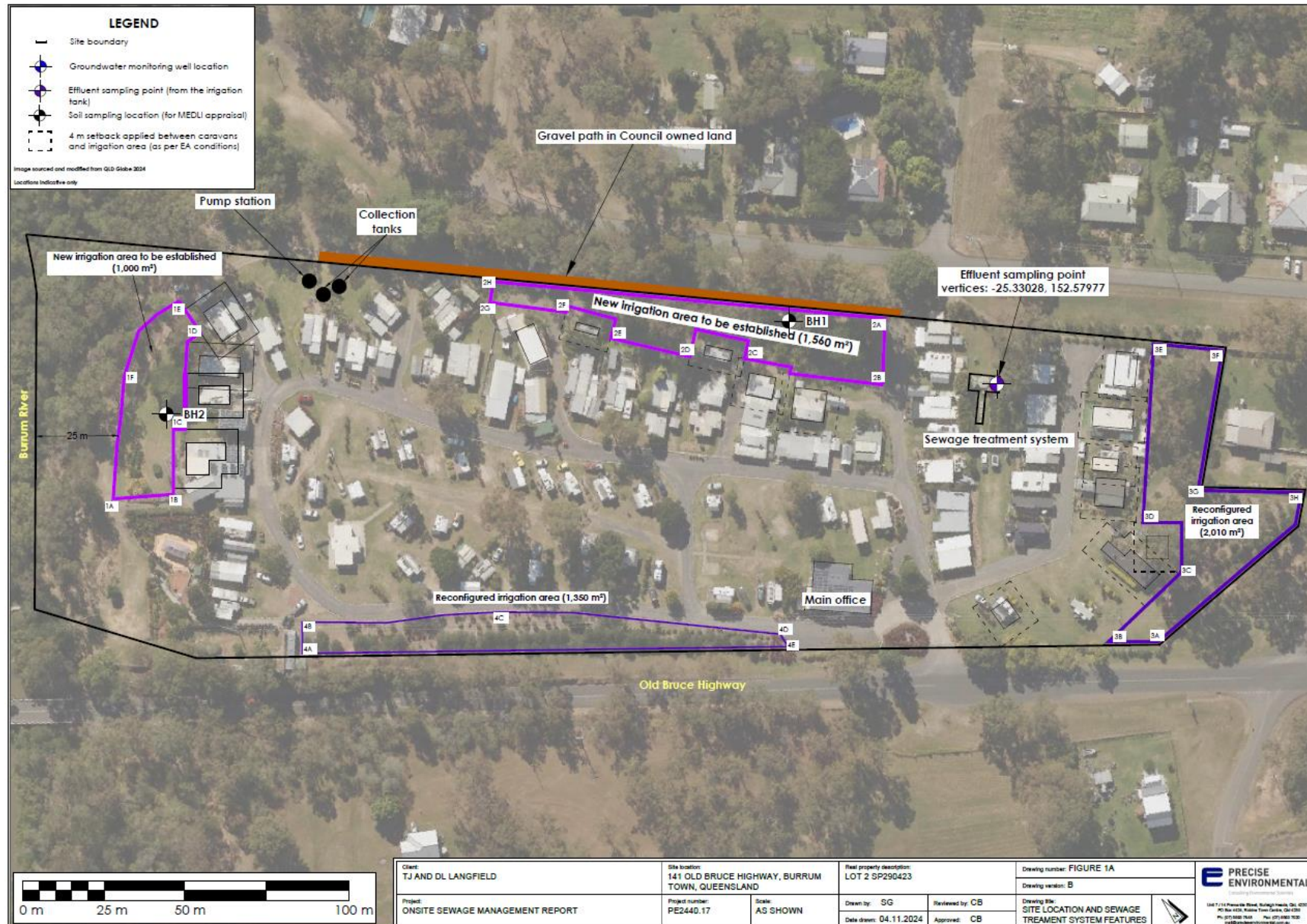
Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

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 drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

You means the holder of this development approval or owner/occupier of the land which the subject of this development approval.

Appendix 1 - Location of Effluent Disposal Area



Appendix 2 – GPS Co-ordinates of Effluent Disposal Area

Vertices	Latitude (GDA 2020)	Longitude (GDA 2020)	Vertices	Latitude (GDA 2020)	Longitude (GDA 2020)
1A	-25.32894	152.57741	3A	-25.33103	152.57964
1B	-25.32904	152.57755	3B	-25.33098	152.57955
1C	-25.32890	152.57771	3C	-25.33097	152.57985
1D	-25.32874	152.57792	3D	-25.33080	152.57989
1E	-25.32867	152.57793	3E	-25.33049	152.58022
1F	-25.32877	152.57763	3F	-25.33060	152.58038
			3G	-25.33084	152.58008
2A	-25.32995	152.57960	3H	-25.33106	152.58033
2B	-25.33007	152.57949			
2C	-25.32986	152.57930	4A	-25.32962	152.57757
2D	-25.32966	152.57905	4B	-25.32958	152.57762
2E	-25.32949	152.57892	4C	-25.32981	152.57800
2F	-25.32931	152.57889	4D	-25.33040	152.57873
2G	-25.32912	152.57870	4E	-25.33044	152.57876
2H	-25.32914	152.57875			

Client: TJ AND DL LANGFIELD	Site location: 141 OLD BRUCE HIGHWAY, BURRUM TOWN, QUEENSLAND	Real property description: LOT 2 SP290423	Drawing number: FIGURE 1B	 104 Tully Parade, Burumbidgee, SA 5153 Ph: (08) 8631 1111 Fax: (08) 8631 1112 Email: info@preciseenvironmental.com.au
Project: ONSITE SEWAGE MANAGEMENT REPORT	Project number: PE2440.17	Scale: AS SHOWN	Drawing version: B	
		Drawn by: SG Date drawn: 04.11.2024	Reviewed by: CB Approved: CB	

END OF ENVIRONMENTAL AUTHORITY