

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 07 June 2019

Environmental authority holder(s)

Name(s)	Registered address
Debbie Lee Langfield	141 Old Bruce Hwy BURRUM TOWN QLD 4659 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 2/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 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

Environmental authority

- 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.

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

Enquiries:
Extraction, Energy and Chemical Industries
Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Date issued: 07 June 2019

Environmental authority

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.

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at www.dnrme.qld.gov.au, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

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 and Science 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
63-(2a)(i) Sewage treatment >21 to 100EP - IT or IR	141 Old Bruce Highway, BURRUM TOWN QLD 4659 Lot 2 Plan 290423

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	All reasonable and practicable measures must be taken to prevent the likelihood of environmental harm being caused.
G2	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G3	All information and records required by the conditions of this environmental authority must be kept for a minimum of five 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.

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

G4	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
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 f) actions taken.
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 the activity . The monitoring results must be provided to the administering authority upon request.
G7	The activity must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the activity during routine operations and emergencies; and b) establish and maintain control measures that minimise the potential for environmental harm; and c) ensure plant, equipment and measures are maintained in a proper and effective condition; and d) ensure plant, equipment and measures are operated in a proper and effective manner; and e) ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i> ; and f) ensure that reviews of environmental performance are undertaken at least annually.
G8	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.
G9	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.
G10	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.
G11	Effluent disinfection equipment should be inspected at least daily, with records kept and any required maintenance conducted immediately, to ensure efficient and reliable disinfection of treated effluent is achieved.
Agency interest: Noise	
Condition number	Condition
N1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .
N2	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: - background noise; - L_{A, max adj, T} or where established as being appropriate L_{A10, adj 15 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.																																																						
N3	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority’s Noise Measurement Manual.																																																						
Agency interest: Air																																																							
Condition number	Condition																																																						
A1	Odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any sensitive place or commercial place .																																																						
Agency interest: Land																																																							
Condition number	Condition																																																						
L1	The holder of this development approval must ensure that the system for irrigation of treated wastewater is designed that spray drift and airborne contamination is prevented (e.g. subsurface irrigation).																																																						
L2	The only contaminant permitted to be released to land is treated effluent to the areas shown in Figure 1 in Appendix 1 in compliance with the limits stated in <i>Table 1 – Contaminant release limits to land</i> and the conditions of this approval. Table 1 – Contaminant Release Limits to Land <table><tr><th rowspan="2">Quality Characteristic</th><th colspan="4">Release Limit</th></tr><tr><th>Minimum</th><th>50th Percentile</th><th>80th Percentile</th><th>Maximum</th></tr><tr><td>BOD5 (mg/L)</td><td>N/A</td><td>N/S</td><td>10</td><td>15</td></tr><tr><td>Suspended Solids (mg/L)</td><td>N/A</td><td>N/S</td><td>10</td><td>15</td></tr><tr><td>E. coli (CFU per 100 mL)</td><td>N/A</td><td>N/S</td><td><10</td><td>N/S</td></tr><tr><td>pH (pH units)</td><td>6.5</td><td>N/S</td><td>N/S</td><td>8.5</td></tr><tr><td>Turbidity* (NTU)</td><td>N/A</td><td>N/S</td><td>2</td><td>5</td></tr><tr><td>Total Nitrogen (mg/L)</td><td>N/A</td><td>N/S</td><td>10</td><td>15</td></tr><tr><td>Total Phosphorus (mg/L)</td><td>N/A</td><td>N/S</td><td>5</td><td>8</td></tr><tr><td>Residual chlorine (mg/L)</td><td>0.3</td><td>N/S</td><td>N/S</td><td>1.0</td></tr><tr><td>Total Dissolved Solids (mg/L)</td><td>N/A</td><td>N/S</td><td>800</td><td>1000</td></tr></table> N/A = Not applicable N/S = Not specified *Turbidity limit is applicable at the point of treatment directly preceding disinfection. Associated monitoring requirements 1. All determinations of the quality of contaminants released to land must be made in accordance with methods prescribed in the latest edition of the Water Quality Sampling Manual, and carried out on samples that are representative of the discharge.	Quality Characteristic	Release Limit				Minimum	50 th Percentile	80 th Percentile	Maximum	BOD5 (mg/L)	N/A	N/S	10	15	Suspended Solids (mg/L)	N/A	N/S	10	15	E. coli (CFU per 100 mL)	N/A	N/S	<10	N/S	pH (pH units)	6.5	N/S	N/S	8.5	Turbidity* (NTU)	N/A	N/S	2	5	Total Nitrogen (mg/L)	N/A	N/S	10	15	Total Phosphorus (mg/L)	N/A	N/S	5	8	Residual chlorine (mg/L)	0.3	N/S	N/S	1.0	Total Dissolved Solids (mg/L)	N/A	N/S	800	1000
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Total Dissolved Solids (mg/L)	N/A	N/S	800	1000																																																			
L3	Notwithstanding the quality characteristic limits specified in <i>Table 1 – Contaminant release limits to land</i> , releases of effluent must not have any properties nor contain any organisms or other contaminants in concentrations that are capable of causing environmental harm.																																																						

L4	Monitoring must be undertaken and records kept of a monitoring program of contaminant releases to the irrigation area at the monitoring points, frequency, and for the parameters specified in <i>Table 2 – Contaminant Release to Land Monitoring Frequencies</i>. Table 2 – Contaminant Release to Land Monitoring Frequencies <table><tr><th>Monitoring point</th><th>Quality characteristics</th><th>Units</th><th>Monitoring Frequency 1</th><th>Monitoring Frequency 2</th></tr><tr><td rowspan="2">Discharge from STP to effluent irrigation area and/or wet weather storage facility</td><td>BOD5</td><td>mg/L</td><td>Monthly</td><td>Quarterly</td></tr><tr><td>Suspended Solids</td><td>mg/L</td><td>Monthly</td><td>Quarterly</td></tr><tr><td>Discharge from STP to effluent irrigation area and/or wet weather storage facility, at a point just prior to disinfection</td><td>Turbidity</td><td>NTU</td><td>Continuous</td><td>Continuous</td></tr><tr><td rowspan="7">Discharge from STP to effluent irrigation area and/or wet weather storage facility</td><td>E. coli</td><td>CFU per 100 mL</td><td>Weekly</td><td>Quarterly</td></tr><tr><td>pH</td><td>pH units</td><td>Weekly</td><td>Quarterly</td></tr><tr><td>Dissolved Oxygen</td><td>mg/L</td><td>Weekly</td><td>Quarterly</td></tr><tr><td>Total Nitrogen</td><td>mg/L</td><td>Monthly</td><td>Quarterly</td></tr><tr><td>Total Phosphorus</td><td>mg/L</td><td>Monthly</td><td>Quarterly</td></tr><tr><td>Residual chlorine</td><td>mg/L</td><td>Monthly</td><td>Quarterly</td></tr><tr><td>TDS</td><td>mg/L</td><td>Monthly</td><td>Quarterly</td></tr></table> Continuous = provision for monitoring of effluent turbidity using an inline turbidity meter such that monitoring and recording of effluent turbidity is continuous. Monitoring Frequency 1 = Monitoring frequency to be implemented for 3 months following: 1. The commissioning of the Sewage Treatment Plant that is the subject of this Development Approval; or 2. An analysis result that reveals the effluent quality is not complying with any of the applicable limits stated in Table 2. Monitoring Frequency 2 = Monitoring frequency to be implemented following demonstrated compliance with quality characteristics for Monitoring Frequency 1, at the completion of Monitoring Frequency 1.	Monitoring point	Quality characteristics	Units	Monitoring Frequency 1	Monitoring Frequency 2	Discharge from STP to effluent irrigation area and/or wet weather storage facility	BOD5	mg/L	Monthly	Quarterly	Suspended Solids	mg/L	Monthly	Quarterly	Discharge from STP to effluent irrigation area and/or wet weather storage facility, at a point just prior to disinfection	Turbidity	NTU	Continuous	Continuous	Discharge from STP to effluent irrigation area and/or wet weather storage facility	E. coli	CFU per 100 mL	Weekly	Quarterly	pH	pH units	Weekly	Quarterly	Dissolved Oxygen	mg/L	Weekly	Quarterly	Total Nitrogen	mg/L	Monthly	Quarterly	Total Phosphorus	mg/L	Monthly	Quarterly	Residual chlorine	mg/L	Monthly	Quarterly	TDS	mg/L	Monthly	Quarterly
Monitoring point	Quality characteristics	Units	Monitoring Frequency 1	Monitoring Frequency 2																																													
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L5	The irrigation of effluent must be carried out in a manner such that: a) vegetation is not damaged; b) soil erosion and soil structure damage is avoided; c) there is no surface ponding of effluent; d) percolation of effluent beyond the plant root zone is minimised; e) the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and f) the quality of ground water is not adversely affected.																																																
L6	A minimum area of 5,538m² of land, excluding any necessary buffer zones, must be utilised for the irrigation of treated effluent.																																																
L7	The volume authorised to be irrigated to the effluent irrigation area must not exceed 20,000 litres per day.																																																
L8	The daily volume of contaminants released to land must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.																																																
L9	When conditions prevent the irrigation of treated effluent to land (such as during or following rain events), the effluent must be directed to the 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 off site, including destination, transporter, dates and volumes and must be removed by a person who holds a current authority to transport such waste under the provisions of the <i>Environmental Protection Act 1994</i>.																																																

L10	A sufficient volume of wet weather storage must be provided to prevent overflows of effluent generated by the sewage treatment plant that is the subject of this approval during prolonged periods of wet weather or other events that prevent the irrigation of effluent. The storage volume should be sized using appropriate modelling techniques.
L11	All wet weather storages must not be operated and maintained in a manner that maximises the available storage capacity for when wet weather or other conditions prevent the irrigation of treated effluent.
L12	A buffer zone of at least 4m shall be maintained between the designated effluent disposal area and residential and caravan sites.
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.
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 .
WT2	A groundwater monitoring network must be installed for the effluent irrigation area that ensures any variability in the effluent irrigation area is incorporated (i.e. soil types, vegetation types, altitude, aspect etc.). The network must: (i) be installed and maintained by a person possessing appropriate qualifications and experience in the fields of hydrogeology and groundwater monitoring program design to be able to competently make recommendations about these matters; and (ii) be constructed in accordance with methods prescribed in the latest edition of the Agriculture and Resource Management Council of Australia and New Zealand manual titled '<i>Minimum Construction Requirements for Water Bores in Australia</i>'; and or AS/NZS 1547:2000 "<i>on-site domestic wastewater management</i>"; and (iii) include a sufficient number of monitoring bores that provide the following: - representative groundwater samples from the uppermost aquifer; and any other potentially affected aquifers, - background groundwater quality in hydraulically up-gradient or background bore(s) that have not been affected by any release of contaminants to groundwater; and - the quality of groundwater within the treated sewage effluent irrigation area(s); and - the quality of groundwater down gradient of any potential sources of contamination.

WT3	Conduct monitoring and keep records of groundwater quality for the relevant monitoring bores required by condition WT2 of this approval. All determinations of groundwater quality must be: (i) conducted for the water quality characteristics and at the minimum frequency stated in <i>Table 3 – Ground Water Monitoring Parameters and Frequencies</i>; (ii) taken from sufficient monitoring points and/or wells to obtain representative samples of groundwater both up-gradient, down-gradient of, and within, the potential influence; (iii) carried out with sufficient regularity and spatial and temporal replication to make statistically valid conclusions about changes to groundwater characteristics with regard to the presence, absence of fluctuation of contaminant concentrations, and changes in standing groundwater level; (iv) carried out with sufficient number of sampling events to determine groundwater quality characteristics, standing groundwater levels prior to, and following proposed development of the site; (v) made in accordance with methods prescribed in the latest session of the administering authority’s Water Quality Sampling Manual; (vi) followed by an assessment of whether or not there has been any statistically significant adverse change at locations within and hydraulically down-gradient of the potential source of contamination for each quality characteristic in <i>Table 3 – Ground Water Monitoring Parameters and Frequencies</i>, compared to background values. Table 3 – Ground Water Monitoring Parameters and Frequencies <table><tr><th>Quality Characteristic</th><th>Units</th><th>Monitoring Frequency 1</th><th>Monitoring Frequency 2</th></tr><tr><td>Nitrate Nitrogen</td><td>mg/L</td><td rowspan="8">Monthly</td><td rowspan="8">Biannually</td></tr><tr><td>Total Nitrogen</td><td>mg/L</td></tr><tr><td>Ammonia Nitrogen</td><td>mg/L</td></tr><tr><td>Nitrite Nitrogen</td><td>mg/L</td></tr><tr><td>Total Phosphorus</td><td>mg/L</td></tr><tr><td>pH</td><td>pH scale</td></tr><tr><td>E.coli</td><td>cfu/100mL</td></tr><tr><td>Electrical conductivity</td><td>µS/cm</td></tr></table> Monitoring Frequency 1 = Monitoring frequency to be implemented for 3 months following: 1. The commissioning of the Sewage Treatment Plant that is the subject of this approval; or 2. An analysis result that indicates an increase above background of 10% or greater in any of the parameters required to be measured in Table 3. Monitoring Frequency 2 = Monitoring frequency to be implemented following demonstrated compliance with quality characteristics for Monitoring Frequency 1 for 3 consecutive monitoring events, at the completion of Monitoring Frequency 1.	Quality Characteristic	Units	Monitoring Frequency 1	Monitoring Frequency 2	Nitrate Nitrogen	mg/L	Monthly	Biannually	Total Nitrogen	mg/L	Ammonia Nitrogen	mg/L	Nitrite Nitrogen	mg/L	Total Phosphorus	mg/L	pH	pH scale	E.coli	cfu/100mL	Electrical conductivity	µS/cm
Quality Characteristic	Units	Monitoring Frequency 1	Monitoring Frequency 2																				
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Ammonia Nitrogen	mg/L																						
Nitrite Nitrogen	mg/L																						
Total Phosphorus	mg/L																						
pH	pH scale																						
E.coli	cfu/100mL																						
Electrical conductivity	µS/cm																						
WT4	On any occasion that samples are obtained in accordance with condition D5, the standing groundwater levels must be measured and recorded in metres accurate to 0.01 metres. The elevation of the reference point, relative to Australian Height Datum, for use in any groundwater level measurement must be determined to an accuracy of 0.01 metres.																						
WT5	Should contaminant levels measured in monitoring bores indicate an increase above 10% of the background reading, the administering authority must be immediately notified about the monitoring results, an investigation conducted to determine whether the increase has been caused by effluent irrigation, and the results submitted to the administering authority within 5 weeks from the date the administering authority was notified about the monitoring results.																						

Definition

Words and phrases used throughout this permit are defined below. Where a definition for a term used in this permit is sought and the term is not defined within this permit the 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 Science or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirements and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature.

BOD5 means the 5 day biochemical oxygen demand determined using standard tests (e.g. those used by NATA laboratories). This test is not inhibited for nitrification, otherwise would be referred to as “carbonaceous” BOD.

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.

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

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.

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

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

mg/L means milligram per litre.

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

NTU means nephelometric turbidity units.

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

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

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

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 thoroughfare, 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.

50th percentile means not more than three (3) of the measured values of the quality characteristic are to exceed the stated release limit for any six (6) consecutive samples for a release/monitoring point at any time during the environmental activity(ies) works.

80th percentile means not more than one (1) of the measured values of the quality characteristic is to exceed the stated release limit for any five (5) consecutive samples for a sampling point at any time during the environmental activity(ies) works.

Appendix 1 – Site Plans





END OF PERMIT