

Permit

Environmental Protection Act 1994

Environmental authority P-EA-100740464

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

Environmental authority number: P-EA-100740464

Environmental authority takes effect on 19 June 2025.

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.

An annual return will be due each year on 01 April.

Transfers of this environmental authority are not authorised.

Environmental authority holder(s)

Name(s)	Registered address
Arrow CSG (Australia) Pty Ltd	Level 39, 111 Eagle Street Brisbane QLD 4001

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Non-Scheduled - Petroleum Activity - Petroleum Pipeline Licence (PPL)	PPL2058, PPL2060

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:

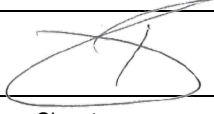
- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority – on the nominated day; or
- b) if the authority states a day or an event for it to take effect – on the stated 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 is the same day each year as the effective date. The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 April.

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

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

19 June 2025

Date

Enquiries:
Energy and Extractive Resources Business Centre
GPO Box 2454, Brisbane QLD 4001
Phone: (07) 3330 5715
Email: EnergyandExtractive@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).

Legislative requirements and conditions of environmental authority

Legislative requirements

Standard conditions

This environmental authority contains standard conditions. Standard conditions are identified by (S) after the condition number.

Eligibility criteria

	Eligibility criteria
PPEC 1	The applicant for the environmental authority is the holder of, or an applicant for a Pipeline Licence (PPL) tenure type issued under the <i>Petroleum and Gas (Production and Safety) Act 2004</i> .
PPEC 2	The petroleum activities are authorised petroleum activities for the purposes of the <i>Petroleum and Gas (Production and Safety) Act 2004</i> .
PPEC 3	The petroleum activity does not include extending an existing pipeline by more than 150 kilometres under a petroleum authority.
PPEC 4	The petroleum activity does not include constructing a new pipeline of more than 150 kilometres under a petroleum authority.
PPEC 5	The petroleum activities do not occur in <u>coastal waters</u> of Queensland.
PPEC 6	The petroleum activity is not, or will not be, carried out under an environmental authority under which any of the following is, or is to be, authorised: (a) the injection of a waste fluid or gas for gas storage into a natural underground reservoir or <u>aquifer</u> (b) a <u>regulated dam</u> (c) the carrying out of the following <u>environmentally relevant activities</u> (ERAs): (i) ERA 8 – Chemical Storage (ii) ERA 60(1a) – (1d) – Regulated waste disposal (iii) ERA 60(2d) – (2h) – General waste disposal > 10,000t/<u>year</u> (iv) ERA 63(1a)(ii) – (1b)(ii), (1c) – (1g) – Sewage treatment with a total <u>daily peak design capacity</u> of greater than 21 <u>equivalent persons</u> (EP) which <u>releases</u> to other than an infiltration trench or irrigation scheme or where the sewage treatment activities have a total combined daily peak design capacity exceeding 1500 equivalent persons (EP) (v) ERA 64(2a) and (2b) and (4a) and (4b) – Water treatment where desalination of more than 0.5ML of water is treated, allowing the release of waste to <u>waters</u> other than seawater; or carrying out, in a day, advanced treatment of 5ML or more of water, allowing the release of waste only to seawater; or to waters other than seawater.

Conditions of environmental authority

Condition number	Condition																	
Schedule A – Authorised activities																		
PPSCA 1 (S)	All reasonable steps must be taken to ensure the petroleum activities comply with the <u>eligibility criteria</u> for the activity.																	
Variation 1	The environmental authority authorises the carrying out of petroleum activities listed in Table 1 – Authorised petroleum activities to the extent they are carried out in accordance with the activity’s corresponding scale and location. Table 1 – Authorised petroleum activities <table><tr><th>Authorised petroleum activity</th><th>Scale (number of activities)</th><th>Maximum disturbance (ha)</th><th>Location</th></tr><tr><td>TWRP/SH Pipeline¹</td><td>18 - 29m RoW, 58km pipeline length</td><td>111.9</td><td rowspan="4">Within <i>TWRP/SH Authorised Disturbance Area (Surveyed)</i>²</td></tr><tr><td>Access Tracks</td><td>N/A</td><td>6.2</td></tr><tr><td>Laydown/Workspaces</td><td>Laydown and Workspaces</td><td>23.4</td></tr><tr><td>Pump Station and Balancing Tank</td><td>1 x Pump Station 1 x Balance Tank</td><td>2</td></tr></table> ¹ The TWRP/SH Pipeline will be co-located with linear infrastructure under EA0001401, P-EA-100464322 and EPPG00972513. ² Refer to definitions section of this document	Authorised petroleum activity	Scale (number of activities)	Maximum disturbance (ha)	Location	TWRP/SH Pipeline ¹	18 - 29m RoW, 58km pipeline length	111.9	Within <i>TWRP/SH Authorised Disturbance Area (Surveyed)</i> ²	Access Tracks	N/A	6.2	Laydown/Workspaces	Laydown and Workspaces	23.4	Pump Station and Balancing Tank	1 x Pump Station 1 x Balance Tank	2
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PPSCA 2 (S)	The following types of petroleum activities are not authorised: (a) processing or storing petroleum or petroleum by-products that are not necessarily associated with pipeline construction or operation (b) extracting earthen materials (other than drilling waste rock or <u>trench spoil</u>) of more than 100,000t/year (c) extracting by dredging more than 1000t/year of material from the <u>bed</u> of naturally occurring surface waters (d) construction of power lines (either above or below ground) outside the <u>right of way</u> necessary for the pipeline.																	

	<i>Explanatory Note:</i> Standard Condition PPSCA 2(d) does not authorise additional significant disturbance to land. The construction of power lines must be within the pipeline's right of way.																
Variation 2	The only impacts permitted within Category A ESAs, Category B ESAs or Category C ESAs, or primary protection zones and secondary protection zones are limited to: a) Category B ESAs and Category C ESAs, as well as primary protection zones and secondary protection zones, within the boundary of the TWRP/SH Authorised Disturbance Area (Surveyed); and b) The area limits identified in Table 2 – Maximum Authorised ESA Disturbance Table 2 – Maximum Authorised ESA Disturbance <table> <tr> <th>Activity(ies)</th><th>Maximum Area (ha)</th></tr> <tr> <td colspan="2">Category B ESAs</td></tr> <tr> <td>Ground disturbance within a <i>Category B</i> ESA</td><td>2.7 ha</td></tr> <tr> <td colspan="2">Category C ESAs</td></tr> <tr> <td>Ground disturbance within a <i>Category C</i> ESA that is a <i>State Forest</i></td><td>6.0 ha</td></tr> <tr> <td>Ground disturbance within a <i>Category C</i> ESA that is <i>Essential Habitat</i></td><td>8.2 ha</td></tr> <tr> <td>Ground disturbance within a <i>Category C</i> ESA that is an '<i>of concern regional ecosystem</i>'</td><td>1.6 ha</td></tr> <tr> <td>Ground disturbance within a <i>Category C</i> ESA that is '<i>Protected wildlife habitat</i>' that is located within <i>Category A, B or C remnant regulated vegetation</i></td><td>57.7 ha</td></tr> </table>	Activity(ies)	Maximum Area (ha)	Category B ESAs		Ground disturbance within a <i>Category B</i> ESA	2.7 ha	Category C ESAs		Ground disturbance within a <i>Category C</i> ESA that is a <i>State Forest</i>	6.0 ha	Ground disturbance within a <i>Category C</i> ESA that is <i>Essential Habitat</i>	8.2 ha	Ground disturbance within a <i>Category C</i> ESA that is an ' <i>of concern regional ecosystem</i> '	1.6 ha	Ground disturbance within a <i>Category C</i> ESA that is ' <i>Protected wildlife habitat</i> ' that is located within <i>Category A, B or C remnant regulated vegetation</i>	57.7 ha
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Variation 3	Spatial records must be kept for the life of the environmental authority that are sufficient to demonstrate compliance with the following conditions: a) Condition (Variation 1) relating to all authorised petroleum activities; b) Condition (Variation 2) relating to ESA and PPZ impacts within the pipeline footprint; c) Condition (Variation 7) relating to prescribed environmental matters impacts; d) Condition (Variation 8) relating to record keeping of prescribed environmental matters impacts; and e) Condition (PPSCD 3) relating to the results of the pre-clearance ecological assessment of native vegetation areas. For clarity, this includes mapped biodiversity values, confirmed on-the-ground biodiversity values (including key habitat features), location of the activity, environmentally sensitive areas and their protection zones, prescribed environmental matters and impacts to prescribed environmental matters.																

Variation 4	For conditions (Variation 5) to (Variation 7), where mapped biodiversity values differ from those confirmed under condition (PPSCD 3), petroleum activities may proceed in accordance with the conditions of the environmental authority based on the confirmed on-the-ground biodiversity values.
Variation 5	The location of the petroleum activity(ies) must be selected in accordance with the following site planning principles: a) maximise the use of areas of pre-existing disturbance; b) in order of preference, avoid, minimise or mitigate any impacts, including cumulative impacts, on areas of native vegetation or other areas of ecological value; c) minimise disturbance to land that may result in land degradation; d) in order of preference, avoid then minimise isolation, fragmentation, edge effects or dissection of tracts of native vegetation; and e) in order of preference, avoid then minimise clearing of native mature trees
Variation 6	A report must be prepared for each annual return period for all petroleum activities that involved clearing of any environmentally sensitive area or protection zone which includes: a) records able to demonstrate compliance with conditions (PPSCD 2) and (Variation 1) to (Variation 5) inclusive; b) a description of the works; c) a description of the area and its pre-disturbance values (which may include maps or photographs, but must include GPS coordinates for the works); and d) based on the extent of environmentally sensitive areas and primary protection zones on the relevant resource authority(ies), the proportion of native vegetation cleared per environmentally sensitive area and primary protection zone, including regional ecosystem type, over the annual return period.

Variation 7

Prescribed Environmental Matters – Matters of State Environmental Significance

Impacts to Prescribed Environmental Matters (PEMs) are only authorised for the total area of impact listed in **Table 2 - Authorised impacts to Prescribed Environmental Matters**.

The location of impacts in **Table 2 - Authorised impacts to Prescribed Environmental Matters** must remain within the spatial data **TWRP/SH Authorised Disturbance Area (Surveyed)**.

Table 2 – Authorised impacts to Prescribed Environmental Matters

Prescribed environmental matters	Significant Residual impact and Offset Required	Total maximum area of impact (ha)
Endangered regional ecosystem		
RE 11.4.3	Yes	0.6
Prescribed regional ecosystems (not within an urban area) within the defined distance from the defining banks of a relevant watercourse or relevant drainage feature		
RE 11.3.14 (18a)	Yes	0.1
RE 11.3.25 (16a)		0.9
RE 11.5.1 (18b)		0.9
RE 11.7.7 (12a)		0.3
Essential habitat (not in an urban area) for endangered wildlife		
Koala (<i>Phascolarctos cinereus</i>)	Yes	0.6
Essential habitat (not in an urban area) for vulnerable wildlife		
Yellow-bellied glider (<i>southern subspecies</i>) (<i>Petaurus australis australis</i>)	Yes	5.16
Pale imperial hairstreak (<i>Jalmenus eubulus</i>)	Yes	0.6
Connectivity areas		
Connectivity area	Yes	60.8
Habitat for an animal that is endangered wildlife		
Dulacca Woodland Snail (<i>Adclarkia dulacca</i>)	Yes	2.7
Brigalow Woodland Snail (<i>Adclarkia cameroni</i>)	Yes	4.3
Koala (<i>Phascolarctos cinereus</i>) (<i>On-tenure</i>)	Yes	77.1
Koala (<i>Phascolarctos cinereus</i>) (<i>Off-tenure</i>) ¹	Yes	11.7
Greater Glider (<i>Petauroides volans</i>)	Yes	60.0

	Grey Snake (<i>Hemiaspis damelii</i>)	Yes	31.06
	Habitat for an animal that is vulnerable wildlife		
	Glossy Black-cockatoo (<i>Calyptorhynchus lathami lathami</i>)	Yes	3.2
	Painted Honeyeater (<i>Grantiella picta</i>)	Yes	2.7
	Pale Imperial Hairstreak (<i>Jalmenus eubulus</i>)	Yes	0.6
	Habitat for an animal that is special-least concern wildlife		
	Short-beaked Echidna (<i>Tachyglossus aculeatus</i>)	Yes	24.9
	Waterway providing for fish passage		
	Fish passage (not in an urban area)	Yes	1.0
¹ Relevant to EPBC approval 2018/8223			
Variation 8	Records demonstrating compliance with Variation 7 must be: a) completed by a suitably qualified person; and b) kept for the life of the environmental authority.		
Variation 9	An environmental offset made in accordance with the <i>Environmental Offsets Act 2014</i> and <i>Queensland Environmental Offsets Policy</i> , as amended from time to time, must be undertaken for the maximum extent of impact to each prescribed environmental matter with an offset required as identified in Table 2 – Authorised impacts to Prescribed Environmental Matters unless the administering authority confirms that the impact to the prescribed environmental matter is as follows: a) the same, or substantially the same, impact; and b) the same, or substantially the same, prescribed environmental matter; and c) has been assessed under a relevant Commonwealth Act.		
Variation 10	The notice of election for the environmental offset if applicable, must be provided to the administering authority no less than three months before the proposed commencement of the significant residual impacts for which the environmental offset is required, unless a lesser timeframe has been agreed to in writing by the administering authority.		
Schedule B – Protecting environmental values			
PPSCB 1 (S)	Petroleum activities that cause <u>significant disturbance to land</u> must not be carried out until <u>financial assurance</u> has been given to the <u>administering authority</u> as security for compliance with the environmental authority and any costs or expenses, or likely costs or expenses, mentioned in section 298 of the <i>Environmental Protection Act 1994</i> .		
PPSCB 2 (S)	Petroleum activities must not cause environmental nuisance from dust, odour, light, smoke or noise at a sensitive place, other than where an alternative arrangement is in place.		

PPSCB 3 (S)	Contaminants must not be directly or indirectly released to land or air except for those releases authorised by standard conditions (PPSCC 9), (PPSCC 13), (PPSCC 14), (PPSCC 15), (PPSCC 16), (PPSCE 4), (PPSCE 8), (Variation 19), (Variation 20), (Variation 21) and (PPSCF 3).
Variation 11	No impacts are permitted in a designated precinct of a Strategic Environmental Area.
PPSCB 5 (S)	Petroleum activities must: (a) firstly, avoid, then minimise, then mitigate any negative impacts on areas of vegetation or other areas of ecological value (b) minimise disturbance to land that may otherwise result in land degradation (c) minimise isolation, fragmentation or dissection of tracts of vegetation that would lead to a reduction in the current level of ecosystem functioning or ecological connectivity (d) minimise clearing of mature or hollow bearing trees. <i>Explanatory Note:</i> A written route selection report or CEMP or OEMP or decommissioning plan for the different stages of pipeline petroleum activities can be developed to demonstrate compliance with standard condition (PPSCB 5).
PPSCB 6 (S)	Where significant disturbance to land is to occur, records demonstrating compliance with standard condition (PPSCB 5) must be kept.
Schedule C – Operating standards	
Documentation	
PPSCC 1 (S)	All plans, procedures and reports must: (a) be <u>certified</u> by a <u>suitably qualified person</u> (b) be kept on record for a minimum of 5 years.
PPSCC 2 (S)	All plans and procedures required to be developed must be implemented.
Variation 12	All documents required to be prepared, held or kept under this environmental authority must be provided to the administering authority upon written request within the requested timeframe.
Plant and equipment	
PPSCC 3 (S)	All plant and equipment reasonably necessary to ensure compliance with the standard conditions must be installed.
PPSCC 4 (S)	All plant and equipment must be maintained and operated in their proper and effective condition.
PPSCC 5 (S)	All measures reasonably necessary to ensure compliance with the standard conditions must be implemented.
Contingency and emergency response	

PPSCC 6 (S)	Petroleum activities involving significant disturbance to land or which have the potential to cause <u>environmental harm</u> can only commence after the development of written contingency procedures which address the risks of non-compliance with Schedule B standard conditions.
PPSCC 7 (S)	The contingency procedures must include, but not necessarily be limited to: (a) environmental nuisance and complaint management procedures including: (i) a description of the petroleum activities that might result in non-compliance with Schedule B standard conditions and what mitigation measures are required to be implemented; and (ii) the action that will be undertaken when a member of the public makes a <u>valid complaint</u>. (b) management procedures including details of what actions will be taken to protect <u>environmental values</u> and minimise potential environmental harm from petroleum activities as a result of floods, severe storms and fires (c) environmental emergency management procedures including details of the response and mitigation measures that will be actioned to reduce negative impacts to environmental values in the event of a non-compliance with Schedule B standard conditions. Explanatory note: The contingency procedures may incorporate other <u>documents</u> by reference and may include the emergency response procedures required under the Petroleum and Gas (Production and Safety) Act 2004.
Soil management	
PPSCC 8 (S)	Measures must be implemented and maintained to minimise stormwater entry onto significantly disturbed land.
PPSCC 9 (S)	Sediment and erosion control measures to prevent soil loss and deposition beyond significantly disturbed land must be implemented and maintained.
PPSCC 10 (S)	The measures required by standard conditions (PPSCC 8) and (PPSCC 9) must be in accordance, to the greatest practicable extent, with the International Erosion Control Association (IECA) <i>Best Practice Erosion and Sediment Control (BPESC) document</i> and/or the Australian Pipeline Industry Association (APIA) <i>Code of Environmental Practice: Onshore Pipelines</i> (2009).
Chemical storage	
PPSCC 11 (S)	Chemicals and fuels on the relevant tenures must be stored in, or serviced by, an effective containment system that meets Australian Standards, where such a standard is relevant.
Waste management	
PPSCC 12 (S)	Measures must be implemented so that waste is managed in accordance with the <u>waste and resource management hierarchy</u> and the <u>waste and resource management principles</u> .

PPSCC 13 (S)	For waste fluids that can be stored in a container that is other than a <u>low hazard dam</u> , the container must either be an above ground container or a <u>structure</u> which contains the wetting front.
PPSCC 14 (S)	Waste, including waste fluids, must be transported off-site for lawful re-use, remediation, recycling or disposal unless the waste is specifically authorised by standard conditions (PPSCC 15), (PPSCC 16), (PPSCE 8) and (PPSCF 3) to be disposed of or used on-site.
PPSCC 15 (S)	<u>Green waste</u> may be used on-site for <u>rehabilitation</u> and/or sediment and erosion control purposes.
Variation 13	Produced water may be used for dust suppression provided the following criteria are met: a) the amount applied does not exceed the amount required to effectively suppress the dust; and b) the application: i. does not cause on-site ponding or run-off; ii. is directly applied to the area being dust suppressed; iii. does not harm vegetation surrounding the area being dust suppressed; and iv. does not cause visible salting.
Variation 14	Produced water may be used for construction purposes provided the use: a) does not result in negative impacts on the composition of the structure of soil or subsoils; b) is not directly or indirectly released to waters; c) does not result in runoff from the construction site; and d) does not harm vegetation surrounding the construction site.
Variation 15	If there is an indication that any of the circumstances in condition Variation 13(b) or Variation 14 are occurring, the use must cease immediately, and the affected area must be remediated without delay.
Treated sewage effluent	
PPSCC 16 (S)	Treated sewage effluent or <u>greywater</u> can be released to land provided it: (a) meets or exceeds <u>secondary treated class B standards</u> for a treatment system with a daily peak design capacity of between 150 EP and 1500 EP; or (b) meets or exceeds <u>secondary treated class C standards</u> for a treatment system with a daily peak design capacity of less than 150 EP; and (c) is released within fenced and signed contaminant release area(s) and does not result in pooling or run-off or aerosols or spray drift or vegetation die-off.

Schedule D – Pipeline planning	
Site planning	
PPSCD 1 (S)	Pipeline planning must be in accordance, to the greatest practicable extent, with the relevant section of the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009) and/or AS 2885.1:2012.
Planning for disturbance	
PPSCD 2 (S)	Notwithstanding condition (PPSCD 1), pipeline construction corridors must: (a) be minimised in width to the greatest practicable extent (b) not exceed 40m in width (c) not include turn around and work areas associated with pipeline construction that exceed 50m in width (d) be preferentially located alongside existing <u>linear infrastructure</u>.
PPSCD 3 (S)	Prior to any significant disturbance to land: (a) an ecological assessment of areas with native vegetation that are to be significantly disturbed, must be conducted in accordance with the Queensland Government's Biocondition, a Condition Assessment Framework for Terrestrial Biodiversity in Queensland, Assessment Manual; and (b) an assessment of the impacts that will occur as a result of significant disturbance to land must be undertaken.
Schedule E – Construction conditions	
PPSCE 1 (S)	Pipeline construction must be in accordance, to the greatest practicable extent, with the relevant section of the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009) and/or AS 2885.1:2012.
Activities in watercourses, wetlands, lakes and springs	
PPSCE 2 (S)	Petroleum activities that require earthworks, vegetation clearing and/or placing fill, other than that associated with the construction of linear infrastructure, are not permitted in or within: (a) 200 metres of any <u>wetland, lake or spring</u>; or (b) 100 metres of the <u>outer bank</u> of any other <u>watercourse</u>.
PPSCE 3 (S)	The construction and/or maintenance for linear infrastructure that will result in significant disturbance to a wetland, lake, spring or watercourse must be conducted in accordance with the following order of preference. Conducting works: 1. firstly, in times where there is no water present 2. secondly, in times of no flow 3. thirdly, in times of flow, but in a way that does not impede low flow.

PPSCE 4 (S)	Petroleum activities must not result in water turbidity increases of more than 10% in <u>high ecological value waters</u> outside contained construction or maintenance areas.
PPSCE 5 (S)	The construction and/or maintenance for linear infrastructure that will result in significant disturbance to a lake, spring or watercourse must be designed and undertaken by a suitably qualified person in accordance with the guideline <i>Activities in a watercourse, lake or spring associated with a resource activity or mining operations</i> .
PPSCE 6 (S)	The construction and/or maintenance for linear infrastructure that will result in significant disturbance to a wetland must be designed and undertaken by a suitably qualified person taking into consideration sections 5 and 6 of the guideline <i>Activities in a watercourse, lake or spring associated with a resource activity or mining operations</i> .
Fauna management	
PPSCE 7 (S)	Measures to prevent fauna entrapment must be implemented during the construction of pipelines in pipe sections and pipeline trenches and operation of <u>dams</u> .
Variation 16	Fauna must not be harmed from entrapment during the construction, operation and decommissioning of well infrastructure, dams, pipeline trenches and pipelines.
Variation 17	All vegetation clearing activities must be undertaken under the direction of a suitably qualified fauna spotter-catcher and a record must be kept detailing the name, location, condition and number of any protected wildlife encountered, other than those identified in Table 2 – Authorised impacts to Prescribed Environmental Matters .
Variation 18	In addition to condition Variation 17, the holder of the environmental authority must ensure that: (a) No tree in which a Koala is present, and no tree with a crown overlapping a tree in which a Koala is present, is cleared until the Koala leaves of its own accord. (b) Clearing within the areas identified as Protected Wildlife Habitat area are conducted in stages and timed to provide a minimum of 12 hours break between clearing events. (c) A suitably qualified fauna spotter-catcher is present during all vegetation clearance activities within the areas identified as Protected Wildlife Habitat area and has the authority to immediately cease clearance for an appropriate timeframe if any protected matter is sighted.
Waste	
PPSCE 8 (S)	Trench water, hydrostatic testing water or water from low point drains, may be released to land provided that it: a) can be demonstrated to meet the <u>acceptable standards for release to land</u> b) is released in a way that does not cause visible scouring or erosion.
PPSCE 9 (S)	If hydrostatic testing water quality does not or can not be treated to meet the requirements of standard condition (PPSCE 8), it must be managed in accordance with standard conditions (PPSCC 13) or (PPSCC 14).

Blasting							
Variation 19	Blasting must not exceed the limits for peak particle velocity and air blast overpressure in Table 3 – Blasting noise limits when measured at any sensitive place or commercial place. <table border="1"> <caption>Table 3 – Blasting noise limits</caption> <thead> <tr> <th>Blasting criteria</th><th>Blasting limit</th></tr> </thead> <tbody> <tr> <td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.</td></tr> <tr> <td>Ground vibration peak particle velocity</td><td>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.</td></tr> </tbody> </table>	Blasting criteria	Blasting limit	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.
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Ground vibration peak particle velocity	5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.						
Variation 20	Blasting must be carried out in accordance with the most current edition of the Queensland Government's <i>'Noise and vibration from blasting guideline'</i> (ESR/2016/2169) and with <i>Australian Standard 2187</i> .						
Variation 21	All monitoring of airblast overpressure and ground vibration peak particle velocity must be undertaken in accordance with the Queensland Government's <i>'Noise and vibration from blasting guideline'</i> (ESR/2016/2169).						
Structures that are dams or levees							
PPSCE 13 (S)	The <u>hazard category</u> of any dam or <u>levee</u> to be used in carrying out petroleum activities must be assessed in accordance with the Queensland Government <i>Manual for Assessing Hazard Categories and Hydraulic Performance of Dams</i> .						
PPSCE 14 (S)	Low hazard dams must be: a) constructed, operated and maintained in accordance with <u>accepted engineering standards</u> currently appropriate for the purpose for which the dam is intended to be used; and b) designed with a floor and sides made of material that will contain the wetting front and any entrained contaminants within the bounds of the containment system during both its operational life and including any period of decommissioning and rehabilitation.						
PPSCE 15 (S)	All low hazard dams must be monitored for early signs of loss of structural or hydraulic integrity as specified in the initial hazard assessment.						
PPSCE 16 (S)	When no longer required all low hazard dams must be decommissioned to no longer accept inflow from the petroleum activities and be either: a) <u>rehabilitated</u>; or b) agreed to in writing by the administering authority and the landholder to remain in situ following the cessation of the petroleum activity(ies) associated with the dam,						

	with the contained water of a quality suitable for the intended ongoing uses(s) by that landholder.
Pipeline reinstatement and revegetation	
PPSCE 17 (S)	Pipeline trenches must be backfilled and topsoils <u>reinstated</u> within 3 <u>months</u> after pipe laying.
PPSCE 18 (S)	<u>Reinstatement</u> and <u>revegetation</u> of the pipeline right of way must commence within 6 months after completion of petroleum activities for the purpose of pipeline construction.
PPSCE 19 (S)	Backfilled, reinstated and <u>revegetated</u> pipeline trenches and right of way must be: a) a stable landform b) re-profiled to a level consistent with surrounding soils c) re-profiled to original contours and established drainage lines d) vegetated with groundcover which is not a <u>declared pest species</u>, and which is established and self-sustaining.
Schedule F – Post-construction conditions including operations, maintenance and decommissioning	
PPSCF 1 (S)	Pipeline operation and maintenance must be in accordance, to the greatest practicable extent, with the relevant section of the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009) and/or AS 2885.3:2012.
PPSCF 2 (S)	Written procedures must be developed to ensure operations and maintenance of the pipeline complies with the conditions of the environmental authority.
PPSCF 3 (S)	Flush water may be released to land provided that it meets the requirements of standard condition (PPSCE 8).
Final acceptance criteria for rehabilitation	
Variation 22	After decommissioning, all significantly disturbed land caused by the carrying out of the petroleum activity(ies) not being intended to be utilised by the landholder or overlapping tenure holder must be rehabilitated to meet the following final acceptance criteria: (a) any contaminated land (e.g. contaminated soils) is remediated and rehabilitated (b) rehabilitation is undertaken in a manner such that any actual or potential <u>acid sulfate soils</u> on the area of significant disturbance are treated to prevent or minimise environmental harm in accordance with the <i>Queensland Acid Sulfate Soil Technical Manual: Soil Management Guidelines</i>, as it is updated from time to time (c) for land that is not being <u>cultivated</u> by the landholder: (i) groundcover, that is not a declared pest species, is not a prohibited matter and is not a restricted matter, is established and self-sustaining (ii) vegetation of similar <u>species richness</u> and <u>species diversity</u> to pre-selected <u>analogue sites</u> is established and self-sustaining

	(c) for land that is to be cultivated by the landholder, cover crop is revegetated, unless the landholder will be preparing the site for cropping within 3 months of petroleum activities being completed.
Variation 23	Where significant disturbance to land has occurred in an environmentally sensitive area, the following final rehabilitation criteria as measured against the pre-disturbance biodiversity values assessment (required by PPSCD 3) must be met: (a) greater than or equal to 70% of native ground cover species richness; (b) greater than or equal to the total per cent ground cover; (c) less than or equal to the per cent species richness of plant pest species; (d) greater than or equal to 50% of organic litter cover; (e) greater than or equal to 50% of total density of coarse woody material; (f) and all predominant species in the ecologically dominant layer, that define the pre-disturbance regional ecosystem(s) are present.
PPSCF 5 (S)	Monitoring of performance indicators must be carried out on rehabilitation activities until final acceptance criteria in conditions (Variation 22 and Variation 23) have been met for the rehabilitated area.
Schedule G – Monitoring and reporting conditions	
Monitoring	
PPSCG 1 (S)	All monitoring must be undertaken by a suitably qualified person.
PPSCG 2 (S)	If requested by the administering authority in relation to investigating a valid complaint, monitoring must be undertaken within 10 <u>business days</u> .
PPSCG 3 (S)	All laboratory analyses and tests must be undertaken by a laboratory that has <u>NATA accreditation</u> for such analyses and tests, except as otherwise authorised in writing by the administering authority.
PPSCG 4 (S)	Notwithstanding standard condition (PPSCG 3), where there are no NATA accredited laboratories available to test for a specific <u>analyte</u> or substance, then duplicate samples must be sent to separate laboratories for independent testing or evaluation.
Sampling	
PPSCG 5 (S)	The methods of surface water sampling must comply with that set out in the Queensland Government's <i>Monitoring and Sampling Manual 2018 – Environmental Protection (Water) Policy 2009</i> .
PPSCG 6 (S)	The methods of groundwater sampling must comply with the Australian Government's <i>Groundwater Sampling and Analysis – A Field Guide</i> (2009:27 GeoCat #6890.1).
PPSCG 7 (S)	Noise must be measured in accordance with the prescribed standards in the <i>Environmental Protection Regulation 2019</i> .

PPSCG 8 (S)	The method of measurement of ambient air quality or point source contaminant releases to air must comply with the <i>Queensland Air Quality Sampling Manual</i> and/or Australian Standard 4323.1:1995 <i>Stationary source emissions method 1: Selection of sampling positions</i> , whichever is appropriate for the relevant measurement.
Notification	
PPSCG 9 (S)	In addition to the requirements under section 320A of the <i>Environmental Protection Act 1994</i>, the administering authority must be notified in writing within 5 business days of any event which has resulted in the contingency procedures required by standard conditions (PPSCC 6) and (PPSCC 7) being activated. Explanatory note: Notification under standard condition (PPSCG 9) should occur using the form, Incident notification for resource activities other than mining (EM706) available from the administering authority's website.
Reporting	
PPSCG 10 (S)	The annual return must include an Update Report detailing activities during the <u>annual return period</u>, demonstrating: (a) significant disturbance during the period (b) rehabilitation undertaken (c) a list of all valid complaints relating to environmental issues made including the date, source, reason for the complaint and a description of investigations undertaken in resolving the complaint (d) the results of all monitoring undertaken.

Definitions

Key terms and/or phrases used in this document 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.

Term	Definition
acceptable standards for release to land	is defined as: (a) electrical conductivity (EC) not exceeding 3000µS/cm (b) sodium adsorption ratio (SAR) not exceeding 8 (c) and for hydrostatic testing water, water from low point drains and flush water, total heavy metals for each element listed meets the respective short term trigger value in Table 4.2.6. – Heavy metals and metalloids in Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC) 2000.
accepted engineering standards	in relation to dams, means those standards of design, construction, operation and maintenance that are broadly accepted within the profession of engineering as being good practice for the purpose and application being considered. In the case of dams, the most relevant documents would be publications of the <i>Australian National Committee on Large Dams</i> (ANCOLD), guidelines published by Queensland government departments and relevant Australian and New Zealand Standards.
acid sulfate soil(s)	means a soil or soil horizon which contains sulfides or an acid soil horizon affected by oxidation of sulfides.
administering authority	has the meaning in Schedule 4 of the <i>Environmental Protection Act 1994</i> .
Airblast overpressure	as defined in the <i>Guideline: Noise and vibration from blasting</i> (ESR/2016/2169).
alternative arrangement	means a written agreement about the way in which a particular impact from the activity will be dealt with at a sensitive place, and may include an agreed period of time for which the arrangement is in place. An alternative arrangement may include, but is not limited to, a range of nuisance abatement measures to be installed at the sensitive place, or provision of alternative accommodation for the duration of the relevant nuisance impact.
analogue site(s)	means an area of land which contains values and characteristics representative of an area to be rehabilitated prior to disturbance. Such values must encompass land use, topographic, soil, vegetation and other ecological characteristics. Analogue sites can be the pre-disturbed site of interest where significant surveying effort has been undertaken to establish benchmark parameters.
analyte(s)	means a chemical parameter determined by either physical measurement in the field or by laboratory analysis.

Term	Definition
annual return period	means the most current 12-month period between 2 anniversary dates.
aquifer	means an identifiable stratigraphic formation that has the potential to produce useful flows of water.
Areas of pre-existing disturbance	means areas where environmental values have been negatively impacted as a result of anthropogenic activity and these impacts are still evident. Areas of pre-existing disturbance may include areas where legal clearing, logging, timber harvesting, or grazing activities have previously occurred, where high densities of weed or pest species are present which have inhibited re-colonisation of native regrowth, or where there is existing infrastructure (regardless of whether the infrastructure is associated with the activity). The term 'areas of pre-existing disturbance' does not include areas that have been impacted by wildfire/s, controlled burning, flood or natural vegetation die-back.
Australian Standard 2187	means Australian Standard 2187.0:1998 Explosives—Storage, transport and use, Part 0, Australian Standard 2187.1:1998 Explosives—Storage, transport and use Part 1 and Australian Standard 2187.2:2006 Explosives—Storage and use, Part 2 or any updated versions that becomes available from time to time.
Australian Standard 2885	means Australian Standard 2885.0:2008 Pipelines – Gas and Liquid Petroleum General Requirements, Australian Standard 2885.0-2008/Amdt 1-2012 Pipelines - Gas and Liquid Petroleum General Requirements, Australian Standard 2885.1:2012 Pipelines – Gas and Liquid Petroleum Design and Construction and Australian Standard 2885.3:2012 Pipelines – Gas and Liquid Petroleum Operation and Maintenance, or any updated versions that become available from time to time.
bed	of any waters, has the meaning in Schedule 19 Part 2 of the Environmental Protection Regulation 2019.
biodiversity values	means regional ecosystems, environmentally sensitive areas, prescribed environmental matters and wetlands.
business day	has the meaning in section 36 of the <i>Acts Interpretation Act 1954</i> .
Category A Environmentally Sensitive Area (ESA)	has the meaning in the Environmental Protection Regulation 2019.
Category B Environmentally Sensitive Area (ESA)	has the meaning in the Environmental Protection Regulation 2019.

Term	Definition
Category C Environmentally Sensitive Area (ESA)	means any of the following areas: ▪ nature refuges as defined in the conservation agreement for that refuge under the Nature Conservation Act 1992; ▪ state forests or timber reserves as defined under the Forestry Act 1959 ▪ Resources Reserve under the Nature Conservation Act 1992; ▪ an area validated as from ground-truthing surveys as 'essential habitat' on the Queensland Government Essential Habitat Map in accordance with section 20AC of the Vegetation Management Act 1999 for a species of wildlife listed as critically endangered, endangered, vulnerable under the Nature Conservation Act 1992 ▪ an area validated from ground-truthing surveys as 'protected wildlife habitat' that is category A, B or C on the Remnant Vegetation Management Map, in accordance with section 20A of the Vegetation Management Act 1999, for a species of wildlife listed as critically endangered, endangered or vulnerable under the Nature Conservation Act 1992 ▪ 'of concern regional ecosystems' that are remnant vegetation and identified in the database called 'RE description database' containing regional ecosystem numbers and descriptions.
certified	in relation to any matter other than a design plan, 'as constructed' drawings or an annual report regarding dams means, a Statutory Declaration by a suitably qualified person or suitably qualified third party accompanying the written document stating: ▪ the person's qualifications and experience relevant to the function ▪ that the person has not knowingly included false, misleading or incomplete information in the document ▪ that the person has not knowingly failed to reveal any relevant information or document to the administering authority ▪ that the document addresses the relevant matters for the function and is factually correct; and ▪ that the opinions expressed in the document are honestly and reasonably held.
clearing	has the meaning in the dictionary of the <i>Vegetation Management Act 1999</i> .
cultivated	means used for cropping or gardening.
coastal waters	has the meaning in section 13 of the <i>Coastal Protection and Management Act 1995</i> and means the coastal waters of the state, and includes other waters within the limits of the state that are subject to the ebb and flow of the tide.

Term	Definition
dam(s)	means a land-based structure or a void that is designed to contain, divert or control flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and associated works. A dam does not mean a fabricated or manufactured tank or container, designed and constructed to an Australian Standard that deals with strength and structural integrity of that tank or container.
daily peak design capacity	for sewage treatment works, has the meaning in Schedule 2, section 63(4) of the Environmental Protection Regulation 2019 as the higher equivalent person (EP) for the works calculated using each of the formulae found in the definition for EP.
declared pest species	Declared pest species are species listed as: ▪ 'prohibited matter' or 'restricted matter' species under the Biosecurity Act 2014; or ▪ 'Weeds of National Significance' under the Australian Weeds Strategy 2017–2027.
decommissioning	in relation to pipelines means the actions undertaken in accordance with the requirements of Australian Standard 2885, as amended from time to time, to prepare the pipeline and peripheral facilities for pending suspension or abandonment.
designated precinct	has the meaning in Part 5 section 15(3) of the Regional Planning Interests Regulation 2014: ▪ for a strategic environmental area mentioned in section 4(1)—the area identified as a designated precinct on the strategic environmental area map for the strategic environmental area; or ▪ for a strategic environmental area is shown on a map in a regional plan—the area identified on the map as a designated precinct for the strategic environmental area.
documents	has the meaning in section 36 of the <i>Acts Interpretation Act 1954</i> .
ecological connectivity	is a measure of ecological condition and means the flow or connection of organisms and ecological processes across landscapes at multiple scales. Ecological connectivity has a positive relationship with landscape connectivity and habitat connectivity and effects vary between species. It includes connectivity by stepping stone or contiguous bioregional/local corridor networks.
ecosystem functioning	means the interactions between and within living and nonliving components of an ecosystem and generally correlates with the size, shape and location of the vegetation community.
eligibility criteria	for an environmentally relevant activity, has the meaning in section 112 of the <i>Environmental Protection Act 1994</i> .
environmental harm	has the meaning in section 14 of the <i>Environmental Protection Act 1994</i> .

Term	Definition
environmental value(s)	has the meaning in section 9 of the <i>Environmental Protection Act 1994</i> .
environmental nuisance	has the meaning in section 15 of the <i>Environmental Protection Act 1994</i> .
equivalent person or EP	has the meaning under section 3 of the Planning Guidelines For Water Supply and Sewerage, 2005, published by the Queensland Government. It is calculated in accordance with Schedule 2, Section 63(4) of the Environmental Protection Regulation 2019 where: - EP = $V/200$ where V is the volume, in litres, of the average dry weather flow of sewage that can be treated at the works in a day; or - EP = $M/2.5$ where M is the mass, in grams, of phosphorus in the influent that the works are designed to treat as the inlet load in a day.
environmentally relevant activity or ERA	has the meaning in section 18 of the <i>Environmental Protection Act 1994</i> .
green waste	means waste that is grass cuttings, trees, bushes, shrubs, material lopped from trees, untreated timber or other waste that is similar in nature but does not include declared pest species.
greywater	means wastewater generated from domestic activities such as laundry, dishwashing, and bathing. Greywater does not include sewage.
hazard category	means a category, either low, significant or high, into which a dam is assessed as a result of the application of tables and other criteria in Manual for Assessing Hazard Categories and Hydraulic Performance of Dams, published by the Queensland Government, as amended from time to time.
high ecological value waters	means Queensland waters that are scheduled waters under the Environmental Protection (Water and Wetland Biodiversity) Policy 2019 as high value ecological waters.
lake	means: - a lagoon, swamp or other natural collection of water, whether permanent or intermittent; and - the bed and banks and any other element confining or containing the water.
levee	means an embankment that only provides for the containment and diversion of stormwater or flood flows from a contributing catchment, or containment and diversion of flowable materials resulting from releases from other works, during the progress of those stormwater or flood flows or those releases; and does not store any significant volume of water or flowable substances at any other times.
linear infrastructure	means powerlines, pipelines, roads and access tracks.
low hazard dam	means any dam that is not classified as high or significant as assessed using the <i>Manual for Assessing Hazard Categories and Hydraulic Performance of Dams</i> , published by the Queensland Government and which contains

Term	Definition
	contaminants in concentrations which exceed or will exceed, during the dam's operational life, the values or range shown in Table 3 of the manual.
low impact petroleum activities	means petroleum activities which do not result in the clearing of native vegetation, cause disruption to soil profiles through earthworks or excavation or result in significant disturbance to land which cannot be rehabilitated immediately using hand tools after the activity is completed. Examples of such activities include but are not necessarily limited to soil surveys (excluding test pits), topographic surveys, cadastral surveys and ecological surveys, may include installation of monitoring equipment provided that it is within the meaning of low impact and traversing land by car or foot via existing access tracks or routes or in such a way that does not result in permanent damage to vegetation.
month	has the meaning in s36 of the <i>Acts Interpretation Act 1954</i> .
NATA accreditation	means accreditation by the National Association of Testing Authorities Australia.
non-linear infrastructure	means infrastructure that is other than a powerline, a pipeline, a road, an access track and includes only the following: ▪ workers camps ▪ maintenance facilities ▪ no-release sewage treatment plants ▪ laydown areas ▪ structures (i.e. dams or levees) ▪ tanks ▪ sediment and erosion control measures ▪ above ground containers and chemical / fuel storages ▪ water pumps and generators ▪ stockpiles.
outer bank	has the meaning in section 5A of the <i>Water Act 2000</i> .
performance indicator(s)	means a quantitative measure against which success can be assessed and audited in a consistent, objective and repeatable manner.
primary protection zone	means an area within 200 metres from the boundary of any Category A, B or C environmentally sensitive area.
Regional ecosystem	has the meaning in the <i>Methodology for Surveying and Mapping of Regional Ecosystems and Vegetation Communities in Queensland</i> (Version 7, December 2023) and means a Vegetation community in a bioregion that is consistently associated with a particular combination of geology, landform and soil.

Term	Definition
regulated dam(s)	means any dam in the significant or high hazard category as assessed using the <i>Manual for Assessing Hazard Categories and Hydraulic Performance of Dams</i> , published by the Queensland Government, as amended from time to time.
rehabilitation or rehabilitated	means the process of reshaping and revegetating land to restore it to a stable landform and in accordance with acceptance criteria and, where relevant, includes remediation of contaminated land. For the purposes of pipeline rehabilitation, rehabilitation includes reinstatement, revegetation and restoration.
reinstated or reinstatement	means the process of bulk earth works and structural replacement of pre-existing conditions of a site (i.e. soil surface topography, watercourses, culverts, fences and gates and other landscape(d) features) and is detailed in the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009).
release, releases or released	has the meaning in Schedule 4 of the <i>Environmental Protection Act 1994</i> .
restoration	means the replacement of structural habitat complexity, ecosystem processes, services and function from a disturbed or degraded site to that of a pre-determined or analogue state. For the purposes of pipelines, restoration applies to final rehabilitation after pipeline decommissioning.
revegetation or revegetating or revegetate	means to actively re-establish vegetation through seeding or planting techniques in accordance with site specific management plans.
right of way	means the linear construction footprint required to install pipelines.
secondary protection zone	in relation to a Category A or Category B environmentally sensitive area means an area within 100 metres from the boundary of the primary protection zone.
secondary treated class B standards	means treated sewage effluent or greywater which meets the following standards: - total phosphorous as P, maximum 20mg/L - total nitrogen as N, maximum 30mg/L 5-day biochemical oxygen demand (inhibited) (e.g. release pipe from sewage treatment plant), maximum 20mg/L - suspended solids, maximum 30mg/L - pH, range 6.0 to 8.5 - e-coli, 80th percentile based on at least 5 samples with not less than 30 minutes between samples, 1000cfu per 100mL, maximum 10000cfu per 100mL.
secondary treated class C standards	means treated sewage effluent or greywater which meets the following standards: total Phosphorous as P, maximum 20mg/L

Term	Definition
	▪ total Nitrogen as N, maximum 30mg/L ▪ 5-day Biochemical oxygen demand (inhibited) (e.g. Release pipe from sewage treatment plant), maximum 20mg/L ▪ suspended solids, maximum 30mg/L ▪ pH, range 6.0 to 8.5 ▪ e-Coli, 80th percentile based on at least 5 samples with not less than 30 minutes between samples, 10000cfu per 100mL, maximum 100000cfu per 100mL.
sensitive place	means: ▪ a dwelling (including residential allotment, mobile home or caravan park, residential marina or other residential premises, motel, hotel or hostel) ▪ a library, childcare centre, kindergarten, school, university or other educational institution ▪ a medical centre, surgery or hospital ▪ a protected area ▪ a public park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment ▪ a work place used as an office or for business or commercial purposes, which is not part of the petroleum activity(ies) and does not include employees accommodation or public roads ▪ for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.
species richness	means the number of different species in a given area.
species diversity	means the diversity within an ecological community that incorporates both species richness and the evenness of species' abundances.
spring(s)	has the meaning in Schedule 4 of the <i>Water Act 2000</i>
stable	in relation to land, means landform dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation.
strategic environmental area	Has the meaning in section 11(1) of the <i>Regional Planning Interests Act 2014</i> .
structure	means a dam or levee.
suitably qualified person	means a person who has qualifications, training, skills and experience relevant to the nominated subject matter and can give authoritative assessment, advice

Term	Definition
	and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.
top soil	means the surface (top) layer of a soil profile, which is more fertile, darker in colour, better structured and supports greater biological activity than underlying layers. The surface layer may vary in depth depending on soil forming factors, including parent material, location and slope, but generally is not greater than about 300mm in depth from the natural surface.
trench spoil	means soil from the pipeline trench.
TWRP/SH Authorised Disturbance Area (Surveyed)	Means the survey corridor detailed in the spatial data file named "TWRPSH_Authorised_Disturbance_Area_surveyed_250218" version held by the administering authority.
valid complaint	means a complaint that is not considered by the administering authority or holder of the environmental authority to be frivolous, vexatious or based on mistaken belief.
waste and resource management hierarchy	has the meaning provided in section 9 of the <i>Waste Reduction and Recycling Act 2011</i> .
waste and resource management principles	has the meaning provided in section 4(2)(b) of the <i>Waste Reduction and Recycling Act 2011</i> .
waters	means all or any part of a creek, river, stream, lake, lagoon, swamp, wetland, spring, unconfined surface water, unconfined water in natural or artificial watercourses, bed and bank of any waters, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and underground water.
watercourse	has the meaning provided in Schedule 4 of the <i>Environmental Protection Act 1994</i> .
wetland	means a wetland as defined under the Queensland Wetlands Program and are areas of permanent or periodic/intermittent inundation, with water that is static or flowing fresh, brackish or salt, including areas of marine water, the depth of which at low tide does not exceed 6 metres. To be classified as a wetland, the area must have one or more of the following attributes: ▪ at least periodically, the land supports plants or animals that are adapted to and dependent on living in wet conditions for at least part of their life cycle; or ▪ the substratum is predominantly undrained soils that are saturated, flooded or ponded long enough to develop anaerobic conditions in the upper layers; or ▪ the substratum is not soil and is saturated with water, or covered by water at some time.

Term	Definition
	For the purposes of petroleum activities, wetlands do not include springs and watercourses and those wetlands that are defined in the <i>Wetland Mapping and Classification Methodology</i> (2005) published by the Queensland Government as: ▪ H2M1 Riverine or ex-riverine (lacustrine) water bodies associated with dams and weirs located in a channel ▪ H2M3p Ponded pastures ▪ H2M5 Palustrine/lacustrine water bodies where ecological character has changed due to gross mechanical disturbance (e.g. cropping) ▪ H2M6 Palustrine/lacustrine water bodies that have been converted, completely or mostly, to a ring tank or other controlled storage ▪ H2M7 Riverine water bodies that have been converted mostly to canals or irrigation channels ▪ H3C1 Artificial stand-alone water storages not within a natural water body or channel; or ▪ H3C2 Artificial Channel drain/canal – bore drains, swales, bores and irrigation channel overflows/ponding. <i>Explanatory note:</i> This definition has been amended from the Queensland Wetlands Program definition so that low value wetlands and man-made water bodies are excluded.
year(s)	has the meaning in s36 of the <i>Acts Interpretation Act 1954</i> .

END OF ENVIRONMENTAL AUTHORITY