

Permit

Environmental Protection Act 1994

Environmental authority EPPR01823814

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

Environmental authority number: EPPR01823814

Environmental authority takes effect on the day of approval. The anniversary day of this environmental authority remains 18 October. The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
Livingstone Shire Council	25-27 Normanby St YEPPOON QLD 4703

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b), (e) more than 20,000t but not more than 50,000t.	Lot 270/SP281980
ERA 62 - Resource recovery and transfer facility operation 1: operating a facility for receiving and sorting, dismantling, baling or temporarily storing— • (a) scrap metal, non-putrescible waste or green waste only. • (b) general waste. • (c) category 2 regulated waste.	
ERA 62 - Resource recovery and transfer facility operation 2: operating a facility for receiving and sorting, baling or temporarily storing end-of-life tyres.	
ERA Sewage treatment 63 (1)(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 4,000 but not more than 10,000EP	Emu Park Road, EMU PARK 4710 – Lot 12 Plan LN801203

Environmentally relevant activities	Locations
ERA 63 Sewage treatment (1)(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 10,000 but not more than 50,000EP	Yeppoon West Sewage Treatment Plant – Lot 270 SP281980
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 1/RP618801
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 12/RP620865
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 13/LN801203
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 168/RP859921
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 54/SP217263
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 7/CP843013
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 8/RP604069
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Adj to 11 Farnborough Yeppoon
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Adj to 44 Todd Avenue Yeppoon
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Adj to 51 Wattle Grove Cooee Bay
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Old Scenic Highway Lammermoor
ERA 64 Water treatment (3) treating 10ML or more raw water in a day.	Byfield Road, WOODBURY 4703 – Lot 1 Plan RP618027
ERA 57 Regulated Waste Transport— Transporting regulated waste other than end-of-life tyres.	Regulated Waste Transport – Itinerant Activity

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

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

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

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

Take effect

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

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



Signature

12/06/2023

Date

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

Enquiries:
Utilities and Government Organisations
Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Natural Resources, Mines and Energy (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

PART 1 Conditions of environmental authority

Environmentally Relevant Activity	Locations
ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b), (e) more than 20,000t but not more than 50,000t.	Lot 270/SP281980
ERA 62 - Resource recovery and transfer facility operation 1: operating a facility for receiving and sorting, dismantling, baling or temporarily storing— (a) scrap metal, non-putrescible waste or green waste only. (b) general waste. (c) category 2 regulated waste.	
ERA 62 - Resource recovery and transfer facility operation 2: operating a facility for receiving and sorting, baling or temporarily storing end-of-life tyres.	
ERA Sewage treatment 63 (1)(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 4,000 but not more than 10,000EP	Emu Park Road, EMU PARK 4710 – Lot 12 Plan LN801203
ERA 63 Sewage treatment (1)(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 10,000 but not more than 50,000EP	Yeppoon West Sewage Treatment Plant – Lot 270 SP281980
ERA 64 Water treatment (3) treating 10ML or more raw water in a day.	Byfield Road, WOODBURY 4703 – Lot 1 Plan RP618027

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following general conditions of the approval.

Agency interest: General	
Condition number	Condition
G1-1	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
G1-2	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.

G1-3	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.
G1-4	All analyses required under this environmental authority must be carried out by a laboratory that has NATA certification, or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring of 5-day Biochemical Oxygen Demand (BOD₅), Suspended Solids, pH, Dissolved Oxygen and Residual Chlorine.
G1-5	When required by the administering authority monitoring must be undertaken in the manner prescribed by the administering authority, to investigate a complaint of environmental nuisance arising from the activity . The monitoring results must be provided to the administering authority upon request.
G1-6	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.
G1-8	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency 2. establish and maintain control measures that minimise the potential for environmental harm 3. ensure plant, equipment and measures are maintained in a proper and effective condition 4. ensure plant, equipment and measures are operated in a proper and effective manner 5. ensure that staff are trained in and aware of their obligations under the <i>Environmental Protection Act 1994</i>. 6. ensure that reviews of environmental performance are undertaken at least annually.

Agency interest: Noise

Condition number	Condition								
N1-1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .								
N1-2	Vibration emitted from activities must not cause a nuisance at any vibration sensitive place .								
N1-3	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.								
N1-4	All noise from the activity must not exceed the levels specified in <i>Table 1 – Noise Limits</i> at any noise affected premises. <table><tr><th rowspan="2">Noise level dB(a) measured as</th><th colspan="3">Monday to Saturday</th><th rowspan="2">Sundays and Public Holidays</th></tr><tr><th>7am – 6pm</th><th>6pm – 10pm</th><th>10pm – 7am</th></tr></table>	Noise level dB(a) measured as	Monday to Saturday			Sundays and Public Holidays	7am – 6pm	6pm – 10pm	10pm – 7am
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	LA ₁₀ adj, 10 mins	b/g + 5	b/g + 5	b/g + 3	b/g + 5	b/g + 5	b/g + 0
	LA ₁ adj, 10mins	b/g + 10	b/g + 10	b/g + 5	b/g + 10	b/g + 10	b/g + 5
Agency interest: Air							
Condition number	Condition						
A1-1	Odours or airborne contaminants must not cause nuisance to any sensitive place or commercial place .						
A1-2	Dust and particulate matter emissions must not exceed the following concentrations at any sensitive place or commercial place : (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or (b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.10.2 (or more recent editions) relevant to or any other method approved by the administering authority.						
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: Land							
Condition number	Condition						
L1-1	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.						

PART 2 Site Specific Conditions

Environmentally Relevant Activity	Locations
ERA 63 Sewage treatment (1)(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 10,000 but not more than 50,000EP	Yeppoon West Sewage Treatment Plant – Lot 270 SP281980

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

Agency interest: General																																																																		
Condition number	Condition																																																																	
WT2-1	The activity conducted under this environmental authority must not be conducted contrary to any of the following limitations: Inflows must not exceed the peak design capacity of three times the Design Average Dry Weather Flow (DADWF) of 6.2 ML/day on any day unless the standard treatment processes of the plant are bypassed.																																																																	
WT2-2	The only contaminants to be released to surface waters excluding bypass releases covered by the sewage treatment plant to waters described as Barmaryee Lagoons are to be in accordance with <i>Table 2 – Surface Water Release Limits</i> and the associated requirements. Table 2 – Surface Water Release Limits <table border="1"> <thead> <tr> <th rowspan="2">Monitoring Locations^{1,3}</th><th rowspan="2">Quality Characteristics</th><th colspan="4">Release Limit^{1,3}</th><th rowspan="2">Monitoring Frequency²</th></tr> <tr> <th>Minimum</th><th>50th Percentile</th><th>80th Percentile</th><th>Maximum</th></tr> </thead> <tbody> <tr> <td rowspan="8">W1 ¹Effluent Discharge Tank at 23° 9' 29.5" S, 150° 42' 17.5" E, (-23.158055, 150.704861)</td><td>BOD₅ (mg/L)</td><td>-</td><td>-</td><td>-</td><td>20</td><td>Monthly</td></tr> <tr> <td>Suspended Solids (mg/L)</td><td>-</td><td>-</td><td>-</td><td>30</td><td>Monthly</td></tr> <tr> <td>pH</td><td>6.5</td><td>-</td><td>-</td><td>8.5</td><td>Monthly</td></tr> <tr> <td>Total Nitrogen (mg/L as N)</td><td>-</td><td>5</td><td>-</td><td>10</td><td>Monthly</td></tr> <tr> <td>Total Phosphorus (mg/L as P)</td><td>-</td><td>2</td><td>-</td><td>3</td><td>Monthly</td></tr> <tr> <td>Enterococci (Primary/Secondary)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Monthly</td></tr> <tr> <td>Faecal Coliform (cfu/100ml)</td><td>-</td><td>-</td><td>-</td><td><10</td><td>Monthly</td></tr> <tr> <td>Residual Chlorine (mg/L)</td><td>-</td><td>-</td><td>-</td><td>1</td><td>Monthly</td></tr> </tbody> </table> Associated Requirements Monitoring must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.						Monitoring Locations ^{1,3}	Quality Characteristics	Release Limit ^{1,3}				Monitoring Frequency ²	Minimum	50th Percentile	80th Percentile	Maximum	W1 ¹ Effluent Discharge Tank at 23° 9' 29.5" S, 150° 42' 17.5" E, (-23.158055, 150.704861)	BOD₅ (mg/L)	-	-	-	20	Monthly	Suspended Solids (mg/L)	-	-	-	30	Monthly	pH	6.5	-	-	8.5	Monthly	Total Nitrogen (mg/L as N)	-	5	-	10	Monthly	Total Phosphorus (mg/L as P)	-	2	-	3	Monthly	Enterococci (Primary/Secondary)	-	-	-	-	Monthly	Faecal Coliform (cfu/100ml)	-	-	-	<10	Monthly	Residual Chlorine (mg/L)	-	-	-	1	Monthly
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	2. Monitoring must be undertaken when the activity is in operation and samples must be taken during a release. 3. Effluent that is piped off the approved site to 3rd party irrigation areas is also monitored at W1 in accordance with Table 2 – Surface Water Release Limits and the associated requirements. 4. Release Point from the Barmaryee Lagoons into Corduroy Creek, for the Yeppoon West STP on Lot 270 Plan SP281980 identified as RP1, is located at 23° 7' 43.7" S, 150° 41' 48.5" E (-23.128820, 150.696748). Refer to Figure 1 Locality Plan Yeppoon West STP. 5. Enterococci counts are the recommended pathogen indicator for assessing potential risks to recreational water. Monitoring should be set based on the level of recreational uses of receiving waters — either primary or secondary recreation. E.coli counts may be more relevant for small plants where recreation is unlikely.
WT2-3	In addition to WT2-2, the release to waters must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter 'excluding bypass releases covered by condition WT2-1.
WT2-4	All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorised place must be constructed, installed and maintained: • so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any waters (including ground water); • so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and so as to ensure the stability of the ponds' construction.
WT2-5	Bypass releases must be screened prior to being released.
WT2-6	The administering authority must be notified within 24 hours of any bypass release ceasing.
WT2-7	The following details must be recorded in relation to each bypass release: (a) the start time, date and duration of the release; (b) the estimated volume of the bypass release; (c) the level of treatment at the sewage treatment plant prior to discharge; (d) the cause of the release; and (e) any monitoring of the water quality released.

PART 3 Site Specific Conditions

Environmentally Relevant Activity	Locations
ERA Sewage treatment 63 (1)(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 4,000 but not more than 10,000EP	Emu Park Road, EMU PARK 4710 – Lot 12 Plan LN801203

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

Agency interest: General																																																																	
Condition number	Condition																																																																
WT3-1	Inflows must not exceed Design Average Dry Weather Flow (DADWF) of 2.3ML/day on any dry weather day and a maximum release of 11.5 ML/day on any day .																																																																
WT3-2	The only contaminants to be released to surface waters conditions are from the sewage treatment plant to waters described as the gully adjacent to the Rockhampton Road crossing north-west of the Emu Park Road STP in accordance with <i>Table 3 – Surface Water Release Limits</i> and the associated requirements. Table 3 – Surface Water Release Limits <table> <tr> <th rowspan="2">Monitoring locations^{1,3}</th><th rowspan="2">Quality Characteristics</th><th colspan="3">Release Limit³</th><th rowspan="2">Monitoring Frequency²</th></tr> <tr> <th>Minimum</th><th>80th Percentile</th><th>Maximum</th></tr> <tr> <td rowspan="10">W2 Effluent Tank at 23° 15' 45.5" S, 150° 48' 35.1" E, (-26.262500, 150.809722)</td><td>BOD₅ (mg/L)</td><td>-</td><td>20</td><td>35</td><td>Monthly</td></tr> <tr> <td>Suspended Solids (mg/L)</td><td>-</td><td>30</td><td>45</td><td>Monthly</td></tr> <tr> <td>pH</td><td>6.5</td><td>-</td><td>8.5</td><td>Monthly</td></tr> <tr> <td>Dissolved Oxygen (mg/L)</td><td>2.0</td><td>-</td><td>-</td><td>Monthly</td></tr> <tr> <td>Total Nitrogen (mg/L as N)</td><td>-</td><td>-</td><td>30</td><td>Monthly</td></tr> <tr> <td>Total Nitrogen (tonnes per annum)</td><td>-</td><td>-</td><td>8.4</td><td>Annually</td></tr> <tr> <td>Total Phosphorus (mg/L as P)</td><td>-</td><td>-</td><td>12</td><td>Monthly</td></tr> <tr> <td>Total Phosphorus (tonnes per annum)</td><td>-</td><td>-</td><td>1.68</td><td>Annually</td></tr> <tr> <td>Residual Cl² (mg/L)</td><td>-</td><td>-</td><td>1</td><td>Monthly</td></tr> <tr> <td>Faecal Coliform (cfu/100ml)</td><td>-</td><td>-</td><td><10</td><td>Monthly</td></tr> </table> Associated Requirements 1. Monitoring must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.					Monitoring locations ^{1,3}	Quality Characteristics	Release Limit ³			Monitoring Frequency ²	Minimum	80th Percentile	Maximum	W2 Effluent Tank at 23° 15' 45.5" S, 150° 48' 35.1" E, (-26.262500, 150.809722)	BOD₅ (mg/L)	-	20	35	Monthly	Suspended Solids (mg/L)	-	30	45	Monthly	pH	6.5	-	8.5	Monthly	Dissolved Oxygen (mg/L)	2.0	-	-	Monthly	Total Nitrogen (mg/L as N)	-	-	30	Monthly	Total Nitrogen (tonnes per annum)	-	-	8.4	Annually	Total Phosphorus (mg/L as P)	-	-	12	Monthly	Total Phosphorus (tonnes per annum)	-	-	1.68	Annually	Residual Cl ² (mg/L)	-	-	1	Monthly	Faecal Coliform (cfu/100ml)	-	-	<10	Monthly
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	2. Monitoring must be undertaken when the activity is in operation and samples must be taken during a release. 3. Effluent that is piped off the approved site to 3rd party irrigation areas is also monitored at W2 in accordance with <i>Table 3 —Surface Water Release Limits</i> and the associated requirements. 4. Release Point into the gully adjacent to the Rockhampton Road crossing north-east of the Emu Park Road STP at Lot 12 Plan LN801203 STP and is located at 23° 15' 35.8" S, 150° 48' 57.0" E, (-23.260000, 150.815833).
WT3-3	In addition to WT3-2, the release to waters must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.
WT3-4	The quantity of total nitrogen released from W2 during any calendar year must not exceed the mass, calculated by multiplying the relevant daily dry weather flow for a year by a total nitrogen concentration of 10mg/L.
WT3-5	The quantity of total phosphorus released from W2 during any calendar year must not exceed the mass calculated by multiplying the daily dry weather flow for a year by a total phosphorus concentration of 2mg/L.
WT3-6	To determine compliance with the limits details in Table 3 the total quantity of nitrogen or phosphorus discharged to W2 is to be calculated by: $\sum 1-12 (Q \times C)$ where for 1-12 months of the year; Q - is the average daily flow, based on the daily flow records for the month to W1 or W2, C - is the total nitrogen or total phosphorus concentration determined for the month

PART 4 Site Specific Conditions

Environmentally Relevant Activity	Locations
ERA 64 Water treatment (3) treating 10ML or more raw water in a day.	Byfield Road, WOODBURY 4703 – Lot 1 Plan RP618027

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

Agency interest: General	
Condition number	Condition
L4-3	All dry chemicals must be stored in weatherproof enclosures.
L4-4	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.
L4-8	Sludge generated from various units within the plant must be discharged to the on-site sludge drying beds.
L4-9	Other than as permitted within this environmental authority, contaminants must not be released to land.
Agency interest: Water	
Condition number	Condition
WT4-1	Other than as permitted within this environmental authority, contaminants must not be released to waters .

PART 5 Site Specific Conditions

Environmentally relevant activity/activities	Location(s)
ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b), (e) more than 20,000t but not more than 50,000t.	Lot 270/SP281980
ERA 62 - Resource recovery and transfer facility operation 1: operating a facility for receiving and sorting, dismantling, baling or temporarily storing— (a) scrap metal, non-putrescible waste or green waste only. (b) general waste. (c) category 2 regulated waste.	
ERA 62 - Resource recovery and transfer facility operation 2: operating a facility for receiving and sorting, baling or temporarily storing end-of-life tyres.	

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

Agency interest: General	
Condition number	Condition
G2	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G4	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.
G6	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.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring of pH and electrical conductivity.
G9	All reasonable and practicable measures must be taken to exclude vectors and pest species to the extent necessary to prevent: environmental nuisance to occupiers of neighbouring premises - any danger or risk to the health of any persons.
G10	All reasonable and practicable measures must be taken to contain litter within the waste operations area, and retrieve litter released.
Agency interest: Air	

Condition number	Condition								
A2	Exceedance of any of the following levels when measured at any dust sensitive place is an environmental nuisance for the purposes of condition A1. (a) Dust deposition of 120 milligrams per square metre per day, when monitored in accordancewith Australian Standard AS3580 of 1991;or (b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre(µm)(PM₁₀) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a dust sensitive place downwind of the site, when monitored in accordance with: (c) Australian Standard AS3580.9.6 'Ambient air - Particulate matter- Determination of suspendedparticulate PM₁₀ high volume sampler with size-selective inlet - Gravimetric method'; or Any alternative method of monitoring PM₁₀ which may be permitted by the 'Air QualitySampling Manual' as published from time to time by the administering authority.								
A3	The following materials must not be used for dust suppression purposes: 1. leachate or landfill gas condensate 2. waste oil or other hydrocarbons.								
A4	The holder of this environmental authority must adopt such practices and procedures as necessaryto ensure that the concentration of landfill gas (methane standards) generated by Yeppoon landfill does not exceed: (a) 25 percent of the lower exposure limit for methane in facility structures excluding gas control orrecovery system components; and (b) The lower explosive limit for methane at the landfill facility boundary.								
A5	A landfill gas monitoring program must be developed and implemented for the landfill to measure methane levels in facility structures and at the landfill site boundary, as prescribed in condition A4.The program must be developed and implemented by an appropriately qualified person.								
A6	If methane gas levels exceeding methane standards prescribed in condition A4 are detected, all necessary steps must immediately be taken to ensure protection of human health.								
Agency interest: Water									
Condition number	Condition								
WT1	Contaminants must not be released to groundwater or at a location where they are likely to releaseto groundwater.								
WT2	The only contaminants to be indirectly released to surface waters described as Corduroy Creek are Settled Treated Stormwater Overflow from the on-site sedimentation ponds in accordance with<i>Table 4 – Settled Treated Stormwater Overflow Release Limits</i> and the associated requirements. Table 4 – Settled Treated Stormwater Overflow Release Limits <table><tr><th colspan="2">Release and Monitoring Point Described as YLSWSed2¹</th><th rowspan="2">Quality characteristics (units)</th><th rowspan="2">Minimum</th><th rowspan="2">Maximum</th><th rowspan="2">Minimum Monitoring Frequency</th></tr><tr><th>Latitude</th><th>Longitude</th></tr></table>	Release and Monitoring Point Described as YLSWSed2 ¹		Quality characteristics (units)	Minimum	Maximum	Minimum Monitoring Frequency	Latitude	Longitude
Release and Monitoring Point Described as YLSWSed2 ¹		Quality characteristics (units)	Minimum					Maximum	Minimum Monitoring Frequency
Latitude	Longitude								

	-23.149883°	150.705360°	pH (pH unit)	6.5	8.5	Every release event
	-23.149883°	150.705360°	Electrical Conductivity (µS/cm)	-	1500	Every release event
	-23.149883°	150.705360°	Suspended Solids (mg/L)	-	85	Every release event
	-23.149883°	150.705360°	Ammonia – NH ₃ (mg/L)	-	0.9	Every release event
	-23.149883°	150.705360°	Pb (mg/L) ²	-	0.0034	Every release event
	-23.149883°	150.705360°	Mn (mg/L) ²	-	1.9	Every release event
	-23.149883°	150.705360°	Zn (mg/L) ²	-	0.008	Every release event
	Associated requirements 1. The location of release and monitoring point must be in accordance with Attachment 1 – Figure 1 Yeppoon Landfill Release / Monitoring point, Project No: 15055, 27 July 2018. 2. All metals and metalloids must be measured as total (unfiltered) and dissolved (filtered). Limits apply to dissolved metals / metalloids monitoring results. 3. Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's <i>Water Quality Sampling Manual</i>. 4. Representative samples must be taken. 5. All determinations must employ analytical practical quantification limits sufficiently low enough to enable comparisons to be made against water quality objectives/limits relevant to the particular water quality characteristic. 6. Monitoring must be undertaken during a release as per the frequency stated. 7. All monitoring devices must be calibrated and maintained.					
WT3	Monitoring of contaminants indirectly released to waters must be undertaken in accordance with condition WT2 and records of the results must be kept.					
WT4	In addition to WT2, the release to waters must not: 1. have any other properties at a concentration that is capable of causing environmental harm; or 2. produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.					
WT5	The stormwater runoff from disturbed areas , generated by a storm event up to and including a 24 hour storm event with an average recurrence interval of 1 in 10 years must be retained on site or managed to remove contaminants as defined by condition WT2 before released offsite.					
WT6	The release of treated / settled stormwater must be conducted in a way and at a rate that does not cause: 1. re-suspension of particles; or 2. erosion of bed or banks of receiving waters; or 3. landscape damage; or 4. ponding of the water; or 5. vegetation damage.					
WT7	All batteries, liquid chemicals, fuels, and other liquid substances with potential to cause environmental harm must be stored within a secondary containment system that is impervious to the materials stored within it, and must be managed to prevent the release of contaminants to waters or land.					

WT8	A receiving environment monitoring program must be designed and implemented by an appropriately qualified person(s) to monitor the effects of the activity on groundwater. The receiving environment monitoring program required, must include at least the following: (1) A groundwater monitoring system must be installed for any landfill unit and must include asufficient number of wells installed at locations and depths which yield representative groundwater samples from the uppermost aquifer that establish: Background groundwater quality in hydraulically up-gradient or background wells that have not been affected by any potential leakage of contaminants to groundwater; - Quality of groundwater down-gradient of any potential leakage of contaminants to groundwater. (2) locations for groundwater monitoring facilities must be given with reference to horizontal coordinates of such facilities accurate to 1.0 metre. (3) the point(s) of compliance must be situated not more than 150 metres from any landfill unit or the boundary of the landfill facility whichever is closest. (4) monitor the quality of groundwater to detect any possible release of contaminants in accordance with the following water quality characteristics: • Ammonia (as N); • Bicarbonate (HCO₃); • Calcium; • Chloride; • Iron (total); • Manganese (dissolved); • Nitrate (as N); • pH (field measurement); • Potassium; • Sodium; • Sulphate; • Electrical Conductivity; • Total Organic Carbon (TOC); and • Zinc (5) Each groundwater monitoring bore must be fitted with a locked cap at all times other than at the time of sampling.
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Agency interest: Land

Condition number	Condition																		
L1	The only contaminants to be released to land¹ are Settled Treated Stormwater Overflow from the site in accordance with <i>Table 5 – Settled Treated Stormwater Overflow Release Limits</i> and the associated requirements. Table 5 – Settled Treated Stormwater Overflow Release Limits <table><tr><th colspan="2">Release and Monitoring Point Described as YLSWSed^{2 2}</th><th rowspan="2">Quality characteristic (units)</th><th rowspan="2">Minimum</th><th rowspan="2">Maximum</th><th rowspan="2">Minimum Monitoring Frequency</th></tr><tr><th>Latitude</th><th>Longitude</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					Release and Monitoring Point Described as YLSWSed ^{2 2}		Quality characteristic (units)	Minimum	Maximum	Minimum Monitoring Frequency	Latitude	Longitude						
Release and Monitoring Point Described as YLSWSed ^{2 2}		Quality characteristic (units)	Minimum	Maximum	Minimum Monitoring Frequency														
Latitude	Longitude																		

	-23.149883°	150.705360°	pH (pH unit)	6.5	8.5	Every release event
	-23.149883°	150.705360°	Electrical Conductivity (µS/cm)	-	1500	Every release event
	-23.149883°	150.705360°	Suspended Solids (mg/L)	-	85	Every release event
	-23.149883°	150.705360°	Ammonia – NH ₃ (mg/L)	-	0.9	Every release event
	-23.149883°	150.705360°	Pb (mg/L) ³	-	0.0034	Every release event
	-23.149883°	150.705360°	Mn (mg/L) ³	-	1.9	Every release event
	-23.149883°	150.705360°	Zn (mg/L) ³	-	0.008	Every release event
	Associated requirements 1. The land is described as natural grassland area located within the approved lot and plan (Lot 270 Plan SP281980) boundary for this site as depicted in Attachment 1 - Figure 1 Yeppoon Landfill Release / Monitoring point, Project No: 15055, 27 July 2018. 2. The location of release and monitoring point must be in accordance with Attachment 1 – Figure 1 Yeppoon Landfill Release / Monitoring point, Project No: 15055, 27 July 2018. 3. All metals and metalloids must be measured as total (unfiltered) and dissolved (filtered). Limits apply to dissolved metals / metalloids monitoring results. 4. Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's Water Quality Sampling Manual. 5. Representative samples must be taken. 6. All determinations must employ analytical practical quantification limits sufficiently low enough to enable comparison to be made against water quality objectives/limits relevant to the particular water quality characteristic. 7. Monitoring must be undertaken during a release as per the frequency stated. 8. All monitoring devices must be correctly calibrated and maintained.					
L2	Monitoring of contaminant releases to land must be undertaken in accordance with condition L1 and records of the results must be kept.					
L3	When the deposition of waste to the landfill unit ceases, a final capping system to the landfill unit must be designed by an appropriately qualified person and installed to minimise: 1. infiltration of water into the landfill unit and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a landfill unit ceases temporarily for the purpose of using an alternative working face.					
L4	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earth surfaces;					

	2. potential for erosion is minimised; 3. the quality of water, including seepage, released from the site does not cause environmentalharm; 4. potential for environmental nuisance caused by dust is minimised; 5. the water quality of any residual water body does not have potential to cause environmentalharm; 6. the final landform is stable and protects public safety; and 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'																												
L5	Following cessation of deposition of waste in the landfill unit , post-closure care of the landfill unit must be conducted for a period of 30 years or until the administering authority determines, on the basis of correct information, that the landfill unit and surrounding site are stable and that no release of waste materials, leachate , landfill gas or other contaminants that may cause environmental harm is likely.																												
L6	The program of post-closure care implemented must be effective in preventing and/or minimizing the likelihood of environmental harm being caused. The program must include measures to: 1. maintain the structural integrity and effectiveness of the final capping system; 2. maintain and operate the leachate collection system; 3. maintain the groundwater monitoring system and monitor quality of groundwater at a frequencysufficient to detect any release of contaminants to groundwater; and 4. maintain and operate the landfill gas monitoring system.																												
Agency interest: Noise																													
Condition number	Condition																												
N2	Noise from the activity must not exceed the levels identified in <i>Table 6 - Noise limits</i> whenmeasured in accordance with the associated monitoring requirements. Table 6 - Noise limits <table><tr><td></td><td colspan="3">Monday to Saturday</td><td colspan="3">Sundays and public holidays</td></tr><tr><td>Noise Level dB(A) measured as</td><td>7am - 6pm</td><td>6pm - 10pm</td><td>10pm - 7am</td><td>9am - 6pm</td><td>6pm - 10p m</td><td>10pm - 9am</td></tr><tr><td>L_{A10,adj,10mins}</td><td>b/g+5</td><td>b/g+5</td><td>b/g+3</td><td>b/g+5</td><td>b/g+5</td><td>b/g+0</td></tr><tr><td>L_{A1,adj,10mins}</td><td>b/g+10</td><td>b/g+10</td><td>b/g+5</td><td>b/g+10</td><td>b/g+10</td><td>b/g+5</td></tr></table> Associated monitoring requirements 1. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual. 2. Any monitoring must be in accordance with the most recent version of the administering authority's NoiseMeasurement Manual. 3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.		Monday to Saturday			Sundays and public holidays			Noise Level dB(A) measured as	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10p m	10pm - 9am	L _{A10,adj,10mins}	b/g+5	b/g+5	b/g+3	b/g+5	b/g+5	b/g+0	L _{A1,adj,10mins}	b/g+10	b/g+10	b/g+5	b/g+10	b/g+10	b/g+5
	Monday to Saturday			Sundays and public holidays																									
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L _{A10,adj,10mins}	b/g+5	b/g+5	b/g+3	b/g+5	b/g+5	b/g+0																							
L _{A1,adj,10mins}	b/g+10	b/g+10	b/g+5	b/g+10	b/g+10	b/g+5																							
N3	When required by the administering authority , noise monitoring must be undertaken, in accordance with the associated requirements of Table 6— Noise limits in condition N2, and the																												

	results notified within 14 days to the administering authority. Monitoring must include: 1. LAeq, adj, T; 2. Background noise (Background) as LA 90, adj, T; 3. MaxLpA,T; 4. the level and frequency of occurrence of any impulsive or tonal noise; 5. atmospheric conditions including wind speed and direction; 6. effects due to extraneous factors such as traffic noise; and 7. location, date and time of recording.																						
Agency interest: Waste																							
Condition number	Condition																						
WS1	Leachate must not be permitted to discharge beyond the boundaries of the approved place.																						
WS2	Diversion drainage structures must be in place to divert stormwater flows away from disposal areas.																						
WS3	Waste and any contaminated soil disposed of at the premises to which this environmental authority relates: 1. must be accepted subject to effectively implementing risk assessment practices and procedures for contaminant testing that ensure that the material accepted complies with the maximum contaminant levels and the allowable leaching contaminant levels prescribed in <i>Table 7 – Maximum contaminant levels in soils</i> and <i>Table 8 - Allowable leaching contaminant levels</i> respectively; and if the contaminated soil is used as coverage material, contaminant levels must not exceed the maximum concentration limits in <i>Table 7 - Maximum total contaminant levels in soils used as cover material</i>; and 2. must not cause contaminated stormwater release and must not include any soil that is contaminated due to the concentration of monocyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated hydrocarbons, pesticides, or petroleum hydrocarbons. Table 7 – Maximum contaminant levels in soils <table border="1"> <thead> <tr> <th>Contaminant</th><th>Maximum contaminant level for clay lined landfills (mg/kg)</th></tr> </thead> <tbody> <tr> <td colspan="2"><i>Monocyclic aromatic hydrocarbons (MAH)</i></td></tr> <tr> <td>Benzene</td><td>10</td></tr> <tr> <td>Ethyl Benzene</td><td>500</td></tr> <tr> <td>Toluene</td><td>300</td></tr> <tr> <td>Xylene</td><td>250</td></tr> <tr> <td>Total MAH</td><td>500</td></tr> <tr> <td colspan="2"><i>Polycyclic aromatic hydrocarbons (PAH)</i></td></tr> <tr> <td>Total PAH</td><td>500</td></tr> <tr> <td colspan="2"><i>Phenolic contaminants</i></td></tr> <tr> <td colspan="2"><i>Non halogenated compounds:</i></td></tr> </tbody> </table>	Contaminant	Maximum contaminant level for clay lined landfills (mg/kg)	<i>Monocyclic aromatic hydrocarbons (MAH)</i>		Benzene	10	Ethyl Benzene	500	Toluene	300	Xylene	250	Total MAH	500	<i>Polycyclic aromatic hydrocarbons (PAH)</i>		Total PAH	500	<i>Phenolic contaminants</i>		<i>Non halogenated compounds:</i>	
Contaminant	Maximum contaminant level for clay lined landfills (mg/kg)																						
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Total PAH	500																						
<i>Phenolic contaminants</i>																							
<i>Non halogenated compounds:</i>																							

Phenol	100
m-cresol	250
o-cresol	250
p-cresol	250
Total halogenated phenol	250
<i>Halogenated phenol</i>	
Chlorophenol	1
Pentachlorophenol	5
Trichlorophenol	5
Total halogenated phenol	5
<i>Chlorinated Hydrocarbons</i>	
<i>Chlorinated aliphatic compounds:</i>	
Carbon tetrachloride	5
1,2 Dichloroethane	10
1,1 Dichloroethene	1
Tetrachloroethene	10
Trichloroethene	25
Total chlorinated aliphatic compounds	50
<i>Chlorinated aromatic compounds:</i>	
Chlorobenzene	100
Hexachlorobenzene	1
Total chlorinated aromatic compounds	100
Non scheduled solid polychlorinated biphenyls (PCBs)	2
<i>Pesticides</i>	
Total organochlorine	5
Total herbicides	25
Total carbamates	25
Total organophosphorus	10
<i>Petroleum hydrocarbons</i>	
Total petroleum hydrocarbons (C6-C9)	500

Total petroleum hydrocarbons (C10-C14)	5,000
Total petroleum hydrocarbons (C15-C28)	10,000
Total petroleum hydrocarbons (C29-C36)	10,000
<i>Non specific contaminants</i>	
Biochemical oxygen demand	20,000
Total organic carbon	10,000
Petroleum hydrocarbons	25
<i>Metals/non-metals</i>	
Antimony	0.5
Arsenic	0.5
Barium	10
Cadmium	0.05
Chromium	0.5
Cobalt	0.5
Copper	10
Lead	0.5
Mercury	0.01
Molybdenum	0.1
Nickel	0.5
Selenium	0.1
Silver	0.5
Thallium	0.1
Tin	0.3
Vanadium	0.5
Zinc	50
<i>Inorganic anions</i>	
Bromide	5
Chloride	6,000
Cyanide (total)	1
Fluoride	15
Nitrate	100
Sulphate	2,500

<i>Monocyclic aromatic hydrocarbon (MAH)</i>	
Benzene	0.1
Ethyle benzene	5
Toluene	3
Xylene	2
Total MAH	5
<i>Polycyclic aromatic hydrocarbons (PAH)</i>	
Anthracene	0.07
Benz (a) anthracene	0.005
Benz (c) phenanthrene	0.005
Benzo (a) pyrene	0.002
Benzo (b) fluoranthene	0.005
Benzo (k) fluoranthene	0.005
Chrysene	0.01
Diebenz (a,H) anthracene	0.002
Dibenz (a,h) pyrene	0.01
Dimethylbenz (a) anthracene	0.005
Fluoranthene	0.02
Indeno (1,2,3-cd) pyrene	0.01
Naphthalene	0.07
Phenanthrene	0.01
Pyrene	0.07
Total PAH	0.1
<i>Phenolic contaminants</i>	
<i>Non halogenated compounds:</i>	
Phenol	1
m-cresol	2
o-cresol	2
p-cresol	2
<i>Halogenated phenols</i>	
Chlorophenol	0.01
Pentachlorophenol	0.1

Trichlorophenol	0.1
Chlorinated hydrocarbons	
<i>Chlorinated aliphatic compounds</i>	
Carbon tetrachloride	0.03
1,2 Dichloroethane	0.1
1,1 Dichloroethene	0.003
Tertrachloroethene	0.1
Trichloroethene	0.3
<i>Chlorinated aromatic compounds</i>	
Chlorobenzene (total)	1
Hexachlorobenzene	0.002
<i>Pesticides</i>	
<i>Organochlorine</i>	
Aldrin	0.001
Chlordane	0.006
Chlorpyrifos	0.01
Dieldrin	0.001
DDT	0.003
Endrin	0.001
Heptachlor	0.003
Lindane	0.1
Methoxychlor	0.1
Toxaphene	0.005
<i>Herbicides</i>	
2,4-D	0.1
2,4-DB	0.2
2,4,5-T	0.002
MCPA	0.2
<i>Carbamates:</i>	
Carbaryl	0.06
Carbofuran	0.03
<i>Organophosphorus:</i>	

	Diazinon	0.01
	Methyl Parathion	0.006
	Parathion	0.03
	Diazinon	0.01
	Methyl Parathion	0.006
	Parathion	0.03
	<i>Triazines:</i>	
	Atrazine	0.01
	Simazine	0.01
	<i>Fluorinated organic compounds:</i>	
	Total fluorinated organic compounds (if leachate reused on or off-site)	0.0003
	Total fluorinated organic compounds (if leachate not reused on or off-site)	0.05
	For any waste or soil contaminated by radioactive material, the gross alpha and gross beta activity concentration in the Toxicity Characteristics Leaching Procedure (TCLP) extracts from the material are no more than 100 times the concentrations for the screening of gross alpha and gross beta activity concentrations specified in the National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines, 2011.	
	* Allowable leaching levels to be determined using the TCLP procedure mentioned in United States Department of Environment and Science (EPA), Washington DC (2008) "Test methods for evaluating solid waste, physical/chemical methods" Document number SW 846. 3rd Edition or more recent editions or supplement to that procedure as they become available.	

Table 8 – Maximum total contaminant levels in soil used as cover material (Note: this material is not suitable for final capping)

Contaminant	Maximum total contaminant levels in soils used as cover material (mg/kg)
Arsenic (total)	200
Beryllium	40
Cadmium	40
Chromium (iii)	240,000
Chromium (vi)	200
Copper	2,000

	Lead	600
	Manganese	3,000
	Mercury (inorganic)	30
	Methyl Mercury	20
	Nickel	600
	Zinc	14,000
	PFOS (Perfluoro-octane sulfonate)	6
	PFOA (Perfluoro-octanoic acid)	16
	Total fluorinated organic compounds	10 (not including PFOS & PFOA)
WS4	In addition to WS3, the following waste streams must not be permitted to be placed at the landfill facility at any time: 1. liquid or semiliquid waste, other than: a. liquid or semi-liquid waste which has been produced in the carrying out of the activity; b. liquid or semi-liquid waste that is incidental to, and commingled with, the permitted waste streams. 2. hot ash; 3. material that is smouldering or aflame; 4. material containing a substance which is ignitable, corrosive, reactive or toxic material (other than materials containing a toxic substance from domestic premises) unless this material is to be deposited into a dedicated monocell with a written approval of the administering authority; 5. all radioactive wastes, unless otherwise approved under the <i>Radiation Safety Act 1999</i> or approved contaminated soil; 6. an explosive; and ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction.	
WS5	Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.	
WS6	Excepting combustion of landfill gas, waste must not be burnt.	
WS7	All biosolids must not be deposited in unlined areas of the landfill.	

PART 6 Standard Conditions

Environmentally Relevant Activity	Locations
ERA 57 Regulated Waste Transport— Transporting regulated waste other than end-of-life tyres.	Regulated Waste Transport – Itinerant Activity

With the exception of any variations, the conditions of approval for this environmental authority include standard conditions contained within the attached document entitled:

- Code of environmental compliance for certain aspects of regulated waste transport (ERA57) – Version 4.

PART 7 Standard Conditions

Environmentally Relevant Activity	Locations
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 1/RP618801
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 12/RP620865
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 13/LN801203
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 168/RP859921
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 54/SP217263
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 7/CP843013
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Lot 8/RP604069
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Adj to 11 Farnborough Yeppoon
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Adj to 44 Todd Avenue Yeppoon
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Adj to 51 Wattle Grove Cooe Bay
ERA 63 Sewage treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b).	Old Scenic Highway Lammermoor

Conditions of approval for this environmental authority are:

- All reasonable steps must be taken to ensure the activity complies with the eligibility criteria.
- The eligibility criteria and standard conditions contained within the attached document(s) entitled:
 - Code of environmental compliance for certain aspects of sewage treatment activities (ERA 63) – Version 1

Schedules

Schedule 1 – Approved plans

Figure 1 Locality Plan Yeppoon West STP



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.

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 or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as L A90,T being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

Boundary means within one metre of the cadastral **boundary** of the site.

Clay lined means a landfill lined with compacted clay at least 600 mm thick achieving a maximum permeability of 1×10^{-9} metres per second or alternate such as an engineered geosynthetic agreed in writing as equivalent in performance by the **administering authority**.

Bypass means when the standard treatment processes of the plant do not occur as a result of wet weather and inflows that are in excess of the peak design capacity for inflow resulting in the release of untreated or partially treated effluent from the sewage treatment plant to the environment

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.

Design Average Dry Weather Flow (DADWF) means the average dry weather flow of the treatment plant at the design horizon.

Disturbed areas includes areas:

1. that are susceptible to erosion;
2. that are contaminated by the activity, and/or
3. upon which stockpiles of soil or other materials are located.

Dry weather day means a day which less than 1mm of rainfall is recorded at any rainfall measuring station recognised by the Commonwealth Bureau of Meteorology within the sewered area connected to the sewage treatment plant, or if no such measuring station exists, at the nearest such station to the sewage treatment plant. The term also excludes days during which recorded rainfall over the fourteen preceding days exceeds a cumulative rainfall of 50mm.

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

General waste means waste other than regulated waste.

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

Landfill unit means a discrete area of land or an excavation that receives solid waste.

Landfill facility means land and structures at the site approved used for the disposal of solid waste.

Leachate means a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the site that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

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

NATA means National Association of Testing Authorities.

Release of a contaminant into the environment means to:

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

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

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the Nature Conservation Act 1992, the Marine Parks Act 1992 or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- 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 gutter, stormwater run-off, and groundwater and any part thereof.

You means the holder of the environmental authority.

80th percentile means not more than one fifth, of the measured values are to exceed the stated release limit for the limit period, for example, no more than ten (10) for any fifty (50) consecutive samples for the long term period.

24 hours storm event with an average recurrence interval of 1 in 10 years means the maximum rainfall depth from a 24-hour precipitation event with an average recurrence interval of once in 10 years. For example, an intensity-Frequency-Duration table for a 24-hour duration event with an average recurrence interval of 1 in 10years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth of this event is therefore 24 hour X 8.2mm/hour = 196.8mm.

END OF ENVIRONMENTAL AUTHORITY

Code of environmental compliance

ERA 57 — Regulated waste transport

Superseded code of environmental compliance for certain aspects* of regulated waste transport (ERA 57)

Version 4

The standard conditions of this code of environmental compliance are the conditions of an environmental authority where the criteria of this code of environmental compliance were met and an approval was applied for from 31 March 2013 to 28 June 2018.

These conditions do not apply for new applications for these activities. An ERA standard for regulated waste transport applies for new operations for these activities.

Note: A reference in this document to the Department of Environment and Heritage Protection should be read as a reference to the Department of Environment and Science.

Code of environmental compliance

ERA 57—Regulated waste transport

This code of environmental compliance (code) has been made under Schedule 3 of the Environmental Protection Regulation 2008. It contains the standard environmental conditions approved by the Minister, under section 549(2) of the Environmental Protection Act 1994, for carrying out the aspect of the environmentally relevant activity (ERA) specified in Section 2 of this code.

Code of environmental compliance for certain aspects* of regulated waste transport (ERA 57)

Version 4

From 31 March 2013, codes of environmental compliance no longer have effect, and an environmental authority is required for this ERA.

The eligibility criteria and standard conditions of this code are taken to be eligibility criteria and standard conditions for the ERA until new eligibility criteria and standard conditions take effect.

Any new operation commencing from 31 March 2013 that meets the eligibility criteria in Section 2 of this code and that can meet all of the standard conditions can apply for a standard approval to carry out this activity. The conditions that apply to the standard approval will be the standard conditions.

Where the operation cannot meet all the standard conditions of this code, a variation application for an environmental authority can be made. The environmental authority will include the standard conditions as modified by any approved variations.

Information on applying for an approval is at www.business.qld.gov.au.

Anyone holding a registration certificate to operate under this code before 31 March 2013 is automatically taken to have an environmental authority for the ERA. The registration certificate becomes an environmental authority and the standard environmental conditions of this code will be the conditions of the environmental authority as standard conditions. The anniversary day of the environmental authority is the anniversary day of the registration certificate.

* This code only applies to the aspects of the ERA that meet with the criteria in section 2 of this code.

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1. Introduction

The Department of Environment and Heritage Protection has introduced an improved environmental compliance framework for **environmentally relevant activities (ERAs)**¹ with a relatively low risk of environmental impact by introducing codes of environmental compliance (codes) that set out **standard environmental conditions**. Codes are appropriate for those activities that can achieve a good level of environmental protection through established practices and compliance with **standard environmental conditions**.

The codes also include advisory notes to help **operators** understand the condition or measures that may be taken to ensure compliance. The advisory notes are a guide only and do not limit the range of measures that may be taken to comply with a condition.

This use of codes simplifies and speeds up environmental approvals for the businesses involved, while retaining appropriate standards of environmental protection and performance.

The Minister responsible for the *Environmental Protection Act 1994* (EP Act), pursuant to section 549 of the EP Act, has approved the **standard environmental conditions** contained in this code. Approved codes are listed in Schedule 3 of the Environmental Protection Regulation 2008 (EP Reg).

2. Scope of the code

This code applies to ERA 57 — Regulated waste transport, where the operation of the ERA will comply with all the criteria outlined in the following table:

Criteria
Regulated waste is transported by road vehicles only (not by train, boat, aircraft, pipeline or other means).

Where the operation of a particular ERA will not meet the above criteria, this code does not apply and a development approval is required to undertake the ERA.

The ERA — Regulated waste transport, is defined in Schedule 2 of the EP Reg as:

“ERA 57. Regulated waste transport consists of —

- a) transporting on a non-commercial basis 250kg or more of regulated waste in a vehicle; or*
- b) transporting on a commercial basis any quantity of regulated waste in a vehicle.*

3. When the code takes effect

This code applies immediately to all **operators** of ERA 57 (that meet the criteria in section 2 of this code) who commenced activities on or after 1 July 2006.

Operators who were carrying out ERA 57 under a development approval before 1 July 2006, and continued to carry out the **activity** had a 12 month transitional period to ensure their operations complied with the code. The code became effective for those **operators** on 1 July 2007.

Version 4 of this code contains new and amended **standard environmental conditions** that took effect on 9 November 2012. Version 4 of this code applies immediately to all **operators** of ERA 57 (that meet the criteria in section 2 of this code) who commenced activities on or after 9 November 2012.

Version 3 of this code continues to apply for 12 months to **operators** who were carrying out ERA 57 under version 3 of this code. Those **operators** who continue to carry out the **activity** have a 12 month transitional

¹ Terms used throughout this code that are defined in section 9 are shown in bold type.

period to ensure their operations comply with the new or amended **standard environmental conditions** of version 4 of this code.

4. Enforcement of the code

This code contains **standard environmental conditions** for carrying out the aspects of ERA 57 that meet the criteria outlined in section 2 of this code. Failure to comply with the conditions is an offence under the EP Act and penalties apply. Enforcement guidelines published by the **department** are available at www.ehp.qld.gov.au.

5. Other requirements

In addition to the conditions in this code, a person carrying out ERA 57 must comply with other requirements of the EP Act and any other relevant Commonwealth, State or local government legislative requirements. Without limiting statutory requirements that may apply, some additional obligations under the EP Act include:

- holding a “**registration certificate**” issued by the **department** under section 73F; and
- taking all reasonable and practicable measures to prevent or minimise environmental harm. This is referred to as the “general environmental duty”.

It is the **operator’s** responsibility to obtain any other approvals before carrying out the **activity**.

6. Amendment of this code

The code may be amended from time to time by gazette notice advising that the Minister has approved new conditions. Proposed changes to the **standard environmental conditions**, other than changes to correct a clerical error, will be made in consultation with stakeholders. Where there is a significant change to the code, the **department** will notify persons affected by the change.

Version 2 did not amend any **standard environmental conditions**. Minor amendments were made to reflect the new description of the ERA as it appears in Schedule 2 of the EP Reg.

Version 3 contains a number of minor amendments that update references to departmental names, contact details for obtaining publications and more recent versions of standards referred to in the advisory notes. It does not amend any **standard environmental conditions**.

Version 4 of the code contains the following changes:

- amendment of condition 7 to allow for the transfer of grease trap and other oily wastes between **road tank vehicles** for the purpose of consolidating loads.
- addition of standard conditions 47 to 49 regarding the transfer of waste.
- addition of the definition of ‘**oily waste**’.
- addition of the definition of ‘**sensitive place**’.
- amendment of the definition of ‘**waters**’ to remove stormwater channel, stormwater drain, roadside gutter and stormwater run-off.
- minor administrative amendments to reflect the change in the department name to the Department of Environment and Heritage Protection (formerly known as the Department of Environmental and Resource Management and known as the Environmental Protection Agency prior to that), changes in other departmental names, contact details and condition numbering.

7. Further information or enquiries

Further information is available at www.ehp.qld.gov.au or by contacting a regional office. General enquiries or suggestions for future amendments to the code should be directed to Permit and Licence Management (PALM) on telephone 13 QGOV (13 74 68) or by email at: palm@ehp.qld.gov.au.

8. Standard environmental conditions and advisory notes

The following tables list groups of **standard environmental conditions** that apply to different aspects of regulated waste transport. Table 8.1 contains a general set of conditions that apply to all activities covered by this code. Advisory notes appear beside the conditions to provide guidance on compliance.

Depending on the type of vehicle used, and the nature of waste transported, additional **standard environmental conditions** as specified in Tables 8.2 to 8.8 (see below) may also apply. For example, if an **activity** involves the transport of asbestos in a **rigid vehicle**, Tables 8.1, 8.2 and 8.6 will apply.

Table 8.2 — Asbestos conditions.

Table 8.3 — Lead conditions.

Table 8.4 — Clinical and related waste conditions.

Table 8.5 — Polychlorinated biphenyl (PCB) conditions.

Table 8.6 — Rigid vehicle conditions.

Table 8.7 — Road tank vehicle conditions.

Table 8.8 — Operating 36 or more vehicles.

Table 8.1 General conditions

Conditions applying to all regulated waste transport activities operating under this code.

Standard Environmental Conditions	Advisory Notes
Condition 1 – Vehicle details For new operators — details of all vehicles used to transport regulated waste must be provided to the department before commencing the activity.	This information may be provided to the department by completing and submitting the <i>Details of regulated waste vehicles</i> form. This is available from the department's website or by contacting PALM on 13 QGOV (13 74 68).
Condition 2 – Change of details notification For existing operators — if any vehicle registration details change, or any vehicles are added to or removed from the fleet of vehicles used to transport regulated waste, details of these changes must be provided to the department: - as soon as practicable after the changes occur; or - if transporting tyres — prior to each anniversary day (see section 9); or - if transporting other regulated wastes — when paying the annual fee to the department for the registration certificate.	For operators transporting tyres, the <i>Details of regulated waste vehicles</i> form mentioned in the advisory note for condition 1 may be used for providing details of changes. For operators transporting other regulated wastes, an annual notice (including the <i>Details of regulated waste vehicles</i> form) may be sent to the operator when the registration certificate's annual fee is due.
Condition 3 – Incompatible wastes Incompatible wastes must not be: - placed in the same container; or - transported in such a way that mixing may occur.	In general, wastes are incompatible if they are likely to increase the risk to human health and/or the environment when mixed or brought into contact with each other e.g. acids and alkalis and mixing some solid wastes with liquid wastes. If a waste is classified as a dangerous good, the <i>Australian Code for the Transport of Dangerous Goods by Road and Rail</i>, 7th edition, (ADG Code), or more recent versions should also be observed.
Condition 4 – Design and compatibility Regulated waste must only be transported in suitably designed vehicles, tanks, containers or secondary containers that are appropriate for containing the waste being transported.	Design should take into account at least the following matters: - the relevant design requirements prescribed in Schedule 8 of the <i>Environmental Protection (Waste Management) Regulation 2000</i> (see Appendix 1 of this code); - the corrosive nature of the waste being transported (e.g. acid waste must be transported in acid resistant containers); - the physical state of the waste (e.g. liquids should only be transported in drums, tanks or tankers);

Standard Environmental Conditions	Advisory Notes
	- the requirements outlined in the ADG Code; and - any relevant Australian Standards.
Condition 5 – Maintenance and cleaning All vehicles, tanks, containers and secondary containers used to transport regulated waste: - must be maintained in a good condition at all times to prevent any spillage or leakage of regulated waste or other contaminants; and - kept free of regulated waste residues at all times when not in use.	Regular inspections, cleaning and maintenance programs should be documented and implemented. For example, tankers and tanks used for transporting liquid wastes should have appropriate integrity tests conducted at regular intervals. The operator will also need to comply with any workplace health and safety requirements in relation to this matter. Contact the Department of Justice and Attorney-General (Division of Workplace Health and Safety Queensland) for advice on telephone 1300 369 915.
Condition 6 – Partitioning of load A solid impervious partition must be provided to separate the load compartment/area of the regulated waste transport vehicle from the driver's compartment.	The partition will need to be of suitable design and construction to prevent the load characteristics from affecting its performance and prevent wastes from entering the driver's compartment.
Condition 7 – Disposal Regulated waste must not be removed or released from any vehicle other than: - at a facility that can lawfully receive the regulated waste; or - for the purpose of consolidation grease trap and/or other oily wastes in a larger road tank vehicle where access to the waste source is restricted to smaller road tank vehicles.	Check with the operator of the receiving facility or the department to ensure that the receiving facility can lawfully accept the regulated waste. The transfer of waste between tankers is to be undertaken in accordance with conditions 47-49 of Table 8.7 Road tank vehicle conditions.
Condition 8 – Prevention of spillage Regulated waste must not leak or spill from the vehicle.	Adequate containment devices (e.g. spill trays or sumps) that are inspected and cleaned regularly should be fitted to prevent spills from leaving the vehicle.
Condition 9 – Clean up of spills Notwithstanding condition 8, any leakage or spillage of regulated wastes must be contained immediately, recovered and disposed of to a facility that can lawfully accept the waste.	Any leakages or spillages should be contained, recovered and disposed of appropriately, not washed into the stormwater system, waters or onto the ground.

Standard Environmental Conditions	Advisory Notes
Condition 10 – Spill kit An appropriate spill kit, personal protective equipment and relevant instructions for the management of the regulated wastes transported must be maintained and kept in each vehicle.	A designated storage area within or on the vehicle and easily accessible in an emergency should be provided for this purpose.
Condition 11 – Notification of spills (interstate) If operating interstate, any spillage, leak, escape or other loss of regulated waste from the vehicle must be reported as soon as practicable to the relevant regulatory agency of the State or Territory in which the vehicle is travelling when the incident occurs.	Details for the relevant agencies should be kept in the vehicle, or be readily available through communication with the operator's head office, or operations base.
Condition 12 – Notification of spills (Queensland) When operating in Queensland, any release of contaminants not in accordance with the conditions of this code must be reported by telephone to the department's Pollution Hotline or regional office located in the area where the release occurred. Any such release must be reported as soon as practicable, but no later than 24 hours (depending on the level of risk to the environment), after becoming aware of the release.	The department may need to respond quickly to some spills that have the potential to cause environmental harm. Priority should be given to notifying the department of these spills immediately after they occur. The Pollution Hotline number is 1300 130 372. Notification of spills under this section does not remove the duty to notify environmental harm in sections 320 to 320G of the EP Act.
Condition 13 – Information about spills A written notice detailing the following information must be provided to the department within 14 days of any advice provided in accordance with condition 12: - the name of the operator, including the operator's registration certificate number; - the name and telephone number of a designated contact person; - substance and quantity released; - vehicle and vehicle registration details; - person/s involved (driver and any others); - the location and time of the release; - the suspected cause of the release; - a description of the effects of the release; - the results of any sampling performed in relation to the release; - actions taken to mitigate the risk or extent of environmental harm caused by the release; - the success of any actions taken to mitigate the risk or extent of environmental harm; and - proposed actions to prevent a recurrence of the release.	This written advice should be provided to the department's regional office located in the area where the release occurred.

Standard Environmental Conditions	Advisory Notes
Condition 14 – Insurance All vehicles used to transport regulated wastes (that are not classified as dangerous goods, or as a placard load of dangerous goods), must be covered by a policy of insurance or other form of indemnity, for a sum that is not less than \$100,000, in respect of: - personal injury, death, property damage and other damage (except consequential economic loss) arising out of fire, explosion, leakage or spillage of dangerous goods in, on or from the vehicle or a container on the vehicle; and - costs incurred by or on behalf of a Commonwealth, State or Territory government authority in a clean-up resulting from any event of the kind referred to in subparagraph a) of this condition.	If the regulated waste is classified as a placard load of dangerous goods, consult with the Dangerous Goods Unit in the Department of Transport and Main Roads and the ADG Code regarding any additional levels of insurance that may be required.
Condition 15 – Records All records required by this code must be kept for 5 years and be made available to an authorised officer of the department when requested.	Records should verify the provision of training programs and schedules of routine inspections.
Condition 16 – Waste records A record of all regulated waste (excluding trackable waste) must be kept detailing the following information for every load of waste transported: - date of pickup of waste; - description of waste; - quantity of waste; - origin of the waste; and - destination of the waste.	Trackable wastes, as listed in Schedule 1 of the <i>Environmental Protection (Waste Management) Regulation 2000</i>, are covered by recording as required in that Regulation instead of this condition. The regulation is available for viewing at www.legislation.qld.gov.au. Recording requirements for trackable wastes (under the waste tracking system established under the above Regulation) are similar to this condition.
Condition 17 – Documentation At all times, a copy of: - the registration certificate issued by the department for regulated waste transport activities; and - the appropriate emergency guides in relation to the waste transported must be carried in the cabin of each vehicle used to transport regulated waste and when requested, be presented to an authorised officer of the department or relevant regulatory agency of the State or Territory in which the vehicle is travelling.	Standards Australia publish numerous guides, including: • <i>HB 76-2004 Dangerous Goods – Initial emergency response guide</i>; and • emergency procedure guides (AS1678 series); which are available from SAI Global Business Publishing². The ADG Code may require additional documents to be carried if the regulated waste is also classified as a dangerous good.

² SAI Global can be contacted on 131 242 or via their website www.saiglobal.com/shop.

Standard Environmental Conditions	Advisory Notes
Condition 18 – Training All vehicle drivers must: - have access to a copy of this code in the vehicle, or through direct communication with the vehicle depot or operations base; and - be trained in the requirements of this code, including the use of all equipment and procedures necessary to comply with the conditions of this code, and document all training undertaken.	A copy of this code of environmental compliance should be available for reference at a vehicle depot, operations base or place where the vehicle is garaged. If permanent communication is not available to someone with this code, a copy of this code should be kept in the cabin of the vehicle. Details of training provided should be documented by the registered operator to demonstrate compliance with this condition.
Condition 19 – Complaint response The following details must be recorded: - time, date, name and contact details of the complainant; - reasons for the complaint; - any investigations undertaken; - conclusions formed; and - any actions taken.	This information should be made available to the department on request. If the complainant does not provide their name and contact details, record this as an anonymous complaint.

Table 8.2 Asbestos conditions
Additional conditions applying to the transport of asbestos waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 20 – Asbestos containment All asbestos transported must be: - double bagged and sealed in heavy-duty polythene bags (minimum 200 µm thickness); or - contained in sealed drums or bins that are lined with heavy-duty plastic (minimum 200 µm thickness); or - where the volume or size of asbestos waste (e.g. large asbestos cement sheets) is greater than the volume or size of a bag, drum or bin: - for friable asbestos waste, sealed in double lined heavy-duty plastic sheeting (minimum 200 µm thickness) prior to being placed into a waste skip, vehicle tray or similar container; or - for non-friable asbestos waste, kept damp and contained in a waste skip, vehicle tray or similar container that has been double lined with heavy duty plastic sheeting (minimum 200 µm thickness) and then completely	Refer to the <i>Work Health and Safety Act 2011</i>, <i>Work Health and Safety Regulation 2011</i> and <i>Work Health and Safety (Codes of Practice) Notice 2011</i> for any additional requirements that may apply. These are available from the Office of the Queensland Parliamentary Counsel website www.legislation.qld.gov.au. In addition, the requirements of the <i>Safe Work Australia Code of Practice on How to Safely Remove Asbestos 2011</i> or the <i>Safe Work Australia Code of Practice on How to Manage and Control Asbestos in the Workplace 2011</i> or any subsequent versions, may also apply. These are available on the Safe Work Australia website www.safeworkaustralia.gov.au. Additional requirements may apply under the ADG Code.

sealed with the plastic sheeting and adhesive tape.	
Condition 21 – Asbestos handling All asbestos transported must be: a) labelled with a warning statement to indicate the presence of asbestos and that dust creation and inhalation needs to be avoided; b) securely loaded and stowed on the vehicle during transit in such a way that does not cause the packaging to rupture; c) off loaded carefully to prevent the packaging from rupturing; and d) repackaged immediately if rupturing of the packaging does occur.	The <i>Safe Work Australia Code of Practice on How to Safely Remove Asbestos</i> provides the following example of a warning statement which might be used: “Caution – Asbestos Do not damage or open bag Do not inhale dust Cancer and lung disease hazard” If repackaging is required due to rupturing, workplace health and safety requirements will apply. Contact the Department of Justice and Attorney-General (Division of Workplace Health and Safety Queensland) for advice on 1300 369 915.

Table 8.3 Lead conditions

Additional conditions applying to the transport of particulate lead waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 22 – Lead All particulate lead waste must be: a) double bagged and sealed in heavy duty polythene bags (minimum 200 µm thickness), and placed in containers on the vehicle; b) labelled to indicate the presence of lead and with appropriate lead risk and safety phrases (see definitions “risk phrase” and “safety phrase” in section 9 of this code); c) securely loaded and stowed on the vehicle during transit in such a way that does not cause the packaging to rupture; d) off loaded carefully to prevent the packaging from rupturing; and e) repackaged immediately if rupturing of the packaging does occur.	Particulate lead waste is waste that is capable of becoming airborne or unable to be easily recovered if a spill occurs during transport. Examples of particulate lead wastes include waste from foundry filters and lead based paint residues. Please refer to the <i>Workplace Health and Safety Regulation 2008 (Qld)</i> (or any subsequent versions) for any additional requirements that may apply. If the lead is a dangerous good, additional requirements may apply under the ADG Code.

Table 8.4 Clinical and related waste conditions

Additional conditions applying to the transport of clinical and related waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 23 – Vehicle compartment All clinical and related wastes must be transported in a fully enclosed load compartment of a vehicle that: - is bunded or otherwise designed to contain any spills and leaks; - is lockable; and - has internal surfaces which are rigid and seamless to facilitate cleaning and disinfection.	Refer to Appendix 1 of this code for specific design rules as required by the <i>Environmental Protection (Waste Management) Regulation 2000</i>. For interstate transport, refer to Australian Standard 3816:1998 — <i>Management of Clinical and Related Waste</i> (or subsequent versions) for any additional requirements that may apply. For radioactive wastes, contact the Queensland Health Radiation Health Unit on (07) 3328 9987 for any licensing requirements that may apply under the <i>Radiation Safety Act 1999</i>. For wastes also classified as dangerous goods, refer to the ADG Code.
Condition 24 – Security Vehicles and load compartments must be locked when unattended.	This is required to prevent unauthorised access.
Condition 25 – Secondary containment All clinical and related wastes must be provided with rigid secondary containment during transport.	Secondary containment may be achieved if the waste is fully contained in: - appropriate bags that comply with the design rules in Appendix 1 of this code (primary containment); and - a rigid-walled waste container that complies with the design rules in Appendix 1 of this code (secondary containment). Additional requirements may apply if the waste is also classified as a dangerous good (refer to the Dangerous Goods Unit in the Department of Transport and Main Roads or other relevant authority in the State or Territory in which the vehicle is travelling).
Condition 26 – Cleaning and disinfection Secondary containers used for the transportation of clinical and related wastes must be effectively cleaned and disinfected before reuse.	The local council should be consulted prior to the disposal of any effluent to sewer. The operator will also need to comply with any workplace health and safety requirements in relation to this matter. Contact the Department of Justice and Attorney-General (Division of Workplace Health & Safety Queensland) for advice on 1300 369 915.

Standard Environmental Conditions	Advisory Notes
Condition 27 – Compaction systems Clinical and related wastes must not be transported in vehicles fitted with compaction systems.	Compaction may cause rupturing of containers and leakage of clinical and related wastes. These wastes need to be transported in totally enclosed, intact, and leak proof containers for treatment and disposal in accordance with the <i>Environmental Protection (Waste Management) Regulation 2000</i>.
Condition 28 – Odour nuisance Noxious or offensive odours must not be released from any vehicle transporting clinical or related wastes.	Refrigeration may be necessary to comply with this condition. When determining if the waste should be refrigerated during transport, consideration should be given to any Queensland Health and workplace health & safety requirements and other factors such as: • specific type of clinical and related waste being transported; • time held in transit; • temperature; • distance travelled; and • state of the waste when received.

Table 8.5 Polychlorinated biphenyl (PCB) conditions

Additional conditions applying to the transport of PCB waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 29 – PCB management The transport of wastes containing PCBs that are also classified as scheduled wastes under the Australian and New Zealand Environment and Conservation Council (ANZECC) <i>Polychlorinated Biphenyls Management Plan – July 1999</i> must comply with the requirements of that Plan.	The <i>Polychlorinated Biphenyls Management Plan – July 1999</i> includes the requirement for: • PCBs to be transported in accordance with the ADG Code; and • the development of emergency containment and clean up procedures for the accidental release of PCBs into the environment. A copy of the ANZECC <i>Polychlorinated Biphenyls Management Plan</i> is available from the Commonwealth Department of Sustainability, Environment, Water, Population and Communities website www.environment.gov.au.

Condition 30 – PCB trained personnel Personnel suitably trained in methods of handling and containing spilled PCBs must accompany any vehicle transporting waste containing PCBs.	As required by condition 18, details of training provided should be documented to demonstrate compliance with this condition.
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Table 8.6 Rigid vehicle conditions

Additional conditions applying to the transport of regulated waste in rigid vehicles and trailers under this code.

Standard Environmental Conditions	Advisory Notes
Condition 31 – Vehicle tray When transporting regulated waste in rigid vehicles and trailers, the tray of the vehicles must be: a) constructed of an impervious material; b) maintained in a sound condition; and c) designed to contain any spills on the tray.	Trays should be inspected regularly and any corrosion or other defect should be attended to so that the integrity of the tray is maintained. Any containment system or sump should be designed to facilitate the collection and removal of spilt waste (e.g. by pumping liquids or shovelling solids).
Condition 32 – Covers When transporting regulated waste in rigid vehicles and trailers, any waste not fully contained within weatherproof packages must be covered during transport to contain the load and protect it from wind and rain.	The covers should be designed to prevent particulate matter becoming airborne and to prevent ingress of rain into the waste, which may result in dangerous reactions, or the runoff of contaminants.
Condition 33 – Securing of load When transporting regulated waste in rigid vehicles and trailers, all regulated waste containers must be: a) mounted securely to the vehicle; and b) contained within the tray of the vehicle.	All loads should be restrained in accordance with the requirements of the National Transport Commission and Road & Traffic Authority NSW; <i>Load Restraint Guide, 2nd Edition</i> (or subsequent versions). The guide is available from the National Transport Commission website at www.ntc.gov.au Additional requirements may apply under the ADG Code if the waste is classified as a dangerous good.
Condition 34 – Containment When transporting regulated waste in rigid vehicles and trailers, the vehicle must be fitted with: a) adequate cargo securing devices; and b) in the case of vehicles transporting packaged regulated waste (see definitions in section 9 of this code), rigid sides or gates that contain the load while in transit.	These must be appropriate for the type of containers or cargo being transported and suitable to withstand the rigours of transport and heavy braking.

Standard Environmental Conditions	Advisory Notes
Condition 35 – Height of load When transporting packaged regulated waste in rigid vehicles and trailers, the top of any container must not protrude above the sides or gates of the vehicle by more than 30% of the height of the container.	This is intended to prevent toppling of the load if the primary restraint fails.

Table 8.7 Road tank vehicle conditions

Additional conditions applying to the transport of liquescent and dry particulate regulated waste in road tank vehicles under this code.

Standard Environmental Conditions	Advisory Notes
Condition 36 – Vehicle stability Road tank vehicles must be constructed to minimise instability and risk of rollover.	As a guide, refer to Australian Standard 2809.1—2008 <i>Road Tank Vehicles for Dangerous Goods – General requirements for all road tank vehicles</i> (or subsequent versions). This provides information about design features requiring particular attention, e.g. centre of gravity, tyre track, suspension, effect of prime mover, steering geometry and axle alignment, tyres and brakes.
Condition 37 – Roll-over protection Road tank vehicles must be provided with roll-over protection to protect all tanks, components and fittings on the upper and side surfaces of the tank in the event of the vehicle rolling over or becoming inverted.	As a guide, refer to the Australian Standard 2809 series. For example, this includes requirements for certain tanks to be fitted with roll-over protection with the following characteristics: • a guard in the form of inverted U-coamings, (the thickness of which depends on the type of tank and construction material, e.g. large-compartment made of low carbon steel, must not be less than 5mm in thickness); • any guard, dome or coaming shall project at least 25mm above the top of the fitting, which it protects.
Condition 38 – Transfer equipment Waste transfer equipment, including discharge point and pipe-work on road tank vehicles, must be: - fitted to the vehicle so as to not extend beyond the outer body line of the vehicle; or - designed to provide sufficient inherent resistance to damage; or - provided with protection to prevent damage.	Transfer couplings should be located in a position on the tank(s) that will minimise the risk of the couplings being damaged or severed by an impact. For further information, refer to the Australian Standard 2809 series.

Standard Environmental Conditions	Advisory Notes
Condition 39 – Sampling points Road tank vehicles used for the transport of liquid regulated waste must have sampling points on the top of each compartment that are readily accessible for the purposes of a roadside inspection.	Where appropriate, additional sampling valves may need to be provided at the bottom of the compartments.
Condition 40 – Transfer hoses Regulated waste material must not leak or spill from waste transfer hoses to the ground while the road tank vehicle is in transit.	Waste transfer hoses should be cleared before disconnection and maintained in good condition so as to prevent spillage or leakage of regulated waste. The following are examples of how hoses can be transported to minimise the risk of spills: • carry them in spill proof compartments on the vehicle; • fit them with leak proof caps with captive chains; or • connect them end-to-end. In addition, the ADG Code may include the requirement for hose assemblies to be: • inspected at least monthly; and • hydrostatically tested at least yearly.
Condition 41 – Road clearance All tank filling and discharge points on road tank vehicles must have adequate ground clearance and be rigidly connected to the tank.	As a guide, refer to Australian Standard 2809.1:2008 — <i>Road Tank Vehicles for Dangerous Goods – General requirements</i> for all road tank vehicles (or subsequent versions), which includes the following requirements: • Tank filling and discharge connections should not extend lower than 40mm below the plane through the centre-line of the axles. • Tank components and protection devices should not be less than 250mm within 1 metre of any axle, or 350mm from any other location when the vehicle is unladen.
Condition 42 – Vacuum system All road tank vehicle vacuum pump systems must be fitted with operational: a) pressure and/or vacuum relief valves; and b) pump shut-off valves.	Testing of the system should be carried out regularly and the results recorded, including details of any repairs and/or maintenance conducted.

Standard Environmental Conditions	Advisory Notes
Condition 43 – Volume measurement Where regulated waste is transported in road tank vehicles, the tank capacity must not be exceeded and a mechanism for volume measurement that is readily visible and calibrated to show maximum volume of waste in the tank must be fitted to each tank.	Sight glasses are an example of a mechanism for volume measurement. Depending on the type of regulated waste, sufficient ullage space should be provided (e.g. 10% or more of the tank capacity) to allow for thermal expansion of the waste during transport.
Condition 44 – Manholes Where regulated waste is transported in road tank vehicles, manholes of sufficient size to allow internal inspection, cleaning and maintenance of the tanks must be fitted.	As a guide, refer to the Australian Standard 2809 series, which specifies a minimum diameter of 400mm for certain types of cargo. The operator will also need to comply with any workplace health and safety requirements in relation to this matter. Contact the Department of Justice and Attorney-General (Division of Workplace Health and Safety Queensland) for advice on 1300 369 915 or via their website www.deir.qld.gov.au/workplace/.
Condition 45 – Outlets All filling and discharge points of road tank vehicles must be fitted with suitable leak proof caps and captive chains when regulated wastes are in transit.	Road conditions, vibration and heavy braking are some considerations that should be taken into account when determining what is suitable.
Condition 46 – Rear impact protection Each road tank vehicle must be provided with an effective bumper and/or barrier system to protect the tank and fittings from rear impact.	As a guide, see Australian Standard 2809.1:2008 — <i>Road Tank Vehicles for Dangerous Goods – General requirements</i> for all road tank vehicles (or subsequent versions). This has a requirement for rear impact protection to be fitted so that: - the inner surface is not less than 150mm from the tank or any component or fitting; - the width is not less than the width of the tank; and - it is attached to the sub-frame or the chassis of the vehicle or trailer.
Condition 47 – Transfer of waste The transfer of grease trap and/or oily wastes as permitted in condition 7 must: - only occur directly from one road tank vehicle to another; - be conducted using a closed vacuum system; and - be supervised at all times.	The person supervising the transfer of waste must be trained in the use of a spill response kit. Spill response kits should be easily accessible to allow for a quick response.

Standard Environmental Conditions	Advisory Notes
Condition 48 – Location of transfer The transfer of grease trap waste and/or oily wastes must: a) not take place at a sensitive place; b) not take place on a road adjacent to a sensitive place; c) not cause odour nuisance at a sensitive place. The transfer of grease trap waste and/or oily wastes must take place at least 10 metres up gradient from any waters or stormwater drain inlet.	It is an offence under the <i>Environmental Protection Act 1994</i> to cause an environmental nuisance and to deposit waste in (or in a place where the waste can move into) waters, a roadside gutter or stormwater drainage. This 10 metres is a minimal buffer and does not negate the need to use temporary bunding where there may be a release to any waters or stormwater drain inlet.
Condition 49 – Temporary bunding Where practicable the transfer of waste must be conducted on a bunded, hardstand area to minimise any releases of contaminants to land or water if a spill occurs. Where there is potential for a release to waters or stormwater during a transfer, temporary bunding and/or containment devices must be used to minimise the potential for release.	In particular, bunding/containment devices must be used where the transfer takes place near a roadside gutter or stormwater drainage infrastructure. The type and size of bunding and containment devices should be sufficient to contain a spill and be placed close to the vehicles to minimise the clean up area if a spill occurs. Variables to consider when assessing whether or not there is potential for a release to waters or stormwater during a transfer include distance from any waters or stormwater, slope, surface type and waste viscosity. Examples of where there is no potential for a release to waters or stormwater include where the transfer is carried out: a) on a bunded hardstand area; b) on a large flat grassed area; or c) in a hollow

Table 8.8 Operating 36 or more vehicles.

Additional conditions applying to an activity that involves the operation of 36 or more regulated waste transport vehicles (i.e. ERA 57(2)(c)) under this code.

Standard Environmental Conditions	Advisory Notes
Condition 50 – Operational management system When an activity involves the operation of 36 or more regulated waste transport vehicles, an Operational Management System (OMS) must be developed for implementation by the person carrying out the activity. The OMS must be implemented on commencement of the activity and provide for: a) identification of actual and potential releases of all contaminants, their environmental impacts and the actions to be taken to prevent the likelihood of environmental harm; b) establishment and maintenance of procedures to identify the potential for accidents; c) activation of appropriate responses to emergency situations; d) training of staff to achieve awareness of the potential for environmental harm and competence in the application of preventative measures and emergency response procedures; and e) a review of, and continual improvement to, the overall environmental performance of the business operations.	The OMS documents do not need to be submitted to the department, but should be kept at the head office address and any transport or operations depots. Staff should be suitably trained in and aware of the requirements and provisions of the OMS. When requested, a copy of the current version of the OMS should be provided to an authorised departmental officer for review when conducting a compliance inspection. Following an incident, the department may ask the company to demonstrate how they complied with relevant provisions of the OMS. The company may be able to use the document to demonstrate compliance with their general environmental duty.

9. Definitions

Note: If a word or phrase is not defined it must be given the meaning it has under the EP Act or its subordinate legislation, as amended from time to time. If a word or phrase is not defined in this code or the EP Act or its subordinate legislation, it has its ordinary meaning.

Activity means the **environmentally relevant activity**, or aspect of the ERA to which this code relates.

ADG Code means the *Australian Code for the Transport of Dangerous Goods by Road and Rail*, 7th edition, or more recent versions as they become available. The ADG Code is available for purchase from Canprint — Telephone: (02) 6293 8383 or from the National Transport Commission website at www.ntc.gov.au

Anniversary day, for a **registration certificate** is defined in Schedule 4 of the EP Act.

Asbestos-containing material means any material, object, product or debris that contains asbestos.

Asbestos waste means all removed **asbestos-containing materials** and disposable items used during the asbestos removal work, such as plastic sheeting used for an enclosure or to cover surfaces in the asbestos work area, disposable coveralls, disposable respirators and rags used for cleaning etc.

Clinical waste means waste that has the potential to cause disease including, for example, the following:

- a) animal waste;
- b) discarded sharps;
- c) human tissue waste; and
- d) laboratory waste.

Code of environmental compliance means a code of environmental compliance approved or made under a regulation of the EP Act.

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

Environmentally relevant activity (ERA) means an activity prescribed by regulation as an ERA.

Friable asbestos means **asbestos-containing material** which, when dry, is or may become crumbled, pulverised or reduced to powder by hand pressure.

Note: This may include asbestos containing materials that have been subjected to conditions, such as weathering, physical damage, water damage etc., that leave them in a state where they meet the above definition.

Incompatible wastes means wastes that are likely to interact and increase the risk to human health and/or the environment when mixed or brought into contact.

Liquescent waste means waste tending toward a liquid state; waste that is not spadeable.

Oily waste means hydrocarbons and water mixtures or emulsions, including oil and water mixtures or emulsions, which is the **regulated waste** item 37 of Schedule 7 of the Environmental Protection Regulation 2008. **Oily waste** does not include mineral oil (item 34) that is not in a mixture or emulsion with water. Vegetable oil (item 63) is also excluded.

Operator means the person carrying out the ERA.

Packaged regulated waste means **regulated waste** in a container with:

- a) a capacity of not more than 450 litres; and
- b) a nett mass of not more than 400 kilograms.

Registration certificate means a **registration certificate** given under section 73F of the EP Act to the **operator** of an ERA.

Regulated waste means waste that—

1. a) is commercial or industrial waste, whether or not it has been immobilised or treated; and
b) is of a type, or contains a constituent of a type, mentioned in schedule 7.
2. Waste prescribed under subsection (1) includes—
 - a) for an element—any chemical compound containing the element; and
 - b) anything that contains residues of the waste.

Regulatory agency means the agency of a State or Territory that has responsibility for regulating the transport of regulated wastes in that State or Territory.

Related waste means waste that constitutes, or is contaminated with, chemicals, cytotoxic drugs, human body parts, pharmaceutical products or radioactive substances.

Release of a contaminant into the environment, includes:

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

Rigid vehicle means a vehicle the load carrying area of which is fixed to the vehicle's chassis or frame (as defined in the ADG Code).

Risk phrase means a phrase stated in the National Occupational Health and Safety Commission's (NOHSC's) document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about the substance's hazards.

Road tank vehicle means a truck, trailer or semi-trailer or unit in a road train, incorporating a tank, or having a tank or tanks mounted thereon, either permanently or temporarily (as defined in AS 2809.1–2008 — *Road Tank Vehicles for Dangerous Goods*).

Safety phrase means a phrase stated in National Occupational Health and Safety Commission's document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about:

- a) the safe use of the substance; or
- b) the personal protective equipment for the substance.

Sensitive place means—

- (a) a dwelling (including residential allotment, mobile home or caravan park, residential marina or other residential premises, motel, hotel or hostel);
- (b) a library, childcare centre, kindergarten, school, university or other educational institution;
- (c) a medical centre, surgery or hospital; or
- (d) 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.

Standard environmental conditions for a **code of environmental compliance**, means the **standard environmental conditions** approved for the ERA, or aspect of the ERA, under section 549 of the EP Act.

Ullage means a vapour space which is left above the liquid surface after filling, to permit a degree of thermal expansion of the liquid without loss of cargo (as defined in AS 2809.1–2008 — *Road Tank Vehicles for Dangerous Goods*)

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), and groundwater and any part thereof.

Superseded
Valid for approvals from 9 November 2012 to 28 June 2018

Appendix 1 — Design rules

General rules applicable to rigid-walled waste containers and waste transport vehicles

It must be designed in a way that ensures:

- a) it performs the intended function when used in accordance with the manufacturer's instructions; and
- b) waste does not spill from it during usual usage or servicing; and
- c) it is not adversely affected by environmental conditions, including, for example, heat, humidity or sunlight; and
- d) it is not adversely affected by the cleaning procedures specified by the manufacturer.

The inner surfaces must be smooth, free of recesses and be able to be readily cleaned.

The inner surfaces must be designed to allow easy removal of waste.

If it has internal seams, the seams must be fully welded.

The following matters must be taken into account in designing it:

- a) the type of waste to be collected, removed or conveyed;
- b) the likelihood of abrasion by solid waste;
- c) the likelihood of chemical attack;
- d) the need to exclude rain or other liquid that may be likely to leach a contaminant from the waste.

It must be constructed of a material that will not undergo a change that impairs its life or performance when it comes into contact with waste.

If it is constructed from plastic, the plastic must be UV resistant for the container's life.

If it is a waste container or waste transport compartment within a waste transport vehicle, it must be constructed:

- a) of a durable material that is capable of withstanding normal operating conditions; and
- b) in a way that ensures it minimises the entry of insects and vermin.

If it is a container designed for use to transport waste, it must be designed in a way that provides a permanent way of securing the lid so that waste is not released during transportation.

Specific design principles for waste transport vehicles

If the vehicle is to be used for transporting waste in containers, the vehicle design must include a permanent method of securing the containers in an upright position.

If the vehicle incorporates a tanker body, the vehicle must be designed in a way that ensures:

- a) each discharge point on the body is protected from possible damage; and
- b) each discharge point is capable of being locked in the off position; and
- c) it is fitted with signs detailing the direction and movement needed to shut the discharge and loading valves; and
- d) effective covers are provided for all manholes; and
- e) the manhole covers are capable of being secured at all times when the manholes are not being used; and
- f) a storage area is provided for the vehicle's hoses.

Specific design principles for plastic bags used for clinical and related waste

It must have sufficient strength to safely contain the waste it is designed to hold.

It must be designed to allow for secure final closure when the bag is filled to a maximum of two-thirds of its capacity or 6kg, whichever is the lesser.

It must not be designed with closure devices that have sharp protuberances, including, for example, staples.

Code of environmental compliance

ERA 63(3)—Sewage treatment

This code of environmental compliance (code) has been made under Schedule 3 of the Environmental Protection Regulation 2008. It contains the standard environmental conditions approved by the Minister, under section 549(2) of the Environmental Protection Act 1994, for carrying out the aspects of the environmentally relevant activity (ERA) specified in Section 3 of this code.

Code of environmental compliance for certain aspects* of sewage treatment activities (ERA 63)

Version 1

* This code only applies to the aspects of the ERA that meet the criteria in Section 3 of this code.

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1. Introduction

The Department of Environment and Heritage Protection (EHP) has simplified the environmental compliance framework for environmentally relevant activities (ERAs) where environmental outcomes can be achieved by developing codes of environmental compliance (codes) that set out standard environmental conditions. The use of codes expedites environmental approval processes whilst still ensuring that there are appropriate standards of environmental management and protection.

Codes are appropriate for those activities that can achieve a good level of environmental protection through established, well understood practices. The standard environmental conditions are based on these practices and require the registered operator to take the necessary measures to prevent or minimise environmental harm.

Key terms and/or phrases used in this code are bolded and defined at the end of this code. Where a term is not defined in this code, the definition in the *Environmental Protection Act 1994* (EP Act), its regulations or Environmental Protection Policies must be used. If a word remains undefined it has its ordinary meaning.

2. Authorisation of the code

The Minister responsible for the EP Act, pursuant to section 549, approved the standard environmental conditions contained in this code on 4 July 2012. Approved codes are listed in Schedule 3 of the Environmental Protection Regulation 2008 (EP Reg).

3. Scope of the code

This code applies only to certain aspects of ERA 63 — Sewage treatment activities.

The aspects of ERA 63 — Sewage treatment activities, that this code applies to is threshold 3 which is outlined below (for the full definition see Schedule 2 of the EP Reg).

ERA 63	Sewage treatment activities
Threshold 3	Operating a sewage pumping station with a total design capacity of more than 40kL in an hour, if the operation of the pumping station is not an essential part of the operation of a sewage treatment works to which ERA 63(1) or ERA 63(2) applies.

The operation of the ERA under this code must comply with all of the criteria set out in the following table at all times:

Criteria
Operating a sewage pumping station with a total design capacity of more than 40kL in an hour.

Where the operation of a particular ERA will not meet the above criteria, this code does not apply and a development approval is required to undertake the ERA.

4. When the code takes effect

This code applies immediately to registered operators who commenced activities on or after 9 November 2012.

Registered operators who were carrying out ERA 63(3) under a development approval issued before 9 November 2012, and who continue to carry out the activity have a 12 month transitional period in which to ensure their operations comply with the code. The code becomes effective for those registered operators on 9 November 2013.

5. Enforcement of the code

This code contains standard environmental conditions for carrying out the activities that meet the criteria set out in Section 3 of this code. Failure to comply with the criteria or conditions of the code is an offence and penalties apply. A development approval is required where an ERA 63(3) activity is not self-assessable under this code—It is an offence to undertake an activity without a development approval and penalties apply. Enforcement Guidelines published by the administering authority are available at www.ehp.qld.gov.au.

6. Other requirements

In addition to the conditions in this code, the registered operator carrying out ERA 63(3) must comply with all other relevant Commonwealth, State or local government legislative requirements. Without limiting the requirements that may apply, some additional obligations under the EP Act include:

- holding a **registration certificate** issued by the **administering authority** under section 73F; and
- taking all reasonable and practicable measures to prevent or minimise environmental harm. This is referred to as the 'general environmental duty'.

7. Amendment of this code

This code may be amended from time to time by gazette notice advising that the Minister has approved new conditions. Proposed changes to the standard environmental conditions, other than changes to correct a clerical error, will be made in consultation with stakeholders. Where there is a significant change to the code, the administering authority will notify registered operators affected by the change.

8. Further information or enquiries

Further information is available at www.ehp.qld.gov.au or by contacting the relevant regional office of the administering authority.

General enquiries or suggestions for future amendments to the code should be directed to Permit and Licence Management, Implementation Support Unit on telephone 13 QGOV (13 74 68) or by email at palm@ehp.qld.gov.au.

9. Standard environmental conditions

Standard environmental condition	Advice
Condition 1 – Flooding The operator must ensure that new pumping stations are constructed to ensure that essential operational components of the pumping station are not impacted in a way which results in a failure of these components by flooding below the one in 100 year flood level. The operator must, when considering major upgrades of existing pumping stations, undertake a review of the construction of the essential operational components of the pumping station that may fail as a result of flooding below the one in 100 year flood level. The operator must consider moving these components above the one in 100 year flood level.	When constructing new pumping stations in a flood prone area, the switch gear should be located above the one in 100 year flood level, as identified at the time of the construction. When upgrading existing pumping stations in a flood prone area, the operator should consider relocating any switch gear that is below the one in 100 year flood level, as identified at the time of the upgrade. Any upgrades should be included within the sewage overflow abatement plan as required by condition 7 of this approval.
Condition 2 – Flooding The operator must ensure that new pumping stations are constructed so that storm and flood waters can not enter the pump well. The operator must, when considering major upgrades of existing pumping stations, undertake a review of the construction and consider improvements to reduce the potential for storm and flood waters to enter the pump well.	When constructing new pumping stations openings to the well (such as maintenance holes) should not be lower than the one in 100 year flood level, as identified at the time of the construction. When upgrading existing pumping stations in a flood prone area, the operator should consider upgrades to restrict water from entering the well if located below the one in 100 year flood level, as identified at the time of the upgrade. Any upgrades should be included within the sewage overflow abatement plan as required by condition 7 of this approval.
Condition 3 – Maintenance of measures, plant and equipment The operator must: (a) maintain all measures, plant and equipment in an effective condition and keep records of the maintenance (b) operate such measures, plant and equipment in an effective manner.	

Standard environmental condition	Advice
Condition 4 – Integrated environmental management system For new pumping stations the operator must document and comply with an integrated environmental management system (IEMS) prior to the commencement of this activity. For existing pumping stations the operator must document and comply with an IEMS within 12 months of the date this approval takes effect. The IEMS must identify all causes of environmental harm including, but not limited to, the actual and potential release of any contaminants, the nature of the environmental harm and the actions that will be taken to prevent environmental harm being caused. The IEMS must achieve the following outcomes: (a) environmental aspects and potential impacts are identified (b) a contingency plan and emergency response plan are in place (c) a network plan of the sewage collection system including connected pumping stations and likely overflow points is maintained (d) control measures that minimise the potential for environmental harm are in place (e) organisational structures, accountability and responsibilities are recorded (f) effective, practical communication arrangements, including documentation of such (g) all contaminant releases, and an estimate of their impact on the receiving environment are recorded (h) staff are trained and aware of the requirements of this approval.	The IEMS is a commitment to complying with the approval. It is generally for the benefit of the operator in helping them to clarify and comply with the approval requirements. The IEMS may not necessarily be site specific. It should provide guiding principles to help plan ways to manage risks and minimise any potential environmental harm. For example, by identifying: • what contaminants could be released • where any contaminants released would go and their impact • that actions could be taken to contain any release • what precautions could be taken to prevent a release. This information can then be used to include procedures for prioritising responses to overflow events based on the risk to the receiving environment and the extent of the release. An IEMS may be used for a sewage network. However, any IEMS used for a network must be updated to reflect a new activity to which this approval applies. An IEMS may also be used to demonstrate compliance with the general environmental duty for other pumping stations which are not licensed but may still have the potential to cause environmental harm.

Standard environmental condition	Advice
Condition 5 – Contingency plan For new pumping stations the operator must document and comply with a contingency plan prior to the commencement of this activity. For existing pumping stations the operator must document and comply with a contingency plan within 24 months of the date this approval takes effect. The contingency plan must provide for: (a) standard connections for emergency by-pass pumping (b) standard connections for mobile generators, or a back-up power source that automatically starts in the event of power failure (c) stand-by pumping equipment and associated controls (d) identification of critical components and a system to ensure adequate and timely access to spare parts (e) access for maintenance and emergency activities (f) testing and validation of any relevant equipment used or related to the contingency plan as necessary.	The detail of the contingency plan should reflect the complexity and risk of the activity at the site specific location. Where an IEMS has been developed for a sewage network there may be a contingency plan applicable to many pumping stations within the network based on the level of risk posed by the pumping stations. In this instance the one contingency plan can be used but must be updated to reflect the addition of the new activity to which this approval applies. While this condition requires the contingency plan to include provision for certain requirements, these are not intended to be restrictive. Where these requirements can be met in an alternative way or might not be relevant to a site specific activity this should be clearly documented. If you are proposing alternative arrangements you should consult the administering authority.

Standard environmental condition	Advice
Condition 6 – Emergency response plan For new pumping stations the operator must document and comply with an emergency response plan prior to the commencement of this activity. For existing pumping stations the operator must document and comply with an emergency response plan within 24 months of the date this approval takes effect. The emergency response plan must provide for: (a) an implementation manual (b) staff training (c) identification of the part of the environment to which a sewage release may occur (for example, for water bodies, a description of where contaminants may enter the particular water body) (d) remediation and clean up of areas affected by sewage releases (e) receiving environment (surface waters/land) monitoring program for all notifiable releases to examine and assess environmental impacts (f) ongoing investigation and review to establish the cause of sewage releases, initiate corrective and/or preventative measures, and report on the effectiveness of such corrective and/or preventative measures.	The detail of the emergency response plan should reflect the complexity and risk of the activity at the site specific location. Where an IEMS has been developed for a sewage network there may be an emergency response plan applicable to many pumping stations within the network based on the level of risk posed by the pumping stations. In this instance the one emergency response plan can be used but must be updated to reflect the addition of the new activity to which this approval applies. While this condition requires the emergency response to include provision for certain requirements, these are not intended to be restrictive. Where these requirements can be met in an alternative way or might not be relevant to a site specific activity this should be clearly documented. If you are proposing alternative arrangements you should consult the administering authority. A receiving environment monitoring program must be sufficient to demonstrate the extent of the contamination and the time taken for the receiving environment to return to normal. For a release to waters, upstream and downstream monitoring may be required.
Condition 7 – Sewage overflow abatement plan For new pumping stations the operator must document and comply with a sewage overflow abatement plan within 12 months of the date this approval takes effect. For existing pumping stations the operator must document and comply with a sewage overflow abatement plan within 24 months of the date this approval takes effect. The sewage overflow abatement plan must consider the existing performance and trends, and the potential receiving environment of the pumping station. It must: (a) identify where the greatest risks of causing environmental harm are (b) identify and evaluate measures in place to reduce the incidence of overflows (c) develop a program of works with a timetable for implementation (d) assess performance and trends for any implemented works.	The detail of the sewage overflow abatement plan should reflect the complexity and risk of the activity at the site specific location. Where an IEMS has been developed for a sewage network there may be a sewage overflow abatement plan applicable to many pumping stations within the network based on the level of risk posed by the pumping stations. In this instance the one sewage overflow abatement plan can be used but must be updated to reflect the addition of the new activity to which this approval applies. Where flooding issues have been identified (as outlined in conditions 1 and 2), upgrades must be included within the sewage overflow abatement plan.

Standard environmental condition	Advice
Condition 8 – Records The operator must record, compile and keep all maintenance and monitoring results, plans and documents required by this approval and present this information to an authorised person or the administering authority when requested.	Records should verify the provision of training programs and schedules of routine inspections.
Condition 9 – Records All records required by this approval must be kept for five years.	
Condition 10 – Release to land and waters The operator must ensure that contaminants are not released to land or waters (including the bed and banks of any waters) as a result of the activity .	The administering authority acknowledges that a typical design for sewerage system capacity is three to five times average daily dry weather flow and that overflows may occur in wet weather when the design capacity of the sewerage system is exceeded.
Condition 11 – Notifiable release The operator must notify the administering authority via the 24 hour Pollution Hotline or the district office no later than three hours after becoming aware of a sewage release that: (a) poses a threat to public health (for example, contamination of waters with primary recreation values); (b) results in any observable environmental impact (for example, fish kill, distress to wildlife, marine plants or other aquatic life); (c) discharges to, or is likely to impact, a sensitive environment (for example, Ramsar wetland, marine park, or area designated as a conservation zone under a relevant planning scheme); or (d) is 10 000 L or more during dry weather.	The administering authority may need to respond quickly to some spills with the potential to cause environmental harm. Priority should be given to notifying the administering authority of these spills immediately after they occur. The 24 hour Pollution Hotline number is 1300 130 372. Where an event has occurred that causes or threatens serious or material environmental harm the duty to notify environmental harm requirements as per ss. 320-320G of the EP Act will also apply. Where reporting under ss. 320-320G is provided and satisfies the notification conditions of this approval, it is not necessary to report again against this approval. The administering authority's district office is the office responsible for the local government area where the release has occurred. Where the volume of the release is unknown an estimate is to be provided.

Standard environmental condition	Advice
Condition 12 – Notifiable release Within 24 hours after becoming aware of a notifiable release in accordance with condition 11, email or written notification of the release must be submitted to the administering authority outlining the event, its nature and the circumstances in which it happened.	Where there has been a threat to public health this notification should include evidence that owners or occupiers of the affected land have been notified. This can be by public notification.
Condition 13 – Notifiable release A final report must be provided to the administering authority within 14 business days of the conclusion of the spill response and remediation of a notifiable release, but no later than 20 business days after the commencement of the release.	Any additional information such as sampling results maybe added to the report in the form of attachments at any time. If the commencement of the release is unknown, an estimation of the time and date of the commencement of the release is to be provided.
Condition 14 – General release reporting All releases must be reported to the administering authority in the form of an annual report by 30 September covering the period 1 July – 30 June of the previous year.	All discharges include notifiable releases and all other releases from the pumping station. These should be clearly identified in the report. Where the activity is part of a sewage network, annual reporting for the network may be provided to satisfy this condition.
Condition 15 – General release reporting Annual reports outlining all releases in accordance with condition 14 must clearly identify: (a) the waste water treatment plant which the pumping station is connected to (b) the number of releases (c) the volume (or estimate of the volume) of each release (d) the location of each release by suburb post code (e) if the release was reported under ss. 320-320G of the <i>Environmental Protection Act 1994</i>.	Reporting should be provided in a way in which the data is easy to handle and review. It would be beneficial to also include the reason for the release when reporting. An example would be in an excel spreadsheet.
Condition 16 – Monitoring The operator must ensure that all monitoring, assessments and reports required by this approval are conducted by a person with appropriate experience and/or qualifications. Water monitoring must be undertaken in accordance with the administering authority's Water Quality Sampling Manual and other relevant standards.	

Standard environmental condition	Advice
Condition 17 – Trained/experienced operator(s) The operator must ensure that the daily operation and maintenance of the pumping station is carried out by a person with experience and/or qualifications appropriate to ensuring the effective operation of the pumping station.	
Condition 18 – Equipment calibration The operator must ensure that all instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval are calibrated, operated and maintained in accordance with the manufacturer's specifications.	
Condition 19 – Complaint response The operator must record the following details for all complaints received and this information must be provided to an authorised person or the administering authority on request: (a) time, date, name and contact details of the complainant (b) reasons for the complaint (c) any investigation undertaken (d) conclusions formed (e) any actions taken.	If the complainant does not wish to have their name and contact details recorded, note this as an anonymous complaint.
Condition 20 – Air nuisance The operator must ensure that the release of odours or airborne contaminants resulting from the activity do not cause environmental nuisance at a nuisance sensitive place or commercial place .	
Condition 21 – Noise nuisance The operator must ensure that noise resulting from the activity does not cause environmental nuisance at a nuisance sensitive place or commercial place .	

Standard environmental condition	Advice
Condition 22 – Noise monitoring When requested by the administering authority, the operator must undertake noise monitoring to investigate any complaint of noise nuisance. The monitoring must be undertaken and results must be notified to the administering authority in the format and within the time specified by the administering authority. Monitoring must include: (a) measurement of L_{A90}, adj, 15 mins (b) measurement of L_{A10}, adj, 10 mins (c) measurement of L_{Aeq}, adj, 10 mins (d) the level and frequency of occurrence of impulsive or tonal noise (e) atmospheric conditions including wind speed and direction (f) effects due to extraneous factors such as traffic noise (g) the location, date and time of monitoring.	
Condition 23 – Noise monitoring The operator must ensure that the method of measurement and reporting of noise levels complies with the latest edition of the administering authority's Noise Measurement Manual.	The administering authority's Noise Measurement Manual is available at www.ehp.qld.gov.au.
Condition 24 – Responding to potential releases The operator must ensure that there are appropriate physical systems in place to anticipate a potential release.	This may include an alarm system using one or more of the following; pump-failure alarms or level alarms for sewage contained in the pump well.
Condition 25 – Responding to potential releases Any system developed in line with condition 24 must be able to operate for a sufficient time to allow for notification of the potential release to the operator and an appropriate response.	This may include having back up power available or providing additional detention capacity.
Condition 26 – Responding to potential releases Any identification of a potential release must be responded to by the operator.	Response times should consider the potential for environmental harm based on site specific details and the potential volume of release from the pumping station.

10. Definitions

Words and phrases used throughout this guideline are defined below. Where a definition for a term used in this guideline is sought and the term is not defined the administering authority may be contacted to provide clarification.

One in 100 year flood level means the level reached by a flood event with an annual recurrence interval of one in 100 years.

Activity means ERA 63 (3).

Administering authority means the Department of Environment and Heritage Protection, or the department responsible for administering the *Environmental Protection Act 1994*.

Authorised person means a person authorised under the *Environmental Protection Act 1994*.

Approval means this code of environmental compliance.

Commercial place means a place used as an office or for business or commercial purposes.

Environmental harm (as defined in Section 14 of the *Environmental Protection Act 1994*) is any adverse effect, or potential adverse effect (whether temporary or permanent and of whatever magnitude, duration or frequency) on an environmental value, and includes **environmental nuisance**. **Environmental harm** may be caused by an activity:

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

Environmental nuisance (as defined in Section 15 of the *Environmental Protection Act 1994*) means—‘unreasonable interference or likely interference with an environmental value’ caused by:

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

Existing pumping stations means pumping stations that were constructed before 1 January 2009.

L_{A 90}, adj, 15 mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 90 per cent of any 15 minute measurement period, using fast response.

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 per cent of any 10 minute measurement period, using fast response.

L_{A eq} means the equivalent continuous A-weighted sound pressure level of the residual noise determined over a specified time interval.

Major upgrades means upgrades which will involve expenditure in excess of \$150 000. This figure is relevant as of 1 January 2012 and will increase by three per cent as of 1 January hereafter.

New pumping stations means pumping stations that were constructed on or after 1 January 2009.

Operation means the development approved under this **approval**.

Operator means any of the following:

- a) a person having the benefit of this **approval**

- b) the holder of a registration certificate for this **approval**
- c) anyone undertaking the **activity** to which this **approval** relates

Note: it is an offence to carry out work under an **approval** without a relevant registration certificate.

Sensitive place means:

- a) a dwelling (including residential allotment, mobile home or caravan park, residential marina or other residential premises, motel, hotel or hostel)
- b) a library, childcare centre, kindergarten, school, university or other educational institution
- c) a medical centre, surgery or hospital
- d) a protected area
- e) 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.

Waters means all Queensland waters and includes rivers, streams, lakes, lagoons, ponds, swamps, wetlands, surface waters, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), any ground water and any part thereof.