Permit

Environmental Protection Act 1994

Environmental authority EPPR00791913

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

Environmental authority number: EPPR00791913

Environmental authority takes effect on signing by the delegate.

The anniversary date of this environmental authority is **18 December** each year.

Environmental authority holder

Name	Registered address
Isaac Regional Council	1 Batchelor Parade MORANBAH QLD 4744

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
Prescribed ERA, ERA 16 - Extraction and Screening, 2: Extracting, other than by dredging, in a year, the following quantity of material, (a) 5,000t to 100,000t	Lot 3/HLN29
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 98/SP159584
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (e) more than 10,000 but not more than 50,000EP	Lot 1/GV282
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (e) more than 10,000 but not more than 50,000EP	Lot 44/GV203
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (b) more than 2000t but not more than 5000t	Lot 2/SP231842
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the	Lot 98/SP159584

ABN 46 640 294 485

Queensland Government

Environmentally relevant activities	Locations
following quantity of waste mentioned in subsection (1) (b), (b) more than 2000t but not more than 5000t	
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (b) more than 2000t but not more than 5000t	Lot 10/HLN205
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (d) more than 4000 but not more than 10,000EP	Lot 13/CNS116
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (c) more than 1500 but not more than 4000EP	Lot 1/CP884891
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (c) more than 1500 but not more than 4000EP	Lot 186/CLM370
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (c) more than 1500 but not more than 4000EP	Lot 5/CP884891
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no release works, with a total daily peak design capacity of, (c) more than 1500 but not more than 4000EP	Lot 23/CNS211
Prescribed ERA, ERA 56 - Regulated Waste Storage, Receiving and storing regulated waste	Lot 2/SP231842
Prescribed ERA, ERA 56 - Regulated Waste Storage, Receiving and storing regulated waste	Lot 2/GV812139
Prescribed ERA, ERA 56 - Regulated Waste Storage, Receiving and storing regulated waste	Lot 228/CLM63
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 903/SP305818
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 2/GV812139
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 9/SP125734
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 36/GV267

Environmentally relevant activities	Locations
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 19/SP158749
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 100/SP228153
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Adjacent to Lot 53/SP244521
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 900/SP256570
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 7/CP895140
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 27/SP101157
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 1/CP902901
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 600/SP184932
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 133/SP218567
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Adjacent to Lot 1/SP125155
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 144/CLM498
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 143/CLM544
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 20/CNS322
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 4/SP193681
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 26/SP257930

Environmentally relevant activities	Locations
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 901/SP235538
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 11/CNS115
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 17/HLN230
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 11/SP208044
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 4/SP253803
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 2/AP10097
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 25/CNS239
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 24/CNS240
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 26/CNS212
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 1/M112139
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 1/SP181424
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Adjacent to Lot 159/N1101
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Lot 35/SP178358
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Adjacent to Lot 113/N1101
Prescribed ERA, ERA 63 - Sewage Treatment, 2: Operating a sewage pumping station mentioned in subsection (1)(b)	Adjacent to Lot 36/WHS349

Environmentally relevant activities	Locations
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (a) 50t to 2000t	Lot 11/SP301956
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (a) 50t to 2000t	Lot 49/CNS281
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (a) 50t to 2000t	Lot 1/SP201845
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (a) 50t to 2000t	Lot 66/MUR40149
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (a) 50t to 2000t	Lot 80/MC682
Prescribed ERA, ERA 60 - Waste disposal, 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1) (b), (a) 50t to 2000t	Lot 68/CP900902
Prescribed ERA, ERA 64 - Water treatment, 3: Treating 10ML or more raw water in a day	Lot 2/GV812139

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

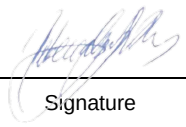
b) if the authority states a day or an event for it to take effect – on the stated day or when the stated event happens; or

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

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

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

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

	29/10/2024
Signature	Date

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

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

Obligations under the *Environmental Protection Act 1994*

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

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

Other permits required

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

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

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

Development Approval

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

Contents

Part	Environmentally relevant activities	Locations	
Part 1 – Standard conditions for sewage pump stations	ERA 63 Sewage treatment Threshold 2 operating a sewage pumping station mentioned in subsection (1)(b) >40KL/hour	SPMBH01	Adjacent to Lot 53/SP244521
		SPMBH02	Lot 9/SP125734 - Forrest Drive
		SPMBH03	Lot 36/GV267 - Jackson Avenue
		SPMBH04	Lot 900/SP256570 - Utah Drive
		SPMBH05	Lot 7/CP895140 - Colliery Street
		SPMBH06	Lot 2/GV812139 - Goonyella Road
		SPMBH07	Lot 19/SP158749 - Warne Court
		SPMBH08	Lot 27/SP101157 - Grosvenor Drive
		SPMBH09	Lot 903/SP305818 - Cunningham Way
		SPMBH10	Lot 1/CP902901 - Leagues Club Access Road
		SPMBH11	Lot 600/SP184932 - Nonette Street
		SPMBH12	Lot 133/SP218567 - Langford Court
		SPMBH13	Adjacent to Lot 1/SP125155
		SPMBH14	Lot 100/SP228153 - Pumpstation Driveway (Thorpe St Estate).
		SPCLM01	Lot 144/CLM498 - Cheeseborough Road
		SPCLM02	Lot 143/CLM544 - Rubyvale Road
		SPDYS01	Lot 20/CNS322 - Queen Elisabeth Drive - Major SPS located at CIVEO camp
		SPDYS02	Lot 4/SP193681 - Edgerley Street
		SPDYS03	Lot 26/SP257930 - Isaac Court
		SPDYS04	Lot 901/SP235538 - Powell Street
		SPDYS05	Lot 11/CNS115 - Fisher Street, Dysart
		SPGLN01	Lot 17/HLN230 - Gilbert Avenue, Golf Club
		SPGLN02	Lot 11/SP208044 - Gilbert Avenue
		SPGLN03	Lot 4/SP253803 - Perry Drive
		SPGLN04	Lot 2/AP10097 - Usher Terrace
		SPMMT01	Lot 25/CNS239 - Centenary Drive North

		SPMMT02	Lot 24/CNS240 - Centenary Drive South
		SPMMT03	Lot 26/CNS212 - Centenary Drive North
		SPMMT04	Lot 1/M112139 - Alfred Quinn Drive
		SPNBO01	Lot 1/SP181424 - Cemetery Road
		SPNBO02	Adjacent to Lot 159/N1101
		SPNBO03	Lot 35/SP178358 - Airstrip Road
		SPNBO04	Adjacent to Lot 113/N1101
		SPNBO05	Adjacent to Lot 36/WHS349
Part 2 – General conditions for sewage/ extraction/ water treatment	16 Extractive and screening activities Threshold 2(a) extracting, other than by dredging, in a year, 5000-100,000t of material	Plum Tree Pit, Turwalla Rd Lot 3/HLN29	
	ERA 64 Water treatment, Threshold 3 treating 10ML or more raw water in a day	145 Goonyella Rd Moranbah; Lot 2/GV321, and Lot 2/GV812139	
	ERA 63 Sewage Treatment, Threshold 1(b)(i) 100-1500EP IT or IR	Peak Downs Highway, Nebo; Lot 98/ SP159584	
	ERA 63 Sewage treatment, Threshold 1(c) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 1500-4000EP	Cheeseborough Rd Clermont; Reserve 165 Lot 186/CLM370 106 Kurrajong Street Glenden; Lot 1/CP884891, Lot 5/CP884891 Fairway Drive Middlemount; Lot 23/CNS211	
	ERA 63 Sewage treatment, Threshold 1(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 4000-10,000EP	Garnham Drive Dysart; Lot 13/CNS116	
	ERA 63 Sewage treatment Threshold 1(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 10,000-50,000EP	Forrest Drive Moranbah; Lot 1/GV282 and Lot 44/GV203	
Part 3 – Specific conditions for water treatment	ERA 64 Water treatment, Threshold 3 treating 10ML or more raw water in a day	145 Goonyella Rd Moranbah; Lot 2/GV321, and Lot 2/GV812139	
Part 4 – Specific conditions for extraction	16 Extractive and screening activities Threshold 2(b) extracting, other than by dredging, in a year, 5000-100,000t of material	Plum Tree Pit, Turwalla Rd Lot 3/HLN29	
Part 5 – General conditions for sewage treatment	ERA 63 Sewage Treatment, Threshold 1(b)(i) 100-1500EP IT or IR	Peak Downs Highway, Nebo; Lot 98/SP159584	
	ERA 63 Sewage treatment, Threshold 1(c) operating sewage treatment works,	Cheeseborough Rd Clermont; Reserve 165 Lot 186/CLM370	

	other than no-release works, with a total daily peak design capacity of 1500-4000EP	106 Kurrajong Street Glenden; Lot 1/CP884891, Lot 5/CP884891 Fairway Drive Middlemount; Lot 23/CNS211
	ERA 63 Sewage treatment, Threshold 1(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 4000-10,000EP	Garnham Drive Dysart; Lot 13/CNS116
	ERA 63 Sewage treatment Threshold 1(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 10,000-50,000EP	Forrest Drive Moranbah; Lot 1/GV282 and Lot 44/GV203
Part 6 – Site specific conditions for sewage treatment – Nebo	ERA 63 Sewage Treatment, Threshold 1(b)(i) 100-1500EP IT or IR	Peak Downs Highway, Nebo; Lot 98/WHS327
Part 7 – Site specific conditions for sewage treatment – Moranbah	ERA 63 Sewage treatment Threshold 1(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 10,000-50,000EP	Forrest Drive Moranbah; Lot 1/GV282 and Lot 44/GV203
Definitions for Parts 1-7		
Part 8 – Waste, Former NM0140	ERA 60 Waste disposal, Threshold 2(b) operating a facility for disposing of, in a year, 2000-5000t of waste mentioned in subsection (1)(b)	Clermont Waste Management Facility: 38 Turama Rd, Clermont; Lot 2/SP231842
	ERA 56 Regulated waste storage	Clermont Waste Management Facility: 38 Turama Rd, Clermont; Lot 2/SP231842 Moranbah Works depot, Grosvenor Goonyella Rd Moranbah; Reserve 7 Lot 2/GV321 Spoonbill Road, Clermont; Lot 228/CLM 63
Part 9 – Waste, Former NM0105	ERA 60 Waste disposal, Threshold 2(b) operating a facility for disposing of, in a year, 2000-5000t of waste mentioned in subsection (1)(b)	Nebo Waste Management Facility; 17914 Peak Downs Highway, Nebo; Lot 98/SP159584 Glenden Waste Management Facility: 412 Ewan Drive, Glenden; Lot 10/HLN205
Part 10 – Waste, Former NM0139	ERA 60 Waste disposal, Threshold 2(a) operating a facility for disposing of, in a year, 50-2000t of waste mentioned in subsection (1)(b)	Carmila Waste Management Facility: 153 Carmila West Road, Carmila; Lot 80/MC682 Middlemount Waste Management Facility: 60 Nolan Drive, Middlemount; Lot 49/CNS281 Dysart Waste Management Facility: 7145 Dysart-Clermont Road, Dysart; Lot 1/SP201845 St Lawrence Waste Management Facility: 402 St Lawrence Connection Road, St Lawrence; Lot 66/MUR40149 Greenhill Waste Management Facility: 1026 Greenhill Road, Ilbilbie; Lot 68/MC683

Conditions of environmental authority

Part 1 – Standard conditions for sewage pump stations

Environmentally relevant activities	Locations	
ERA 63 Sewage treatment Threshold 2 operating a sewage pumping station mentioned in subsection (1)(b)	SPMBH01	Adjacent to 53SP244521
	SPMBH02	9SP125734 - Forrest Drive
	SPMBH03	36GV267 - Jackson Avenue
	SPMBH04	900SP256570 - Utah Drive
	SPMBH05	7CP895140 - Colliery Street
	SPMBH06	2GV812139 - Goonyella Road
	SPMBH07	19SP158749 - Warne Court
	SPMBH08	27SP101157 - Grosvenor Drive
	SPMBH09	903SP305818 - Cunningham Way
	SPMBH10	1CP902901 - Leagues Club Access Road
	SPMBH11	600SP184932 - Nonette Street
	SPMBH12	133SP218567 - Langford Court
	SPMBH13	Adjacent to 1/SP125155
	SPMBH14	100SP228153 - Pumpstation Driveway (Thorpe St Estate).
	SPCLM01	144CLM498 - Cheeseborough Road
	SPCLM02	143CLM544 - Rubyvale Road
	SPDYS01	20CNS322 - Queen Elisabeth Drive - Major SPS located at CIVEO camp
	SPDYS02	4SP193681 - Edgerley Street
	SPDYS03	26SP257930 - Isaac Court
	SPDYS04	901SP235538 - Powell Street
	SPDYS05	11CNS115 - Fisher Street, Dysart
	SPGLN01	17HLN230 - Gilbert Avenue, Golf Club
	SPGLN02	11SP208044 - Gilbert Avenue
	SPGLN03	4SP253803 - Perry Drive
	SPGLN04	2AP10097 - Usher Terrace
	SPMMT01	25CNS239 - Centenary Drive North
	SPMMT02	24CNS240 - Centenary Drive South

SPMMT03	26CNS212 - Centenary Drive North
SPMMT04	1M112139 - Alfred Quinn Drive
SPNBO01	1SP181424 - Cemetery Road
SPNBO02	Adjacent to 159/N1101
SPNBO03	35SP178358 - Airstrip Road
SPNBO04	Adjacent to 113/N1101
SPNBO05	Adjacent to 36/WHS349

With the exception of any variations, the conditions of approval for the environmentally relevant activity conducted at the location described above must be conducted in accordance with the standard conditions contained within the attached document(s) entitled:

- *Code of environmental compliance for certain aspects of sewage treatment activities (ERA 63) (ESR/2015/1669) Version 1.*

Variations to the standard conditions include:

Condition 10 of the standard conditions is replaced by:	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 unless all reasonable and practicable measures have been taken to prevent the release.

Part 2 – General conditions for sewage/extraction/water treatment

Environmentally relevant activities	Locations
16 Extractive and screening activities Threshold 2(a) extracting, other than by dredging, in a year, 5000-100,000t of material	Plum Tree Pit, Turwalla Rd Lot 3 Plan HLN29
ERA 64 Water treatment, Threshold 3 treating 10ML or more raw water in a day	145 Goonyella Rd Moranbah; Lot 2 on Plan GV321, and Lot 2 on Plan GV812139
ERA 63 Sewage Treatment, Threshold 1(b)(i) 100-1500EP IT or IR	Peak Downs Highway, Nebo; Lot 98 Plan SP159584
ERA 63 Sewage treatment, Threshold 1(c) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 1500-4000EP	Cheeseborough Rd Clermont; Reserve 165 Lot 186 Plan CLM370 106 Kurrajong Street Glenden; Lot 1 Plan CP884891, Lot 5 Plan CP884891 Fairway Drive Middlemount; Lot 23 Plan CNS211
ERA 63 Sewage treatment, Threshold 1(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 4000-10,000EP	Garnham Drive Dysart; Lot 13 Plan CNS116
ERA 63 Sewage treatment Threshold 1(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 10,000-50,000EP	Forrest Drive Moranbah; Lot 1 Plan GV282 and Lot 44 Plan GV203

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

Agency Interest: General	
Condition number	**Condition**
2-G1	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the **activities**.
2-G2	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. **Records** must be kept including full details of the breach and any subsequent actions taken.
2-G3	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 *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.
2-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.
2-G5	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.
2-G6	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, Total Residual Chlorine, Total Suspended Solids, Ammonia, Dissolved Oxygen, and Electrical Conductivity where specified by the relevant monitoring condition.
2-G7	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 within 10 business days to the **administering authority** upon its request.
2-G8	An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.
2-G9	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.
2-G10	Excepting combustion of landfill gas, waste must not be burnt.
2-G11	All waste generated in carrying out the **activity** must be lawfully disposed of, reused, recycled or removed to a facility that can lawfully accept the waste.
2-G12	**You** must record the following details for all environmental complaints received: 1. date and time complaint was received 2. name and contact details of the complainant when provided and authorised by the complainant 3. nature of the complaint 4. investigations undertaken 5. conclusions formed 6. actions taken.

Agency Interest: Acoustic	
Condition number	**Condition**
2-N1	Other than as permitted within this environmental authority, noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place.**
Agency Interest: Air	
Condition number	**Condition**
2-A1	Other than as permitted within this **environmental authority**, odours or airborne contaminants must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Agency Interest: Land	
Condition number	**Condition**
2-L1	Other than as permitted within this environmental authority, contaminants must not be released to **land.**
Agency Interest: Water	
Condition number	**Condition**
2-WT1	Other than as permitted within this environmental authority, contaminants must not be released to any **waters**.
2-WT2	Permitted releases 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.

Part 3 – Specific conditions for water treatment

Environmentally relevant activity	Location
ERA 64 Water treatment, Threshold 3 treating 10ML or more raw water in a day	145 Goonyella Rd Moranbah; Lot 2 on Plan GV321, and Lot 2 on Plan GV812139

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

Agency Interest: Land	
Condition number	**Condition**
3-L1	The environmentally relevant **activity** must be carried out by such practicable means necessary to prevent or minimise the release or likelihood of release of contaminants to land.
Agency Interest: Water	
Condition number	**Condition**
3-WT1	The environmentally relevant **activity** must be carried out by such practicable means necessary to prevent or minimise the release or likelihood of release of contaminants to water.
3-WT2	All sludge drying beds must be bunded.

Part 4 – Specific conditions for extraction

Environmentally relevant activity	Location
16 Extractive and screening activities Threshold 2(a) extracting, other than by dredging, in a year, 5000-100,000t of material	Plum Tree Pit, Turwalla Rd Lot 3 Plan HLN29

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

Agency Interest: Land	
Condition number	**Condition**
4-L1	**Land** that has been disturbed for **activities** conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces; 2. potential for erosion is minimised; 3. the quality of water released from the site, including seepage, does not cause environmental harm; 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 environmental harm; 6. the final landform is stable and protects public safety.
4-L2	Rehabilitation of **disturbed areas** required under condition 4-L1 must take place progressively as works are staged and new extraction areas are commenced.
Agency Interest: Acoustic	
Condition number	**Condition**
4-N1	**Blasting** or the generation of **substantial low frequency noise** is not permitted.
Agency Interest: Water	
Condition number	**Condition**
4-WT1	Stormwater runoff from **disturbed areas** of the site, generated by (up to and including) a **24 hour storm event with an average recurrence interval of 1 in 5 years** must be retained on site or managed to remove contaminants prior to release.

Part 5 – General conditions for sewage treatment

Environmentally relevant activities	Locations
ERA 63 Sewage Treatment, Threshold 1(b)(i) 100-1500EP IT or IR	Peak Downs Highway, Nebo; Lot 98 Plan SP159584
ERA 63 Sewage treatment, Threshold 1(c) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 1500-4000EP	Cheeseborough Rd Clermont; Reserve 165 Lot 186 Plan CLM370 106 Kurrajong Street Glenden; Lot 1 Plan CP884891, Lot 5 Plan CP884891 Fairway Drive Middlemount; Lot 23 Plan CNS211
ERA 63 Sewage treatment, Threshold 1(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 4000-10,000EP	Garnham Drive Dysart; Lot 13 Plan CNS116
ERA 63 Sewage treatment Threshold 1(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 10,000-50,000EP	Forrest Drive Moranbah; Lot 1 Plan GV282 and Lot 44 Plan GV203

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

Agency Interest: General	
Condition number	**Condition**
5-G1	**Activities** conducted under this environmental authority must not be conducted contrary to any of the following limitations: a) The wet weather storage at the Glenden Sewage Treatment Plant located at Lot 5 Plan CP884891 must be designed to contain 28 **days** expected maximum effluent flow.
5-G2	A **receiving environment monitoring program** must be designed and implemented by an **appropriately qualified person(s)** to monitor the effects of the **activity** on land.
5-G3	In regards to land, the **receiving environment monitoring program** required by condition 5-G2 must include at least the following: 1. An annual soil survey must be undertaken to ensure that the capacity of the land to assimilate nitrogen, phosphorus, salts and organic matter has not been exceeded. This must include annual soil monitoring of the parameters specified *in Table 5.1 – Soil Quality Characteristics*. 2. Soil sampling must be undertaken at representative locations within the land application area by an **appropriately qualified person**. 3. Observations must be recorded at the time of sampling with respect to the following considerations: a. Soil moisture content

<table>
<tr><td></td><td>
b. Soil texture
c. Plant cover and general health
d. Indicators of surface runoff occurring within the disposal area,
e. Evidence of surface ponding of water
f. Evidence of declining soil quality through subsidence, salinity or soil loss
g. General matters relating to the health and operation of the irrigation area

Table 5.1 – Soil Monitoring Quality Characteristics
<table>
<tr><th>Quality characteristics</th><th>Units</th></tr>
<tr><td>pH</td><td>pH units</td></tr>
<tr><td>Electrical Conductivity</td><td>µs/cm</td></tr>
<tr><td>Available Phosphorus</td><td>mg/kg</td></tr>
<tr><td>Available Potassium</td><td>mg/kg</td></tr>
<tr><td>Total Nitrogen</td><td>mg/kg</td></tr>
<tr><td>Total cations (inc. Na, Ca, Mg, K)</td><td>mg/kg</td></tr>
<tr><td>Cation exchange</td><td>capacity meq/100g</td></tr>
<tr><td>Exchangeable sodium</td><td>percentage meq/100g</td></tr>
<tr><td>Chloride</td><td>mg/kg</td></tr>
<tr><td>Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Zn)</td><td>mg/kg</td></tr>
<tr><td>Organic carbon</td><td>%</td></tr>
</table>
</td></tr>
<tr><td>5-G8</td><td>
In regards to the receiving environment monitoring program required by condition 5-G2 for monitoring the effects of the activity on land, a report must be submitted annually to the administering authority, consisting of an analysis and interpretation of monitoring results by an appropriately qualified person, containing at least the following:
1. The effluent irrigation locations for all irrigation that was undertaken during the investigation period, identified on a scaled map; and
2. The monitoring locations for all monitoring undertaken during the investigation period, identified on a scaled map, with a justification for the selection of the monitoring locations and the number of monitoring locations chosen; and
3. Reference to the monitoring and quality assurance/quality control procedures followed for all monitoring undertaken; and
4. A determination of whether irrigation of effluent to land has impacted on any environmental values of the receiving environment, and the extent to which they have impacted on the environmental values during the investigation period;
5. A comparison of the quality of the current receiving environment to its historical quality based on past REMP results or other available monitoring studies, with regard to whether the releases from the activity are adversely impacting environmental values in the long term; and
6. Recommendations for:
a. whether further investigation is required to determine the extent of impacts on environmental values from the releases; and
b. whether any changes to REMP for future investigations are required; and
c. whether any changes to how the irrigation is carried out to prevent or minimise impacts on environmental values from the releases are required, and what those changes should be.
</td></tr>
</table>

<table>
<tr><th colspan="2">Agency Interest: Water</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>5-WT1</td><td>All sludge drying beds must be bunded.</td></tr>
<tr><th colspan="2">Agency Interest: Land</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>5-L1</td><td>The only contaminants to be released to land are treated sewage effluent in accordance with Table 5.2 - Treated effluent release limits to irrigation area and the associated requirements.

Table 5.2 - Treated effluent release limits to irrigation area
<table>
<tr><th>Water Quality Parameters</th><th>Minimum</th><th>Yearly maximum mean</th><th>Maximum</th><th>Frequency of Monitoring</th></tr>
<tr><td>Residual Chlorine (mg/L)</td><td>-</td><td>-</td><td>3.0</td><td>Daily</td></tr>
<tr><td>pH (pH units)</td><td>6.0</td><td>-</td><td>8.5</td><td>Daily</td></tr>
<tr><td>E.Coli (CFU/100mL)</td><td>-</td><td>-</td><td>10</td><td>Weekly</td></tr>
<tr><td>Total Nitrogen (mg/L)</td><td>-</td><td>-</td><td>30</td><td>Monthly</td></tr>
<tr><td>Total Phosphorous (mg/L)</td><td>-</td><td>-</td><td>15</td><td>Monthly</td></tr>
<tr><td>Electrical conductivity (µS/cm)</td><td>-</td><td>1600</td><td>-</td><td>Monthly</td></tr>
</table>
Associated requirements
1. The daily quantity of effluent released must be determined or estimated by an appropriate method.
2. The defined contaminant release areas are landscaped areas of the approved place and public open space maintained by Isaac Regional Council.
3. Monitoring must be in accordance with the administering authority's Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
4. Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency (e.g. if TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release).
5. Monitoring may be undertaken by in situ testing for the following water quality parameters: pH, Residual Chlorine and Electrical Conductivity.</td></tr>
<tr><td>5-L2</td><td>You must develop and implement an Irrigation Management Plan which details how the effluent irrigation process will be effectively and appropriately managed so as to ensure that the release of effluent to land is carried out in an environmentally sustainable manner.</td></tr>
<tr><td>5-L3</td><td>Irrigation of treated sewage effluent must be undertaken in accordance with the Irrigation Management Plan, and:
1. Must not exceed 5mm/day at any location;
2. The average daily volume of treated effluent to be irrigated must not exceed 2.8mm/day calculated over an annual basis;</td></tr>
</table>

	3. The following irrigation horizontal separation distances must be maintained: a. 30m must be left between the effluent disposal area and any permanent/intermittent watercourses on the site; b. 2m must be left between the effluent disposal area and the property **boundary**; and c. 5m must be left between the effluent disposal area and a sensitive receptor.
5-L4	Treated effluent released to land must be done in accordance with documentation that ensures: a) drainage to **groundwater** and subsurface flows of contaminants to surface **waters** are prevented b) surface pondage and run-off of effluent is prevented c) degradation of soil structure is minimised d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised e) spray drift or overspray does not carry beyond effluent disposal areas f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors h) release of treated effluent to land will not result in adverse public health issues.
5-L5	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.
5-L6	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 6 – Site specific conditions for sewage treatment – Nebo

Environmentally relevant activity	Location
ERA 63 Sewage Treatment, Threshold 1(b)(i) 100-1500EP IT or IR	Peak Downs Highway, Nebo; Lot 98 Plan WHS327

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

Agency Interest: General	
Condition number	**Condition**
6-G1	**Activities** conducted under this environmental authority must not be conducted contrary to any of the following limitations: a) Inflows must not exceed the peak design capacity of 373,000 L/day on any **day**.
Agency Interest: Acoustic	
Condition number	**Condition**
6-N1	Noise from the **activity** must not include **substantial low frequency noise** components and must not exceed the levels identified in *Table 6.1 – Noise limits* and the associated requirements at any nuisance **sensitive place** or **commercial place**.

Table 6.1 – Noise limits

Noise level dB(A) measured as	Monday to Saturday			Sundays and public holidays		
	7am-6pm	6pm-10pm	10pm-7am	9am-6pm	6pm-10pm	10pm-9am
	Noise measured at a Noise sensitive place					
$L_{A10, adj, 10 mins}$	55	50	40	55	50	40
$L_{A1, adj, 10 mins}$	60	55	45	60	55	45
	Noise measured at a Commercial place					
$L_{A10, adj, 10 mins}$	60	55	45	60	55	45
$L_{A1, adj, 10 mins}$	65	60	50	65	60	50

Associated requirements

1. All monitoring devices must be effectively calibrated and maintained.
2. Monitoring must be taken when emissions are expected to be representative of actual operating conditions for the sample frequency period.
3. Noise monitoring must be in accordance with the most recent version of the **administering authority's** Noise Measurement Manual.

6-N2	When requested by the **administering authority**, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 **days** to the **administering authority**. Monitoring must include: a) $L_{A 10, adj, 10 mins}$

	b) **$L_{A\ 1,\ adj,\ 10\ mins}$** c) the level and frequency of occurrence of impulsive or tonal noise; d) atmospheric conditions including wind speed and direction; e) effects due to extraneous factors such as traffic noise; and f) location, date and time of recording.
Agency Interest: Water	
Condition number	**Condition**
6-WT1	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: a) so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any **waters** (including **groundwater**); b) so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and c) so as to ensure the stability of the ponds' construction.
6-WT2	The effluent lagoon floor must achieve a permeability of 1×10^{-8} m/s.
6-WT3	Diversion drains installed to exclude stormwater runoff from structures used for the storage or treatment of contaminants or wastes must be capable of diverting stormwater from a **24 hour storm event with an average recurrence interval of 1 in 10 years**.

Part 7 – Site specific conditions for sewage treatment – Moranbah

Environmentally relevant activity	Location
ERA 63 Sewage treatment Threshold 1(e) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 10,000-50,000EP	Forrest Drive Moranbah; Lot 1 Plan GV282 and Lot 44 Plan GV203

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

<table>
<tr><th colspan="2">Agency Interest: Dams</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>7-D01</td><td>The holder of this environmental authority must ensure that each effluent storage dam is designed, constructed, operated and maintained to achieve compliance with condition 7-D04 and is fit for the purpose for which it is intended.</td></tr>
<tr><td>7-D02</td><td>The condition of effluent storage dams must be monitored for early signs of loss of structural or hydraulic integrity. The procedures for monitoring and the frequency of monitoring must be assessed by an appropriately qualified person.</td></tr>
<tr><td>7-D03</td><td>Only the effluent storage dams listed in Table 7.5 - Basic specification of effluent storage dams are authorised under this environmental authority, and these dams must be constructed, operated and maintained to comply with the specifications included in this table.
Table 7.5 – Basic specification of effluent storage dams
<table>
<tr><th>Name of effluent storage dam</th><th>Maximum surface area of effluent storage dam at crest (ha)</th><th>Maximum effluent storage dam volume at crest (ML)</th><th>Depth of effluent storage dam at crest (m)</th><th>Purpose of effluent storage dam</th></tr>
<tr><td>Mo-ESP1</td><td rowspan="2">7.79</td><td rowspan="2">144.8</td><td rowspan="2">4.54</td><td rowspan="2">Treated effluent storage</td></tr>
<tr><td>Mo-ESP2</td></tr>
<tr><td>Mo-OSD</td><td>0.49</td><td>5.7</td><td>5.7</td><td>Overflow storage</td></tr>
</table></td></tr>
<tr><td>7-D04</td><td>All effluent storage dams used for the storage of effluent at the authorised place must:
a) be maintained to minimise the likelihood of any release of effluent to land or waters; and
b) ensure that a freeboard of not less than 0.5 metres is maintained at all times, except for in an emergency; and
c) be maintained to ensure the stability of the effluent storage dams.</td></tr>
<tr><td>7-D05</td><td>The holder of this permit must notify the administering authority within twenty-four (24) hours of the level in effluent storage dams Mo-ESP1 and Mo-ESP2 reaching 4 meters.</td></tr>
<tr><td>7-D06</td><td>In the event of early signs of loss of structural or hydraulic integrity, the holder of this permit must immediately take action to prevent or minimise any actual or potential</td></tr>
</table>

	environmental harm, and report in writing any findings and actions to the **administering authority** within twenty-eight (28) days of that event.
7-D07	The **holder** of this environmental authority must not abandon any **effluent storage dams**, but must decommission each **effluent storage dam** such that ongoing environmental harm is prevented.
7-D08	Each **effluent storage dam** must be maintained for the duration of its operational life until decommissioned and rehabilitated, in compliance with condition 7-D09.
7-D09	As a minimum, decommissioning must be conducted such that each **effluent storage dam** is: (a) either: i. a stable landform, that no longer contains effluent, or ii. approved or authorised under relevant legislation for a beneficial use, or iii. a void authorised by the **administering authority** to remain after decommissioning; and (b) compliant with the rehabilitation requirements of this permit.
7-D10	When modification of any **effluent storage dam** is complete, the **holder** of this permit must submit to the **administering authority** two copies of a set of 'as **constructed**' drawings, together with the **certification** of a **suitably qualified and experienced person** that the **effluent storage dam** 'as **constructed**' will deliver the performance stated in the **design plan** and that it will be compliant in all respects with this permit.
7-D11	The **holder** of this permit must ensure that there is always a current **operation and maintenance plan** for each **effluent storage dam**, which may form part of other plans required by legislation.
7-D12	The **operation and maintenance plan** must at least cover all matters relevant to the **operation** and maintenance of the **effluent storage dams** so that it is compliant in all respects with this permit.
7-D13	The **holder** of this permit must ensure that, where a current **operation and maintenance plan** covers decommissioning and rehabilitation, **the operation and maintenance plan** is consistent with the objectives in any **design plan** for the **effluent storage dam**.

Definitions for Parts 1-7

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that 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.

24 hour storm event with an average recurrence interval of 1 in 10 years means the maximum rainfall depth from a 24 hour duration 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 10 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.*

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, Science and Innovation or its successor or predecessors.

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

Assessed or **assessment** by a **appropriately qualified person** in relation to a consequence assessment of a **dam**, means that a statutory declaration has been made by that person and, when taken together with any attached or appended documents referenced in that declaration, all of the following aspects are addressed and are sufficient to allow an independent audit of the assessment:

(a) exactly what has been assessed and the precise nature of that determination;
(b) the relevant legislative, regulatory and technical criteria on which the assessment has been based;
(c) the relevant data and facts on which the assessment has been based, the source of that material, and the efforts made to obtain all relevant data and facts; and
(d) the reasoning on which the assessment has been based using the relevant data and facts, and the relevant criteria.

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.

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.

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

Certification means assessment and approval must be undertaken by a **suitably qualified and experienced person** in relation to any assessment or documentation required by this Manual, including **design and maintenance plans**, ‘as constructed’ drawings and specifications, construction, operation or an annual report regarding regulated structures, undertaken in accordance with the Board of Professional Engineers of Queensland Policy Certification by RPEQs (ID: 1.4 (2A)).

Certifying, **certify or certified** have a corresponding meaning as ‘certification’.

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.

Construction or constructed in relation to an **effluent storage dam** includes building a new **dam** and modifying or lifting an existing **dam** but does not include investigations and testing necessary for the purpose of preparing a **design and maintenance plan**.

Crest volume (volume at crest) means the volume of material (liquids and/or solids) that could be within the walls of a dam at any time when the upper level of that material is at the crest level of that dam. That is, the instantaneous maximum volume within the walls, without regard to flows entering or leaving (for example, via **spillway**).

Day means any 24 hour period.

Design plan is a document setting out how all identified consequence scenarios are addressed in the planned design and operation of a regulated structure.

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.

Effluent storage dam means a land-based structure or a void that contains and controls effluent and includes any associated works.

Emergency means, if either:

1. human health or safety is threatened; or
2. serious or material environmental harm has been or is likely to be caused; and

urgent action is necessary to:

1. protect the health or safety of persons; or
2. prevent or minimise the harm; or
3. rehabilitate or restore the environment because of the harm.

Emergency action plan means documentation forming part of the **operation and maintenance plan** held by the **holder** or a nominated responsible officer, that identifies emergency conditions that sets out procedures and actions that will be followed and taken by the dam owner and operating personnel in the event of an emergency. The actions are to minimise the risk and consequences of failure and ensure timely warning to affected persons and the implementation of protection measures. The plan must require dam owners to annually review and update contact information where required.

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

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

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

Groundwater monitoring system means a system of groundwater monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of groundwater in the uppermost aquifer where the location of the groundwater monitoring devices is such that comparisons of groundwater quality and groundwater level can be made between groundwater flowing from beneath the site (down-gradient flow) of the **activity** and groundwater flowing towards the site of the **activity** (up-gradient flow).

Holder means any person who is the holder of, or is acting under, this environmental authority.

$L_{A1, adj, 10 mins}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

$L_{A10, adj, 10 mins}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

$L_{A, max\ adj\ T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

Liquid means any substance that:

1. has an angle of repose of less than five degrees; or
2. becomes free flowing at or below 60 degrees Celsius or when it is transported; or
3. is not generally capable of being picked up by a spade or shovel.

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

Median means the middle value, where half the data are smaller and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values. This applies to data obtained from one release event, e.g. if a release occurs over a period of 3 days, the median is applied to the monitoring obtained over those three days.

NATA means National Association of Testing Authorities.

Operation and maintenance plan includes:

(a) normal operating and maintenance procedures and rules (including clear documentation and definition of process inputs in the storage);
(b) contingency and **emergency action plans** including operating procedures designed to avoid and/or minimise environmental impacts including threats to human life resulting from any overtopping or loss of structural integrity of the regulated structure.

Receiving environment monitoring program means a monitoring program designed to monitor and assess the potential impacts of controlled and/or uncontrolled releases of contaminants to the environment from the **activity**.

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

Release of a contaminant into the environment means to:

(e) deposit, discharge, emit or disturb the contaminant
(f) cause or allow the contaminant to be deposited, discharged, emitted or disturbed
(g) fail to prevent the contaminant from being deposited, discharged emitted or disturbed
(h) allow the contaminant to escape
(i) 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:

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

Spillway means a weir, channel, conduit, tunnel, gate or other structure designed to permit discharges form the dam, normally under flood conditions or in anticipation of flood conditions.

Appropriately qualified person means a person or persons who has professional qualifications, training, skills and experience relevant to the environmental authority (EA) requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement using relevant protocols, standards, methods or literature. Note: it includes a person who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the *Professional Engineers Act 2002*, and has demonstrated competency and relevant experience:

- for regulated dams, an RPEQ who is a civil engineer with the required qualifications in dam safety and dam design,
- for regulated levees, an RPEQ who is a civil engineer with the required qualifications in the design of flood protection embankments.

Note: It is permissible that a suitably qualified and experienced person obtain subsidiary certification from an RPEQ who has demonstrated competence and relevant experience in either geomechanics, hydraulic design or engineering hydrology.

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**.**

Watercourse has the meaning in Schedule 4 of the *Environmental Protection Act 1994* and means:

1. a river, creek or stream in which water flows permanently or intermittently—
    (a) in a natural channel, whether artificially improved or not; or
    (b) in an artificial channel that has changed the course of the watercourse;
2. watercourse includes the bed and banks and any other element of a river, creek or stream confining or containing water.

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.

Part 8 – Waste, Former NM0140

Environmentally relevant activities	Locations
ERA 60 Waste disposal, Threshold 2(b) operating a facility for disposing of, in a year, 2000-5000t of waste mentioned in subsection (1)(b)	Clermont Waste Management Facility: 38 Turama Rd, Clermont; Lot 2 on SP231842
ERA 56 Regulated waste storage	Clermont Waste Management Facility: 38 Turama Rd, Clermont; Lot 2 on SP231842 Moranbah Works depot, Grosvenor Goonyella Rd Moranbah; Reserve 7 Lot 2 Plan GV321 Spoonbill Road, Clermont; Lot 228 CLM 63

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

Schedule A: General Conditions	
Condition number	**Condition**
8-A01	**Access to Copy of Environmental Authority** A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
8-A02	**Records** Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
8-A03	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
8-A04	**Monitoring and Measurements** All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
8-A05	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

8-A06	**Integrated Environmental Management System (IEMS)** The holder of this environmental authority must: (a) develop and implement an Integrated Environmental Management System which provides for the following functions: (i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and (ii) staff training and awareness of environmental issues; and (iii) the conduct of environmental and energy audits; and (iv) waste prevention, treatment and disposal; and (b) by the First Annual Return, lodge a detailed description of the Integrated Environmental Management System and its documentation with the administering authority for its review and comment; and (c) have due regard to that comment in the finalisation of the Integrated Environmental Management System.
8-A07	A copy of the Integrated Environmental Management System must be kept in a location readily accessible to personnel carrying out the activity
Schedule B: Noise	
Condition number	**Condition**
8-B01	**Emission of Noise** The emission of noise from the licensed activities shall conform to the contents of the Environmental Protection (Noise) Policy 1997.
Schedule C: Waste Management	
Condition number	**Condition**
8-C01	**General** The holder of this environmental authority must not: (i) allow waste to burn or be burned at or on the licensed place; nor (ii) remove waste from the licensed place and burn such waste elsewhere.
8-C02	**Notification of Improper Disposal of Regulated Waste** If the holder of this environmental authority becomes aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.
Schedule D: Monitoring and Reporting	
Condition number	**Condition**
8-D01	**Complaint Recording**

	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: (a) time, date and nature of complaint; (b) type of communication (telephone, letter, personal etc.); (c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); (d) response and investigation undertaken as a result of the complaint; (e) name of person responsible for investigating complaint; and (f) action taken as a result of the complaint investigation and signature of responsible person.
8-D02	**Report Submission** The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the Annual Return.
8-D03	**Incident Recording** A record must be maintained of at least the following events: (a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; (b) any uncontrolled release of contaminants reasonably likely to cause environmental harm and (c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire-fighting equipment.
8-D04	**Notification of Emergencies and Incidents** Where the holder of this environmental authority has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.
8-D05	Where the holder of this environmental authority has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number (8-D04) must include but not be limited to the following: (a) the holder of the environmental authority; (b) the location of the emergency or incident; (c) the number of the environmental authority; (d) the name and telephone number of the designated contact person; (e) the time of the release; (f) the time the holder of the environmental authority became aware of the release; (g) the suspected cause of the release;

	(h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and (i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
8-D06	Where the holder of this environmental authority has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number (8-D05) in addition to: (a) proposed actions to prevent a recurrence of the emergency or incident; (b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
8-D07	**Exception Reporting** The holder of this environmental authority must notify the administering authority in writing within 28 days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
8-D08	The written notification required by condition number (8-D07) above must include: (a) The full analysis results, and (b) Details of investigation or corrective actions taken, and (c) Any subsequent analysis.
Schedule F: General Waste Disposal Facility	
Condition number	**Condition**
8-F01	**Design and Operating Criteria** The waste accepted at the landfill facility must be in accordance with the Council's Waste Acceptance Criteria.
8-F02	An area must be set aside for segregation and storage of recyclable solid wastes.
8-F03	Exposed wastes must be confined to the working face of the landfill units and minimised.
8-F04	No waste must be deposited beyond the boundaries of the landfill units.
8-F05	Waste deposited within the landfill facility must be evenly and properly consolidated by mechanical plant at the end of each week.
8-F06	Putrescible wastes or domestic wastes must be deposited at least 2.0 meters above the highest regional water table or as otherwise approved based on the liner design and groundwater monitoring network.
8-F07	Deposited waste must be covered with 0.20 meter thick earthen material or other dense and incombustible alternative material of a thickness and nature acceptable to the administering authority, at the end of each week or at more frequent intervals if necessary, so that no putrescible wastes are exposed.
8-F08	Adequate cover material for at least two weeks operation must be stored and be readily available on the licensed site.

8-F09	The licensed premises must be appropriately fenced to restrict unauthorised access to the site, and provide litter and stock control.
8-F10	The fence around the site must be maintained in good repair. A regular program of litter collection must be conducted to ensure that the site, fence and the surrounds of the site are kept in a tidy condition.
8-F11	The holder of this environmental authority must prominently display on the licensed site appropriate signs with the following information: • types of waste which must be deposited at the site and a contact telephone number for information on alternative disposal options; • prominent list of materials acceptable for recycling and the location of them to be deposited on site; • contact telephone number for information and complaints; • a warning sign indicating that unlawful disposal and unauthorised scavenging is prohibited; • a warning sign indicating that open burning is prohibited.
8-F12	**Fire prevention** The holder of this environmental authority must ensure that the fire-fighting equipment is readily accessible at all times.
8-F13	A fire break must be provided and maintained in consultation with the Regional Fire Commander.
8-F14	**Public Health Issues** The holder of this environmental authority must take all practical measures to ensure that the environmentally relevant activity is conducted at all times in a nuisance free manner, particularly regarding fly breeding, mosquito breeding and rat harbourage and breeding.
8-F15	A program for the monitoring and control of rodents and insect pests must be established and maintained to the satisfaction of the administering authority.
8-F16	**Nuisance** No release of contaminants, including but not limited to odour, dust, smoke, fume, particulate, and aerosols is to cause or be likely to cause an environmental nuisance beyond the boundaries of the licensed place.
8-F17	**Water Pollution Control** Contaminants must not be directly or indirectly released from the licensed place to any waters, including groundwater, or bed and banks of any waters.
8-F18	Leachate must not be permitted to discharge beyond the boundaries of the licensed place.
8-F19	Diversion drainage structures must be in place to divert stormwater flows away from disposal areas.
8-F20	Stormwater runoff polluted by waste or leachate must not be permitted to discharge beyond the boundaries of the licensed place.
8-F21	By the First Annual Return, the holder of this environmental authority must submit to the administering authority the Management Plan to address the need for leachate management.
8-F22	**Site Rehabilitation**

	At cessation of waste disposal operations of a stage of the licensed place, a final cover consisting of at least 500 millimetres depth of compacted clean earth must be placed over the completed area.
8-F23	The final surface of any completed area of the licensed place must, after covering as specified in conditions above, be graded, drained and vegetated in such a manner as to minimise erosion and to prevent ponding of stormwater.
8-F24	Erosion and sediment control structures must be maintained at all times during the period rehabilitation and checked, repaired or replaced as required after each rain event.
8-F25	**Closure and Post-closure Care** The holder of the environmental authority must conduct post closure care of any landfill unit for 30 years or until it can be demonstrated to the administering authority that the site is geotechnically stable and will not release contaminants to the environment. Such care would compromise: (i) maintaining the integrity and effectiveness of any final cover; (ii) maintaining and operating the leachate collection system; (iii) monitoring the groundwater water quality.
8-F26	The holder of this environmental authority must: (i) develop and implement a landfill unit rehabilitation plan in accordance with the requirements referred to in condition (8-F25); (ii) lodge with the administering authority the landfill unit rehabilitation plan proposal at least 12 months before the anticipated final receipt of wastes in the landfill unit for its review and comment; (iii) have due regard to this comment in the finalisation of the landfill unit rehabilitation plan.
8-F27	The holder of this environmental authority must begin closure activities of any landfill unit no later than 28 days after the date on which landfill unit receives the final recorded receipt of wastes.
8-F28	**Groundwater Monitoring** A groundwater monitoring system must be installed for any landfill unit. The system must include a sufficient number of wells installed at locations and depths which yield representative groundwater samples from the uppermost aquifer that establish: (i) background groundwater quality in hydraulically up-gradient or background well(s) that have not been affected by any potential leakage of contaminants to groundwater; (ii) quality of groundwater down-gradient of any potential leakage of contaminants to groundwater.
8-F29	Locations referred to in condition (8-F28) for groundwater monitoring facilities must be given with reference to horizontal co-ordinates of such facilities accurate to 1.0 meter.
8-F30	The point(s) of compliance referred to in condition (8-F28) for the groundwater monitoring system(s) must be situated not more than 150 meters from any landfill unit or the boundary of the landfill facility whichever is closest.

Schedule H: Regulated Waste Storage	
Condition number	**Condition**
8-H01	**Bunding** The regulated waste storage must be bunded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
8-H02	All bunding must be constructed of materials which are impervious to the materials stored or likely to come into contact with the bund. The base and walls of all bunded areas must be maintained free from gaps and cracks.
8-H03	Drum storage of regulated waste must be within roofed areas.
8-H04	For the purposes of this licence, stormwater and liquid collected within the bunded areas must be regarded as contaminated.
8-H05	No wastewater collected within bunded areas is to be discharged to the stormwater drainage system.
8-H06	Stormwater run-off from adjacent land uses must not be permitted to enter the contaminated area.

Part 9 – Waste, Former NM0105

Environmentally relevant activity	Locations
ERA 60 Waste disposal, Threshold 2(b) operating a facility for disposing of, in a year, 2000-5000t of waste mentioned in subsection (1)(b)	Nebo Waste Management Facility; 17914 Peak Downs Highway, Nebo; Lot 98 on SP159584 Glenden Waste Management Facility: 412 Ewan Drive, Glenden; Lot 10 Plan HLN205

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

Schedule A: General Conditions	
Condition number	**Condition**
9-A01	**Access to Copy of Environmental Authority** A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
9-A02	**Records** Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
9-A03	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
9-A04	**Monitoring and Measurements** All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.
9-A05	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
9-A06	**Integrated Environmental Management System (IEMS)** The Integrated Environmental Management System submitted on 10 January 2000 by the holder of this environmental authority must be implemented ensuring that the IEMS provides for the following functions: (i) the monitoring of releases of contaminants into the environment, and

	(i) an environmental assessment of the impact of releases; and (ii) the management of the contamination of stormwater; and (iii) the maintenance of noise attenuation equipment; and (iv) waste prevention, treatment and disposal; and (v) the conduct of environmental and energy audits; and (vi) a program for continuous improvement; and (vii) staff training and awareness of environmental issues; and (viii) reporting arrangements on the effectiveness of the environmental management of the activities; and (ix) complaint and incident recording; and (x) notification of emergencies, incidents and exceptions.
9-A07	The management of the contamination of stormwater required by condition (9-A6)(iii) must include, as a minimum: a) a detailed plan of the licensed sites showing all stormwater flows and discharge points; and b) standards for bunding of fuel and chemical storages and transfer lines; and c) procedures and mechanisms for avoidance and minimisation of contaminated stormwater; and d) procedures for minimising and for cleaning up spillages and leaks; and e) procedures and mechanisms for treatment and disposal of contaminated stormwater
Schedule B: Noise	
Condition number	**Condition**
9-B01	**Emission of Noise** In the event the holder of this environmental authority receives a noise complaint associated with carrying out the environmentally relevant activities, the holder must, within a reasonable period of time, investigate the complaint and take any actions necessary to satisfactorily resolve the complaint including the use of appropriate dispute resolution if required.
9-B02	**Noise Monitoring** Monitoring must be undertaken to investigate any complaint of noise annoyance upon receipt of a written request from the administering authority to carry out such monitoring.
9-A05	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
Schedule C: Solid Waste Management	
Condition number	**Condition**
9-C01	**General** The holder of this environmental authority must not: (i) allow waste to burn or be burned at or on the licensed place; nor (ii) remove waste from the licensed place and burn such waste elsewhere.

9-C02	**Off Site Movement** Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must monitor and keep records of the following: (a) the date, quantity and type of waste removed; and (b) name of the waste transporter and/or disposal operator that removed the waste; and (c) the intended treatment/disposal destination of the waste.
9-C03	**Notification of Improper Disposal Of Regulated Waste** If the holder of this environmental authority becomes aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.
Schedule D: Monitoring and Reporting	
Condition number	**Condition**
9-D01	**General** The holder of this environmental authority must not: (i) allow waste to burn or be burned at or on the licensed place; nor (ii) remove waste from the licensed place and burn such waste elsewhere.
9-D02	**Report Submission** The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the Annual Return.
9-D03	**Incident Recording** A record must be maintained of at least the following events: (i) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; (ii) any uncontrolled release of contaminants reasonably likely to cause environmental harm and (iii) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire-fighting equipment.
9-D04	**Notification of Emergencies and Incidents** Where the licensee has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.

9-D05	Where the licensee has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number (9-D04) must include but not be limited to the following: The holder of the environmental authority; (a) the location of the emergency or incident; (b) the number of the environmental authority; (c) the name and telephone number of the designated contact person; (iv) the time of the release; (v) the time the holder of the environmental authority became aware of the release; (vi) the suspected cause of the release; (vii) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and (viii) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
9-D06	Where the licensee has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number (9-D05) in addition to: (i) proposed actions to prevent a recurrence of the emergency or incident; (ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
9-D07	**Exception Reporting** The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.
9-D08	The written notification required by condition number (9-D07) above must include: (i) The full analysis results, and (ii) Details of investigation or corrective actions taken, and (iii) Any subsequent analysis.
Schedule G: General Waste Disposal Facility	
Condition number	**Condition**
9-G01	**Design and Operating Criteria** The waste accepted at the landfill facility must be in accordance with the Council's Waste Acceptance Criteria.
9-G02	No waste must be deposited beyond the boundaries of the landfill units.
9-G03	An area must be set aside for segregation and storage of recyclable wastes.
9-G04	Waste deposited within the landfill facility must be evenly and properly consolidated by mechanical plant at least once per week.
9-G05	The licensed premises must be appropriately fenced to restrict unauthorised access to the site, and provide litter and stock control.

9-G06	The holder of this environmental authority must prominently display on the licensed site appropriate signs with the following information: • types of waste which must be deposited at the site and a contact telephone number for information on alternative disposal options; • prominent list of materials acceptable for recycling and the location for them to be deposited on site; • contact telephone number for information and complaints; • a warning sign indicating that unlawful disposal and unauthorised scavenging is prohibited; • a warning sign indicating that open burning is prohibited.
9-G07	**Disposal Trench Management** The holder of this environmental authority must ensure that any active disposal trench is excavated into low permeability soils of sufficient thickness and appropriate characteristics to effectively attenuate landfill leachate percolating from the trench to an extent that the migration of landfill leachate to groundwater shall not cause environmental harm or environmental nuisance.
9-G08	All active waste disposal trenches must be constructed in such a manner that the floor of the trench is graded with a slope downward from the active tipping face to a sump to enable accumulation of contaminated stormwater to be removed during trench operation.
9-G09	The holder of this environmental authority must use temporary berms of low permeability material to minimise the exposure of waste deposited in active disposal trenches to rainwater which may accumulate in the trenches.
9-G10	No putrescible wastes shall be deposited of into water. Putrescible wastes or domestic wastes must be deposited at least 2.0 meters above the highest regional water table or as otherwise approved based on the liner design and groundwater monitoring network.
9-G11	Sufficient cover material for at least two weeks operation must be stored and be readily available at the licensed site.
9-G12	**Litter** The holder of this environmental authority must ensure that the movement of litter off the licensed place does not cause environmental harm or nuisance through the use of practicable and effective litter control measures and management practices. Such measures may include, but not be limited to, minimisation of the areas of uncovered wastes; frequent application of cover to deposited wastes; the use of relocatable litter screens around areas of waste deposition; the use of fixed litter control fencing around the site perimeter or other places; the implementation of regular litter collection programs that include cleaning of site perimeter fencing.
9-G13	**Fire Prevention and Control** The holder of this environmental authority must at all times maintain clear access for fire fighting vehicles and equipment.
9-G14	A fire break must be provided and maintained in consultation with the Regional Fire Commander.
9-G15	The holder of this environmental authority must act to ensure that any unauthorised fire on the licensed place is promptly extinguished.

9-G16	**Public Health Issues** The holder of this environmental authority must operate the licensed activity in such a manner that as far as is practical, fly and mosquito breeding and rat harbourage and breeding are minimised to ensure that the activity does not create a public health problem.
9-G17	The holder of this environmental authority must take all practical measures to ensure that the environmentally relevant activity is conducted at all times in a nuisance free manner, particularly regarding fly breeding, mosquito breeding and rat harbourage and breeding.
9-G18	The holder of this environmental authority must carry out any works required by the administering authority to prevent or abate any public health problem or nuisance which may arise as the result of the operation of the licensed place.
9-G19	**Bird and Animal Control** The holder of this environmental authority shall institute effective measures to prevent environmental harm or nuisance due to the congregation of birds at the licensed place.
9-G20	The holder of this environmental authority must also prevent the access of animals to deposited wastes. Such measures may include, but not be limited to minimisation of the areas of uncovered wastes; frequent application of cover to deposited wastes; and provision of animal proof fencing.
9-G21	**Stormwater Management** A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur, including but not limited to: (a) active disposal trenches; and (b) areas used for the storage of wastes; and (c) areas previously used for waste disposal.
9-G22	During construction of each landfill trench, adequate silt fencing must be maintained downstream of disturbed areas to minimise sediment transport from the site.
9-G23	The cover material stockpile(s) located at the licensed place must be appropriately contoured to minimise surface erosion and sediment transport.
9-G24	Stormwater diversion drains must be installed upstream of areas to be disturbed prior to commencement of construction activities to divert uncontaminated stormwater away from disturbed areas and waste disposal areas.
9-G25	**Site Rehabilitation** At cessation of waste disposal operations of a stage of the licensed place, a final cover consisting of at least 500 millimetres depth of compacted clean earth must be placed over the completed area.
9-G26	The final surface of any completed area of the licensed place must, after covering as specified in conditions above, be graded, drained and vegetated in such a manner as to minimise erosion and to prevent ponding of stormwater.
9-G27	Erosion and sediment control structures must be maintained at all times during the period rehabilitation and checked, repaired or replaced as required after each rain event.
9-G28	**Closure and Post-closure Care**

	The holder of the environmental authority must conduct post closure care of any landfill unit for 30 years or until it can be demonstrated to the administering authority that the site is geotechnically stable and will not release contaminants to the environment. Such care would comprise: (i) maintaining the integrity and effectiveness of any final cover; (ii) maintaining and operating the leachate collection system; (iii) monitoring the groundwater water quality.
9-G29	The holder of this environmental authority must: (i) develop and implement a landfill unit rehabilitation plan in accordance with the requirements referred to in condition (9-G28); (ii) lodge with the administering authority the landfill unit rehabilitation plan proposal at least 12 months before the anticipated final receipt of wastes in the landfill unit for its review and comment; (iii) have due regard to this comment in the finalisation of the landfill unit rehabilitation plan.
9-G30	The holder of this environmental authority must begin closure activities of any landfill unit no later than 28 days after the date on which landfill unit receives the final recorded receipt of wastes.
9-G31	**Groundwater Monitoring** A groundwater monitoring system must be installed for any landfill unit. The system must include a sufficient number of wells installed at locations and depths which yield representative groundwater samples from the uppermost aquifer that establish: (i) background groundwater quality in hydraulically up-gradient or background well(s) that have not been affected by any potential leakage of contaminants to groundwater; (ii) quality of groundwater down-gradient of any potential leakage of contaminants to groundwater.
9-G32	Locations referred to in condition (9-G31) for groundwater monitoring facilities must be given with reference to horizontal co-ordinates of such facilities accurate to 1.0 metre.
9-G33	The point(s) of compliance referred to in condition (9-G31) for the groundwater monitoring system(s) must be situated not more than 150 metres from any landfill unit or the boundary of the landfill facility whichever is closest.
9-G34	The holder of the environmental authority must monitor quality of groundwater at least every 6 months to detect any possible release(s) of contaminants for at least the following water quality characteristics: 1. Ammonia (as N) 2. Bicarbonate (HCO3) 3. Calcium 4. Chloride 5. Iron (total) 6. Manganese (dissolved) 7. Nitrate (as N) 8. pH (field measured) 9. Potassium 10. Sodium

	11. Sulphate 12. Specific conductance 13. Total Organic Carbon (TOC) 14. Zinc
Schedule I: Definitions	
Condition number	**Condition**
2-I01	**Noise Definitions** "$L_{Amax\ adj,\ T}$" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.
2-I02	"Background noise level" means either: • $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or • $L_{Abg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.
2-I03	"$MaxL_{pA\ T}$" means the maximum A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.
2-I04	"noise sensitive place" means - (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or (b) a motel, hotel or hostel; or (c) a kindergarten, school, university or other educational institution; or (d) a medical centre or hospital; or (e) a protected area; or (f) a public park or gardens.
2-I05	"commercial place" means a place used as an office or for business or commercial purposes.

Part 10 – Waste, Former NM0139

Environmentally relevant activity	Locations
ERA 60 Waste disposal, Threshold 2(a) operating a facility for disposing of, in a year, 50-2000t of waste mentioned in subsection (1)(b)	Carmila Waste Management Facility: 153 Carmila West Road, Carmila; Lot 80 Plan MC682 Middlemount Waste Management Facility: 60 Nolan Drive, Middlemount; Lot 49 Plan CNS281 Dysart Waste Management Facility: 7145 Dysart-Clermont Road, Dysart; Lot 1 on SP201845 St Lawrence Waste Management Facility: 402 St Lawrence Connection Road, St Lawrence; Lot 66 Plan MUR40149 Greenhill Waste Management Facility: 1026 Greenhill Road, Ilbilbie; Lot 68 Plan MC683

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

Schedule A: General Conditions	
Condition number	**Condition**
10-A01	**Access to Copy of Environmental Authority** A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
10-A02	**Records** Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
10-A03	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
10-A04	**Monitoring and Measurements** All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

10-A05	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
10-A06	**Integrated Environmental Management System (IEMS)** The Integrated Environmental Management System submitted by the holder of this environmental authority with the licence application is acknowledged by the **administering authority** as being a provisional IEMS only.
10-A07	The holder of this environmental authority must: (a) develop and implement an Integrated Environmental Management System which provides for the following functions: (i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and (ii) staff training and awareness of environmental issues; and (iii) the conduct of environmental and energy audits; and (iv) waste prevention, treatment and disposal; and (b) on or before the date of the first annual return lodge a detailed description of the Integrated Environmental Management System and its documentation with the **administering authority** for its review and comment; and (c) have due regard to that comment in the finalisation of the Integrated Environmental Management System.
10-A08	A copy of the Integrated Environmental Management System must be kept in a location readily accessible to personnel carrying out the activity.
Schedule B: Noise	
Condition number	**Condition**
10-B01	**Emission of Noise** The environmentally relevant activities must be carried out by such practicable means necessary to prevent the emission or likelihood of emission of noise that constitutes environmental nuisance.
Schedule C: Waste Management	
Condition number	**Condition**
10-C01	**General** The holder of this environmental authority must not: (i) allow waste to burn or be burned at or on the licensed place; nor (ii) remove waste from the licensed place and burn such waste elsewhere.
10-C02	**Notification of Improper Disposal Of Regulated Waste** If the holder of this environmental authority becomes aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the **administering authority** of all relevant facts, matters and circumstances known concerning the disposal.

Schedule D: Monitoring and Reporting	
Condition number	**Condition**
10-D01	**Complaint Recording** All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: (a) time, date and nature of complaint; (b) type of communication (telephone, letter, personal etc.); (c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); (d) response and investigation undertaken as a result of the complaint; (e) name of person responsible for investigating complaint; and (f) action taken as a result of the complaint investigation and signature of responsible person.
10-D02	**Report Submission** The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the Annual Return.
10-D03	**Incident Recording** A record must be maintained of at least the following events: (a) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; (b) any uncontrolled release of contaminants reasonably likely to cause environmental harm and (c) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire fighting equipment.
10-D04	**Notification of Emergencies and Incidents** Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
10-D05	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition number (10-D4) must include but not be limited to the following: (i) the holder of the environmental authority; (ii) the location of the emergency or incident; (iii) the number of the environmental authority;

	(iv) the name and telephone number of the designated contact person; (v) the time of the release; (vi) the time the holder of the environmental authority became aware of the release; (vii) the suspected cause of the release; (viii) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and (ix) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
10-D06	Where the holder of this environmental authority has not given notification to the **administering authority** under section 37 of the *Environmental Protection Act 1994*, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number (10-D5) in addition to: (i) proposed actions to prevent a recurrence of the emergency or incident; (ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
10-D07	**Exception Reporting** The holder of this environmental authority must notify the **administering authority** in writing within 28 days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
10-D08	The written notification required by condition number (10-D7) above must include: (a) the full analysis results, and (b) details of investigation or corrective actions taken, and (c) any subsequent analysis.
Schedule G: General Waste Disposal Facility	
Condition number	**Condition**
10-G01	**Design and Operating Criteria** The waste accepted at-the landfill facility must be in accordance with the Council's Waste Acceptance Criteria.
10-G02	The Waste Acceptance Criteria must be documented and submitted for approval to the **administering authority** by 1 August 1998.
10-G03	Area/s must be set aside for segregation and storage of recyclable solid wastes.
10-G04	The occurrence of exposed wastes must be confined to the working face of the landfill units and be minimised.
10-G05	No waste must be deposited beyond the boundaries of the landfill units.
10-G06	All wastes must be deposited in lifts not exceeding a vertical height of 3 meters.
10-G07	The working face of the landfill must not exceed 30 meters in width.
10-G08	Waste deposited within the landfill facility must be evenly and properly consolidated by mechanical plant at the end of each week.

10-G09	Putrescible wastes or domestic wastes must be deposited at least 2.0 metres above the highest regional water table or as otherwise approved based on the liner design and groundwater monitoring network.
10-G10	Deposited waste must be covered with 0.20 metre thick earthen material or other dense and incombustible alternative material of a thickness and nature acceptable to the **administering authority**, at the end of each week or at more frequent intervals if necessary, so that no putrescible wastes are exposed.
10-G11	Adequate cover material for at least two weeks operation must be stored and be readily available on the licensed site.
10-G12	The licensed premises must be appropriately fenced to restrict unauthorised access to the site, provide litter control and stock/animal control.
10-G13	The fence around the site must be maintained in good repair. A regular program of litter collection must be conducted to ensure that the site, fence and the surrounds of the site are kept in a tidy condition.
10-G14	The holder of this environmental authority must prominently display on the licensed site appropriate signs with the following information: • types of waste which must be deposited at the site and a contact telephone number for information on alternative disposal options; • prominent list of materials acceptable for recycling and the location/s for deposition of these on the site; • contact telephone number for information and complaints; • a warning sign indicating that unlawful disposal and unauthorised scavenging is prohibited; • a warning sign indicating that open burning is prohibited.
10-G15	**Fire prevention** The holder of this environmental authority must ensure that the fire fighting equipment is readily accessible at all times.
10-G16	A fire break must be provided and maintained in consultation with the Regional Fire Commander.
10-G17	**Public Health Issues** The holder of this environmental authority must take all practical measures to ensure that the environmentally relevant activity is conducted at all times in a nuisance free manner, particularly regarding fly breeding, mosquito breeding and rat harbourage and breeding.
10-G18	A program for the monitoring and control of rodents and insect pests must be established and maintained to the satisfaction of the **administering authority**.
10-G19	**Nuisance** No release of contaminants, including but not limited to odour, dust, smoke, fume, particulates and aerosols, is to cause or be likely to cause an environmental nuisance beyond the boundaries of the licensed place.
10-G20	**Water Pollution Control** Contaminants must not be directly or indirectly released from the licensed place to any waters, including groundwater, or bed and banks of any waters.

10-G21	Leachate must not be permitted to discharge beyond the boundaries of the licensed place.
10-G22	Diversion drainage structures must be in place to divert stormwater flows away from disposal areas.
10-G23	Stormwater runoff polluted by waste or leachate must not be permitted to discharge beyond the boundaries of the licensed place.
10-G24	By the date of the first annual return the holder of this environmental authority must submit to the **administering authority** a management plan to address the necessity for leachate management.
10-G25	**Site Rehabilitation** At cessation of waste disposal operations in a stage of the licensed place, a final cover consisting of at least 500 millimetres depth of compacted clean earth must be placed over the completed area.
10-G26	The final surface of any completed area of the licensed place must, after covering as specified in conditions above, be graded, drained and vegetated in such a manner as to minimise erosion and to prevent ponding of stormwater.
10-G27	Erosion and sediment control structures must be maintained at all times during the period of rehabilitation and checked, repaired or replaced as required after each min event.
10-G28	**Closure and Post-closure Care** The holder of this environmental authority must conduct post closure care of any landfill unit for 30 years or until it can be demonstrated to the **administering authority** that the site is geotechnically stable and will not release contaminants to the environment. Such care would comprise: (i) maintaining the integrity and effectiveness of any final cover; (ii) maintaining and operating the leachate collection system; (iii) monitoring the groundwater water quality; (iv) maintaining and operating the landfill gas monitoring system.
10-G29	The holder of this environmental authority must: (i) develop and implement a landfill unit rehabilitation plan in accordance with (ii) the requirements referred to in condition (10-G28); (iii) lodge with the **administering authority** the landfill unit rehabilitation plan proposal at least 12 months before the anticipated final receipt of wastes in the landfill unit for its review and comment; (iv) have due regard to this comment in the finalisation of the landfill unit rehabilitation plan.
10-G30	The holder of this environmental authority must begin closure activities of any landfill unit no later than 28 days after the date on which landfill unit receives the final recorded receipt of wastes.
10-G31	**Groundwater Monitoring** A groundwater monitoring system must be installed for every landfill unit. The system must include a sufficient number of wells installed at locations and depths which yield representative groundwater samples from the uppermost aquifer that establish:

	(i) background groundwater quality in hydraulically up-gradient or background well(s) that have not been affected by any potential leakage of contaminants to groundwater; (ii) quality of groundwater down-gradient of any potential leakage of contaminants to groundwater.
10-G32	Locations referred to in condition (10-G31) for groundwater monitoring facilities must be given with reference to horizontal co-ordinates of such facilities accurate to 1.0 meter.
10-G33	The point(s) of compliance referred to in condition (10-G31) for the groundwater monitoring system(s) must be situated not more than 150 meters from any landfill unit or the boundary of the landfill facility whichever is closest.
10-G34	By the first annual return the holder of this environmental authority must develop and implement a Groundwater Monitoring Program.
Schedule I: Definitions	
Condition number	**Condition**
3-I04	**Administering Authority** means Department of Environment, Science and Innovation or its successor.

Attachment 1

- *Code of environmental compliance for certain aspects of sewage treatment activities (ERA 63) (ESR/2015/1669) Version 1.*

END OF ENVIRONMENTAL AUTHORITY

Code of environmental compliance

ERA 63(2)—Sewage treatment

This code of environmental compliance (code) continues to apply under s.191 of the Environmental Protection Regulation 2019. 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

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 3 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 has been updated to reflect the commencement of the Environmental Protection Regulation 2019.

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

Queensland Government

Table of contents

1. Introduction 3
2. Authorisation of the code 3
3. Scope of the code 3
4. When the code takes effect 3
5. Enforcement of the code 4
6. Other requirements 4
7. Amendment of this code 4
8. Further information or enquiries 4
9. Standard environmental conditions 5
10. Definitions 13

1. Introduction

The Department of Environment and Science (DES) 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 s.191 of the Environmental Protection Regulation 2019 (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 2 which is outlined below (for the full definition see Schedule 2 of the EP Reg).

ERA 63	**Sewage treatment activities**
Threshold 2	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 sewage treatment works to which ERA 63(1) 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(2) 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(2) 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.des.qld.gov.au.

6. Other requirements

In addition to the conditions in this code, the registered operator carrying out ERA 63(2) 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:

- being a registered suitable operator approved by the **administering authority** under section 318G; 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.des.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@des.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 *Environmental Protection Act 1994*.	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.des.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 (2).

Administering authority means the Department of Environment and Science, 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.

$\mathbf{L_{A\ 90,\ adj,\ 15\ mins}}$ 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.

$\mathbf{L_{A\ 10,\ adj,\ 10\ mins}}$ 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.

$\mathbf{L_{A\ eq}}$ 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.