

**DRAFT Amendment End of Waste Code
Paunch (ENEW07597819)**

Waste Reduction and Recycling Act 2011

Version history

| Version | Date | Description of changes |
|---------|------------------|---|
| 1.00 | 28 February 2020 | FINAL |
| 1.01 | 23 June 2023 | Minor update to reflect the definition of waste moving into the Waste Reduction and Recycling Act 2011. This does not impact the interests of the producer or user of the resource. |
| 1.02 | 28 March 2024 | Updated department name to reflect machinery of government changes and the definition of serious or material harm |
| 2.0 | April 2024 | DRAFT Amendment EOW Code – addition of paunch liquid as a resource |

Prepared by: Waste Assessment, Department of Environment, Science and Innovation.

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April 2024

Contents

| | |
|---|-----------|
| 1. Explanatory Statement..... | 4 |
| 2. Guidance..... | 4 |
| 2.1 Resource use versus Activity | 4 |
| 2.2 Resource versus Waste | 4 |
| 2.3 Failure to comply..... | 4 |
| 2.4 Lawfulness of the activity | 5 |
| 3. Period of this EOW code..... | 5 |
| 4. Waste to which this EOW code applies | 5 |
| 5. Person to whom this EOW code applies | 5 |
| 5.1 Registered resource producers of the resource | 5 |
| 5.2 Resource users..... | 5 |
| 6. Registered Resource Producer Requirements..... | 6 |
| 7. Conditions of Use..... | 7 |
| 8. Definitions..... | 8 |
| Appendix A —General obligation for all persons | 12 |

1. Explanatory Statement

This End of Waste (EOW) code for **paunch** has been issued by the **chief executive** in accordance with section 159 of the *Waste Reduction and Recycling Act 2011* (WRR Act).

This EOW code states when the **paunch** becomes a resource and any relevant requirements and/or conditions for its use. If the resource is not being used in accordance with the relevant requirements and/or conditions of this EOW code, or another type of permit that allows for its use, it is considered a waste under section 8AA of the WRR Act and must be disposed of appropriately at a facility that is **lawfully** able to receive the waste.

2. Guidance

2.1 Resource use versus Activity

Under section 155 of the WRR Act, a waste stops being a waste and becomes a **resource** when it meets the requirements and conditions of an EOW code. Under section 159 of the WRR Act, an EOW code specifies the circumstances when a waste becomes a resource; how it must be used to be considered a resource; when it is no longer considered a resource but a waste instead; and conditions that must be complied with by resources users and registered resource producers.

An Environmental Authority (EA) under the *Environmental Protection Act 1994* (EP Act) is required where an activity being undertaken triggers the threshold for any environmentally relevant activity (ERA). This means that treating or processing the waste to meet the resource quality criteria under the EOW code may require an EA under the EP Act if the activity meets the threshold for an ERA.

2.2 Resource versus Waste

A waste is considered a **resource** under an EOW code is considered a resource only for the use(s) approved in an EOW code. If a **resource** does not meet the requirements of the EOW code and/or is not used in accordance with the EOW code, it is not deemed a **resource**. It remains a waste and must be managed in accordance with waste management requirements under the EP Act and the WRR Act and their subordinate legislation.

A resource approved under an EOW code is deemed to be a waste again, if it is disposed of at a waste disposal facility, or if it is deposited at a place in a way that would, apart from its use approved under an EOW code, constitute a contravention of the general littering provision or the illegal dumping of waste provision under the WRR Act.

2.3 Failure to comply

It is an offence under section 158(1) of the WRR Act for a **registered resource producer** to produce the **resource**, or use, sell or give away the **resource** if they do not comply with the requirements under an EOW code. Further, it is an offence under section 158(2) of the WRR Act for a **person** to use the resource in a way, or for a purpose, that does not comply with an EOW code. These offences carry a maximum penalty of 1,665 penalty units for an individual and 8,325 penalty units for a corporation¹.

Please refer to Appendix A of this EOW code for general obligations for all persons operating under this EOW code, which includes **resource users**.

¹ The value of a penalty unit is stated in the *Penalties and Sentences Regulation 2015* (Qld).

2.4 Lawfulness of the activity

The issuing of this EOW code for the use of a **resource** does not warrant or imply the lawfulness of the activity under all legislation, or that approvals necessary under other legislation have or will be approved. It is the responsibility of the **registered resource producer** and **resource user** to identify and obtain all other approvals necessary for the relevant activities.

3. Period of this EOW code

This EOW code takes effect from the day of gazettal of this EOW code and remains in force until it is cancelled, amended or suspended by the **chief executive**².

4. Waste to which this EOW code applies

This EOW code is limited to **paunch** generated from the **lawful** processing of animals for human consumption. The **paunch** becomes a **resource** when the requirements and conditions under this EOW code are met.

5. Person to whom this EOW code applies

5.1 Registered resource producers of the resource

5.1.1 A **registered resource producer** for this EOW code must comply with the stated registered resource producer requirements in Section 6 – Registered Resource Producer Requirements.

5.2 Resource users

5.2.1 The **resource user** must only use the **resource** in a way, and for a purpose allowed under this EOW code.

5.2.2 The **resource user** must comply with the stated conditions of use in Section 7 – Conditions of Use.

² If an EOW code is to be amended, cancelled or suspended, the chief executive will provide an opportunity to make written submissions by providing a proposed action notice to the registered resource producers; and publishing the proposed action notice on the chief executive's [website](https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework) (https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework).

6. Registered Resource Producer Requirements

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| Registration under this EOW code | |
| (6.1) | Prior to operating under this EOW code, the producer of the resource must register with the chief executive by giving a notice in the approved form ³ to become a registered resource producer for this EOW code. |
| Approved resource | |
| (6.2) | The approved resource is paunch that complies with <i>Requirement (6.3)</i> of this EOW code. |
| (6.3) | The registered resource producer must not use, sell or give away the resource unless it complies with all of the following criteria and quality characteristics: <ul style="list-style-type: none"> a) is generated from the lawful processing of animals for human consumption; and b) is separated into paunch solids and paunch liquid. |
| Information to be provided | |
| (6.4) | The registered resource producer must provide the following to the resource user upon establishment of an arrangement to sell or give away the resource, and annually thereafter: <ul style="list-style-type: none"> a) a copy of the EOW code for <i>Paunch (ENEW07597819)</i>⁴; b) the registered resource producer's business or individual's name, ABN and address; and c) confirmation in writing that the resource being supplied is compliant with the requirements of this EOW code. |
| Records | |
| (6.5) | The registered resource producer must keep the following records for each load of the resource provided to a resource user : <ul style="list-style-type: none"> a) origin of the resource (e.g. address, lot on plan and/or GPS coordinates); b) quantity (in tonnes) of the resource supplied; c) date of dispatch of the resource; and d) business or individual's name, ABN and address of the person receiving the resource. |
| (6.6) | All records required to be kept by the registered resource producer under this EOW code must be: <ul style="list-style-type: none"> a) kept by the registered resource producer for a period of not less than five (5) years; and b) provided to the chief executive upon request and in the format requested and time period specified. |

³ The approved form, *Registered Resource Producer for an EOW code*, is available on the chief executive's [website](https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework) (https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework).

⁴ This can be a physical copy, an electronic copy or a link to the chief executive's [website](https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework) (https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework) where this EOW code is available.

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| Notification of emergencies, incidents and exceptions | |
| (6.7) | Any breach of a requirement of this EOW code must be reported to the chief executive as soon as practicable and within 24 hours of becoming aware of the breach. |
| (6.8) | Records of any breach of a requirement of this EOW code, including full details of the breach and any subsequent actions taken, must be kept and provided to the chief executive upon request and in the format requested and time period specified. |

7. Conditions of Use

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| Notification under this EOW code | |
| (7.1) | Prior to operating under this EOW code, a person who intends to use the approved resource must notify the chief executive by giving a notice in the approved form ⁵ at least 10 days prior to the commencement of using the resource . |
| Approved uses | |
| (7.2) | The approved resource is paunch that complies with <i>Requirement (6.3)</i> of this EOW code and is used for the following purposes: Paunch solids: <ol style="list-style-type: none"> a) as a feedstock in an anaerobic biogas plant; b) as a feedstock in the manufacturing of compost; and/or c) as a feedstock in the manufacturing of soil conditioner. Paunch liquid: <ol style="list-style-type: none"> d) as a feedstock in the manufacturing of a biologically-active liquid fertiliser. |
| Resource use as a feedstock in an anaerobic biogas plant | |
| (7.3) | Use of the paunch solids as a feedstock in an anaerobic biogas plant must only be carried out in accordance with the Guideline for operating plant – Biogas . |
| Resource use as a feedstock in the manufacturing of compost and/or soil conditioner | |
| (7.4) | The paunch solids must only be used as a feedstock to manufacture compost and/or soil conditioner that meets the requirements of AS 4454 . |
| Resource use as a biologically-active liquid fertiliser | |
| (7.5) | The paunch liquid must only be used as a feedstock to manufacture biologically-active liquid fertiliser that meets the requirements of the Biosecurity Regulation 2016. |
| Storage and movement of the resource | |
| (7.6) | Any storage of the resource on the site of use must not exceed the operational demand for the purpose of the use(s) approved under this EOW code. |

⁵ The approved form, *Notification of use of a resource* is available on the chief executive's [website](https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework) (https://www.business.qld.gov.au/running-business/environment/waste-management/regulated-waste/eow-framework).

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| (7.7) | Any collection, transport and movement of the resource must meet the requirements of the Biosecurity Regulation 2016. |
| (7.8) | The resource must be stored in a way that prevents contact with stormwater or runoff. |
| Records | |
| (7.9) | The resource user must record the following information for each load of the resource received by the resource user under this EOW code: <ul style="list-style-type: none"> a) business or individual's name, ABN and address of the registered resource producer who supplied the resource; b) date the resource user received the resource; c) quantity (in tonnes) of the resource received by the resource user; d) site of use of resource (e.g. street address, lot on plan and/or GPS coordinates); and e) records supporting compliance with Condition (7.5) above. |
| (7.10) | All records required to be kept by the resource user under this EOW code must be: <ul style="list-style-type: none"> a) kept by the resource user for a period of not less than five (5) years; and b) provided to the chief executive upon request and in the format requested and time period specified. |
| Notification of emergencies, incidents and exceptions | |
| (7.11) | Any breach of a condition of this EOW code must be reported to the chief executive as soon as practicable and within 24 hours of becoming aware of the breach. |
| (7.12) | Records of any breach of a condition of this EOW code, including full details of the breach and any subsequent actions taken, must be kept and provided to the chief executive upon request and in the format requested and time period specified. |

8. Definitions

Words and phrases used throughout this EOW code in **bold** are defined below. Where a definition for a term used in this EOW code is sought and the term is not defined within this EOW code the definitions provided in the relevant legislation shall be used.

'ABN' means Australian Business Number which is a unique 11 digit number issued by the Australian Business Register and identifies a business in Australia.

'agricultural land' means land used for agricultural crops which includes horticulture, turf and land growing field crops or pastures.

'anaerobic biogas plant' means a device or facility that captures **biogas** for energy production; also known as 'biogas digester' or 'biodigester'.

'appropriately qualified person' means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relating to the subject matter using the relevant protocols, standards, methods or literature.

'AS 4454' means *Australian Standard 4454 Composts, soil conditioners and mulches (2012)*, or its most recent version.

'biogas' means gas that is generated through the natural process of bacterial decomposition (anaerobic digestion or fermentation) of organic materials such as biomass, manure, sewage, general waste, septic tanks, green waste and energy crops.

'biologically-active liquid fertiliser' means a nutrient-rich solution (**fertiliser**) containing beneficial microorganisms that enhance plant growth and health, and assists in the development and support of beneficial soil biology.

'business' means a body of persons, whether incorporated or unincorporated.

'chief executive' means the Department of Environment, Science and Innovation or its successor.

'compost' has the meaning in **AS 4454** and is the organic product that has undergone controlled aerobic and thermophilic biological transformation through the **composting** process to achieve **pasteurisation** and reduce phytotoxic compounds, and achieved a specified level of maturity as specified Appendix N (Determination of Maturity Index) of **AS 4454**.

'composted' means an organic product that has undergone **composting**.

'composting' means the process by which organic materials are microbiologically transformed under controlled aerobic conditions to achieve **pasteurisation** and a specified level of maturity as specified Appendix N (Determination of Maturity Index) of **AS 4454**.

'emergency(ies)' means a situation where either human health or safety is threatened, or serious or material environmental harm has been or is likely to be caused; and urgent action is necessary to protect the health or safety of persons, or prevent or minimise the harm, or rehabilitate or restore the environment because of the harm.

'environmental harm' means environmental harm as defined in Chapter 1 of the *Environmental Protection Act 1994*.

'fertiliser(s)' (as defined in *Schedule 2 – Code of Practice for the Labelling of Fertilisers and for Contaminants in Fertilisers* of the Biosecurity Regulation 2016) means a 'substance that is manufactured, represented, supplied or used for the purpose of directly or indirectly—

- a) fertilising soil; or
- b) supplying nutrients to plants; or
- c) conditioning the soil by altering the chemical, physical or biological condition of the soil;

however, does not include a substance declared, under a Commonwealth Act or regulation, to be an agricultural chemical product or a veterinary chemical product. The fertiliser must also be labelled in accordance with the criteria outlined under Schedule 2, Part 2, Division 1 of the Biosecurity Regulation 2016.

'Guideline for operating plant – Biogas' means the Queensland Department of Natural Resources, Mines and Energy's *Guideline for operating plant – Biogas (2018)* or any updated edition.

'lawful(ly)' means allowed or permitted by law and not contrary to law.

'load' means the volume of **resource** put in or on something for conveyance or transportation, carried at one time. A truck and trailer carrying the **resource** is considered as one load as well as multiple bins travelling by rail. Where the **resource** is transported via conveyor systems, information should be recorded on a daily basis until the transfer ceases.

'measures' have the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

'NWQMS Guidelines for Sewerage Systems' means the most recent version of the National Water Quality Management Strategy Guidelines for Sewerage Systems – Biosolids Management (2004) published by the Natural Resource Management Ministerial Council.

'paunch' means undigested food remaining in the digestive tract of ruminant animals that have been slaughtered for human consumption. This material usually includes partially digested grass, hay and other feed products such as grain. It can be separated into solid (**paunch solids**) and liquid (**paunch liquid**) components.

'paunch liquid' means the liquid fraction produced when **paunch** is dewatered. **Paunch liquid** must not contain viable **plant propagules**.

'paunch solids' means the solid fraction produced when **paunch** is processed to reduce its moisture content to less than or equal to 70%.

'pasteurised' means an organic product that has undergone **pasteurisation**.

'pasteurisation' means the process whereby the paunch is thermally treated to significantly reduce the numbers of plant and animal pathogens and **plant propagules**. It must undergo:

- (a) Appropriate turning of outer material to the inside of the windrow so that the whole mass is subjected to a minimum of 5 turns with the internal temperature maintained at 55°C or higher for 15 days or longer; or
- (b) An alternative process that guarantees the same level of pathogen reduction as required by the **NWQMS Guidelines for Sewerage Systems** (as if the paunch were to be considered as biosolids), and the elimination of plant propagules.

'plant propagule/s' means a plant or part of a plant that could generate a new plant, e.g. a seed, part of a rhizome, corm, bulb or any other fragment from which a plant could grow.

'person' means an individual or a corporation.

'records' include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition or requirement of this EOW code.

'registered resource producer(s)' means a **person** who produces the **resource** and has registered with the **chief executive** (in accordance with *Requirement (6.1)*) to use, sell or give away the **resource** to be used under this EOW code.

'resource' means **paunch** that meets the criteria and quality characteristics in *Requirement (6.3)* of this EOW code.

'resource user(s)' means a **person** who has notified the **chief executive** (in accordance with *Condition (7.1)*) to receive the **resource** from a **registered resource producer** and uses the **resource** for a use approved under this EOW code and does so in such a manner which does not cause any **environmental harm**.

'site of use' means the relevant location(s) where the **resource user** uses the **resource** in accordance with this EOW code.

'soil conditioner' means any **composted** or **pasteurised** organic product, that is suitable for adding to soil to improve the growing conditions for plant roots by providing nutritional requirements. A soil conditioner must not have more than 20% by mass of particles with a maximum size above 16mm.

'surface waters' means visible bodies of water on the earth's surface, including rivers, streams, lakes, creeks, dams, reservoirs, ponds, swamps and wetlands, and includes the bed and banks of these bodies of water.

'waters' includes river, stream, lake, lagoon, pond, swamp, wetland, surface water, artificial watercourse, bed and bank of any watercourse, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

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Appendix A —General obligation for all persons

This appendix is not intended to provide a comprehensive assessment of all obligations under Queensland law. It provides some general information and persons are encouraged to familiarise themselves with all requirements related to their specific operation.

Responsibilities under the *Environmental Protection Act 1994*

All persons within the State of Queensland must also meet their obligations under the *Environmental Protection Act 1994*, and the regulations made under that Act.

General environmental duty

Section 319 of the *Environmental Protection Act 1994* states that we all have a general environmental duty. This means that we are all responsible for the actions we take that affect the environment. We must not carry out any activity that causes or is likely to cause environmental harm unless we take all reasonable and practicable measures to prevent or minimise the harm. To decide what meets your general environmental duty, you need to consider:

- the nature of the harm or potential harm
- the sensitivity of the receiving environment
- the current state of technical knowledge for the activity
- the likelihood of successful application of the different measures to prevent or minimise environmental harm that might be taken
- the financial implications of the different measures as they would relate to the type of activity.

It is not an offence not to comply with the general environmental duty. However, maintaining your general environmental duty is a defence against the following acts:

- (a) an act that causes serious or material environmental harm or an environmental nuisance
- (b) an act that contravenes a noise standard
- (c) a deposit of a contaminant, or release of stormwater run-off, mentioned in section 440ZG.

More information is available on the Department of Environment, Science and Innovation (DESI) website www.des.qld.gov.au.

Some relevant offences under the *Environmental Protection Act 1994*

Causing serious or material environmental harm (sections 437–39)

Material environmental harm is when the harm is not trivial or negligible in nature. Serious environmental harm is harm that is irreversible, of a high impact or widespread, or that is caused to an area of high conservation value or special significance. Damages, or costs required to rehabilitate the environment, of over \$5000 constitutes material environmental harm and damages, or costs required to rehabilitate the environment, of over \$50,000 constitutes serious environmental harm.

Serious or material environmental harm excludes environmental nuisance.

Causing environmental nuisance (section 440)

Environmental nuisance is unreasonable interference with an environmental value caused by aerosols, fumes, light, noise, odour, particles or smoke. It may also include an unhealthy, offensive or unsightly condition because of contamination.

Depositing a prescribed water contaminant in waters (section 440ZG)

Prescribed contaminants include a wide variety of contaminants listed in Schedule 10 of the Environmental Protection Regulation 2019.

It is your responsibility to ensure that prescribed contaminants are not left in a place where they may or do enter a waterway, the ocean or a stormwater drain. This includes making sure that stormwater falling on or running across your site does not leave the site contaminated. Where stormwater contamination occurs you must ensure that it is treated to remove contaminants. You should also consider where and how you store material used in your processes onsite to reduce the chance of water contamination.

Placing a contaminant where environmental harm or nuisance may be caused (section 443)

A person must not cause or allow a contaminant to be placed in a position where it could reasonably be expected to cause serious or material environmental harm or environmental nuisance.

Some relevant offences under the *Waste Reduction and Recycling Act 2011*

Littering (section 103)

Litter is any domestic or commercial waste and any material a person might reasonably believe is refuse, debris or rubbish. Litter can be almost any material that is disposed of incorrectly. Litter includes cigarette butts and drink bottles dropped on the ground, fast food wrappers thrown out of the car window, poorly secured material from a trailer. However, litter does not include any gas, dust, smoke or material emitted or produced during, or because of, the normal operations of a building, manufacturing, mining or primary industry.

Illegal dumping of waste (section 104)

Illegal dumping is the dumping of large volumes of litter (200 litres or more) at a place.

Failure to comply with EOW code (section 158)

A registered resource producer for an EOW code must not use, sell or give away the resource unless the registered resource producer complies with the requirements of the EOW code relating to the resource.

A person, other than a registered resource producer, must not use a resource in a way, or for a purpose, that does not comply with an EOW code for the resource.

Approved:

19 April 2024

Enquiries:

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