

<b>Title</b>	<b>Demonstrate knowledge of dairy effluent systems and assist with dairy effluent management</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is intended for people who are working on a dairy farm.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of dairy effluent and how it affects the on-farm environment; describe environmental protection practices for a dairy effluent management system; identify characteristics of a specific dairy effluent management system; assist with the operation of a dairy effluent management system; identify and correct common operational problems associated with a dairy effluent management system.</p>
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<b>Classification</b>	Agriculture > Dairy Farming
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<b>Available grade</b>	Achieved
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## Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991;
  - Territorial and local authority bylaws.
  
- 2 Definitions
 

*Dairy effluent* refers to faeces, urine, washdown water, spilled milk, soil, feed residues, detergents and other chemicals, and stormwater from the farm dairy and feed pads.

*Workplace procedures* refer to the written and verbal instructions to staff on effluent system operation, maintenance, and record keeping, which must meet the requirements of current legislation and bylaws.
  
- 3 References
 

*A staff guide to operating your effluent irrigation system.* Available from DairyNZ, [www.dairynz.co.nz](http://www.dairynz.co.nz).

*NZCP-1, New Zealand Dairy Industry Farm Dairy Code of Practice*, New Zealand Food Safety Authority, ISBN 0-908946-00-7, referred to as the code of practice.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of dairy effluent and how it affects the on-farm environment.

#### Performance criteria

- 1.1 Identify the physical components of dairy farm effluent and the reasons for their variability.
- 1.2 Identify the chemical components of dairy farm effluent and describe its potential as a fertiliser.
- 1.3 Describe how dairy farm effluent affects the on-farm environment.
- 1.4 Describe the potential impacts to animal health of applying dairy farm effluent to pastures.

### Outcome 2

Describe environmental protection practices for a dairy effluent management system.

#### Performance criteria

- 2.1 Describe local authority bylaws and industry guidelines for a dairy effluent management system.
- 2.2 Describe the legal, economic, social and environmental consequences of non-compliance with applying dairy farm effluent.
- 2.3 Describe emergency procedures for corrective action to be taken in response to environmental incidents in accordance with workplace procedures.

### Outcome 3

Identify the characteristics of a specific dairy effluent management system.

#### Performance criteria

- 3.1 Identify the operational requirements of the dairy effluent management system.
- 3.2 Identify advantages and disadvantages of the dairy effluent management system.  
  
Range        at least two advantages and two disadvantages.
- 3.3 Identify the components of the dairy effluent management system and their function.

3.4 Identify a range of operational problems that may have adverse environmental effects.

Range at least three operational problems.

**Outcome 4**

Assist with the operation of a dairy effluent management system.

**Performance criteria**

4.1 Assist with operating a dairy effluent management system in accordance with manufacturer’s specifications and workplace procedures.

4.2 Maintain records of operation in accordance with workplace procedures.

4.3 Handle and manage livestock in the farm dairy to minimise defecation.

4.4 Minimise water use in the farm dairy according to workplace procedures.

**Outcome 5**

Identify and correct common operational problems associated with a dairy effluent management system.

**Performance criteria**

5.1 Monitor a dairy effluent system in accordance with manufacturer’s specifications and workplace procedures.

5.2 Identify common operational problems in a dairy effluent system.

Range at least three common operational problems.

5.3 Correct common operational problems in accordance with workplace procedures.

Range at least three common operational problems.

5.4 Clean the effluent system in accordance with workplace procedures.

<b>Replacement information</b>	This unit standard replaced unit standard 28940 and unit standard 28941.
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<b>Planned review date</b>	31 December 2024
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	27 February 2020	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

Please contact the Primary Industry Training Organisation [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.