

Title	Describe, operate and maintain a spray application system for land application of dairy effluent		
Level	3	Credits	5

Purpose	<p>People credited with this unit standard are able to operate and maintain a spray application system for land application of dairy effluent, and maintain the associated records. They are also able to describe: the purpose, benefits, and components of the system; and its potential operational problems, their adverse effects on the environment, and the actions required for correction of the effects.</p>
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Classification	Agriculture > Dairy Farming
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Available grade	Achieved
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Explanatory notes

- 1 Legislation and bylaws include but are not limited to – Resource Management Act 1991, territorial and local authority bylaws.
- 2 Industry texts include but are not limited to – *Managing Farm Dairy Effluent*, Dairying and the Environment Committee, 2006, available from <http://www.trc.govt.nz/dairy-farm-effluent/>.
NZCP1: Code of Practice for the Design and Operation of Farm Dairies, New Zealand Food Safety Authority, 2007.
- 3 Definitions
Dairy effluent refers to dairy effluent material containing between 5–20% solids. On-farm procedures refer to the written and verbal instructions to staff on spray application system operation, maintenance, and record keeping, and which must meet the requirements of current legislation and bylaws.
- 4 Assessment
The purposes of assessment a spray application system applies from the storage area to the application area.
Evidence is required for at least one spray application system which may include but is not limited to – travelling applicator, stationary applicator, multiple sprinkler, pod type system.
- 5 The focus of this unit standard is on knowledge and operation of a land application system and the adverse effects of effluent on the environment. The adverse effects of effluent on animal health are covered in unit standard 25731.

Outcomes and evidence requirements

Outcome 1

Describe the purpose, benefits, and components of a spray application system for land application of dairy effluent.

Evidence requirements

- 1.1 A spray application system is described in terms of its purpose and benefits and in accordance with industry texts.
- 1.2 A spray application system is described in terms of its components.
- Range components – pumps, pipes, spray applicator.

Outcome 2

Operate and maintain a spray application system for land application of dairy effluent, and maintain the associated records.

Evidence requirements

- 2.1 A spray application system is operated in accordance with manufacturer's specifications and on-farm procedures.
- 2.2 A spray application system is monitored and maintained in accordance with manufacturer's specifications and on-farm procedures.
- 2.3 Records of operation and maintenance are maintained in accordance with on-farm procedures.

Outcome 3

Describe potential operational problems associated with a spray application system for land application of dairy effluent, their adverse effects on the environment, and the actions required for correction of the effects.

Evidence requirements

- 3.1 Potential operational problems are described in terms of their adverse effects on the environment.
- Range evidence is required for at least three operational problems.
- 3.2 Actions required to correct the adverse effects of operational problems are described in terms of on-farm procedures.
- Range evidence is required for at least three operational problems.

Replacement information	This unit standard and unit standards 25727, 25728, 25729, 25730, 25731, 25732 have been replaced by unit standards 28940 and 28941.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 July 2009	31 December 2020
Review	2	16 July 2015	31 December 2020

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

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is expiring