

Title	Describe the management of water and air quality in an agribusiness context		
Level	3	Credits	8

Purpose	People credited with this unit standard are able to describe: factors affecting water and air quality, methods of reducing their adverse effects, and regional and national standards for air and water quality; and a process to improve water and air quality in an agribusiness context.
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Classification	Agriculture > Agricultural Resource Maintenance
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Resource Management Act 1991; and any subsequent amendments.
- 2 Definitions

Local is defined as a commonly recognised geographic region or area for example, Hawkes Bay, Napier, or Wairau Valley.

Short term refers to a time period of between 1 and 5 years, and *long term* refers to a time period of between 5 and 15 years.
- 3 Locally required levels for certain factors may be defined in the regional or district plans. Local regulations as well as individual goals should be considered in determining factors to monitor and key indicators to be used.

Outcomes and performance criteria

Outcome 1

Describe factors affecting water quality, methods of reducing their adverse effects, and national and regional standards for water quality in an agribusiness context.

Performance criteria

1.1 Describe factors that have a negative effect on water quality in terms of their cause, and the short and long-term effects of these factors.

Range factors may include but are not limited to – wastewater, contaminants, nitrogen leaching, phosphorus runoff, excess sedimentation;
evidence of three factors is required.

1.2 Describe national and regional standards for water quality in terms of local water sources.

Range water sources may include but are not limited to – rivers, streams, groundwater, lakes, wetlands;
evidence of two water sources is required.

1.3 Describe methods of improving water quality in terms of reducing adverse effects.

Range evidence of two methods is required.

Outcome 2

Describe factors affecting air quality, methods of reducing their adverse effects, and regional and national air quality standards in an agribusiness context.

Range factors include but are not limited to – smoke, spray, odour, emissions, noise.

Performance criteria

2.1 Describe the factors affecting air quality in terms of short and long-term localised effects.

2.2 Describe the national and regional standards for air quality in terms of local factors.

2.3 Describe the methods of improving air quality in terms of factors affecting local conditions.

Outcome 3

Describe a process to improve water and air quality.

Performance criteria

3.1 Describe the process for improving water and air quality in terms of methods used to monitor quality performance indicators.

Range methods include but are not limited to – use of observation, on site testing, laboratory testing of supplied samples.

- 3.2 Describe the results of water and air quality improvement processes within a region and their application of data generated.

Range evidence of an improvement process for both water and air quality is required.

Planned review date	31 December 2026
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Last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 April 2000	31 December 2023
Rollover	2	20 May 2008	31 December 2023
Review	3	24 February 2022	N/A

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>.

Comments on this unit standard

Please contact Muka Tangata – People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.