



What's happening with the Beneficial Use of Biosolids and other Organic Materials on Land?

Katie Beecroft, LEI for NZ LTC

Outline

- 1. Guideline evolution and shift in approach
- 2. Risk management framework
- 3. Path Forward
- 4. Review of science/technical advice
- 5. Targeted consultation
- 6. Draft to Final
- 7. Acknowledgements and thanks

Guidelines for Beneficial Use of Organic Materials on Productive Land Centre for Integrated Biowaste Research Environment **Ministry for Primary Industries** O wasteMINZ water **Volume One** GUIDE



2003

Guidelines for the safe application of **Biosolids** to land in **New Zealand**









nzwwa











Ministry for Primary Industries Manatū Ahu Matua



Volume One GUIDE

2023

2003

Guidelines for the safe application of **Biosolids** to land in **New Zealand**

Biosolids

nzwwa

PFL

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OPU









Ministry for Primary Industries Manatū Ahu Matua



2017

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Volume One GUIDE

2023

2003

Guidelines for the safe application of Biosolids to land in New Zealand

Biosolids



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• Biosolids

2017

- Household organic wastes (food waste, green waste)
- Paper and cardboard
- Organic wastes from secondary sector (e.g. meatworks wastes)
- Dead stock that do not pose a biosecurity risk
- Manures
- Sewage sludge
- Pulp and paper waste

 Biodegradable nappies and sanitary items 2023

2003

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2023

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Land Application of Biosolids



Material Grading

Nutrient and Contaminant Loading

Land Application of Biosolids



Material Grading

Grading based on pathogen reduction and VAR (A, B)
Grading based on contaminant concentration (1, 2)
Biosolids grading A1, A2, B1, B2

Nutrient and Contaminant Loading

Land Application of Biosolids



Material Grading

Grading based on pathogen reduction and VAR (A, B)
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Biosolids grading A1, A2, B1, B2

Nutrient and Contaminant Loading

- •Biosolids grade is basis for assessment
- Well understood risks to humans and the environmentWell understood mitigation























- Record keeping
- Health and safety



Original authors

Review

science

- Review contaminant limits
- Ensure safeguard environment and public health
- Fit for purpose
- Incorporate advances in understanding

Fertilizer





Draft for consultation

Targeted consultation



- Review contaminant limits
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• Starting April 2024





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Targeted consultation

Review

science

Review

science

Draft for

consultation

Publish

Targeted consultation

- Specific stakeholders
- Lots of interest from producers
- Ensure appropriate technologies are enabled
- In-line with international best practice
- Are YOU interested in contributing?
 - <u>katie@lei.co.nz</u>
 - <u>lesley.smith@waternz.org.nz</u>

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Review science co

Draft for consultation

Publish

Review

science

Targeted

consultation

Publish

• In June, to

- Regional Councils
- MfE, MPI, MOH
- Agricultural producers
- Organic waste producers and processors
- Water service managers
- WaterNZ members
- In July, to

Draft for

consultation

• Biosolids practitioners

• June/July 2024

- Update and release
- Multiple networks
- Direct to interested parties

Fertilizer

- Industry conference presentation
- Webinar

Review science



Draft for consultation

Publish

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Review Targeted science consultation

Draft for

consultation

Publish

• Aiming for September 2024

Whose Guideline?

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Whose Guideline?

Adopted by

- Producers and endusers
- Regional Councils
- National planning instruments
- Public health advisors
- Environmental practitioners

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• Iwi decision makers





Change in title, shift in approach



Change in title, shift in approach

Beneficial Use of Biosolids and other Organic Materials on Land

Technical and process advice update underway



Change in title, shift in approach

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Technical and process advice update underway

Draft to come that is easier to navigate

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We want to hear from

you

Guidelines Contributors

2023, Guidelines for Beneficial Use of Biosolids and other Organic Materials on Land

- Updates to the 2017 draft were co-ordinated by Lesley Smith of Water New Zealand and undertaken by the following people:
- Maria Gutierrez-Gines; University of Canterbury
- Katie Beecroft; Lowe Environmental Impact (LEI) and the New Zealand Land Treatment
- Collective (NZLTC)
- Sarah Burgess; Ministry of Health and Beca
- Bruce Coucher; Ministry for the Environment
- Rob Tinholt; Watercare and the Australian New Zealand Biosolids Partnership
- Peter van der Logt and Jefferson Fowles; Ministry for Primary Industries (MPI)
- Lesley Smith, Water New Zealand

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2017 Draft Guidelines for Beneficial Use of Organic Materials on Productive Land, Volumes one and two.

- The development of the draft was co-ordinated by Nick Wamsley of Water New Zealand and undertaken by the following people:
- George Fietje; Auckland Council and WasteMinz Organic Material Sector Group
- Jacqui Horswell; Centre for Integrated Biowaste Research (CIBR) and Environmental Science and Research Limited (ESR) (to October 2017)
- Maria Gutierrez-Gines; CIBR and ESR (from October 2017)
- Paul Bruce; Appropriate Technology for Living Association (ATLA)
- Katie Beecroft; Lowe Environmental Impact (LEI) and the New Zealand Land Treatment
- Collective (NZLTC)
- Nigel Clarke; Ministry for the Environment (MfE)
- John Harding; Ministry of Health (MoH)
- Andrew Pearson; Ministry for Primary Industry (MPI)
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