



Ministry for the  
**Environment**  
*Manatū Mō Te Taiao*

## Update of National Groundwater Quality Indicators: State and Trends December 2004-2013

### Title

Update of National Groundwater Quality Indicators: State and Trends December 2004-2013

### Publisher

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### Description

Raw data, and state and trend calculations for key groundwater quality indicators, including nitrate-nitrogen, ammoniacal-nitrogen, dissolved reactive phosphorus, dissolved iron, dissolved manganese, total dissolved solids content, and electrical conductivity. Statistics reported on include: - median and median absolute deviation - percentiles - trend magnitudes - statistical test p-values (from the Mann-Kendall trend test, Kruskal-Wallis test for seasonality, and sign-tests and Wilcoxon rank-sum tests for distribution differences). The following report and spreadsheets relate to the "Ground water quality" measures on the Environmental Indicators, Te taiao Aotearoa website: - Moreau M, Daughney C, 2015. Update of National Groundwater Quality Indicators: State and Trends December 2004-2013, GNS Science Consultancy Report 2015/16. 38 p. - Spreadsheet2\_NGMP\_results - Spreadsheet1\_NGMP\_metadata - raw\_data\_for trends\_NGMP.

### Source

GNS Science

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### Coverage

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### Language

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### Subject

nutrients, physical status