

BIBLIOGRAPHY

1. Alexander, R.B., A.H. Elliot, U. Shankar, and G.B. McBride 2002. Estimating the sources and transport of nutrients in the Waikato River Basin, New Zealand. *Water Resources Research* 38(12) 1286, doi 10.1029/2001WR000878, 2002.
2. Anderson, T. R., Groffman, P. M., & Walter, M. T. (2015). Using a soil topographic index to distribute denitrification fluxes across a northeastern headwater catchment. *Journal of Hydrology*, 522, 123–134. DOI:10.1016/j.jhydrol.2014.12.043
3. Blicher-Mathiesen, G., Estrup Andersen, H., Carstensen, J., Duus Børgesen, C., Hasler, B., Windol, J., 2014. Mapping Of Nitrogen Risk Areas. *Agriculture, Ecosystems and Environment* 195 (2014) 149–160.
4. Burow, K. R., Nolan, B. T., Rupert, M. G., & Dubrovsky, N. M., 2010. Nitrate in Groundwater of the United States, 1991–2003. *Environmental Science & Technology*, 44(13), 4988–4997. DOI:10.1021/es100546y
5. Conan, C., Bouraoui, F., Turpin, N., de Marsily, G. and Bidoglio, G. 2003. Modelling flow and nitrate fate at catchment scale in Brittany (France), *Journal of Environmental Quality*, 32(6), pp.2026-2032.
6. Close, M., 2015. Prediction of Subsurface Redox Status for Waikato Healthy Rivers - Plan for Change: Waiora He Rautaki Whakapaipai. Institute Of Environmental Science And Research Limited. Consultancy report prepared for Healthy Rivers Wai Ora Project.
7. Close, M. E., Abraham, P., Humphries, B., Lilburne, L., Cuthill, T., & Wilson, S., 2016. Predicting groundwater redox status on a regional scale using linear discriminant analysis. *Journal of Contaminant Hydrology*, 191, 19–32. DOI:10.1016/j.jconhyd.2016.04.006
8. Close, M. E., Wilson, S., Friedel, M., Abraham, P., Banasiak, L., 2018. Investigation of methods to predict groundwater redox status with variable amounts of available well data. Paper presented at the New Zealand Hydrological Society Annual Conference, December 2018. (Only have abstract)
9. Dymond, J.R., Ausseil, A.G., Parfitt, R.L., Herzig, A., McDowell, R.W., 2013. Nitrate and phosphorus leaching in New Zealand: a national perspective. *New Zealand Journal of Agricultural Research*, 56(1): 49–59.
10. Focazio, M. J., Reilly, T. E., Rupert, M. G., and Helsel, D. R., 2002. Assessing Ground-Water Vulnerability to Contamination: Providing Scientifically Defensible Information for Decision Makers. U.S. Geological Survey Circular 1224.
11. Freeze, R. A. and Cherry, J. A., 1979. *Groundwater*. Prentice Hall.
12. Hashemi, F., Olesen, J. E., Børgesen, C. D., Tornbjerg, H., Thodsen, H., & Dalgaard, T., 2018. Potential benefits of farm scale measures versus landscape measures for reducing nitrate loads in a Danish catchment. *Science of The Total Environment*, 637-638, 318–335. DOI:10.1016/j.scitotenv.2018.04.390
13. Hadfield, J., 2015. Groundwater field investigations over the 2014-15 summer in support of the Healthy Rivers Project. Waikato Regional Council Report prepared for the Healthy Rivers Wai Ora Project.
14. Hallberg, G. R., and Keeney, D.R., 1993. Nitrate. In Alley, W.M. (ed) 1993 *Regional Ground-water Quality*. Van Rostrand Reinhold. New York. 634pp. ISBN 0-442-00937-2.
15. Hudson, N., Elliott, S., Robinson, B. and Wadhwa, S., 2015. Review of historical land use and nitrogen leaching: Waikato and Waipa River catchments, Waikato Regional Council. Prepared for Healthy Rivers Wai Ora Project.
16. Judge, A., Ledgard, S., 2004. Nutrient Budgets for Waikato Dairy and Sheep/Beef Farms for 1997/98 and 2002/03. Report prepared by AgResearch Limited for Environment Waikato.
17. Judge, A., Ledgard, S., 2009. Nutrient Budgets for Waikato Dairy and Sheep, Beef and Deer Farms 1997/98 – 2006/07. Client report prepared by AgResearch Limited for Environment Waikato.

18. Korom, S.F., 1992. Natural denitrification in the saturated zone: a review. *Water Resources Research* 28 (6), 1657–1668.
19. McMahon, P.B. and Chapelle, F.H., 2008. Redox Processes and Water Quality of Selected Principal Aquifer Systems. *Ground Water*. Vol. 46, no. 2: 259–271.
20. Moreau, M., Riedi, M.A., Aurisch, K., 2016. Update Of National Groundwater Quality Indicators: State and Trends 2005 - 2014, GNS Science Consultancy Report 2015/104. 42 p.
21. Petch, T., 2015. Summary of ground water information for consideration by the Collaborative Stakeholder Group. Prepared by the Technical Leaders Group of the Healthy Rivers Wai Ora Project.
22. Rawlinson, Z.; Riedi, M., Schaller, K., and Bekele, M., 2015. Short term field investigation of groundwater resources in the Waipa River Catchment: January – April 2015, GNS Science Consultancy Report 2015/54. 195 p. Prepared for Healthy Rivers Wai Ora Project.
23. Rutherford, K., Palliser, C., Wadhwa, S., 2009. Nitrogen exports from the Lake Rotorua catchment - calibration of the ROTAN model. BOP08225. NIWA, Hamilton: 62.
24. Seitzinger, S. , Harrison, J. A., Böhlke, J. K., Bouwman, A. F., Lowrance, R., Peterson, B., Tobias, C. and Van Drecht, G., 2006. Denitrification across Landscapes and Waterscapes: A Synthesis. *Ecological Applications*, Vol. 16, No. 6, pp. 2064-2090. Wiley.
<http://www.jstor.org/stable/40061944>
25. Stenger, R., Barkle, G., Burgess, C., Wall, A., and Clague, J., 2008. Low nitrate contamination of shallow groundwater in spite of intensive dairying: the effect of reducing conditions in the vadose zone-aquifer continuum. *Journal of Hydrology (New Zealand)*. 47(1):1-24.
26. Stenger, R., Clague, J., Woodward, S., Moorhead, B., Wilson, S., Shokri, A., Wöhling, T., Canard, H., 2014. Root Zone Losses Are Just The Beginning. In: proceedings from workshop held by Fertilizer and Lime Research Centre, Massey University, Palmerston North, New Zealand. U.S. Geological Survey Fact Sheet 134-99, 1999. Tracing and Dating Young Ground Water.
27. Veroa, S.E., Healy, M.G., Henry, T., Creamera, R.E., Ibrahima, T.G., Richards, K./G.,
28. Mellandere, P.W, McDonalde, N.T., Fenton, Q., 2016. A framework for determining unsaturated zone water quality time lags at catchment scale. *Agriculture, Ecosystems and Environment* 236 (2017) 234–242.
29. Welch, H. L., Green, C. T. and Coupe, R. H. 2011. The fate and transport of nitrate in shallow groundwater in northwestern Mississippi, USA. *Hydrogeology Journal*. DOI:10.1007/s10040-011-0748-8.
30. White, P.A.; Tschritter, C.; Rawlinson, C.; Moreau, M; Dewes, K.; Edbrooke, S. 2015. Groundwater resource characterisation in the Waikato River catchment for the Healthy Rivers Project, GNS Science Consultancy Report 2015/95. 171 p. Prepared for Healthy Rivers Wai Ora Project.
31. Wilson, S. and Shokri, A., 2015. Estimation of lag time of water and nitrate flow through the vadose zone: Waikato and Waipa River Catchments. Report 1058-9-R1. Consultancy report by Lincoln Agritech Ltd prepared for Healthy Rivers Wai Ora Project.
32. Woodward, S.J., Stenger, R. and Bidwell, V.J. 2013. Dynamic analysis of stream flow and water chemistry to infer subsurface water and nitrate fluxes in a lowland dairy catchment. *Journal of Hydrology*, 505, pp.299-311.
33. Woodward, S.J., Wöhling, T. and Stenger, R. 2016. Uncertainty in the modelling of spatial and temporal patterns of shallow groundwater flow paths: The role of geological and hydrological site information. *Journal of Hydrology*, 534, pp.680-694
34. Stenger, R., Unravelling sub-catchment scale nitrogen delivery to waterways: Critical Pathways Programme (CPP)
35. Valkama E, Usva K, Saarinen M, Uusin Kamppa, J. 2018. A Meta analysis on nitrogen retention by buffer zones. *Journal of Environmental Quality*.