

## Contents

ROBINS, N. S.: Recharge: the key to groundwater pollution and aquifer vulnerability	1
FOSTER, S. S. D.: Groundwater recharge and pollution vulnerability of British aquifers: a critical overview	7
GREEN, A. R., FEAST, N. A., HISCOCK, K. M. & DENNIS, P. F.: Identification of the source and fate of nitrate contamination of the Jersey bedrock aquifer using stable nitrogen isotopes	23
SEARS, R.: The British Nuclear Fuels Drigg low-level waste site characterization programme	37
MÜHLHERR, I. H., HISCOCK, K. M., FEAST N. A. & DENNIS, P. F.: Changes in groundwater chemistry due to rising groundwater levels in the London Basin between 1963 and 1994	47
GABRIEL, W. J., MASON, J. M. & GOTTLER, P. F.: Groundwater resource development and protection considerations for the Ogallala Formation in Ogallala, Nebraska	63
ADAMS, B. & MACDONALD, A. M.: Aquifer susceptibility to side-effects of groundwater exploitation	71
MCDONALD, R. J., RUSSELL, N. R. W., MILIORIZOSIS, M. & THOMAS, J. W.: A geophysical investigation of saline intrusion and geological structure beneath areas of tidal coastal wetland at Langstone Harbour, Hampshire, UK	77
MACDONALD, A. M., BREWERTON, L. J. & ALLEN, D. J.: Evidence for rapid groundwater flow and karst-type behaviour in the Chalk of southern England	95
SIMMERS, I.: Groundwater recharge: an overview of estimation 'problems' and recent developments	107
JONES, H. K. & COOPER, J. D.: Water transport through the unsaturated zone of the Middle Chalk: a case study from Fleam Dyke lysimeter	117
SOLEY, R. W. N. & HEATHCOTE, J. A.: Recharge through the drift: a study of contrasting Chalk catchments near Redgrave Fen, UK	129
BLACKIE, J. R., HOUGHTON-CARR, H. A., MCCARTNEY, M. P. & MOORES, J. R.: Estimation of groundwater recharge on Jersey	143
CHILTON, P. J., STUART, M. E., ESCOLERO, O., MARKS, R. J., GONZÁLES, A. & MILNE, C. J.: Groundwater recharge and pollution transport beneath wastewater irrigation: the case of Leon, Mexico	153
ALDERWISH, A. M. & DOTTRIDGE, J.: Recharge components in a semi-arid area: the Sana'a Basin, Yemen	169
DALY, D. & WARREN, W. P.: Mapping groundwater vulnerability: the Irish perspective	179
PALMER, R. C. & LEWIS, M. A.: Assessment of groundwater vulnerability in England and Wales	191
BURGESS, D. B. & FLETCHER, S. W.: Methods used to delineate groundwater source protection zones in England and Wales	199
MATHER, J. D., HALLIDAY, D. & JOSEPH, J. B.: Is all groundwater worth protecting? The example of the Kellaways Sand	211
Index	219