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GeoEnvironmental Services
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|  | Training |
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REPORTS AND PUBLICATIONS by David Banks.

Publications in refereed journals or conference proceedings 1990-1999

1990

Banks, D. 1990. A case study of screen failure and borehole rehabilitation in the Lower Greensand aquifer of southern England. pp 244-260 In "[Water wells: monitoring, maintenance and rehabilitation](#)", edited by P.Howsam, E. & F.N.Spon, Cambridge, U.K. 1990.

1991

Misund, A., Banks, D., Morland, G., & Brunstad, H. 1991. Norwegian national survey of hazardous waste in landfills and contaminated ground. **Waste Management Today (News Journal)**, Vol.4, Nr.8, Aug. 1991, pp.30-35.

Banks, D. 1991. [Innkapsling og korrosjon i borebrønner i løsmasser - et forsømt biologisk problem](#) [Encrustation and corrosion in boreholes in superficial deposits, a neglected biological problem - in Norwegian]. **Vann**, No.2, 1991, pp.175-179.

Misund, A., Banks, D., Morland, G. & Brunstad, H. 1991. [Nasjonal kartlegging av spesialavfall i deponier og forurenset grunn](#) [National survey of hazardous waste in landfills and contaminated ground - in Norwegian], **Vann**, No.3, 1991, pp.335-346.

1992

Banks, D., Solbjørg, M.-L. & Rohr-Torp, E. 1992. Permeability of fracture zones in a Precambrian granite. **Quarterly Journal of Engineering Geology**, 25, 377-388. doi: [10.1144/GSL.QJEG.1992.025.04.12](https://doi.org/10.1144/GSL.QJEG.1992.025.04.12)

Banks, D. 1992. [Grunnvannbrønner. Kontroll, vedlikehold, rehabilitering](#) [Groundwater wells: monitoring, maintenance rehabilitation - in Norwegian]. GiN veileder (Groundwater in Norway Guide) No. 13, **Nor. geol. unders. Skrifter** 108, 19 pp.

Banks, D., Rohr-Torp, E. & Skarphagen, H. 1992. [An integrated study of a Precambrian granite aquifer, Hvaler, Southeastern Norway](#). **Nor. geol. unders. Bull.** 422, 47-66.

Storrø, G. & Banks, D. 1992. [Oil leakages on the Øvre Romerike aquifer, Southern Norway](#). **Nor. geol. unders. Bull.** 422, 67-81.

Banks, D. 1992. [Optimal orientation of water-supply boreholes in fractured aquifers](#). **Ground Water** 30, 895-900. doi: [10.1111/j.1745-6584.1992.tb01572.x](https://doi.org/10.1111/j.1745-6584.1992.tb01572.x)

Banks, D. 1992. Estimation of apparent transmissivity from capacity-testing of boreholes in bedrock aquifers. **Applied Hydrogeology**, 4/92, 5-19. doi: [10.1007/PL00021539](https://doi.org/10.1007/PL00021539)

1993

Banks, D., Cosgrove, T., Harker, D., Howsam, P. & Thatcher, J.P. 1993. Acidisation: borehole development and rehabilitation. **Quarterly Journal of Engineering Geology** 26, 109-125. doi: [10.1144/GSL.QJEG.1993.026.02.03](https://doi.org/10.1144/GSL.QJEG.1993.026.02.03)

Banks, D., Rohr-Torp, E. & Skarphagen, H. 1993. Groundwater chemistry in a Precambrian granite island aquifer, Hvaler, Southeastern Norway. In Banks, S.B. & Banks, D. (eds.) "Hydrogeology of Hard Rocks", **Mem. 24th Congress of International Association of Hydrogeologists, 28th June- 2nd July 1993, Ås (Oslo), Norway**, 395-406.

Banks, D., Rohr-Torp, E. & Skarphagen, H. 1993/94. Groundwater resources in hard rock; experiences from the Hvaler study, Southeastern Norway. In Banks, S.B. & Banks, D. (eds.) "Hydrogeology of Hard Rocks", **Mem. 24th Congress of International Association of Hydrogeologists, 28th June- 2nd July 1993, Ås (Oslo), Norway**, 39-51. Reprinted in **Applied Hydrogeology**, 1994 / No.2, 33-42. doi: [10.1007/s100400050040](https://doi.org/10.1007/s100400050040)

Banks, S.B. & Banks, D. 1993. Groundwater microbiology in Norwegian hard-rock aquifers. In Banks, S.B. & Banks, D. (eds.) "Hydrogeology of Hard Rocks", **Mem. 24th Congress of International Association of Hydrogeologists, 28th June- 2nd July 1993, Ås (Oslo), Norway**, 407-418.

Ellingsen, K. & Banks, D. 1993. An introduction to groundwater in Norway - promotion and reconnaissance mapping. In Banks, S.B. & Banks, D. (eds.) "Hydrogeology of Hard Rocks", Mem. 24th Congress of International Association of Hydrogeologists, 28th June- 2nd July 1993, Ås (Oslo), Norway, 1031-1041.

Banks, D. & Misund, A. 1993. [Kriterier og krav for deponering i løsmasser](#) [Criteria for landfilling in Quaternary sediments - in Norwegian]. *Vann*, Vol.28, No.3, 322-342.

Banks, D. 1993. [Den norske deponiløsningen for lav- og middelsaktivt radioaktivt avfall](#) [The Norwegian repository for low- and middle-level radioactive waste - in Norwegian]. *Vann*, Vol.28, No.3, 343-364.

1994

Odling, N., Banks, D. & Misund, A. 1994. [A 3-dimensional, time-variant, numerical groundwater flow model of the Øvre Romerike aquifer, Southern Norway](#). *Nor. Geol. Unders. Bull.* 426, 77-94.

Banks, D. 1994. The abandonment of the Killingdal sulphide mine, Norway: a saga of acid mine drainage and radioactive waste disposal. *Mine Water and the Environment*, 13, 35-48. Available at: http://www.mwen.info/bibliographie/13_34_035-047.pdf

1995

Banks, D., Davies, C. & Davies, W. 1995. The Chalk as a karstic aquifer: the evidence from a tracer test at Stanford Dingley, Berkshire. *Quarterly Journal of Engineering Geology*, 28, S31-S38. doi: [10.1144/GSL.QJEGH.1995.028.S1.03](https://doi.org/10.1144/GSL.QJEGH.1995.028.S1.03)

Banks, D., Reimann, C., Røyset, O., Skarphagen, H. & Sæther, O. 1995. Natural concentrations of major and trace elements in some Norwegian bedrock groundwaters. *Applied Geochemistry* 10, 1-16. doi:[10.1016/0883-2927\(94\)00046-9](https://doi.org/10.1016/0883-2927(94)00046-9)

Banks, D., Røyset, O., Strand, T. & Skarphagen, H. 1995. Radioelement (U, Th, Rn) concentrations in Norwegian bedrock groundwaters. *Environmental Geology* 25, 165-180. doi: [10.1007/BF00768546](https://doi.org/10.1007/BF00768546)

Misund, A., Banks, D. & de Caritat, P. 1995. [Hydrogeological investigation of water for export from Nordland County, Norway](#). *Nor. Geol. Under. Bull.* 427, 83-85.

1996

Banks, D., Odling, N., Skarphagen, H. & Rohr-Torp, E., 1996. Permeability and stress in crystalline rocks. *Terra Nova* 8, 228-235. doi: [10.1111/j.1365-3121.1996.tb00751.x](https://doi.org/10.1111/j.1365-3121.1996.tb00751.x)

Banks, D., Younger, P.L. & Dumbleton, S. 1996. The historical use of mine-drainage and pyrite- oxidation waters in central and eastern England, United Kingdom. *Hydrogeology Journal* Vol. 4, No. 4, 55-68. doi: [10.1007/s100400050091](https://doi.org/10.1007/s100400050091)

1997

Banks, D. & Nash, H. 1997. The rise, fall and potential renaissance of the English spa town. In Chilton, J. (ed.) "Groundwater in the Urban Environment, Vol. 1: Problems, Processes and Management, Balkema, 291-296.

Banks, D. 1997. The spas of England. In Albu, M., Banks, D. & Nash, H. (eds.), "[Mineral and Thermal Groundwater Resources](#)". Chapman & Hall, 235-280. doi: [10.1007/978-94-011-5846-6_10](https://doi.org/10.1007/978-94-011-5846-6_10)

Banks, D., Younger, P.L., Arnesen, R.-T., Iversen, E.R. & Banks, S.B. 1997. Mine water chemistry: the good, the bad and the ugly. *Environmental Geology* 32, 157-174. doi: [10.1007/s002540050204](https://doi.org/10.1007/s002540050204)

Waters, A. & Banks, D. 1997. The Chalk as a karstified aquifer: closed circuit television images of macrobiota. *Quarterly Journal of Engineering Geology* 30, 143-146. doi: [10.1144/GSL.QJEGH.1997.030.P2.05](https://doi.org/10.1144/GSL.QJEGH.1997.030.P2.05)

Banks, D. 1997. Hydrogeochemistry of Millstone Grit and Coal Measures groundwaters, south Yorkshire and north Derbyshire, UK. *Quarterly Journal of Engineering Geology* 30, 237-256. doi: [10.1144/GSL.QJEG.1997.030.P3.06](https://doi.org/10.1144/GSL.QJEG.1997.030.P3.06)

Banks, D., Burke, S.P. & Gray, C.G. 1997. Hydrogeochemistry of coal mine drainage and other ferruginous waters in north Derbyshire and south Yorkshire, UK. *Quarterly Journal of Engineering Geology* 30, 257-280. doi: [10.1144/GSL.QJEG.1997.030.P3.07](https://doi.org/10.1144/GSL.QJEG.1997.030.P3.07)

Banks, D., Baulins, L., Laxis, A., Sichovs, G. & Misund, A. 1997. How to map hydrocarbon contamination of groundwater without analysing for organics. In Fonnum, F. & Paukstys, B. (eds.), Proc. NATO Advanced Research Workshop "Environmental Contamination and Remediation Practices at Former and Present Military Bases", reference ENVIR.ARW970365.

Morland, G., Reimann, C., Strand, T., Skarphagen, H., Banks, D., Bjorvatn, K., Hall, G.M. & Siewers, U. 1997. [The hydrogeochemistry of Norwegian bedrock groundwater - selected parameters \(pH, F-, Rn, U, Th, B, Na, Ca\) in samples from Vestfold and Hordaland, Norway](#). *Norges geologiske undersøkelse Bulletin* 432, 103-118.

Nilsen, R. & Banks, D. 1997. The interaction of water and dilute sulphuric acid with ore and rock material from selected Norwegian sulphide mines. *Norges geologiske undersøkelse Bulletin* 433, 58-59.

Banks, D., Sletten, R.S., Haldorsen, S., Dale, B., Heim, M., Swensen, B. & Siewers, U. 1997. The world's northernmost thermal springs? Trollkildene and Jotenkildene, Bockfjord, Svalbard. *Norges geologiske undersøkelse Bulletin* 433, 60-61.

Parnachev, V.P., Banks, D. & Berezovsky, A.Y. 1997. The anionic composition of groundwaters in extensional tectonic environments: the Shira Region, Khakassia, southern Siberia. **Norges geologiske undersøkelse Bulletin** 433, 62-63.

1998

Morland, G., Strand, T., Furuhaug, L., Skarphagen, H. & Banks, D. 1998. Radon in Quaternary aquifers related to underlying bedrock geology. **Ground Water**, 36/1, 143-146. doi: [10.1111/j.1745-6584.1998.tb01074.x](https://doi.org/10.1111/j.1745-6584.1998.tb01074.x)

Banks, D. 1998. Predicting the probability distribution of yield from multiple boreholes in crystalline bedrock. **Ground Water**, 36/2, 269-274. doi: [10.1111/j.1745-6584.1998.tb01092.x](https://doi.org/10.1111/j.1745-6584.1998.tb01092.x)

Banks, D., Reimann, C., & Skarphagen, H. 1998. The comparative hydrochemistry of two granitic island aquifers: the Isles of Scilly, U.K. and the Hvaler Islands, Norway. **Science of the Total Environment**, 209, 169-183. doi:[10.1016/S0048-9697\(98\)80108-3](https://doi.org/10.1016/S0048-9697(98)80108-3)

Banks, D., Nesbit, N.L., Firth, T. & Power, S. 1998. Contaminant migration from disposal of acid tar wastes in fractured Coal Measures strata, South Derbyshire. In: Mather, J.D., Banks, D., Dumbleton, S. & Fernor, M. (eds.), "Groundwater Contaminants and their Migration", **Geological Society Special Publication** 128, 283-311. doi: [10.1144/GSL.SP.1998.128.01.21](https://doi.org/10.1144/GSL.SP.1998.128.01.21)

Banks, D. 1998. Migration of dissolved petroleum hydrocarbons, MTBE and chlorinated solvents in a karstified limestone aquifer, Stamford, U.K. In: Mather, J.D., Banks, D., Dumbleton, S. & Fernor, M. (eds.), "Groundwater Contaminants and their Migration", **Geological Society Special Publication** 128, 123-145. doi: [10.1144/GSL.SP.1998.128.01.11](https://doi.org/10.1144/GSL.SP.1998.128.01.11)

Banks, D., Sletten, R.S., Haldorsen, S., Dale, B., Heim, M. & Swensen, B. 1998. The thermal springs of Bockfjord, Svalbard: Occurrence and major ion chemistry. **Geothermics**, 27, 445-467. doi: [10.1016/S0375-6505\(98\)00022-4](https://doi.org/10.1016/S0375-6505(98)00022-4)

Banks, D., Makarenko, N.A., Bukatin, I.V. & Berezovsky, A.Y. 1998. Hidrogeokhimiicheskie ossobennosti podzemnikh vod Shirinskovo raiona (Respublika Khakassia) [*Hydrogeochemical characteristics of groundwaters of the Shira region, Republic of Khakassia - in Russian*]. In: Aktualnyie voprosi geologii i geografii Sibiri: Tom 1: Obshaya i regionalnaya geologiya. Stratigrafiya. Paleontologiya. Problemi i zadachi geologicheskovo obrazovannie [*Current issues of geology and geography of Siberia. Vol. 1: General and regional geology. Stratigraphy. Palaeontology. Problems and aims of geological education - in Russian*]. Proc. Conference 1-4th April 1998, Tomsk State University, p. 36-38.

Banks, D., Baulins, L., Lacis, A., Sichovs, G. & Misund, A. 1998. How to map hydrocarbon contamination without analysing for organics (A study of oil contamination of soil and groundwater at Viestura Prospekts former military fuel storage depot, Riga, Latvia). In Fonnum, F. et al. (ed.), "Environmental Contamination and Remediation Practices at Former and Present Military Bases", Kluwer, 181-196. doi: [10.1007/978-94-011-5304-1_14](https://doi.org/10.1007/978-94-011-5304-1_14)

Basberg, L., Banks, D. & Sæther, O.M. 1998. Redox processes in groundwater impacted by landfill leachate. **Aquatic Geochemistry**, 4, 253-272. doi: [10.1023/A:1009623205558](https://doi.org/10.1023/A:1009623205558)

Banks, D., Frengstad, B., Midtgård, Aa.K., Krog, J.R. & Strand, T. 1998. The Chemistry of Norwegian Groundwaters: I. The Distribution of Radon, Major and Minor Elements in 1604 Crystalline Bedrock Groundwaters. **The Science of the Total Environment**, 222, 71-91. doi: [10.1016/S0048-9697\(98\)00291-5](https://doi.org/10.1016/S0048-9697(98)00291-5)

Banks, D., Midtgård, Aa., K., Frengstad, B., Krog, J.R. & Strand, T. 1998. The chemistry of Norwegian groundwaters. II. The chemistry of 72 groundwaters from Quaternary sedimentary aquifers. **The Science of the Total Environment**, 222, 93-105. doi: [10.1016/S0048-9697\(98\)00292-7](https://doi.org/10.1016/S0048-9697(98)00292-7)

Midtgård, Aa., K., Frengstad, B., Banks, D., Krog, J.R., Strand, T., Siewers, U. & Lind, B. 1998. Drinking water from crystalline bedrock aquifers - not just H₂O. **Minerological Bulletin December 1998**, 9-16.

Banks, D. 1998. The hydrogeochemistry of granitic groundwaters - illustrated by a comparison from Khakassia (Shira region), Norway (Oslo region) and the United Kingdom (Scilly Isles). **Proceedings of the 2. Mezhdunarodnaya nauchnaya konferentsiya studentov i aspirantov i molodikh uchenikh im. akademika M.A. Usova, 'Problemi Geologii i Osvoeniya Nedr' [2nd International 'Academician M.A.Usov' Conference of Students, Aspirants and Young Scientists 'Problems of Geology and the Exploitation of the Earth's Interior']**. Tomsk Polytechnic University, 6-11 April 1998. pp. 112-113, Volume 1, Tomsk Izd-vo NTL (Nauchno-Tekhnicheskoi Literaturi), Tomsk 1998

1999

Banks, D., Hall, G.M., Reimann, C. & Siewers, U. 1999. Distribution of rare earth elements in crystalline bedrock groundwaters: Oslo and Bergen regions, Norway. **Applied Geochemistry**, 14, 27-39. doi: [10.1016/S0883-2927\(98\)00037-7](https://doi.org/10.1016/S0883-2927(98)00037-7)

Reimann, C., Banks, D., Bogatyrev, I., de Caritat, P., Kashulina, G. & Niskavaara, H. 1999. Lake water geochemistry on the western Kola Peninsula, north-west Russia. **Applied Geochemistry**, 14, 787-805. doi: [10.1016/S0883-2927\(99\)00006-2](https://doi.org/10.1016/S0883-2927(99)00006-2)

Banks, D. & Less, C. 1999. Chapter 3.3 "Well Construction" in Lloyd, J.W. (ed.) "Water Resources of Hard Rock Aquifers in Arid and Semi-Arid Zones". **UNESCO Studies and Reports in Hydrology** 58, 103-127. UNESCO, Paris. Available from http://hydrologie.org/BIB/Publ_UNESCO/SR_058_1999.pdf

Reimann, C., Siewers, U., Skarphagen, H. & Banks, D. 1999. Influence of filtration on concentrations of 62 elements analysed on crystalline bedrock groundwater samples by ICP-MS. **The Science of the Total Environment**, 234, 155-173. doi: [10.1016/S0048-9697\(99\)00165-5](https://doi.org/10.1016/S0048-9697(99)00165-5)

- Reimann, C., Siewers, U., Skarphagen, H. & Banks, D. 1999.** Do bottle type and acid washing influence trace element analyses by ICP-MS on water samples ? - A test covering 62 elements and four bottle types (high density polyethene (HDPE), polypropene (PP), fluorinated ethene propene copolymer (FEP) and perfluoralkoxy polymer (PFA)). **The Science of the Total Environment**, 239, 111-130. doi: [10.1016/S0048-9697\(99\)00302-2](https://doi.org/10.1016/S0048-9697(99)00302-2)
- Frengstad, B., Banks, D., Midtgård Skrede, Aa. K. & Siewers, U. 1999.** Distribution of selected trace elements (As, Be, Bi, Cd, Cr, Hg, Ni, Pb, Th, Tl, U, W) in 476 Norwegian crystalline bedrock groundwaters. *In* Fendekova, M. & Fendek, M. (eds.) "Hydrogeology and Land Use Management", **Proc. XXXIst Congress of the International Association of Hydrogeologists**. Bratislava, Slovakia. 6th -10th September 1999, 43-48.
- Banks, S.B. & Banks, D. 1999.** Abandoned mines drainage: impact assessment and mitigation of discharges from coal mines in the UK. **Proceedings of the 2nd British Geotechnical Society Geoenvironmental Engineering Conference**, 13th -15th September 1999, Institution of Civil Engineers, London.
- Banks, D., Siewers, U., Sletten, R.S., Haldorsen, S., Dale, B., Heim, M. & Swensen, B. 1999.** The thermal springs of Bockfjorden, Svalbard: II: selected aspects of trace element hydrochemistry. **Geothermics**, 28, 713-728. doi: [10.1016/S0375-6505\(99\)00019-X](https://doi.org/10.1016/S0375-6505(99)00019-X)
- Parnachev, V.P., Banks, D., Berezovsky, A.Y. & Garbe-Schönberg, D. 1999.** Hydrochemical evolution of Na-SO₄-Cl groundwaters in a cold, semi-arid region of southern Siberia. **Hydrogeology Journal**, 7, 546-560. doi: [10.1007/s100400050228](https://doi.org/10.1007/s100400050228)

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