

## List of Publications 17-12-2023

### Contributions to international refereed journals, Web of Science

(146) Mosthaf, K.; Rosenberg, L., Broholm, M.M.; Fjordbøge, A.S.; Lilbæk, G., Christensen, A.G.; Bjerg, P.L. (2024). Quantification of contaminant mass discharge from a point source in an aquitard/aquifer system based on vertical concentration profiles and 3D modeling, *Journal of Contaminant Hydrology*, 260, 104281.

(145) Frederiksen, M., Mosthaf, K., Bøllingtoft, A. B., Albers, C. N., Christensen, B. S. B., Christophersen, M., Tuxen, N., Tüchsen, P., Clausen, L., Janniche, G. A. S., Bjerg, P. L. (2023). Predicting the impact and duration of persistent and mobile organic compounds in groundwater systems using a contaminant mass discharge approach. *Journal of Environmental Management*. 348, 119199.

(144) Frederiksen, M., Albers, C.N., Mosthaf, K., Janniche, G.A.S., Tuxen, N., Kern-Jespersen, H., Bollmann, U.E., Christophersen, M., Bjerg, P.L. (2023). Long-term leaching through clayey till of N,N-dimethylsulfamide, a Persistent and Mobile Organic Compound (PMOC). *Journal of Contaminant Hydrology*, 257, 104218.

(143) Jensen, B.B.; Rosenberg, L.; Tsitonaki, A.; Tuxen, N.; Bjerg, P.L.; Nielsen, L.; Hansen, T.M.; Looms, M.C. (2023). High-resolution geological information from crosshole ground penetrating radar in clayey tills. *Groundwater monitoring and remediation*, 10111/GWMMR.12588.

(142) Köppl, C.J.; McKnight, U.S.; Lemaire, G.G.; Nørregaard, A.M.; Thiim, T.C.; Bjerg, P.L.; Bauer-Gottwein, P.; García, M. (2023). Tracer concentration mapping in a stream with hyperspectral images from unoccupied aerial systems. *Advances in Water Resources*, 182, 104567.

(141) Thalund-Hansen, R.; Trolborg, M., Levy, L.; Christians Thalund-Hansen, R.; Trolborg, M., Levy, L.; Christiansen, A.V.; Bording, T.S.; Bjerg, P.L. (2023). Assessing contaminant mass discharge uncertainty with application of hydraulic conductivities from

geolectrical cross-borehole induced polarization and other methods, *Water Resources Research*, doi: 10.1029/2022WR034360.

(140) Rosenberg, L.; Mosthaf, K.; Broholm, M.M. Fjordbøge, A.; Tuxen, N.; Kern-Jespersen, I.H.; Rønde, V.; Bjerg, P.L. (2023). A novel concept for estimating the contaminant mass discharge of chlorinated ethenes emanating from clay till sites, *Journal of Contaminant Hydrology*, 252, 104121.

(139) Lemaire, G.G.; Höss, S.; Kramer, S.F.; Zhou, Y. Rasmussen, J.J.; Traunspurger W.; Bjerg, P.L., McKnight, U.S. (2022). Land use contribution to spatiotemporal stream water and ecological quality: Implications for water resources management in peri-urban catchments. *Ecological Indicators*, 143, 109360

(138) Lévy, L.; Thalund-Hansen, R.; Bording, T.; Fiandaca, G.; Christiansen, A.V. Rügge, K. Tuxen, N.; Bjerg, P.L. (2022). Quantifying Reagent Spreading by Cross-Borehole Electrical Tomography to Assess Performance of Groundwater Remediation. *Water Resources Research*, 58, 9, WR032218.

(137) Rosenberg, L. ; Broholm, M.M. ; Tuxen, N; Kern-Jespersen, I.H. Lilbæk, G.. Bjerg, P.L. (2022). Vertical hydraulic gradient estimation in clay till using MiHPT advanced direct-push technology. *Groundwater monitoring and remediation*, 42, 29-37.

(136) Bandini, F.; Lüthib, B.; Salvador Peña-Harob, S.; Borsta, C.; Liua, J.; Karagkiolidoua, S.; Huc, X.; Lemaire, G.G., Bjerg, P.L. Bauer-Gottwein, P. (2021). A drone-borne method to jointly estimate discharge and Manning's roughness of natural streams. *Water Resources Research*. 57, e2020WR028266.

(135) Lemaire, G.G.; Carnohan, S.A.; Grand, S.; Mazel, V.; Bjerg, P.L.; McKnight, U.S. (2022). Data-Driven System Dynamics Model for Simulating Water Quantity and Quality in Peri-Urban Streams. *Water*, 13, 3002.

(134) Skjolding L. M.; Jørgensen L. V. ; McKnight U.; Bjerg, P.L.; Bauer-Gottwein P. ; Baun A.(2021) Assessing the aquatic toxicity and environmental safety of tracer compounds Rhodamine B and Rhodamine WT. *Water Research*. 197, 117109.

- (133)** Li, T.; Liu, Y.; Bjerg, P.L. (2021). Prioritization of potentially contaminated sites: A comparison between the application of a solute transport model and a risk-screening method in China. *Journal of Environmental Management*, 281, 111765.
- (132)** Ottosen, C.B.; Bjerg, P.L.; Hunkeler, D.; Zimmermann, J.; Tuxen, N.; Harrekilde, D.; Bennedsen, L.; Leonard, G.; Brabæk, L.; Kristensen, I.L.; Broholm, M.M. (2021) Degradation of chlorinated ethenes after field scale injection of activated carbon and bioamendments: Application of isotopic and microbial analyses. *Journal of Contaminant Hydrology*. 240, 103794.
- (131)** Ottosen, C.B.; Skou, M.; Sammal, E.; Zimmermann, J.; Hunkeler, D.; Bjerg, P.L.; Broholm, M.M. (2021). Dataset for laboratory treatability experiment with activated carbon and bioamendments to enhance biodegradation of chlorinated ethenes. Data in Brief, 38,107291.
- (130)** Balbarini, N.; Frederiksen, M.; Rønde, V.; Møller, I.B.; Sonne, A.T.; McKnight, U.S.; Pedersen, J.K.; Binning, P.J.; Bjerg, P.L. (2020). Assessing the Transport of Pharmaceutical Compounds in a Layered Aquifer Discharging to a Stream. *Groundwater*, 58, 208-223.
- (129)** Cremeans, Mackenzie; Devlin, J.; McKnight, U. S.; Bjerg, P. L. (2020). A Comparison of Tools and Methods for Estimating Groundwater-Surface Water Exchange. *Groundwater monitoring and remediation*. 40, 24-34.
- (128)** Gejl, R.N.; Bjerg, P.L.; Henriksen, H.J.; Bitsch, K.; Troldborg, L.; Schullehner, J.; Rasmussen, J.; Rygaard, M. (2020). Relating wellfield drawdown and water quality to aquifer sustainability – a method for assessing safe groundwater abstraction. *Ecological Indicators*. 110, 105782.
- (127)** Lemaire, G.G.; McKnight, U.S.; Schulz, H.; Roost, S.; Bjerg, P.L. (2020). Evidence of spatio-temporal variations in contaminants discharging to a peri-urban stream. *Groundwater Monitoring & Remediation*. 40, 40-51.
- (126)** Ottosen, C.B., Rønde, V., McKnight, U.S., Annable, M.D., Broholm, M.B., Devlin, J.F., Bjerg, P.L. (2020). Natural attenuation of a chlorinated ethene plume discharging to a stream: Integrated assessment of hydrogeological, chemical and microbial interactions. *Water Research*. 186, 116332.
- (125)** Gejl, R.N., Rygaard, M., Henriksen, H.J., Rasmussen, J., Bjerg, P.L. (2019). Understanding the impacts of groundwater abstraction through long-term trends in water quality. *Water Research*. 156, 241-251.
- (124)** Høyer, A.-S.; Klint, K.E.S.; Maurya, P.; Christiansen, A.; Balbarini, N.; Bjerg, P.L.; Hansen, T.B.; Møller, I. L. (2019). Development of a high-resolution 3D geological model for landfill leachate risk assessment. *Engineering Geology*. 249, 45-59.
- (123)** Locatelli, L.; Binning, P.J.; Sanchez-Vila, X.; Vila; Søndergaard, G.L.; Rosenberg, L.; Bjerg, P.L. (2019). Risk assessment models of groundwater pollution from contaminated sites. *Journal of Contaminant Hydrology*. 221, 35–49.
- (122)** Ottosen, C.B.; Murray, A.M.; Broholm, M.M.; Bjerg, P.L. (2019). In Situ Quantification of Degradation Is Needed for Reliable Risk Assessments and Site-Specific Monitored Natural Attenuation. *Environmental Science and Technology*. 51, 1-3.
- (121)** Balbarini, N.; Rønde, V.; Maurya, P.; Fiandaca, G.; Møller, I.; Klint, K.E.; Christiansen, A.V.; Philip J. Binning, P.J.; Bjerg, P.L. (2018). Geophysics based contaminant mass discharge quantification downgradient of a landfill and a former pharmaceutical factory. *Water Resources Research*. 54, 8, 5436-5456.
- (120)** Brauns, B.; Jakobsen, R.; Song, X.; Bjerg, P.L. (2018). Pesticide use in the wheat-maize double cropping systems of the North China Plain: Assessment, field study, and implications. *Science of the Total Environment*. 616, 307-316.
- (119)** Cremeans, Mackenzie; Devlin, J.; McKnight, U. S.; Bjerg, P. L. (2018). Application of New Point Measurement Device to Quantify Groundwater-Surface Water Interactions. *Journal of Contaminant Hydrology*. 211, 85-93.
- (118)** Fiandaca, G.; Maurya P.K.; Balbarini, N.; Hördt, A., Christiansen, A. V.; Foged, N.; Bjerg, P. L.; Auken, E. (2018). Hydraulic

permeability estimation directly from logging-while-drilling Induced Polarization data. *Water Resources Research*. 54, 2851–2870.

**(117)** Gejl, R.N. ; Bjerg, P.L.; Henriksen, H.J.; Hauschild, M.Z.; Rasmussen, J.; Rygaard, M. (2018). Integrating groundwater stress in life-cycle assessments - an evaluation of water abstraction. *Journal of Environmental Management*. 222, 112-121.

**(116)** Maurya, P.K.; Balbarini, N.; Balling, I.; Rønde, V.; Christiansen, A.V.; Bjerg, P.L.; Auken, E.; Fiandaca, G. (2018) Subsurface imaging of water electrical conductivity, hydraulic permeability and lithology at contaminated sites by induced polarization, *Geophysical Journal International*. 213, 2, 770–785.

**(115)** Mosthaf, Klaus; Brauns, Bentje; Fjordbøge, Annika S.; Rohde, Magnus M.; Kerrn-Jespersen, Henriette; Bjerg, Poul L.; Binning, Philip J.; Broholm, Mette M. (2018). Conceptualization of flow and transport in a limestone aquifer by multiple dedicated hydraulic and tracer tests. *Journal of Hydrology*. 61, 532-546.

**(114)** Ottosen, C.B.; Rønde, V.; Trapp, S.; Bjerg, P.L.; Broholm, M.M. (2018) Phytoscreening for vinyl chloride in groundwater discharging to a stream *Groundwater Monitoring and Remediation*. 38, 66-74.

**(113)** Sonne; A.T.; Rasmussen, J.J. Höss, S.; Traunspurger, W.; Bjerg, P.L.; McKnight, U.S. (2018). Linking ecological health to co-occurring organic and inorganic chemical stressors in a groundwater-fed stream system. *Science of the Total Environment*. 642, 1153-1162.

**(112)** Søndergaard, G.L.; Binning, P.J.; Bondgaard, M.; Bjerg, P.L. (2018). Multi-criteria assessment tool for sustainability appraisal of remediation alternatives for a contaminated site. *Journal of Soil and Sediments*. 18(11), 3334-3348.

**(111)** Balbarini, N.; Boon, W.M.; Nicolajsen, E.; Nordbotten, J.M.; Bjerg, P.L.; Binning, P.J. (2017). A 3-D numerical model of the influence of meanders on groundwater discharge to a gaining stream in an unconfined sandy aquifer. *Journal of Hydrology*. 552, 168-181.

**(110)** Maurya, P. K.; Rønde, V.; Fiandaca, G.; Balbarini, N.; Auken, E.; Bjerg, P. L.; Christiansen, A. V. (2017). Detailed landfill leachate plume mapping using 2D and 3D Electrical Resistivity Tomography - with correlation to ionic strength measured in screens. *Journal of Applied Geophysics*, 138, 1-8.

**(109)** Rønde, V.; McKnight, U.S.; Sonne, A.Th.; Balbarini, N.; Devlin, J.F.; Bjerg, P.L. (2017). Contaminant mass discharge to streams: comparing direct groundwater velocity measurements and multi-level groundwater sampling with an in-stream approach. *Journal of Contaminant Hydrology*. 206, 43-54.

**(108)** Sonne, A.T.; McKnight, U.S.; Rønde, V.; Bjerg, P.L. (2017). Assessing the chemical contamination dynamics in a mixed land use stream system. *Water Research*, 125, 141-151.

**(107)** Brauns, B.; Bjerg, P.L.; Song, X.; Jakobsen, R. (2016). Field scale interaction and nutrient exchange between surface water and shallow groundwater in the Baiyang Lake region, North China Plain. *Journal of Environmental Sciences*, 45, 60-75.

**(106)** Paul, L.; Jakobsen, R.; Smolders, E.; Albrechtsen, H.J.; Bjerg, P.L. (2016) Reductive dechlorination of trichloroethylene (TCE) in competition with Fe and Mn oxides – observed dynamics in H<sub>2</sub>-dependent terminal electron accepting processes. *Geomicrobiology Journal*. 33, 5, 357-366.

**(105)** Rasmussen, J.J.; McKnight, U.S.; Sonne, A.Th.; Wiberg-Larsen, P.; Bjerg, P.L. (2016). Legacy of a Chemical Factory Site: Contaminated Groundwater Impacts Stream Macroinvertebrates. *Archives of Environmental Contamination and Toxicology*, 70, 2, 219-230.

**(104)** Thomsen, Nanna I.; Binning, Philip J.; McKnight, Ursula S.; Tuxen, N.; Bjerg, Poul L.; Troldborg, Mads (2016). A Bayesian belief network approach for assessing uncertainty in conceptual site models at contaminated sites, *Journal of Contaminant Hydrology*, 188, 12-28.

**(103)** Aisopou, A.; Binning, Philip J.; Albrechtsen, Hans-Jørgen; Bjerg, P.L. (2015). Modeling the Factors Impacting Pesticide Concentrations in Groundwater Wells. *Groundwater*, 53, 5, 722-736, DOI:

10.1111/gwat.12264.

**(102)** Aisopou, A.; Bjerg, P.L.; Sonne, A.T.; Balbarini, N.; Rosenberg, L.; Binning, P.J. (2015). Dilution and volatilisation of groundwater contaminant discharges in streams. *Journal of Contaminant Hydrology*, 172, 71-83.

**(101)** Meckenstock, Rainer U.; Elsner, Martin; Griebler, Christian; Lueders, Tillmann; Stumpp, Christine; Aamand, Jens; Agathos, Spiros N.; Albrechtsen, Hans-Jørgen; Bastiaens, Leen; Bjerg, Poul Løgstrop; Boon, Nico; Dejonghe, Winnie; Huang, Wei E.; Schmidt, Susanne I.; Smolders, Erik; Sørensen, Sebastian R.; Springael, Dirk; van Breukelen, Boris M. (2015). Biodegradation: Updating the Concepts of Control for Microbial Cleanup in Contaminated Aquifers. *Environmental Science and Technology*, 49, 12, 7073-7081.

**(100)** McKnight, U.S.; Rasmussen, J.J.; Kronvang, B, Binning, P.J.; Bjerg, P.L. (2015). Sources, occurrence and predicted aquatic impact of legacy and contemporary pesticides in streams. *Environmental pollution*, 200, 64-76.

**(99)** Bælum, J.; Scheutz, C.; Chambon, J.C. C.; Jensen, C. M.; Brochmann, R. P.; Dennis, P.; Laier, T.; Broholm, M. M.; Bjerg, P. L.; Binning, P. J.; Jacobsen, C. (2014). The impact of bioaugmentation on dechlorination kinetics and on microbial dechlorinating communities in subsurface clay till. *Environmental Pollution*, 186, 149-157.

**(98)** Levi, S.; Hybel, A.-M.; Bjerg, P.L.; Albrechtsen H.-J. (2014). Stimulation of aerobic degradation of bentazone, mecoprop and dichlorprop by oxygen addition to aquifer sediment. *Science of the Total Environment*, 473-474, 667-675.

**(97)** Lu, C.; Broholm, M.M.; Fabricius, I.L.; Bjerg, P.L. (2014) Determination of Matrix Pore Size Distribution in Fractured Clayey Till and Assessment of Matrix Migration of Dechlorinating Bacteria, *Bioremediation Journal*, 18:4, 295-308, DOI: 10.1080/10889868.2014.939133.

**(96)** Overheu, N. D.; Tuxen, N.; Flyvbjerg, J.; Aabling, J.; Andersen, J. A.; Pedersen, J. K.; Thyregod, T.; Binning, P. J.; Bjerg, P. L. (2014). Risk-based prioritization of ground water threatening point sources at catchment and

regional scales. *Science of the Total Environment*, 485-486, 769-775.

**(95)** Palau, J.; Marchesi, M.; Chambon, J. C.C.; Aravena, R.; Canals, A.; Binning, P. J.; Bjerg, P. L.; Otero, Neus; Soler, A. (2014). Multi-isotope (carbon and chlorine) analysis for fingerprinting and site characterization at a fractured bedrock aquifer contaminated by chlorinated ethenes. *Science of The Total Environment*, 475, 61-70.

**(94)** Batioğlu-Pazarbaşı, M. Milosevic, N., Malaguerra, F., Binning, P.J., Albrechtsen, H.-J., Bjerg, P.L., Aamand, J. (2013). Discharge of landfill leachate to streambed sediments impacts the mineralization potential of phenoxy acid herbicides depending on the initial abundance of tfdA gene classes, *Environmental Pollution*. 176, 275-283.

**(93)** Bælum, J.; Chambon, J.C.; Scheutz, C.; Binning, P.J.; Laier, T.; Bjerg, P.L.; Jacobsen, C.S. (2013). A conceptual model linking functional gene expression and reductive dechlorination rates of chlorinated ethenes in clay rich groundwater sediment. *Water Research*. 47, 7, 2467-2478.

**(92)** Chambon, J.C., Bjerg, P.L., Scheutz, C., Bælum, J., Jakobsen, R. and Binning, P.J., (2013). Review of reactive kinetic models describing reductive dechlorination of chlorinated ethenes in soil and groundwater. *Biotechnology and Bioengineering*, 1, 1-23.

**(91)** Damgaard, I.; Bjerg, P.L.; Jacobsen, C.S.; Tsitonaki A.; Kern-Jespersen, H.; Broholm, M. M. (2013). Performance of Full-Scale Enhanced Reductive Dechlorination in Clay till. *Groundwater Monitoring and Remediation*, 33, 1, 48-61.

**(90)** Damgaard, I.; Bjerg, P.L.; Bælum, J.; Scheutz, C.; Hunkeler, D.; Jacobsen, C.S.; Tuxen, N.; Broholm, M.M. (2013). Identification of chlorinated solvents degradation zones in clay till by high resolution chemical, microbial and compound specific isotope analysis. *Journal of Contaminant Hydrology*, 146, 37-50.

**(89)** Kessler, T.C.; Comunian, A.; Oriani, F.; Renard, P.; Nilsson, B.; Klint, K.E.S.; Bjerg, P.L. (2013) Analyzing and Modeling Fine Scale Geological Heterogeneity— an Example of Sand Lenses in Clayey Till. *Ground Water*, 51, 5, 692-705.

**(88)** Lemming, G.; Nielsen, S.G.; Weber, K.;

Heron, G.; Baker, R.S.; Falkenberg, J.A.; Terkelsen; Jensen, C.B.; Bjerg, P.L. (2013). Optimizing the Environmental Performance of In Situ Thermal Remediation Technologies Using Life Cycle Assessment. *Groundwater Monitoring and Remediation*, 33, 3, 38-51.

**(87)** Owsianiak, M.; Lemming, G.; Hauschild, M.Z.; Bjerg, P.L. (2013). Assessing Environmental Sustainability of Remediation Technologies in a Life Cycle Perspective is Not So Easy. *Environmental Science & Technology*, 47, 3, 1182-1183.

**(86)** Milosevic, N.; Qiu, S.; Elsner, M.; Einsiedl, F.; Maier, M.; Bensch, H.K.V.; Albrechtsen, H.; Bjerg, P.L. (2013). Combined isotope and enantiomer analysis to assess the fate of phenoxy acids in a heterogeneous geologic setting at an old landfill. *Water Research*, 47, 637-649.

**(85)** Rasmussen, J.J.; McKnight, U.S.; Loinaz, M.C.; Thomsen, N.I.; Olsson, M.E.; Bjerg, P.L.; Binning, P.J.; Kronvang, B. (2013). A catchment scale evaluation of multiple stressor effects in headwater streams. *Science of the Total Environment*, 442, 420-431.

**(84)** Christiansen, C.M., Damgaard, I.; Broholm, M.M.; Kessler, T.; Bjerg, P.L. (2012). Direct-Push Delivery of Amendment-Comparable Tracers in Clay Till. *Journal of Environmental Engineering*, 138, 27-37.

**(83)** Fjordbøge, A.S.; Lange, I.V.; Bjerg, P.L.; Binning, P.J.; Riis, C.; Kjeldsen, P. (2012). ZVI Clay remediation of a chlorinated solvent source zone, Skuldelev, Denmark: 2. Groundwater contaminant mass discharge reduction, *Journal of Contaminant Hydrology*, 140-141, 67-79.

**(82)** Kessler, T. C.; Klint, K. E. S.; Nilsson, B.; Bjerg, P. L. (2012). Characterization of sand lenses embedded in tills. *Quaternary Science Reviews*, 53, 55-71.

**(81)** Lemming, G.; Chambon, J.C.; Binning, P.J.; Bjerg, P.L. (2012) Is there an environmental benefit from remediation of a contaminated site? Combined assessments of the risk reduction and life cycle impact of remediation. *Journal of Environmental Management*. Volume 112, 15 December 2012, Pages 392-403.

**(80)** Manoli, G.; Chambon, J.C.; Bjerg, P.L.,

Scheutz, C.; Binning, P.J.; Broholm, M.M. (2012). Remediation Performance Model for Enhanced Metabolic Reductive Dechlorination of Chloroethenes in Fractured Clay Till. *Journal of Contaminant Hydrology*, 131, 64-78.

**(79)** McKnight, Ursula S.; Rasmussen, Jes J.; Kronvang, Brian; Bjerg, Poul L.; Binning, Philip J. (2012). Integrated assessment of the impact of chemical stressors on surface water ecosystems. *Science of the Total Environment*, 427-428, 319-331.

**(78)** Milosevic, Nemanja; Thomsen, Nanna I.; Juhler, René K.; Albrechtsen, Hans-Jørgen; Bjerg, Poul L. (2012). Identification of discharge zones and quantification of contaminant mass discharges into a local stream from a landfill in a heterogeneous geologic setting. *Journal of Hydrology*. 446-447, 13-23.

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**(76)** Trolborg, Mads; Nowak, Wolfgang; Lange, Ida V.; Santos, Marta C.; Binning, Philip J.; Bjerg, Poul L. (2012). Application of Bayesian geostatistics for evaluation of mass discharge uncertainty at contaminated sites. *Water Resources Research*, VOL. 48, W09535, doi:10.1029/2011WR011785.

**(75)** Bjerg, P.L.; Tuxen, N.; Reitzel, L.A.; Albrechtsen, H.-J.; Kjeldsen, P. (2011). Natural attenuation processes in landfill leachate plumes at three Danish sites. *Ground Water*, 49(5), 688-705.

**(74)** Chambon, J.C.; Binning, P.J.; Jørgensen, P.R.; Bjerg, P.L. (2011). A risk assessment tool for contaminated sites in low-permeability fractured media. *Journal of Contaminant Hydrology*, 124, 82-98.

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(71) Malaguerra, F.; Chambon, J.C.; Bjerg, P.L.; Scheutz, C.; Binning, P.J. (2011). Development and sensitivity analysis of a fully kinetic model of sequential reductive dechlorination in groundwater. *Environmental Science and Technology*, 45, 8395-8402.

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(68) Christiansen, C.M.; Damgaard, I.; Broholm, M.M.; Kessler, T.; Klint, K.E.; Nilsson, B.; Bjerg, P.L. (2010). Comparison of Delivery Methods for Enhanced *In Situ* Remediation in Clay Till. *Ground Water Monitoring and Remediation*, 30 (4), 107–122.

(67) Grieger, K.; Fjordbøge, A.; Hartmann, N.B.; Eriksson, E.; Bjerg, P.L.; Baun, A. (2010). Environmental benefits and risks of zero-valent iron nanoparticles (nZVI) for in situ remediation: risk mitigation or trade-off? *Journal of Contaminant Hydrology*, 118, 165–183.

(66) Lemming, G.; Hauschild, M.Z.; Chambon, J.; Binning, P.J.; Bulle, C.; Margni, M.; Bjerg, P.L. (2010). Environmental Impacts of Remediation of a Trichloroethene-Contaminated Site: Life Cycle Assessment of Remediation Alternatives. *Environmental Science and Technology*, 44, 9163-9169.

(65) Lemming, G.; Hauschild, M.Z.; Bjerg, P.L. (2010). Life cycle assessment of soil and groundwater remediation technologies: literature review. *International Journal of Life Cycle Assessment*, 15, 115-127.

(64) Lemming, G.; Friis-Hansen, P.; Bjerg, P.L. (2010). Risk-based economic decision analysis of remediation options at a PCE-contaminated site. *Journal of Environmental Management*,

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(62) Scheutz, C.; Broholm, M.M.; Durant, N.D.; Weeth, E.B.; Jørgensen, T.H.; Dennis, P.; Jacobsen, C.S.; Cox, E.E.; Chambon, J.C.; Bjerg, P.L. (2010). Field evaluation of biological enhanced reductive dechlorination of chloroethenes in clayey till. *Environmental Science and Technology*, 44, 5134-5141.

(61) Troldborg, M.; Nowak, W.; Tuxen, N.; Bjerg, P.L.; Helmig, R.; Binning, P. J. (2010). Uncertainty evaluation of mass discharge estimates from a contaminated site using a fully Bayesian framework, *Water Resour. Res.*, 46, W12552, doi:10.1029/2010WR009227.

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(59) Christiansen, C.; Riis, C.; Christensen, S. B.; Broholm, M. M.; Christensen, A. G.; Klint, K. E. S.; Wood, J. S. A.; Bauer-Gottwein, P.; Bjerg, P. L. (2008) Characterization and quantification of pneumatic fracturing effects at a clay till site. *Environmental Science and Technology*, 42, 570–576.

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