

CURRICULUM VITAE – updated 2 December 2023

Karen A. Kidd

CONTACT INFORMATION

Department of Biology, McMaster University, 1280 Main Street West, Hamilton, ON, Canada, L8S 4K1
Phone: (905) 525-9140 ext 23550; email: karenkidd@mcmaster.ca

EDUCATION

B.Sc.	Biological Sciences, Specialization: Environmental Toxicology	Guelph	Canada	1991
Ph.D.	Biological Sciences, Environmental Biology and Ecology	Alberta	Canada	1996

EMPLOYMENT HISTORY

Stephen Jarislowsky Chair in Environment and Health	2017-present
Professor	2017-present

Department of Biology, McMaster University, Hamilton, ON

Tier 1 Canada Research Chair in Chemical Contamination of Food Webs	2015-17
Tier 2 Canada Research Chair in Chemical Contamination of Food Webs	2004-09; 2010-14
Professor	2008-2017
Associate Professor	2004-08

Biology Department, University of New Brunswick, Saint John, NB

Research Scientist	1998-2004
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Fisheries and Oceans Canada, Freshwater Institute, Winnipeg, MB

SELECT HONOURS AND AWARDS

2021 Canadian Ecotoxicity Workshop Outstanding Contributions Award
2021 Frank Rigler Award, Society of Canadian Limnologists
2018 Society of Environmental Toxicology and Chemistry Fellow
2017 Recipharm International Environmental Award (awarded March 2018)
2015 Tier 1 Canada Research Chair
2007 J.C. Stevenson Memorial Lecture, Canadian Conference for Fisheries Research

EDITORIAL POSITIONS

2015-pres Editor, *Environmental Toxicology and Chemistry*
2009-pres Guest Editor, *Proceedings of the National Academy of Sciences* (12 times)
2015-18 Associate Editor, Freshwater Science specialty section, *Frontiers in Environmental Science*
2015-18 Editorial Board Member (Subject Editor), *FACETS*

SELECT PUBLICATIONS (STUDENTS/PDFs UNDERLINED; LIFETIME 170)

Velichka, J., K.A. Kidd*, K.R. Munkittrick, M. Shanmuganathan, P. Britz-McKibbin, and R.A. Curry. 2023. Elements and omega-3 fatty acids in fishes along a large, dammed river. *Environ. Poll.* 336:122375

Kidd, K.A.*, T. Backhaus, T. Brodin, P.A. Inostroza, and E.S. McCallum. 2023. Environmental risks of PPCP mixtures to aquatic organisms: Reflections on a decade of research. *Environ. Toxicol. Chem.* **Invited Critical Review**. Online 2 Aug 2023 <https://doi.org/10.1002/etc.5726>

Guerin, A., K.A. Kidd, M.-J. Maltais, A. Mercer, and H. Hunt*. 2023. Long-term trends in benthic infauna, and potential drivers, in a highly tidal estuary in Atlantic Canada. *Estuaries and Coasts*. 46:1612–1631.

Roldán-Wong, N.T., B.P. Ceballos-Vázquez, J.A. Yee-Duarte, M.A. Camacho-Mondragón, **K.A. Kidd**, E. Shumilin, M. Arellano-Martínez*. 2023. Human health risk assessment of metals and arsenic via consumption of commercial bivalves in the Gulf of California. *Environmental Science and Pollution Research*. 30: 51692–51710.

Aristone, C., H. Mehdi, J. Hamilton, K.L. Bowen, W.J.S. Currie, **K.A. Kidd** and S. Balshine. 2022. The impacts of two wastewater treatment plants on aquatic benthic macroinvertebrate communities in

summer and winter, *Sci. Total Env.* 820: 153224.

Erdozain, M., **K.A. Kidd**, E.J.S. Emilson, S.S. Capell, D.P. Kreutzweiser, and M.A. Gray. 2021. Elevated allochthony in stream food webs as a result of longitudinal cumulative effects of forest management. *Ecosystems*. *Ecosystems*. 25(6): 1311-1327. <https://doi.org/10.1007/s10021-021-00717-6>

Bryson, G.E., **K.A. Kidd***, and K.M. Samways. 2021. Food web incorporation of marine-derived nutrients after the reintroduction of endangered inner Bay of Fundy Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.*, 79(6): 875-882. <https://doi.org/10.1139/cjfas-2020-0326>

Millar, E.*, M. Surette and **K.A. Kidd**. 2021. Altered microbiomes of aquatic macroinvertebrates and riparian spiders downstream of municipal wastewater effluents. *Sci. Total Env.* 809: 151156 <https://10.1016/j.scitotenv.2021.151156>

Restivo, V.E., **K.A. Kidd**, M.G. Surette, C. Bucking, and J.Y. Wilson. 2021. The gut microbiome of wild-caught rainbow darter is altered during laboratory acclimation. *Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics*. 39:100835. doi: 10.1016/j.cbd.2021.100835.

Erdozain, M., **K.A. Kidd**, E.J.S. Emilson, S.S. Capell, T. Luu, D.P. Kreutzweiser, and M.A. Gray. 2021. Forest management impacts on stream integrity at varying intensities and spatial scales: do biological effects accumulate spatially? *Sci. Total Environ.* 763: 144043.

Erdozain, M., **K.A. Kidd**, E.J.S. Emilson, S.S. Capell, D.P. Kreutzweiser, and M.A. Gray. 2021. Forest management impacts on stream integrity at varying intensities and spatial scales: do abiotic effects accumulate spatially? *Sci. Total Environ.* 753: 141968.

Kroetsch, S.A., **K.A. Kidd**, W.A. Monk, J.M. Culp, Z.G. Compson, and S.A. Pavey. 2020. The effects of taxonomy and ecology on the microbiomes of riverine macroinvertebrates. *Ecology and Evolution*. 10: 14000–14019.

McMahon, H.M., T.J. Arciszewski, K.R. Munkittrick, and **K.A. Kidd**. 2020. Regional and long-term analyses of stable isotopes of fish and invertebrates show evidence of the closure of a pulp mill and the influence of additional stressors. *Environ. Toxicol. Chem.* 39:1207–1218.

Edge, C., L.F. Baker, C.M. Lanctot, S.D. Melvin, M.K. Gahl, M. Kurban, L. Navarro-Martin, **K.A. Kidd**, V.L. Trudeau, D.G. Thompson, J.F. Mudge, and J.E. Houlahan. 2020. Compensatory indirect effects of a herbicide on wetland communities. *Sci. Total Environ.* 718: 137254

Kidd, K.A., S. Graves, G. McKee and C. Podemski. 2020. Effects of whole-lake additions of ethynylestradiol on leech populations. *Environ. Toxicol. Chem.* 39(8):1608-1619.

Kurek, J., P.W. MacKeigan, S. Veinot, A. Mercer, and **K.A. Kidd**. Ecological legacy of DDT archived in lake sediments from eastern Canada. *Environ. Sci. Technol.* es-2019-01396x, Accepted 15 Mar 2019, In press.

Reid, A., A. Carlson, I. Creed, E. Eliason, P. Gell, P. Johnson, **K.A. Kidd**, T. MacCormack, J. Olden, S. Ormerod, J. Smol, W. Taylor, K. Tockner, J. Vermaire, D. Dudgeon, and S. Cooke. 2019. Emerging threats and persistent conservation challenges for freshwater biodiversity. *Biological Reviews*. 94:849 – 873. [10.1111/brv.12480](https://doi.org/10.1111/brv.12480)

SELECT SERVICE ON PROFESSIONAL AND LEARNED SCIENCE COMMITTEES

Member of the International Joint Commission Science Advisory Board, Science Priorities Committee, 2019-21; 2021-24; Co-chair (with R. Rooney and C. Rochman) of workplan “Microplastics in the Great Lakes – Phase 1 – Environmental Monitoring and Risk Assessment”, 2022-24.

Alberta Environment and Parks Science Advisory Panel member, 2020-22; 2022-24 (Premier-appointed).

SELECT GRANTS

Prosser, R., K. Kidd, A. Gillespie, K. Dunfield, J. Longstaffe, P. Madeira, and N. Raine. 2020-23, NSERC Plastics Science for a Cleaner Future. “The risk of microplastics to Canada's ecosystems” 999K

Kidd, K. 2021-26, NSERC Discovery Grant, "Effects of municipal wastewaters on aquatic-nearshore food webs" 275K

Munkittrick, K., M. Servos, M. Arlos, K. Kidd, F. Wrona, and K. Black, 2022-25, NSERC Alliance Grant "Development of an adaptive monitoring and management framework for environmental substances of concern in municipal wastewater" 479K

Prosser, R., K. Kidd and P. Gillis. 2020-22, ECCC, "Investigation of the risk of microplastics to diverse macroinvertebrates in Canada" 148K