

ENVIRONMENTAL HEALTH RESEARCH SCAN

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<p><u>AIR QUALITY</u></p> <ul style="list-style-type: none"> Indoor air Outdoor air Radon, Other 	<p><u>CLIMATE CHANGE</u></p> <ul style="list-style-type: none"> Extreme weather Flooding Sea level rise Wildfires, Other 	<p><u>DISEASES, VECTORS, PESTS</u></p> <ul style="list-style-type: none"> COVID-19 Animal vectors Insect vectors Pests, Other
<p><u>FOOD</u></p> <ul style="list-style-type: none"> Food safety Food security Growing food, Other 	<p><u>BUILT ENVIRONMENT</u></p> <ul style="list-style-type: none"> Green & blue spaces Housing Noise Planning & design Transportation, Other 	<p><u>PUBLIC HEALTH FUNDAMENTALS</u></p> <ul style="list-style-type: none"> Communication Health promotion Health impact assessment Health equity One Health, Other
<p><u>WATER</u></p> <ul style="list-style-type: none"> Drinking water Recreational water Small water systems Wastewater, Other 	<p><u>NON-CLIMATE RELATED DISASTERS</u></p> <ul style="list-style-type: none"> Earthquakes Marine Terrestrial, Other 	<p><u>OTHER TOPICS</u></p> <ul style="list-style-type: none"> Cannabis products Tobacco, nicotine products Ionizing, non-ionizing radiation Personal services establishments, Other
<p><u>SPECIFIC POPULATIONS</u> (children, Indigenous Peoples, older adults, other)</p>		

Environmental Health (EH) Research Scan: Aims and scope

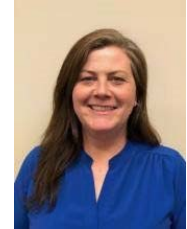
NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with [NCCEH's vision](#) to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases. Not all links are open access; some are abstract links where paid journal subscription is required.

EDITOR PICKS

Cyanobacteria in recreational freshwaters: Understanding exposures and health effects [evidence review].

Juliette O’Keeffe, Knowledge Translation Scientist, NCCEH

“...Raising public awareness, especially at water bodies prone to frequent or persistent blooms, could help water users take protective measures to reduce exposures to cyanobacteria and their toxins....” more



Recreational coastal waters, fresh water and other untreated recreational water venues [subject guide].

National Collaborating Centre for Environmental Health

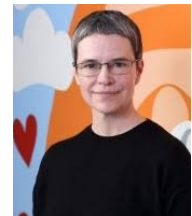
“...Public health guidance can inform safe use of recreational waters and inform policies to reduce public health risks. The resources here provide information on identifying physical, biological, and chemical hazards in recreational waters, and tools for monitoring and managing recreational waters to reduce the risks to users....” more



The BC Radon Data Repository (BCRDR) and BC Radon Map: Integrating disparate data sources for improved public health communication [journal article]

Sarah B Henderson, Scientific Director, Environmental Health Services, BCCDC and the National Collaborating Centre for Environmental Health (NCCEH), and co-authors

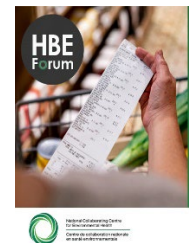
“The development and application of the BCRDR informs public health research and action beyond the BCCDC, and the repository can serve as a model for other regional or national initiatives.”



Food costs and climate change impact stories from remote BC communities [Healthy Built Environment webinar] June 27

Janelle Hatch, Lead, Food Security, Population Health Promotion, BCCDC, and Laurin Moro, MPH Student, Brock University

“... This project set out to gain a better understanding of food costs and climate change impacts for people in remote communities and to amplify local voices to highlight the experiences, challenges, opportunities and hopes for people living in remote communities...”



Food Safety Community of Practice [online forum].

National Collaborating Centre for Environmental Health

NCCEH has developed an online [Food Safety Community of Practice](#) to facilitate knowledge sharing and discussions among environmental public health professionals, industry and academic experts, and policymakers.



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED RESOURCES

1. Hatch J, Moro L. **Food costs and climate change impact stories from remote BC communities [Healthy Built Environment webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jun 27. Available from: <https://ncceh.ca/events/upcoming-webinars/food-costs-and-climate-change-impact-stories-remote-bc-communities>.
2. James K. **Fermented foods safety guidance: a new resource for public health practitioners - updated [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 May 16. Available from: <https://ncceh.ca/resources/blog/fermented-foods-safety-guidance-new-resource-public-health-practitioners>.
3. National Collaborating Center for Environmental Health. **Mosquito Working Group [online forum]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jun 16. Available from: <https://ncceh.ca/mosquito-working-group>.
4. National Collaborating Center for Environmental Health. **Food Safety Community of Practice [online forum]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jun 16. Available from: <https://ncceh.ca/food-safety-community-practice>.
5. National Collaborating Centre for Environmental Health. **May research scan**. Vancouver, BC: NCCEH; 2024 May 22. Available from: <https://ncceh.ca/sites/default/files/2024-05/NCCEH%20Research%20Scan%20-202405.pdf>.
6. National Collaborating Centre for Environmental Health. **NCCEH eNews (May 2024): Wildfires and wildfire smoke; more...** Vancouver, BC: NCCEH; 2024 May 22. Available from: <https://app.cyberimpact.com/newsletter-view-online?ct=dvcZ8aAQlBw3XggBznkPPBL-SlvvAmfWIKQeJzbG2fd2mTMqLfAwRq6XVrJEJf1QkqAGtZpkLWfDtF lr7redA~>.
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8. O’Keeffe J. **Cyanobacteria in recreational freshwaters: Understanding exposures and health effects [evidence review]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 May 24. Available from: <https://ncceh.ca/resources/evidence-reviews/cyanobacteria-recreational-freshwaters-understanding-exposures-and>.
9. Trieu J, Young C, Nguyen PDM, Nicol A-M, Henderson SB, McVea D. **The BC Radon Data Repository (BCRDR) and BC Radon Map: Integrating disparate data sources for improved public health communication**. Can J Public Health. 2024 05 28. Available from: <https://doi.org/10.17269/s41997-024-00895-5>.

1. AIR QUALITY

INDOOR AIR

1. Karaiskos P, Martinez-Molina A, Alamaniotis M. **Examining the impact of natural ventilation versus heat recovery ventilation systems on indoor air quality: a tiny house case study.** Buildings. 2024;14(6):1802. Available from: <https://www.mdpi.com/2075-5309/14/6/1802>.
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3. Krebs B, Neidell M. **Wildfires exacerbate inequalities in indoor pollution exposure.** Environmental Research Letters. 2024;19(2):7. Available from: <https://iopscience.iop.org/article/10.1088/1748-9326/ad22b8>.
4. Laguerre A, Gall ET. **Polycyclic Aromatic Hydrocarbons (PAHs) in wildfire smoke accumulate on indoor materials and create postsmoke event exposure pathways.** Environ Sci Tech. 2024;58(1):639-48. Available from: <https://doi.org/10.1021/acs.est.3c05547>.
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OUTDOOR AIR

1. Health Effects Institute. **State of Global Air Report 2024**. Boston, MA: HEI; 2024. Available from: <https://www.stateofglobalair.org/resources/report/state-global-air-report-2024>.
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RADON, OTHER

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2. FOOD

FOOD SAFETY

1. Aminian S, Heydari MM, Thompson B, Schwean-Lardner K, Kirychuk S, Zhang L. **Application of novel engineered water nanostructures techniques for eggshell surface decontamination**. LWT. 2024;200:116151. Available from: <https://www.sciencedirect.com/science/article/pii/S0023643824004304>.
2. Awad DA, Masoud HA, Hamad A. **Climate changes and food-borne pathogens: the impact on human health and mitigation strategy**. Clim Change. 2024;177(6):92. Available from: <https://doi.org/10.1007/s10584-024-03748-9>.
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[public-health-](#)

[practitionersutm_sourcenewsletterutm_mediumcyberimpactutm_campaignnews_may2024/.](#)

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FOOD SECURITY

1. Thattantavide A, Kumar A. **Local food systems as a resilient strategy to ensure sustainable food security in crisis: Lessons from COVID-19 pandemic and perspectives for the post-pandemic world.** *CABI Reviews.* 2024. Available from: <https://doi.org/10.1079/cabireviews.2024.0020>.

GROWING FOOD, OTHER

3. WATER

DRINKING WATER

1. Kunz JM, Lawinger H, Miko S, Gerdes M, Thuneibat M, Hannapel E, et al. **Surveillance of waterborne disease outbreaks associated with drinking water — United States, 2015–2020**. Atlanta, GA: US Centers for Disease Control and Prevention; 2024. Available from: https://www.cdc.gov/mmwr/volumes/73/ss/ss7301a1.htm?s_cid=ss7301a1_e&ACSTrackingID=USCDC_921-DM124239&ACSTrackingLabel=MMWR%20Surveillance%20Summaries%20%E2%80%93%20Vol.%2073%2C%20March%2014%2C%202024&deliveryName=USCDC_921-DM124239.
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RECREATIONAL WATER

1. Hon C-Y, Jan M. **Operational impacts at municipal aquatic facilities due to the COVID-19 public health measures**. Environ Health Rev. 2024;67(2):37-42. Available from: <https://pubs.ciphi.ca/doi/abs/10.5864/d2024-007>.
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SMALL WATER SYSTEMS

1. Sylvestre E, Charron D, Lefebvre X, Bedard E, Prevost M. **Leveraging regulatory monitoring data for quantitative microbial risk assessment of Legionella pneumophila in cooling towers**. medRxiv. 2024:2024.05.19.24307585. Available from: <https://www.medrxiv.org/content/10.1101/2024.05.19.24307585v1>.

WASTEWATER, OTHER

4. CLIMATE CHANGE

EXTREME WEATHER

2. Armarego-Marriott T. **Considering health can drive climate action.** *Nature Climate Change.* 2024;14(5):417-8. Available from: <https://doi.org/10.1038/s41558-024-02002-5>.
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SEA LEVEL RISE

WILDFIRES, OTHER

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resulting from prescribed burns. Public health research & practice. 2024;34(1). Available from: <https://doi.org/10.17061/phrp33232307>.

5. BUILT ENVIRONMENT

GREEN & BLUE SPACES

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HOUSING

NOISE

PLANNING & DESIGN

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