

# ENVIRONMENTAL HEALTH RESEARCH SCAN

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## CONTENTS

- [STAFF](#)
- [ABORIGINAL ENVIRONMENTAL HEALTH](#)
- [AGRICULTURAL OPERATIONS](#)
- [BIOLOGICAL AGENTS](#)
- [BUILT ENVIRONMENT](#)
- [CHEMICAL AGENTS – METALS, GENERAL](#)
- [CHEMICAL AGENTS – PESTICIDES](#)
- [CHEMICAL AGENTS – SHALE GAS](#)
- [CHILDREN'S ENVIRONMENTAL HEALTH](#)
- [CLIMATE CHANGE](#)
- [COMMUNICABLE AND INFECTIOUS DISEASES](#)
- [DRINKING WATER](#)
- [EMERGENCY PREPAREDNESS](#)
- [ENVIRONMENTAL HEALTH SURVEILLANCE](#)
- [ENVIRONMENTAL PLANNING](#)
- [FOOD](#)
- [GENERAL](#)
- [HEALTH EQUITY](#)
- [HEALTH IMPACT ASSESSMENT](#)
- [INDOOR AIR](#)
- [NUISANCE CONTROL](#)
- [OUTDOOR AIR](#)
- [PERSONAL SERVICE ESTABLISHMENTS](#)
- [PEST CONTROL](#)
- [PHYSICAL AGENTS](#)
- [RADIATION](#)
- [RECREATIONAL AND SURFACE WATER](#)
- [RISK ASSESSMENT, COMMUNICATION](#)
- [SENIORS' ENVIRONMENTAL HEALTH](#)
- [TOBACCO](#)
- [WASTE](#)
- [ZOOSES](#)

### *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. "We focus on health risks associated with the physical environment and identify evidence-based interventions to mitigate those risks." This review is not official or 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. How to access the items? Click on the link related to each entry and it should take you to the item. Not all links are open access; some are abstract links where paid journal subscription is required.

## EDITOR PICKS

### Wildfires, emergency preparedness, and the importance of communication

National Environmental Health Association, Mar 2018

*“NEHA connected with and interviewed the following environmental health professionals at the EPA to learn more about their work with wildfires and emergency preparedness.”*

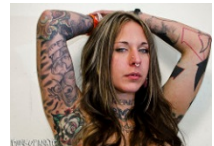


### NEHA body art model code - draft

National Environmental Health Association, Jan 2018

*Since 2016, the National Environmental Health Association has been facilitating the revision of the 1999 BAMC with a committee of body art and regulatory professionals. The code is now ready for public review.*

*[Image courtesy of Blink O'fanaye]*



### Evidence review of e-cigarettes and heated tobacco products 2018: executive summary

Public Health England, Jan 2018

*Implications of this review included the following: There is a need for continued research on the impact of regulations on smoking rates and patterns, use of e-cigarettes by adults and young people, product design and quality, and adverse effects of e-cigarettes.* *[Image courtesy of Vaping360]*



### Public health consequences of e-cigarettes

National Academies of Science and Engineering, Jan 2018

*“This report is a systematic review of the literature that evaluates the evidence about e-cigarettes and health, highlights gaps that are a priority for future research, and makes recommendations to improve the quality of this research.”*

*[Image courtesy of Vaping360]*



### Public health consequences of lead in drinking water

Levallois P, Barn P, Valcke M, Gauvin D, Kosatsky T, Mar 2018

*“The importance of drinking water as a contributor to total lead exposure depends on water lead levels and the amount consumed, as well as....”*

*[Image courtesy of Josh, Water Fountain 3]*



## ENVIRONMENTAL HEALTH RESEARCH SCAN

### SELECTED STAFF PUBLICATIONS (NCCEH or BCCDC)

1. Alexander KA, Freeman S, Angel DL. **Public attitudes and decision making in environmental resource planning — a perception gap**. *Environ Sci Pol*. 2018;80:38-43. Available from: <http://www.sciencedirect.com/science/article/pii/S1462901117306342>.
2. Eykelbosh A, Steiner L. **Growing at home: Health and safety concerns for personal cannabis cultivation**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2018 Mar 20. Available from: [http://www.ncceh.ca/documents/evidence-review/growing-home-health-and-safety-concerns-personal-cannabis-cultivation?utm\\_source=Cyberimpact&utm\\_medium=email&utm\\_campaign=NCCEH-eNews---March-2018](http://www.ncceh.ca/documents/evidence-review/growing-home-health-and-safety-concerns-personal-cannabis-cultivation?utm_source=Cyberimpact&utm_medium=email&utm_campaign=NCCEH-eNews---March-2018).
3. Eykelbosh A, Steiner L. **Risques pour la santé et la sécurité associées à la culture personnelle de cannabis à domicile**. Vancouver, BC: Centre de collaboration nationale en santé environnementale; 2018 mars 20. Available from: <http://www.ccns.ca/documents/evidence-review/risques-pour-la-sant%C3%A9-et-la-s%C3%A9curit%C3%A9-associ%C3%A9es-%C3%A0-la-culture-personnelle-de>.
4. Levallois P, Barn P, Valcke M, Gauvin D, Kosatsky T. **Public health consequences of lead in drinking water**. *Curr Environ Health Rep*. 2018. Available from: <https://doi.org/10.1007/s40572-018-0193-0>.

#### NCCEH e-News (French and English)

1. Centre de collaboration nationale en santé environnementale. **e-Nouvelles du CCNSE: Risques pour la santé et la sécurité associées à la culture personnelle de cannabis à domicile; Ressources sur le cannabis pour les praticiens en santé environnementale; plus...** Vancouver, BC: CCNSE; 2018 mars. Available from: <https://tinyurl.com/yc7f2uh4>.
2. National Collaborating Center for Environmental Health. **NCCEH eNews: Growing at home: Health and safety concerns for personal cannabis cultivation; Cannabis resources for environmental health practitioners; more...** Vancouver, BC: NCCEH; 2018 Mar. Available from: <https://tinyurl.com/y8uxtq8z>.

### ABORIGINAL ENVIRONMENTAL HEALTH

1. Foote J, Hepi M, Rogers-Koroheke M, Taimona H. **Supporting Indigenous environmental health action: a vignette**. *Balancing Individualism and Collectivism*: Springer; 2018. p. 387-93. Available from: [https://link.springer.com/content/pdf/10.1007/978-3-319-58014-2\\_18.pdf](https://link.springer.com/content/pdf/10.1007/978-3-319-58014-2_18.pdf).
2. Gerlach A. **Exploring socially-responsive approaches to children's rehabilitation with Indigenous communities, families and children**. Prince George, BC: National Collaborating Center for Aboriginal Health; 2018 Mar. Available from: [https://www.cnsa-nccah.ca/495/Exploring\\_socially-responsive\\_approaches\\_to\\_children%E2%80%99s\\_rehabilitation\\_with\\_Indigenous\\_communities\\_families\\_and\\_children.nccah?id=235](https://www.cnsa-nccah.ca/495/Exploring_socially-responsive_approaches_to_children%E2%80%99s_rehabilitation_with_Indigenous_communities_families_and_children.nccah?id=235).
3. Gerlach A. **Examiner les approches socialement responsables pour la réadaptation des enfants chez les collectivités, les familles et les enfants autochtones**. Prince George, BC: Centre de collaboration nationale de la santé autochtone; 2018 mars. Available from: [https://www.cnsa-nccah.ca/525/Voir\\_publication.nccah?id=235](https://www.cnsa-nccah.ca/525/Voir_publication.nccah?id=235).
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## AGRICULTURAL OPERATIONS

1. Cotruvo J. **Agricultural water reuse and guidelines**. Water Technology; 2018 [Mar 8]; Available from: <https://www.watertechnology.com/agricultural-water-reuse-guidelines/>.
2. Douglas P, Robertson S, Gay R, Hansell AL, Gant TW. **A systematic review of the public health risks of bioaerosols from intensive farming**. Int J Hyg Environ Health. 2018;221(2):134-73. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29133137>.

## BIOLOGICAL AGENTS

### BUILT ENVIRONMENT

1. Government of New Zealand. **NZS 8510:2017 Testing and decontamination of methamphetamine-contaminated properties**. Wellington, NZ: Government of New Zealand; 2017. Available from: <https://www.standards.govt.nz/sponsored-standards/testing-and-decontamination-of-methamphetamine-contaminated-properties/>.
2. Kaiser D. **Public health surveillance of housing conditions: Recent data from Montreal and thoughts on improving impacts on policy [webinar]**. Vancouver, BC: British Columbia Centre for Disease Control and the National Collaborating Centre for Environmental Health; 2018 Feb 23. Available from: <http://www.nccch.ca/content/public-health-surveillance-housing-conditions-recent-data-montreal-and-thoughts-improving>.
3. Kärmenniemi M, Lankila T, Ikäheimo T, Koivumaa-Honkanen H, Korpelainen R. **The built environment as a determinant of physical activity: A systematic review of longitudinal studies and natural experiments**. Ann Behav Med. 2018. Available from: <https://academic.oup.com/abm/article/52/3/239/4815762>.
4. Kondo M, Fluehr J, McKeon T, Branas C. **Urban green space and its impact on human health**. Int J Environ Res Public Health. 2018;15(3):445. Available from: <http://www.mdpi.com/1660-4601/15/3/445>.
5. MacMillan F, George ES, Feng X, Merom D, Bennie A, Cook A, et al. **Do natural experiments of changes in neighborhood built environment impact physical activity and diet? A systematic review**. Int J Environ Res Public Health. 2018;15(2). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29373567>.
6. Salami B, Yaskina M, Hegadoren K, Diaz E, Meherali S, Rammohan A, et al. **Migration and social determinants of mental health: Results from the Canadian Health Measures Survey**. Can J Public Health. 2017;108(4):e362-e7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29120306>.
7. Schram-Bijkerk D, Otte P, Dirven L, Breure AM. **Indicators to support healthy urban gardening in urban management**. Sci Total Environ. 2018;621:863-71. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29216594>.
9. Smart Cities Council Australia New Zealand. **Smart cities guide for built environment consultants**. Australia: Smart Cities Council; 2018. Available from: <https://anz.smartcitiescouncil.com/resources/smart-cities-guide-built-environment-consultants>.
10. Winters M, Branion-Calles M, Therrien S, Fuller D, Gauvin L, Whitehurst DGT, et al. **Impacts of Bicycle Infrastructure in Mid-Sized Cities (IBIMS): protocol for a natural experiment study in three Canadian cities**. BMJ Open. 2018;8(1). Available from: <http://bmjopen.bmj.com/content/bmjopen/8/1/e019130.full.pdf>.

## CHEMICAL AGENTS – METALS, GENERAL

### General



1. Caron-Beaudoin E, Valter N, Chevrier J, Ayotte P, Frohlich K, Verner MA. **Gestational exposure to volatile organic compounds (VOCs) in Northeastern British Columbia, Canada: A pilot study.** Environ Int. 2018;110:131-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29122312>.
2. East D, Gustafson K, Cabaj J, Navratil L. **An assessment of child care facility playground surfacing safety in Calgary, Alberta.** Environ Health Rev. 2018;61(1):19-1. Available from: <https://doi.org/10.5864/d2018-008>.
3. Janes C, Rodriguez L, Kelly C, White T, Beegan C. **A review of the potential risks associated with chemicals present in poured-in-place rubber surfacing.** Environ Health Rev. 2018;61(1):12-6. Available from: <https://doi.org/10.5864/d2018-001>.
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5. Peterson MK, Lemay JC, Shubin SP, Prueitt RL. **Comprehensive multipathway risk assessment of chemicals associated with recycled (" crumb") rubber in synthetic turf fields.** Environ Res. 2018;160:256-68. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29031215>.

#### BPA, PHTHALATES, VOCs, ETC.

1. Huang PC, Liao KW, Chang JW, Chan SH, Lee CC. **Characterization of phthalates exposure and risk for cosmetics and perfume sales clerks.** Environ Pollut. 2018;233:577-87. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29102888>.
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3. National Toxicology Program. **Draft NTP research report on the Clarity-BPA core study.** 2018 Feb. Available from: [https://ntp.niehs.nih.gov/ntp/about\\_ntp/rrprp/2018/april/rr09peerdraft.pdf](https://ntp.niehs.nih.gov/ntp/about_ntp/rrprp/2018/april/rr09peerdraft.pdf).
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6. Rubinstein ML, Delucchi K, Benowitz NL, Ramo DE. **Adolescent exposure to toxic volatile organic chemicals from e-cigarettes.** Pediatrics. 2018. Available from: <http://pediatrics.aappublications.org/content/pediatrics/early/2018/03/01/peds.2017-3557.full.pdf>.

#### CHEMICAL AGENTS - PESTICIDES

1. Freeman S, Kaufman-Shriqui V, Berman T, Varsano R, Shahar DR, Manor O. **Children's diets, pesticide uptake, and implications for risk assessment: An Israeli case study.** Food Chem Toxicol. 2016;87:88-96. Available from: <http://www.sciencedirect.com/science/article/pii/S0278691515300958>.
2. Mesnage R, Antoniou MN. **Facts and fallacies in the debate on glyphosate toxicity.** Frontiers in Public Health. 2017;5(316). Available from: <https://www.frontiersin.org/article/10.3389/fpubh.2017.00316>.
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4. Zhang Q, Li Z, Chang CH, Lou JL, Zhao MR, Lu C. **Potential human exposures to neonicotinoid insecticides: A review.** Environmental Pollution (Barking, Essex: 1987). 2018;236:71-81. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29414376>.

## CHEMICAL AGENTS – SHALE GAS

1. Physicians for Social Responsibility. **Compendium of scientific, medical, and media findings demonstrating risks and harms of fracking – fifth edition.** Washington, DC: Physicians for Social Responsibility; 2018. Available from: <http://www.psr.org/resources/fracking-compendium.html>.

## CHILDREN'S ENVIRONMENTAL HEALTH

1. Gillman MW, Blaisdell CJ. **Environmental influences on child health outcomes, a Research Program of the National Institutes of Health.** *Curr Opin Pediatr.* 2018;30(2):260-2. Available from: [https://journals.lww.com/co-pediatrics/Citation/2018/04000/Environmental\\_influences\\_on\\_Child\\_Health\\_Outcomes\\_17.aspx](https://journals.lww.com/co-pediatrics/Citation/2018/04000/Environmental_influences_on_Child_Health_Outcomes_17.aspx).

## CLIMATE CHANGE

1. Gao J, Kovats S, Vardoulakis S, Wilkinson P, Woodward A, Li J, et al. **Public health co-benefits of greenhouse gas emissions reduction: A systematic review.** *Sci Total Environ.* 2018;627:388-402. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29426161>.
2. Macintyre H, Heaviside C, Taylor J, Picetti R, Symonds P, Cai X-M, et al. **Assessing urban population vulnerability and environmental risks across an urban area during heatwaves–Implications for health protection.** *Sci Total Environ.* 2018;610:678-90. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28822935>.
3. Sheffield P, Uijtewaal S, Stewart J, Galvez M. **Climate change and schools: Environmental hazards and resiliency.** *Int J Environ Res Public Health.* 2017;14(11):1397. Available from: <http://www.mdpi.com/1660-4601/14/11/1397>.

## COMMUNICABLE AND INFECTIOUS DISEASES

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2. Neufeld J. **Un programme provincial de gérance des antimicrobiens : Succès et défis en Alberta.** Winnipeg, MB: Centre de collaboration nationale des maladies infectieuses; 2017. Available from: <https://ccnmi.ca/publications/programme-provincial-de-gerance-antimicrobiens-succes-defis-alberta/>.

## DRINKING WATER

1. Levallois P, Barn P, Valcke M, Gauvin D, Kosatsky T. **Public health consequences of lead in drinking water.** *Curr Environ Health Rep.* 2018. Available from: <https://doi.org/10.1007/s40572-018-0193-0>.
2. McLaren L, Petit R. **Universal and targeted policy to achieve health equity: a critical analysis of the example of community water fluoridation cessation in Calgary, Canada in 2011.** *Critical Public Health.* 2018;28(2):153-64. Available from: <https://www.tandfonline.com/doi/abs/10.1080/09581596.2017.1361015>.
2. Vilela CLS, Bassin JP, Peixoto RS. **Water contamination by endocrine disruptors: Impacts, microbiological aspects and trends for environmental protection.** *Environmental Pollution (Barking, Essex: 1987).* 2018;235:546-59. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29329096>.

## EMERGENCY PREPAREDNESS

1. National Environmental Health Association. **Wildfires, emergency preparedness, and the importance of communication.** Denver, CO: NEHA; 2018 Mar. Available from: <http://neha.org/node/59651>.
2. Pfefferbaum B, Pfefferbaum RL, Van Horn RL. **Involving children in disaster risk reduction: The importance of participation.** European Journal of Psychotraumatology. 2018;9(Suppl 2). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29441155/>.
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## FOOD

### Safety

1. Alegbeleye OO, Singleton I, Sant'Ana AS. **Sources and contamination routes of microbial pathogens to fresh produce during field cultivation: A review.** Food Microbiology. 2018;73:177-208. Available from: <https://www.sciencedirect.com/science/article/pii/S0740002017310158>.
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### Security

1. Cutumisu N, Traore I, Paquette MC, Cazale L, Camirand H, Lalonde B, et al. **Association between junk food consumption and fast-food outlet access near school among Quebec secondary-school children: findings from the Quebec Health Survey of High School Students (QSHSS) 2010-11.** Public Health Nutr. 2017;20(5):927-37. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27881202>.
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### Organic

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2. Lacour C, Seconda L, Allès B, Hercberg S, Langevin B, Pointereau P, et al. **Environmental impacts of plant-based diets: How does organic food consumption contribute to environmental sustainability?** Frontiers in nutrition. 2018;5:8. Available from: <https://www.frontiersin.org/articles/10.3389/fnut.2018.00008/full>.

### GENERAL

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## HEALTH EQUITY

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## HEALTH IMPACT ASSESSMENT

### INDOOR AIR

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### NUISANCE CONTROL

### OUTDOOR AIR

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