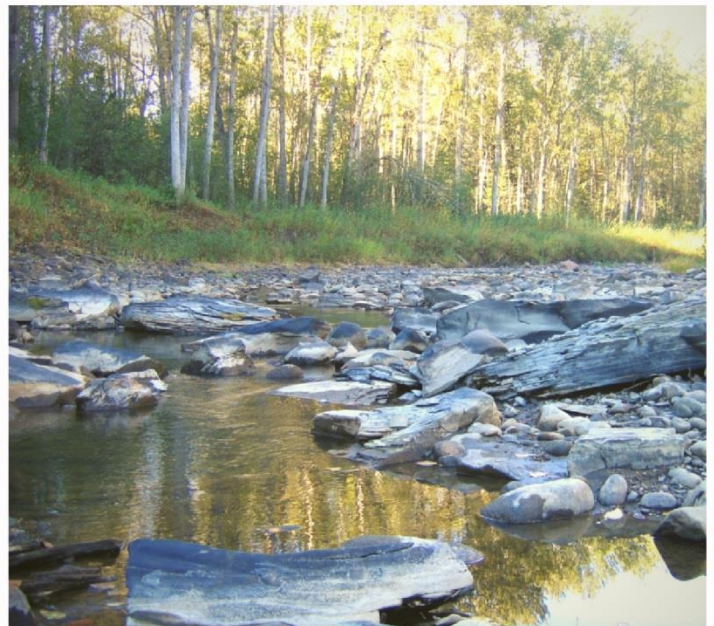




# WATER RESOURCE LIBRARY

A COLLECTION OF WEB-BASED RESOURCES FOR IMPROVED  
PUBLIC WATER LITERACY IN NORTHERN ALBERTA

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## **About The Water North Coalition**

The Water North Coalition (WNC), formed in 2014, is a collaborative effort; working together to find and implement northern solutions to water sourcing and water challenges, with a focus on advocacy, public education, attraction and retention and training.

Operating within northern Alberta, the WNCs vision is *“to ensure, through collaboration, that sustainable water systems are available to every northern community.”*

The Northern Alberta Development Council (NADC) supports the Water North Coalition through strategic advice and administrative support. If you wish to learn more about the WNC, please visit our webpage: <http://nadc.ca/our-business/partnerships/water-north-coalition/>

Water and wastewater management challenges often impact northern communities more acutely. Concerns such as geographic remoteness, aging workforce and infrastructure, and recruitment and retention issues can be felt across all northern communities. Following a strategic planning session, 4 subcommittees were formed to address the priority areas identified as training, advocacy, recruitment and retention and public education.

This document was created by the Public Education subcommittee in January 2018, with the primary intent of providing a resource for all municipalities, water and wastewater professionals, provincial and federal governments, water and wastewater operators, and any other individuals or groups interested in water and wastewater issues in Alberta’s north.

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## **Source Water and Source Water Protection**

Government of Alberta - Source Water Protection <http://aep.alberta.ca/water/programs-and-services/drinking-water/protection/source-water-protection.aspx>

Alberta Environment and Parks - Guide to Source Water Protection Planning in the South Sask. Region of Alberta

<http://www.rdrwa.ca/sites/rdrwa.ca/files/pdf/Guide%20to%20Source%20Water%20Protection%20Planning%20in%20SSR%20DRAFT%20v3.pdf>

AUMA - Source Water Protection planning page <https://auma.ca/advocacy-services/programs-initiatives/water-management/watershed-management/source-water-protection>

AUMA - examples of Source Water protection plans in AB.

[https://www.auma.ca/sites/default/files/Advocacy/Programs\\_Initiatives/Water/watershed\\_management\\_resources\\_and\\_examples\\_of\\_source\\_water\\_protection\\_pdf\\_0.pdf](https://www.auma.ca/sites/default/files/Advocacy/Programs_Initiatives/Water/watershed_management_resources_and_examples_of_source_water_protection_pdf_0.pdf)

TSAG - Source Water Protection Powerpoint by Denise Verreault

<http://www.tsag.net/documents/TSAG%20Source%20Water%20Protection%20Planning.pdf>

Canadian Water Network: Tools and Approaches to Source Water Protection in Canada

[http://poliswaterproject.org/sites/default/files/WPGG\\_SWPG\\_No.1.pdf](http://poliswaterproject.org/sites/default/files/WPGG_SWPG_No.1.pdf)

Example Article – Ecosystem Services in the New York City Watershed by Alice Kenny

<http://www.ecosystemmarketplace.com/articles/ecosystem-services-in-the-new-york-city-watershed-1969-12-31/>

## **Codes of Practice and Regulatory Requirements**

The Vulnerability of Public Officials

<https://awwoa.ab.ca/public/download/documents/9568>

Operational Succession for Water & Wastewater Utilities: A Primer for Understanding and Local Discussion

<https://awwoa.ab.ca/public/download/documents/9565>

Canadian ABC Formula/Conversion Table for Water Treatment, Distribution and Laboratory Exams

<https://awwoa.ab.ca/public/download/documents/9555>

ABC Canadian Formula/Conversion Table for Wastewater Treatment, Industrial, Collection and Laboratory Exams

<https://awwoa.ab.ca/public/download/documents/9556>

Minimum Certified Operator Attendance Guidelines for Waterworks Systems

<https://awwoa.ab.ca/public/download/documents/9553>

Canadian Water and Wastewater Operator Certification Best Practices

<https://awwoa.ab.ca/public/download/documents/9552>

Code of Practice for a Waterworks System Consisting Solely of a Water Distribution System

<http://www.qp.alberta.ca/documents/codes/DISTRIBUTION2.PDF>

Code of Practice for Wastewater Systems Consisting Solely of a Wastewater Collection System

<http://www.qp.alberta.ca/documents/codes/COLLECTION.PDF>

Code of Practice for Wastewater Systems Using a Wastewater Lagoon

<http://www.qp.alberta.ca/documents/codes/LAGOON.PDF>

Code of Practice for Waterworks Systems Using High Quality Groundwater

<http://www.qp.alberta.ca/documents/codes/GROUNDWATER2.PDF>

## **Water Conservation and Efficiency**

Alberta Environment and Parks - Water Conservation, Efficiency and Productivity page

<http://aep.alberta.ca/water/programs-and-services/water-for-life/water-conservation/efficiency-and-productivity.aspx>

City of St. Alberta - Water Conservation, Efficiency and Productivity Plan 2012

<https://stalbert.ca/uploads/legacy/documents/city/WaterConservationReport.pdf>

Alberta Water Council - Water Conservation, Efficiency and Productivity project page

<http://awchome.ca/Projects/CEP/tabid/209/Default.aspx>

Alberta Water Council - Symposium on Exploring Water Reuse for Household, Municipal and Industrial Applications

<http://awchome.ca/Projects/CurrentProjects/ReuseSymposium/tabid/164/Default.aspx>

AUMA - Water Audits (FAQs and List of Resources) <https://auma.ca/advocacy-services/programs-initiatives/water-management/water-conservation/first-steps-water-audits>

## **Certification Requirements**

Alberta Environment and Parks - Water and Wastewater Operator Certification information  
<http://aep.alberta.ca/water/programs-and-services/drinking-water/protection/water-and-wastewater-operator-certification/default.aspx>

Alberta Environment and Parks - Water and Wastewater Operator Certification Program FAQ's  
<https://awwoa.ab.ca/public/download/documents/9554>

Alberta Government - Water and Wastewater Operator Certification Guidelines  
<https://awwoa.ab.ca/public/download/documents/9551>

Alberta Environment and Parks - Drinking Water and Wastewater Operator Certification Application Forms  
<http://aep.alberta.ca/water/forms-applications/drinking-water-and-wastewater-certification-forms.aspx>

Alberta Environment and Parks - Renewal of Alberta Environment and Parks Water and Wastewater Operator Certificate of Qualification  
<http://aep.alberta.ca/water/programs-and-services/drinking-water/protection/water-and-wastewater-operator-certification/documents/RenewalWaterWastewaterOperator-Jun2016.pdf>

Alberta Government - 2017 Water and Wastewater Operator Certification Program Exam Schedule  
<https://awwoa.ab.ca/public/download/documents/9558>

Alberta Environment and Parks - Water and Wastewater Operator Certification Program Continuing Education Unit Evaluation and Credit (approved for relevant training courses)  
<https://awwoa.ab.ca/public/download/documents/9575>

Alberta Environment and Parks - Certification Program for Water and Wastewater Operators Application for Continuing Education Units Evaluation form  
<http://aep.alberta.ca/water/programs-and-services/drinking-water/protection/water-and-wastewater-operator-certification/documents/ApplicationCEUEvaluation-Jul2016.pdf>

## **Training Resources and Information**

Video - Alberta's Water and Wastewater Operator Certification

<https://www.youtube.com/watch?v=27UH96-0lzQ>

Video - NAIT Water and Wastewater Technician Program

<https://www.youtube.com/watch?v=9QZgX0j3Wdw>

YouTube Video – Northern Lakes College Water and Waste Water Operator Preparation Program

<https://www.youtube.com/watch?v=6UVz7yDbbrE>

## **Stewardship and Educational Resources Videos**

YouTube Video - Taking a Step into ABC's (Association of Boards of Certification) History with Harris Seidel

<https://www.youtube.com/watch?v=355xwkPiwd8>

AWWOA - Alberta Water Wise Videos: Five minute video mini-case studies to help small communities with water management issues

<https://awwoa.ab.ca/resources/water-and-wastewater-resource-materials/videos>

AWWOA - Water Testing Videos: short training videos on how to collect water samples and conduct various treated water quality tests <https://awwoa.ab.ca/resources/water-and-wastewater-resource-materials/water-testing-videos>

Severn Trent Water - The Water Treatment Process

<https://www.youtube.com/watch?v=9z14I51ISwg>

City of Calgary - Wastewater Treatment Process

<https://www.youtube.com/watch?v=hV67ODxcjzk>

The Infographics Show - Water Facts! Learn fun facts about the thing you drink every day (USA)

<https://www.youtube.com/watch?v=PjSUG6JsLYw>

MSNBC - Should you Flush that Wipe?

<https://www.youtube.com/watch?v=DqCEGVowbog>

Closer to Home Getting Water Wise in Local Alberta Communities - Taking Care of Your Drinking Water & Wastewater (Alberta, Canada)

<https://www.youtube.com/watch?v=0oHKtrD7ZLM>

EPCOR - Water Efficiency & Conservation Tips for Home <https://www.epcor.com/learn/efficiency-conservation/Pages/default.aspx>

YouTube Video: Study Overview – Unintended Consequences of Regulation on Rural Water Operators

<https://www.youtube.com/watch?v=5-9ICPEhaAc>



## **Attraction and Retention Resources**

Alberta Government - Alberta Water and Wastewater Workforce Development Symposium Video Briefings

<https://awwoa.ca/public/download/documents/9564>

Alberta Government - Alberta Water and Wastewater Workforce Development Symposium - Sectoral Perspectives on Emerging Workforce Challenges (Alberta, Canada)

<https://www.youtube.com/watch?v=USBXGML4tiY>

AWWOA Water & Wastewater Career Videos

<https://awwoa.ca/careers/career-videos>

Career Attraction Brochure

<https://awwoa.ca/public/download/documents/9547>

The Vulnerability of Public Officials - A monograph for Local Owners, Officials, and Operators of Alberta Water & Waste Water Operators

<https://awwoa.ca/public/download/documents/9568>

## **Member Organizations**

Advanced Technology Applications

<http://www.atap.ca>

Alberta Association of Municipal Districts and Counties

<http://aamdc.com>

Alberta Environment and Parks | Operations Division

<http://aep.alberta.ca>

Alberta Municipal Services Corporation

<https://auma.ca/about-us/about-amsc>

Alberta Water and Wastewater Operators Association

<awwoa.ab.ca>

Alberta Watershed Planning and Advisory Councils

<http://www.albertawpacs.ca/>

Aquatera

<https://aquatera.ca>

Aspen Regional Water Services

<http://www.athabascacounty.com/news/aspenn-regional-water-services-commission/>

Athabasca County

<http://www.athabascacounty.com>

Beaver River Watershed Alliance

<https://beaverriverwatershed.ca>

Big Lakes County

<http://www.biglakescounty.ca>

Birch Hills County

<http://www.birchhillscounty.com>

City of Cold Lake

<http://www.coldlake.com>

City of Grande Prairie

<http://www.cityofgp.com>

County of Grande Prairie No. 1

<http://www.countygp.ab.ca>

County of Northern Lights  
<http://www.countyofnorthernlights.com>

Gift Lake Metis Settlement  
<https://metissettlements.com>

Lac La Biche County  
<http://www.laclabichecounty.com>

Lesser Slave Watershed Council  
[lesserslavewatershedcouncil.ca](http://lesserslavewatershedcouncil.ca)

M.D. of Fairview (No. 136)  
<http://www.mdfairview.com>

M.D. of Greenview  
<http://mdgreenview.ab.ca>

M.D. of Lesser Slave River  
<http://www.md124.ca>

M.D. of Opportunity (No. 17)  
<http://www.mdopportunity.ab.ca>

M.D. of Peace (No. 135)  
<http://mdpeace.com>

M.D. of Smoky River (No. 130)  
<http://www.mdsmokyriver.com>

Mackenzie County  
<http://www.mackenziecounty.com>

Mighty Peace Watershed Alliance  
<http://www.mightypeacewatershedalliance.org/>

Northern Alberta Development Council  
[nadc.ca](http://nadc.ca)

Northern Sunrise County  
<http://northernsunrise.net>

Northern Lakes College  
<https://www.northernlakescollege.ca>

Portage College  
<http://www.portagecollege.ca>

Regional Municipality of Wood Buffalo  
<http://www.rmwb.ca>

Saddle Hills County  
<http://www.saddlehills.ab.ca>

Town of Beaverlodge  
<http://www.beaverlodge.ca>

Town of Bonnyville  
<https://town.bonnyville.ab.ca>

Town of Fairview  
<http://www.fairview.ca>

Town of Grande Cache  
<http://www.grandecache.ca>

Town of Grimshaw  
<https://grimshaw.ca>

Town of High Level  
<https://www.highlevel.ca>

Town of Peace River  
<https://peacriver.ca>

Town of Rainbow Lake  
<http://rainbowlake.ca>

Town of Sexsmith  
<http://www.sexsmith.ca>

Town of Slave Lake  
<https://www.slavelake.ca>

Town of Wembley  
<http://www.wembley.ca>

Village of Berwyn  
<http://mightypeace.com/places/communities-municipalities/village-of-berwyn/>

Village of Boyle  
<http://www.boylealberta.com>

Village of Hythe  
<http://website.hythe.ca/>

Village of Rycroft  
<http://www.rycroft.ca>

Western Canada Water and Wastewater Association  
[wcwwa.ca](http://wcwwa.ca)