



Alberta Utility Operator



what's inside?

St. Albert's Riel Lift Station	1
The Old Operator.....	3
Web Site Update.....	4
Math Corner.....	5
Awards and Executive	6
Charitable Donations.....	7
Upcoming Courses	8

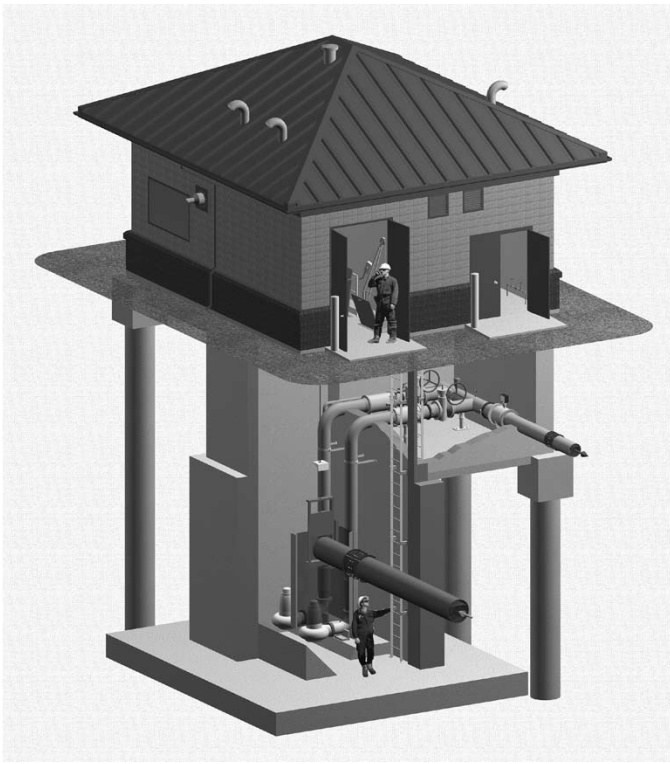
St. Albert's Riel Lift Station

The Riel Lift Station was originally constructed in 1978 to serve a portion of southwest St. Albert. The original lift station consisted of two submersible pumps mounted in an oval-shaped 3.1 m by 2.0 m reinforced concrete wet well, with controls housed in an above grade kiosk and no backup power generator.

A citywide assessment of the City's lift stations was completed in 2006 and identified this sanitary lift station as a priority for replacement based on the physical condition of the structure and equipment. In addition, updates to the City's Utility Master Plan, completed in 2008, identified the need to increase the capacity of the lift station to accommodate peak projected flows through future buildout of the remaining developments within the lift station's service area; the master plan study identified that the existing facility was already at capacity during peak events.

In early 2009, the City retained Stantec to provide engineering services for the design and construction of a new lift station to be located





adjacent to the existing one. Flow projections and analyses determined a design flow for the new station of 180 L/s, which would be sufficient to accommodate peak projected flows through future buildout of the station's service area.

The new station was designed with operator access for maintenance and operational needs in mind. Representatives of the City's Utilities Branch and Engineering Services Department were involved throughout the preliminary and detailed design stages of the project. Beyond regular circulation of staged design drawings to selected City representatives, the draft preliminary design of the new lift station was reviewed by several key members of the City's utilities operators and engineering staff at a workshop which was an integral component in developing a preliminary design that would satisfy the technical requirements with operator needs and functionality. Stantec prepared a three dimensional rendering of the proposed lift station concept to help stakeholders visualize the structure. The workshop allowed the participants to review the entire draft design in detail prior to it being finalized and proceeding to detailed design. This approach was successful in identifying areas of improvement within the design at an early stage, preventing costly

impacts for redesign during subsequent phases of the project and potential delays to the design schedule. A similar workshop was held during the detailed design stage, prior to the design being finalized and issued for tender.

The completed design of the lift station consisted of two 18.6 kW (35.0 hp) Flygt submersible pumps installed within a wet well substructure, each capable of 180 L/s at 8.4 m TDH. A basement substructure (drywell) was provided below the ground floor to house discharge piping equipment. The superstructure building was provided to house electrical and control equipment, a standby power generator, HVAC, and miscellaneous equipment. Standby power is provided by a 50 kW (63 KVA) diesel generator. The wet well is also equipped with a gravity overflow pipe which is connected to the South Sturgeon Interceptor Trunk (sanitary trunk sewer), located immediately south of the lift station. In the event of power loss and standby power malfunction, operators can temporarily rely on the overflow piping while troubleshooting the system.

The construction contract was tendered in late 2009. The new lift station was commissioned into operation in October 2010.

Submitted by: Dan Rites, City of St. Albert and Dan Willems, Stantec Consulting Ltd.



submersible pumps

The Old Operator

submitted by Doug Thorson

Do Words Of Encouragement Flow Easier Than Words Of Criticism?

I notice in our world today it seems we find it easier to criticize than to encourage. Why do you think that is? Have we dug in and decided if no one compliments me then I will not compliment him or her? Could it be that if we compliment someone, it might take something away from us, making us appear lesser? Or have we just become critical people, people who always seem to see the negative first and not the positive? Imagine having parents who could only see your faults and never the positive attributes you have?

I worked with a man who always, when I spoke to him, corrected my English. At first it didn't bother me, but later on it became demeaning and left me always feeling I didn't measure up. Soon I avoided this man because I knew the outcome would be negative and leave me feeling inadequate. Some people miss the message because they are too busy checking the spelling. When we are talking to people, if all they hear from us is negativity, do you really think they will want to be around us?

When someone strikes out against us, we want to retaliate; but if we do, then we are no better than he or she. Someone once told me when you seek vengeance you must dig two graves: one for them and one for yourself. Martin Luther King said it best, "Darkness cannot drive out darkness; only light can do that. Hate cannot drive out hate; only love can do that."

A critical spirit is like poison ivy, it only takes a little contact to spread its poison. A friend told me a story about when he and his son were on summer vacation. During the first couple of days, his son Matt seemed to be constantly misbehaving. My friend said he seemed to be constantly rebuking and correcting Matt. He made it clear to Matt that he would not allow him to act that way. Later, Matt had gone several days without needing correcting on anything. One night after his son said his prayers and jumped into bed, my friend noticed his son's lower lip quivering. He asked him what was wrong? Barely able to

speaking, his son looked up to his father with tears in his eyes and asked, "Daddy, have I been a good boy today?" My friend said those words cut right through him like a knife. He had been quick to criticize his son's behavior but failed to mention his pleasure with Matt's attempts to be a good boy.

That father learned a lesson from his son; never let the sun go down without a word of encouragement and appreciation. Sometimes we are so close to the trees that we can't see the forest. We sometimes see the small insignificant stuff and miss the real important stuff life is made of. Professional baseball player Harmon Killebrew once recalled learning a similar lesson. Harmon was out in the back yard with his father and brother playing ball. Their enjoyment was soon interrupted by Mrs. Killebrew who exclaimed as she rushed from the kitchen to the

yard, "You're tearing up the grass!"

Harmon's father replied to his wife, "But mother, we are not raising grass, we're raising boys."

Sometimes we are so caught up in life we forget to cherish the moments and encourage one another.

*never let the sun go down
without a word of encouragement
and appreciation*

Let's all of us try and make an effort to never lay our heads on the pillow if we have not shared some encouraging and appreciative words with those we love. Like Mr. Killebrew said, parents, never forget you are raising children, not grass. At least that's how I see it.

The Old Operator

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www.awwoa.ab.ca

Check out the New AWWOA
Website with New Features!!

<https://awwoa.ab.ca>

AWWOA Course Registration and E-Commerce System

The AWWOA has launched a new user-registration and e-commerce system. The new system will allow our members and users to better manage their online registration in a safe and secure environment.

All users will be required to set up an AWWOA registration account; this is a one-time set up. There are 3 types of accounts to choose from.

- Personal - Allows the individual to register for courses offered through AWWOA. A personal account will allow you to review grades achieved in previous courses through our user portal currently being developed.
- Company - This account allows an individual to register multiple people for any of the courses offered through AWWOA. The account holder will not have access to course grades.
- Supplier - This account is for companies that wish to book booth space for future AWWOA Annual Seminars. All suppliers will need to register using this account to gain access to the booth sales taking place in mid-November of each year.

When registering your user profile, a user will find three address areas that can be filled in: personal address, company address, and billing address. There is an option which allows the user to choose which address to ship to if training material is to be delivered.

The final step of the new website/e-commerce system will take the user to the Moneris secure credit card processing page. Here a user can enter their card information for payment and then the user will be redirected back to the AWWOA website and presented a receipt. This receipt will also be emailed to the account holder, registrant, and the AWWOA office.

Once an account is set up, all future registrations will automatically populate with the information stored within the database to further improve the registration process. Users will have the ability to edit this information; however, the user name which equals a valid email address can only be changed at an administrative level.

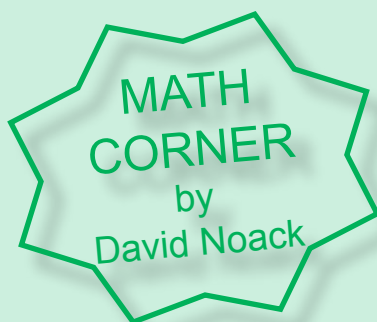
Here are the steps you will need to take to activate your new AWWOA User Profile.

Registering Your AWWOA User Profile:

1. Click on "Register" in the left hand column under "Not Logged In."
2. Enter a valid email address and then a password, 6 or more characters long. (Note: Account verification will be directed to this email address; therefore it's important that you have access to this email in order to activate the account.)
3. Select the Account Type: **Personal, Company or Supplier**
4. Click on "Next" to move to the next screen where you will add personal information including:
 - AWWOA ID Number: This is your membership number issued to you when you became a member or renewed through Western Canada Water (WCW). If you are unable to locate your number and are a member, you can contact WCW (1-877-283-2003).
 - Name (First and Last): If registering as a company, this is the name of the person responsible for registering employees.
 - Gender and Age: We are asking our members to provide this information as the AWWOA is conducting research into demographics to better understand future needs of our industry.
 - Community: The municipality you reside in or work for.
 - Employer: Current employer, if unemployed this can remain blank.
 - Primary Phone: Please follow the format as shown. xxx-xxx-xxxx
 - Other Phone: Your cell phone or home phone number. Leave this blank if you wish.
 - Fax: Self-explanatory. You may leave this blank if you wish.

5. Click on “Next” to move to the next screen. This information provides the AWWOA with your personal mailing address. Some members that want their materials (eg. training, newsletters) delivered to a home address opposed to a business address will want to fill this section out.
6. Click on “Next” to move to the next screen. This is the billing information needed in order to process any credit card purchases. This information must be completed in detail if you are using credit cards to purchase anything from the AWWOA. Please note: This site is secure and no credit card information from these online purchases is held by the Association. All credit card transactions are handled through Moneris via 128 bit encrypted data transfers.
 - Cardholder Name: If it’s a corporate card, please include the EXP at the end of the card holder name.
 - Cardholder Email Address: Please provide the email address you would like a copy of receipt to be sent to. This is important as you will not receive any confirmation if left blank.
 - Billing Address, City, & Postal Code: Ensure this is as it appears on your credit card statements. Providing different information may cause your purchase to be declined by Moneris.
7. Click on “Next” to move to the next screen. This is the business address information sheet; users must fill out either the business or home address to ensure the delivery of any materials sent from the AWWOA office.
8. Click on “Finish” to move to the next screen. A statement appears explaining that verification needs to be made to activate the account. It is sent to the email address you provided in the first screen when you clicked on “Register”. It will come from registration@awwoa.ab.ca and be entitled “AWWOA Registration”. When you click on “click here” the browser will open on the AWWOA website and state that the account has been activated. This email will come instantly when you click on finish. If you don’t see it in your inbox, please check your spam or junk folder.
9. When registering a profile, it must all be completed in one session or the system will not create a user profile.
10. Once this has been completed, your account can be accessed by clicking on the “Login” button in the left hand column under “Register” and entering your email address and password setup when registering. If successful, your email address will be displayed in the Login area and you will see “My Account” under the email address. Clicking on “My Account” will take you to a summary page of all your information in the database including a history of courses you have taken including final grades and CEU’s earned, valuable information as you move through your water/wastewater career.

Now that your account is set up and active, it will provide you a very fast and easy way to register for the many courses offered. If you require any additional information, please contact John Voyer at awwoa1@telus.net.



Exercise your math skills by practicing the following problem and calculations. Do your answer(s) match those of co-workers? Correct answers will be included in the next newsletter.

Given the information below calculate the volume of the reservoir (in litres) and how long it will take to fill (in hours).

Reservoir diameter	5.8 m
Reservoir height	4.2 m
Fill pump flow	22 litres / sec

Send any questions or submissions for Math Corner to awwoa1@telus.net

2011 Banff Operators Seminar Highlights

New Executive 2011 - 2012

photos right

Glenda Donovan-Malik: Steve Blonsky
Honorary Life Membership Award recipient.

Filip Dundar: NAIT Achievement Award
recipient.

Dwayne Cikaluk and Executive at Banquet

photos on back page:

John Girhiny: 2010 Gerald B. Samuel
Operator of the Year Award recipient.

Incoming Chair Brian Brost addresses the
delegates.



Alberta Water and Wastewater Operators Association Executive 2011 - 2012

Name	Position	Community
Brian Brost	Executive Chair	Athabasca
Garth Carl	Executive Vice Chair / Website Chair	Hanna
Dwayne Cikaluk	Executive Past Chair	Fort Saskatchewan
KC Stone	Finance Chair	Lethbridge
Kim Fath	Training Committee Chair	Vulcan
Nancy McAteer	Banff Operators Seminar Chair	Penhold
Jim Hepler	WCW Director / Publicity and Promotions Chair	Devon
Al Kendrick	Banff Committee	Drumheller
George Wybenga	Finance Committee	Edmonton
Gerry Gusdal	Training Committee / Finance Committee	Stoney Tribal Administration
Doug Thorson	Charitable Donations Chair	Retired
Jennifer Sharp	Training Committee	Calgary
Dan Rites	Nominations Committee	St. Albert
Quentin Stryda	Banff Committee	ALPAC
Darren Demchuk	NAIT Representative	Appointed
Kathy Abramowski	AENV Certification Rep. / Awards Committee Chair	Appointed



Charitable Donations Report

submitted March, 2011, by Doug Thorson, Chair

We had the most successful seminar ever raising funds for The Water School and for Water For People Canada. On behalf of your AWWOA Executive, the Charitable Donations Committee and myself, I would like to personally thank everyone who donated to the 50 / 50 tickets, the jelly-bean guess jar and the silent auction for your most generous donations. I would further like to thank everyone for his or her donations on behalf of the children (who can not speak for themselves) whose lives have been changed for the better because you took the time to care.

The seminar opening presentation was from the President of The Water School, Bob Dell. He gave the audience a great overview of how The Water School got started, the SODAS technology and showed many pictures. It was very enlightening to see just how poor these people in Kenya are; small children walking for an hour and a half to a dirty waterhole full of cattle to retrieve their drinking water, making the long trek back home carrying 40 pound jugs of dirty water, remarkably, singing all the way. Imagine, in such poverty and despair, they can sing while they work. Now there is a lesson for all of us. Puts a different spin on things when we have so much and yet can't find it within ourselves to be happy.

Bob's presentation was followed with a presentation by Sandra Getuba (in marketing) with more pictures and a presentation of The Water School projects the AWWOA has subsidized over the last several years. Sandra and her husband are Canadians and live in Calgary but Sandra explained she was brought up in Kenya and took some time to identify to the audience first hand just how difficult things could be there. Sandra narrated and showed some before and after pictures of the children and teachers at the Ole Teppes School and the Nagong Primary School. Sandra showed some pictures of the project The Water School and the AWWOA will support in 2011, the Babadogo Primary School in Nairobi with 2000 students.

Brad Pierik, The Water School "Water Specialist," fielded questions from the audience and provided additional history and knowledge regarding the ongoing research into providing safe drinking water to the people of Kenya.

In total, just over \$17,000 was raised by the attendees of our 2011 AWWOA Seminar, and this will more than adequately help all the children and teachers of the Babadogo Primary School. The remainder of your donation will go to Water for People Canada, to support water and wastewater projects in the country of Bolivia, South America.

I would like to quote Robert Redford, "Problems become opportunities when the right people come together," and that's what all the attendees of this years AWWOA Seminar have done in raising money for our Charitable Donations project. You have turned grief, poverty and dirty water into clean safe drinking water and offered all these children opportunity. Thank you. In closing, each of you have my sincere gratitude, which to me is a feeling in the heart, an expression in words, and is followed with giving, seeking nothing in return.



UPCOMING COURSES

SUPPORT SYSTEMS and APPLIED MATH CERTIFICATION PREPARATION 1.2 CEUs

June 1 & 2, 2011 Chateau Louis, Edmonton

WASTEWATER COLLECTION SYSTEMS 1.2 CEUs

June 23 & 24, 2011 - Chateau Louis, Edmonton

HYDRANT MAINTENANCE and REPAIR 1.2 CEUs

SESSION #1 May 30 & 31, 2011

SESSION #2 June 2 & 3, 2011

NAIT, Main Campus, 11762 - 106 Street, Edmonton

JAR TESTING WORKSHOP 0.6 CEUs

SESSION #1 June 8, 2011 NAIT - Edmonton

SESSION #2 June 9, 2011 NAIT - Edmonton

WATER METERS: SELECTION, INSTALLATION, TESTING and MAINTENANCE 1.0 CEUs

June 13 & 14, 2011 Edmonton - NAIT

June 16 & 17, 2011 Edmonton - NAIT

The purpose of the Alberta Utility Operator Newsletter is to provide a forum for communication and networking among AWWOA members in the areas of new technologies and research, regulatory concerns and changes, outstanding service and other Association concerns. The editors welcome suggestions for content from the membership.

The Alberta Utility Operator Newsletter is published three times a year by the Alberta Water and Wastewater Operators Association with assistance from Alberta Environment.

Deadlines for submission are in January, April and August.

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Views expressed in The Alberta Utility Operator are those of the writers. Unless otherwise stated, articles should not be interpreted as policy or regulation and do not necessarily reflect organizational or editorial policy.

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