

Volume 76

Year 2009

The

Water Hauler's

Bulletin



A production of Alberta Agriculture and Rural Development's Water

Special points of interest:

- All previous Water Hauler's Bulletin articles are now available on-line
- Canal liner uplift protection experiment
- Irrigated Crop Production Conference

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WID Pipe Puller



In the fall of 2008, the WID started using a device they built by combining two ideas into one unit. It provides a one step operation for lifting and joining pipe.



For more information, contact:
Mr. Erwin Braun
Western Irrigation District,
P.O. Box 2372,
105 - 900 Pine Road,
Strathmore, AB T1P 1K3
403-934-3542 ebraun@wid.net



BRID Pipeline Inlet



In the fall of 2008, the BRID installed a pre-cast pipeline inlet with csp wings to allow increased flow.

This allowed for the use of a smaller inlet structure.

Trash racks will be installed on the structure and wings prior to water being turned into the system.

For more information, contact: Mr. Richard Phillips
Bow River Irrigation District, P.O. Box 140, 807 - 7th Avenue North,
Vauxhall, AB T0K 2K0 403-654-2111 richard@brid.ab.ca



Casing Spacers



In the fall of 2008, the RID used easy to attach nylon casing spacers for PVC pipe protection, when inserting through steel casing pipe.



For more information, contact:
Mr. Mark Jensen
Raymond Irrigation District,
P.O. Box 538,
Raymond, AB T0K 2S0
403-752-3511
403-380-0294 (cell)



The Eagle Claw

The Eagle Claw is a tool that allows for a simple one man operation for joining small diameter pipe of all kinds and is a breeze for assembling fittings.

Can Doo Excavating Services of Medicine Hat has used this puller for pvc pipe diameters up to and including 300 mm.

For more information visit the PWEagle website @ www.pweagleinc.com or call

Megan Dillon of Wolseley Canada @ 1-403-528-4271 in Medicine Hat

or Brian Kalmring of Can Doo Excavating Services @ 1-403-504-6958.



Settling Pond Filtration System

PVC pipe drilled full of holes and covered with gravel provides a good filtering system for algae in irrigation water leaving a pipeline settling pond.

For more information contact: Kent Bullock or Ron Hadden, Taber Irrigation District, 4420—44 Street, Taber, AB T1G 2J6 403-223-2148

kenttid@telus.net



Taber
Irrigation
District



Hydrolox Polymer Traveling Screen

There is a new style of screening device being demonstrated at the Alberta Agriculture Demo Farm in Lethbridge.

Hydrolox Polymer Screens, are manufactured by Water Management Technologies, Inc. in Louisiana, USA.

They provide a light weight traveling water screen constructed to combat the costliest and most persistent water intake diversion. They claim that they are lighter and longer-lasting than conventional screens, and that they virtually operate maintenance free. Their light weight allows them to operate on solar power in remote locations.

If you would like to see the screen in action at the demo farm, contact Lloyd Healy @ 403-382-4407 lloyd.healy@gov.ab.ca or Lawrence Schinkel @ 403-381-5855 lawrence.schinkel@gov.ab.ca

For more product information, visit their website @ www.w-m-t.com/Products/Hydrolox_Polymer_Screen.php or call 225-755-0026



Canal Liner Uplift Protection

In an effort to relieve groundwater pressure, plastic drain tile was installed in each toe of the canal bed prior to installation of a full liner, to prevent uplift of the liner in winter after the canal is emptied. Removable caps will be on during the irrigation season and removed in winter to allow groundwater to flow out.



This is a first time project experiment by the BRID.

For more information, contact: Mr. Richard Phillips

Bow River Irrigation District, P.O. Box 140, 807 - 7th Avenue North, Vauxhall, AB T0K 2K0 403-654-2111 richard@brid.ab.ca



A shallow trench was excavated in each toe of the bed for placement of plastic drain tile.



The plastic drain tile was placed in the shallow trench prior to installation of the canal liner.



Armour placed on canal liner.



A section of PVC pipe was connected to the plastic drain tile at end of the liner to drain groundwater collected from under the liner.

2009 Flow Measurement Facility Field Day

The 100 participants were able to learn about the latest in irrigation flow measurement technology. Alberta Agriculture staff were there to answer your questions, and equipment representatives were there explaining how their products operate.

To learn more, check out the [field day webpage](#).

Thanks to all who participated... you helped make it another successful event!



Plan on attending the Irrigated Crop Production Update that will be held on January 11 & 12, 2010 at the Lethbridge Lodge Hotel.

The theme for this years event is **“Maximizing the Productivity and Profitability for Irrigated Agriculture”**.

This two day conference is organized by Alberta Agriculture & Rural Development and the Southern Applied Research Association.

Topic will include:

- Agronomic Management
- Pest Management
- Irrigated Crop Opportunities
- Irrigation Equipment
- Irrigation Water Management
- Financial Management
- Looking Forward

To learn more, take a look at the [conference brochure](#).



Water for Life 2010 Conference

Thursday, March 25, 2010
9am to 4pm
Great Hall, Rozsa Centre UNIVERSITY OF CALGARY

This conference aims at bringing the subject of water issues to the frontline and to provide a space for discussion and debate by policy makers, water managers, academics, students and the public in general. It will focus on Alberta water management, progress and challenges, and the implications of water issues around the world.

To learn more, check the [conference website](#).

The Water Hauler's Bulletin Returns

After an absence of seven years, the Water Hauler's Bulletin has returned. First published in 1980, up to four issues were published per year until the fall of 2002, when production was ceased.

Due to renewed interest from the irrigation districts for a forum to share information about what they are doing, this publication returns in a digital format. Items of interest will be added throughout the year as

they are submitted.

As well as the current edition, you will be able to access all of the previous volumes, starting with Volume 1 in 1980, through to Volume 75 in 2002. All of the previous volumes have been scanned and saved as pdf files for easy viewing.

You can find articles sorted by volume number, article title, and by category.

Visit the Demo Farm website @ www.demofarm.ca and follow the link to The Water Hauler's Bulletin page on the sidebar menu.

If you would like to be notified via email when new articles are added throughout the year, click the link on the webpage, and simply send the email that is generated automatically.



Designed to provide the operation and management personnel of irrigation districts with items of interest in their line of work. Comments are welcome. Please contact Don Gross at 403-381-5872, Lethbridge. Published quarterly by the Irrigation and Waterways Unit, Project Planning Branch, Irrigation Division, Alberta Agriculture, Agriculture Centre, Lethbridge, Alberta T1J 6T5.

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INTRODUCTION

Within the guidelines of the new role of the Project Planning Branch, to provide a monitoring and evaluation activity for the Irrigation Rehabilitation Program, it is considered desirable that certain types of information become available to all the irrigation districts. With this objective, the Branch is attempting to provide a forum to the districts, wherein evaluation of certain products and procedures can be compared to all interested parties. The first issue is devoted primarily to achievements in water to create in concrete linings, and is timed to bring this to the district staff about the time they will be reviewing work done in the spring of 1981, in preparation for additional work which may be required in the fall of 1980 or spring of 1981. The newsletter is also identifying a second innovation in rural corrugated steel pipe to enable better and faster field couplings of the joints.

The staff of the Branch express their thanks and appreciation to all those staff members of the various irrigation districts and materials suppliers, who have so far and willingly provided information and assistance in this program, to enable putting together the information contained in this newsletter.



Oldman River Basin Water Quality Initiative

The Oldman River Basin Water Quality Initiative is a project of the Alberta Agriculture and Rural Development. The initiative is designed to improve the water quality in the Oldman River Basin. The project involves the collection and analysis of water samples from various locations in the basin. The results of the analysis will be used to develop a water quality management plan for the basin.



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This publication is intended to provide Alberta's irrigation industry with items of interest in irrigation. If you would like to submit articles or provide us with input, feel free to contact Don Gross by phone in Lethbridge at (403) 381-5872 or E-mail don.gross@gov.ab.ca.

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