

OUTSTANDING PERFORMANCE OF ACTIFLO DURING JUNE 2005 FLOOD

RED DEER, AB – The Red Deer River reached record levels following last June's heavy rainfalls. River turbidities reached extremely high values and many water treatment plants in the area were forced to reduce treatment capacity.

In Red Deer, problems were avoided, thanks to the ACTIFLO process and a team of skilled operators .

Randy Reaman, Water Treatment Plant Supervisor, explains :

“ During the recent flood event in Red Deer, the treatment plant experienced influent turbidities as high as 3250 NTU. The ACTIFLO clarification system functioned well during this event. Average clarified water turbidity was around 1.75 NTU.



The peak flowrate reached 1,800 m³/s, twelve times the average flowrate

Filtered water turbidity averaged about 0.1 NTU throughout the flood event, with filter run times of 24 hours.

We were very pleased with the performance of the ACTIFLO clarifiers during this event. They are quick to respond to changing conditions and have a range of “forgiveness” if chemical dosages are not precisely known.

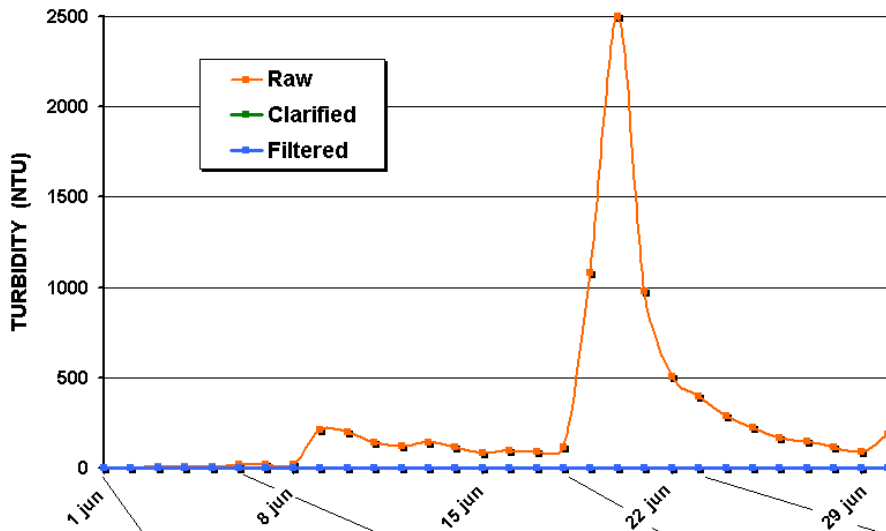
Other treatment plants in the Central Alberta area which use solids contact clarification appeared to have more difficulty in maintaining water quality. ”



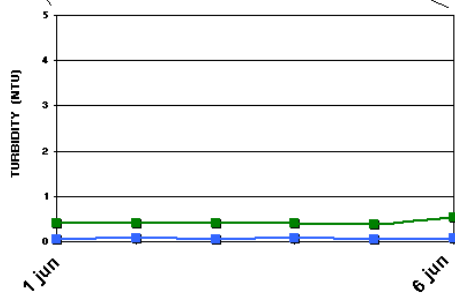
The Red Deer Water Treatment Plant

See the results on page 2

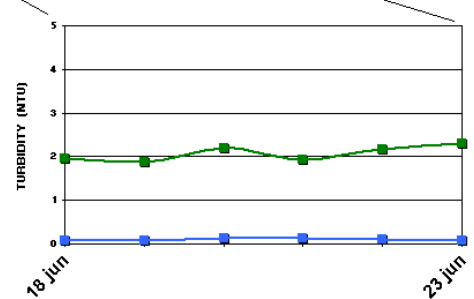
REMOVAL OF TURBIDITY AT THE RED DEER WATER TREATMENT PLANT DURING THE FLOOD OF JUNE 2005



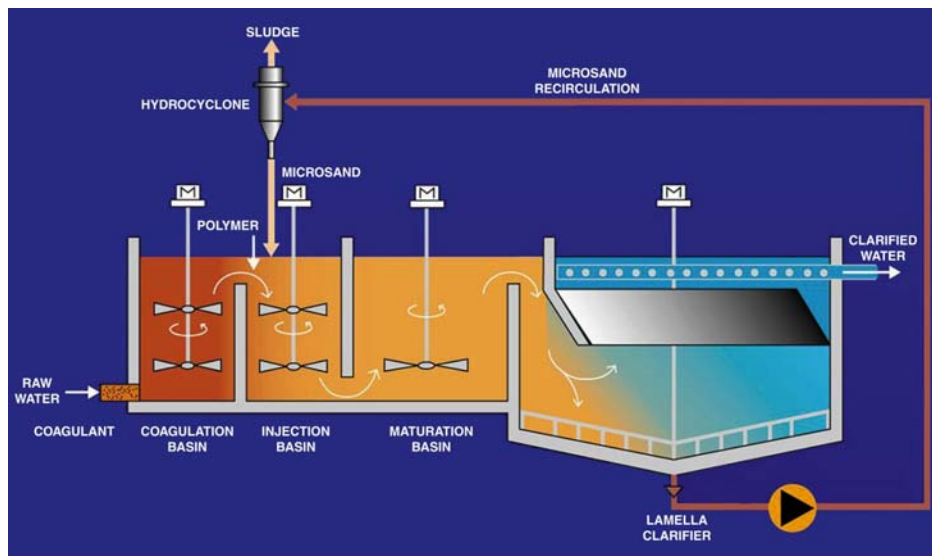
While raw water turbidity reached a peak of 3250 NTU, filtered water turbidity averaged 0.1 NTU and filter runs of 24 hours were achieved.



BEFORE THE FLOOD



DURING THE FLOOD



The ACTIFLO process

Red Deer

The Red Deer Water Treatment Plant draws water from the Red Deer River. Because of high turbidity and organics in the river water during times of spring runoff, the City was sometimes forced to reduce capacity to preserve drinking water quality.

In July 2003, The City began constructing the ACTIFLO clarification system, supplied by John Meunier Inc. The ACTIFLO clarifiers were built inside one of the existing clarifiers, therefore eliminating the need for a costly building expansion.

Together these two units are capable of producing more than 120,000 m³/d of clarified water per day, an increase of 80 percent in capacity from the old clarifiers.



The ACTIFLO clarifiers were built inside one of the existing clarifiers

The ACTIFLO clarifiers allow the City to increase the amount of water it can treat in order to serve Red Deer's growing population and prepare for future growth and regional needs. The upgrade will also further enhance water quality, which already meets Alberta Environment Standards and Canadian Drinking Water Guidelines.

“ We are very happy to be working with John Meunier “, said Paul Goranson, Public Works Manager with the City of Red Deer. “ ACTIFLO was judged to be the best process to handle a wide range of turbidity and organics levels. The stability of the process, its compact footprint and competitive price made it the preferred choice. ”

(Contact: Randy Reaman, Water Treatment Plant Supervisor)

A costly building expansion was avoided by constructing the ACTIFLO process inside one of the existing clarifiers. The plant capacity was increased by 80 percent.

Calgary

In April 2004, The City of Calgary Waterworks selected John Meunier Inc. to provide equipment to upgrade its two water treatment facilities.

The City will be upgrading the Bears paw Water Treatment Plant and the Glenmore Water Treatment Plant.

John Meunier inc. will supply ACTIFLO clarifiers which will raise the capacity to 550,000 m³/d for each plant.



Bears paw Water Treatment Plant

The new ACTIFLO clarifiers will be installed for the pretreatment phase of each plant.

The Bears paw plant draws water from the Bow River, and the Glenmore plant draws water from the Elbow river. Because of high turbidity of river water during times of spring runoff, the City was sometimes forced to reduce capacity at both plants to preserve drinking water quality. The rivers have recorded turbidities of more than 1000 NTU (nephelometric turbidity units) during spring runoff, which caused temporary overload for the existing pretreatment sedimentation basins and filters. With the ACTIFLO technology, the water treatment plants will efficiently produce drinking water of high quality, while meeting and exceeding the regulations for drinking water quality.

(Contact: Steven Dold, Project Manager, City of Calgary)

WORLDWIDE DISTRIBUTION OF ACTIFLO

The ACTIFLO process is used around the world to treat water and wastewater, and to produce drinking water, process water and effluents that meet or exceed the most stringent water quality criteria.

USA	:	125
Canada	:	75
France	:	55
All Others	:	75

For a total of 330 installations (December 2005).

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It is published by:
John Meunier Inc.
4105 Sartelon St.
St. Laurent, Quebec
H4S 2B3

Editor : Francis Bordeleau, P.Eng.

Tel. : 514.334.7230
Fax. : 514.334.5070

WWW.ACTIFLO.CA