

## Inside this Issue

CEC Report

Announcement

Centrifuge Project

Use of a Centrifuge for  
Liquid/Solid Manure  
Separation



### CEC Report on Hog Production in MB

The report may be viewed at the  
following website:

[http://www.gov.mb.ca/conservation/hog\\_industry/](http://www.gov.mb.ca/conservation/hog_industry/)

### Recent Amendments to the Regulation

Amendments may be viewed at  
the following website:

[http://web2.gov.mb.ca/laws/reg/index\\_annual.php](http://web2.gov.mb.ca/laws/reg/index_annual.php)

Environmental Services  
Livestock Section  
Manitoba Conservation  
Box 46 – 200 Saulteaux Cr.  
Winnipeg, MB R3J 3W3  
Ph.: 204-945-7084  
Fax: 204-948-2420

# LMMMR News

News from Conservation's Environmental Services: Livestock Section

## Clean Environment Commission Report

The Clean Environment Commission report on *Environmental Sustainability and Hog Production* in Manitoba was released to the public March 3, 2008. The Minister of Conservation accepted, in principle, the report and its 48 recommendations.

The CEC investigation included a review of the environmental protection measures in place in Manitoba; a series of public meetings; a review of the department's report *An Examination of the Environmental Sustainability of the Hog Industry in Manitoba*, efforts being made in other jurisdictions; and consideration of options.

The CEC indicated that there were 189 presentations made to the commission as well as 50 written submissions. It also commissioned independent research from the International Institute for Sustainable Development, the George Morris Centre and the University of Manitoba.

Several of the report's 48 recommendations propose further review, study, data collection and long-term projects. The recommendations pertain to a number of categories including: Regulations/Legislation; Research; Policy; Odour; Water Conservation/Quality; Labour; and others. In response to the CEC report, the Minister of Conservation announced an action plan to implement the recommendations.

## April 10<sup>th</sup> 2008 Announcement

The Manitoba government announced an indefinite moratorium on expansion of the pig industry in three regions under amendments to The Environment Act.

Moratoriums affect three regions in the province. (See Figure 1)

**The first is the South-East Intensively Developed Area which includes the municipalities of De Salaberry, Hanover, La Broquerie and Ste. Anne.**

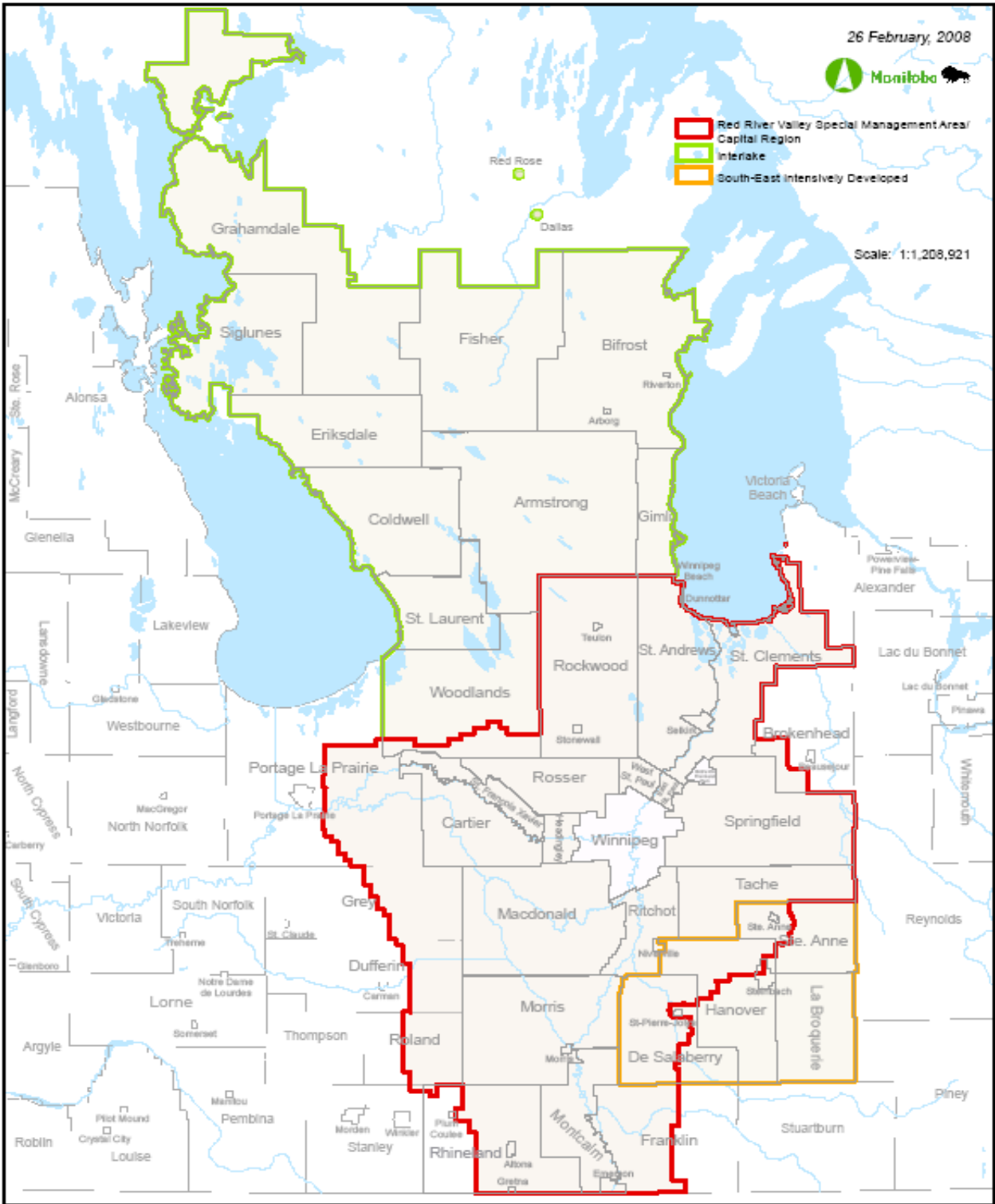
**The second is the Red River Valley Special Management Area/Capital Region which includes all or parts of the municipalities of Brokenhead, Cartier, Dufferin, East St. Paul, Franklin, Grey, Headingley, MacDonald, Montcalm, Morris, Portage la Prairie, Rhineland, Ritchot, Rockwood, Roland, Rosser, Springfield, St. Andrews, St. Clements, St. Francois Xavier, Tache, West St. Paul and Winnipeg.**

**The third region is the Interlake which includes the municipalities of Armstrong, Bifrost, Coldwell, Ericksdale, Fisher, Gimli, Grahamdale, St. Laurent, Siglunes and Woodlands.**

## Use of a Centrifuge for Liquid / Solid Manure Separation

The purpose of the project was to test in Manitoba a technology that may potentially be used to separate solids and phosphorus from raw liquid manure. The centrifuge technology is

Figure 1. Moratorium Map.



currently used on hog operations in Québec. The centrifuge used in this project was brought in from IRDA (Institut de Recherche et Développement en Agroenvironnement) in Québec. It was installed in a mobile trailer equipped with a mixing tank, laboratory and control panel.

The centrifuge performed as expected on site, and this manure treatment system might be an alternative for hog operations in Manitoba to address phosphorus issues in certain areas. Solids were removed at an average of 45%, and phosphorus was removed at an average of 63%.

The solid fraction was at 67% moisture content and the following nutrients were found in significant amounts in the solid fraction: phosphorus (12 kg/tonne), nitrogen (11 kg/tonne), magnesium (9 kg per tonne), ammonium (7 kg per tonne), and calcium (4 kg per tonne).

The objective of this project was to demonstrate the efficiency of a centrifuge to remove solids and phosphorus from raw liquid manure.

The report, that may be viewed at, [www.gov.mb.ca/conservation/envpro/grams/livestock](http://www.gov.mb.ca/conservation/envpro/grams/livestock) provides technical assessment of the effectiveness of this technology to address the phosphorus issue in Manitoba for livestock producers.



**Figure 3. Mobile Trailer.**

A Field Day was held August 22, 2007 at Heritage Hog Farm in the RM of Hanover.

Innovations Fund (SDIF) as well as the Livestock Stewardship Initiative (LSI) Fund.

Project partners included: Manitoba Conservation, Manitoba Agriculture, Food and Rural Initiatives and Puratone Corporation.

Funding for this project was provided by the Sustainable Development



**Figure 2. Centrifuge.**

**Who are you going to call?**

Manure management plan questions should be directed to Environmental Services. Matters regarding all other aspects of the *Livestock Manure and Mortalities Regulation* should be directed to the Regional contacts. For reporting a spill, emergency spreading, or any emergencies, call your Regional contact. After hours, use the emergency response number.

<b>Emergency Response</b> 944-4888	
<b>MMP</b>	<b>Environmental Services</b> Ph: 945-3078 Winnipeg or 945-3789 Fax: 948-2420
<b>Regional Contacts Manitoba Conservation</b>	<b>Central</b> Ph: 642-6095 Gimli Ph: 945-5305 Winnipeg <b>Eastern</b> Ph: 346-6060 Steinbach Ph: 345-1447 Lac Du Bonnet <b>Western</b> Ph: 726-6064 Brandon