

Webb, Bruce (CWS)

From: Webb, Bruce (CWS)
Sent: May-15-13 11:22 AM
To: Steele, Tania (CWS)
Subject: Town of Deloraine Water Treatment Plant Upgrade File: 5639.00

The attached material can be placed in the public registries for the above project:

Public Comments: none received.

Technical Advisory Comments: (13 pages)

Manitoba Conservation and Water Stewardship – Environmental Compliance and Enforcement Branch, April 24, 2013
Manitoba Conservation and Water Stewardship – Sustainable Resource and Policy Management Branch and Lands Branch, April 26, 2013
Manitoba Conservation and Water Stewardship – Parks and Natural Areas Branch, April 22, 2013
Manitoba Conservation and Water Stewardship – Wildlife Branch, March 27, 2013
Manitoba Conservation and Water Stewardship – Environmental Programs and Strategies Branch, Air Quality Management Section, April 22, 2013
Manitoba Conservation and Water Stewardship – Water Science and Management Branch, Water Quality Management Section, April 12, 2013
Manitoba Conservation and Water Stewardship – Fisheries Branch, May 4, 2013
Manitoba Conservation and Water Stewardship – Office of Drinking Water, April 26, 2013
Manitoba Conservation and Water Stewardship – Water Control Works and Drainage Licensing Section, April 2, 2013
Manitoba Infrastructure and Transportation – Highway Planning and Design Branch, Environmental Services Section, April 3, 2013
Manitoba Local Government – Community Planning Services Branch, April 9, 2013
Manitoba Health – Prairie Mountain Health, Medical Officer of Health, April 25, 2013

Bruce.

The undersigned reviewed the Manitoba Environment Act Proposal for the 'Town of Deloraine Rural Water Supply System Expansion'. Here are the observations from the Manitoba Conservation and Water Stewardship- Environmental Compliance and Enforcement wing.

Observations:

1. The Town of Deloraine (RM of Winchester) ('applicant' hereafter) aims at upgrading its existing conventional water treatment plant (WTP) to meet current and future needs and associated drinking water safety requirements. The existing WTP provides treatment and disinfection for 977 people with a rated capacity of 7.5L/Sec and 454 m³ of reservoir storage capacity. The upgraded system will be located (adjacent to the existing water treatment plant and includes construction of 12L/Sec membrane WTP.
2. The proposed treatment plant will have reject water equivalent to 25% of the raw water usage (approx. 108,000L/day). Highly mineralized reject water that would be stored in a holding pond 160 m to the east of the WTP and would be discharged twice a year in the spring and fall to a ditch leading to the East Medora Creek which eventually empties into the Souris river near the Village of Napinka. The 22,555m³ storage pond will be constructed to hold equivalent of 200 days of storage (November to May). The holding pond will include the volume of the existing lime sludge cells, which will be converted and expanded to the north of the existing cells.
3. Currently, the applicant holds an EAL (No. 1734, file No. 3605.00, issued on December 17, 1993) for discharge of supernatant to the East Branch of the Deloraine drain and the final disposal of dewatered sludge at the Deloraine Waste Disposal Ground with major conditions that the suspended solids content of the effluent will not be in excess of 25mg/L, and the effluent from the sludge dewatering beds would not be discharged between 1st May of November of any year and 1st May of the following year.
4. Impacts of the development on the groundwater, vegetation, wildlife habitat, climate change, human health, air quality, soil, surface water, groundwater and fisheries are insignificant.
5. The applicant needs to comply with the standard construction specifications applicable for the holding pond with clay or other suitable material such that interior surfaces of the holding pond incorporate a continuous layer.

Conclusive comment:

The Environmental Compliance and Enforcement Branch and Manitoba Conservation has NO CONCERN about the proposed development. However, the contractor needs to comply with standard specifications for holding pond, and no fuel-related activities should be permitted within 100m of the watercourses during construction.

Reviewed by:

Apurba Krishna Deb
Environment Officer-Western region
Manitoba Conservation and water Stewardship
Brandon
Ph. 204-726-6032

Webb, Bruce (CON)

From: Kaita, Adara (CON) on behalf of +WPG1212 - Conservation_Circulars (CON)
Sent: April-26-13 9:12 AM
To: Webb, Bruce (CON) *BW*
Subject: EA Proposal - File 5639 - Town of Deloraine - Deloraine Water Treatment Plant Upgrade

Hi Bruce,

The Sustainable Resource and Policy Management Branch and the Lands Branch have no concerns.

Adara Kaita

Crown Land Programs and Policy Manager
Conservation and Water Stewardship
Box 25, 200 Saulteaux Crescent
Winnipeg, MB R3J 3W3
Cell: (204) 945-6301
F: (204) 948-2197

Webb, Bruce (CON)

From: Kelly, Jason (CON)
Sent: April-22-13 10:42 AM *BW*
To: Webb, Bruce (CON)
Subject: Request for review & comments: File 5639 TOWN OF DELORAINE - DELORAINE WATER TREATMENT PLANT UPGRADE: 5639.00

Parks and Natural Areas Branch has reviewed the proposal filed pursuant to the Environment Act the Request for review & comments: File 5639 TOWN OF DELORAINE - DELORAINE WATER TREATMENT PLANT UPGRADE: 5639.00. The Branch has no comments to offer as this does not impact any parks or ecological reserves.

Jason Kelly, M.N.R.M.
Ecological Reserves and Protected Areas Specialist
Parks and Natural Areas Branch
Conservation and Water Stewardship
Box 53, 200 Saulteaux Cres
Winnipeg, MB R3J 3W3

Phone: 204-945-4148
Cell:
Fax: 204-945-0012

Email: Jason.Kelly@gov.mb.ca

Webb, Bruce (CWS)

Subject: FW: Request for review & comments: File 5639 TOWN OF DELORAINÉ - DELORAINÉ WATER TREATMENT PLANT UPGRADE: 5639.00

From: Wiens, Jonathan (CON)
Sent: March-27-13 9:25 AM *BW*
To: Webb, Bruce (CON)
Subject: RE: Request for review & comments: File 5639 TOWN OF DELORAINÉ - DELORAINÉ WATER TREATMENT PLANT UPGRADE: 5639.00

Wildlife Branch has no concerns with client file 5639.

Jonathan Wiens, MSc
Habitat Specialist
Manitoba Conservation
Box 24 - 200 Sauleteaux Crescent
Winnipeg, Manitoba, R3J 3W3
Phone: (204) 945-7764
Mobile: (204) 918-3420
Fax: (204) 945-3077
Email: jonathan.wiens@gov.mb.ca

Webb, Bruce (CWS)

Subject: FW: Request for review & comments: File 5639 TOWN OF DELORAINE - DELORAINE WATER TREATMENT PLANT UPGRADE: 5639.00

From: Molod, Rommel (CON)

Sent: April-22-13 1:45 PM

To: Webb, Bruce (CON)

Cc: Streich, Laurie (CON)

Subject: RE: Request for review & comments: File 5639 TOWN OF DELORAINE - DELORAINE WATER TREATMENT PLANT UPGRADE: 5639.00

Bruce, Air Quality has reviewed the above proposal and have no comment. The proposal has no significant impact on air quality.

Thank you for the opportunity to review.

Rommel



DATE: April 12, 2013

Memorandum

TO: Bruce Webb *Blw*
Environmental Approvals Branch
160-123 Main Street, Winnipeg,
MB
R3C 1A5

FROM: Joy Kennedy
Water Quality Management Section
Water Science and Management Branch
160-123 Main Street, Winnipeg, MB
R3C 1A5

Cc Nicole Armstrong
Sharon Gurney

TELEPHONE: 945-7908
FACSIMILE: 948-2357
EMAIL: joy.kennedy@gov.mb.ca

**SUBJECT: ENVIRONMENT ACT PROPOSAL FILE: 5639.00 TOWN OF
DELORAINÉ WATER SUPPLY SYSTEM EXPANSION**

- The Water Quality Management Section is concerned with any discharges that have the potential to impact the aquatic environment and/or restrict present and future uses of the water. Therefore it is recommended that the license require the proponent to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director.

Joy Kennedy

Webb, Bruce (CWS)

From: Janusz, Laureen R (CWS)
Sent: May-04-13 10:50 PM
To: Webb, Bruce (CWS) *Br*
Cc: Bruederlin, Bruno (CWS)
Subject: EAP 5639 TOWN OF DELORAINE - DELORAINE WATER TREATMENT PLANT UPGRADE due April 29

Hi Bruce,

Fisheries Branch has reviewed this request to upgrade the Deloraine water treatment plant in NE 03-03-23 W and SW 03-03-23 W by constructing a 12L/s membrane WTP located next to the existing plant. The highly mineralized reject water will be discharged to a storage pond located 160 m to the east of the WTP and will be drained twice per year between May 1 and November 1, to the East Medora Creek which empties into the Souris River. *Based on the proposed storage pond design a maximum discharge rate of concentrate to the East Medora Creek is estimated to be 36.7 L/s. The reject water ultimately flows to the Souris River. During high flow conditions, the impact of the discharged concentrate is negligible. During low flow conditions there is a small measurable impact. At low flow conditions, TDS is increased approximately by 5%. It should be noted that during the fall discharge the East Medora Creek flow may only consist of the membrane concentrate alone.* The source of the raw water is from the Deloraine Reservoir. The annual usage of water for the new treatment system will still be below the current licensed amount however an amendment will be needed to increase the pumping rate to a maximum of 0.017 m³/s. The applicants indicate they will monitor water quality of East Medora Creek.

Medora Creek supports large and small bodied fish species. It is important that the discharge meet or exceed Manitoba Water Quality Standards, Objectives and Guidelines to which we defer to our colleagues in Water Quality Management section on recommendations for monitoring (preferably East Medora Creek) and parameters. We note that the discharge window they have identified is different than the window for waste water effluent. Is the window they've identified correct?

Thanks Bruce.

Laureen Janusz
Fisheries Science and Fish Culture Section
Fisheries Branch,
Manitoba Conservation and Water Stewardship
Box 20, 200 Saulteaux Crescent
Winnipeg, MB R3J 3W3

Phone: 204.945.7789
Cell: 204.793.1154
Fax: 204.948-2308
Email: Laureen.Janusz@gov.mb.ca

Webb, Bruce (CWS)

From: Stibbard, James (MWS)
Sent: April-26-13 2:21 PM
To: Webb, Bruce (CON) *BW*
Subject: Re: 5639.00 Town of Deloraine WTP Upgrade EAP

Bruce,

I went through the above noted EAP for discharge of UF/RO reject water from a new UF/RO treatment process at the Town of Deloraine water treatment plant. The EAP gives a schedule of beginning construction of the new plant in "spring 2013". It should be noted that, under *The Drinking Water Safety Act*, work cannot begin on this project until a Permit to Construct or Alter A Public Water System has been issued by our Office. To date, we have not received a Permit application for this project. For projects of this size and complexity, the Permit preparation process can take some time and it cannot begin until we get the application package.

The Proponent should be encouraged to get their Permit application into our Office as soon as possible.

Beyond this point, we have no other concerns with this EAP or the proposed development.

I trust this is satisfactory, but if you have any questions, please call.

Thanks,

James Stibbard P. Eng.

Approvals Engineer

Office of Drinking Water

1007 Century Street

Winnipeg MB R3H 0W4

phone: (204) 945-5949

fax: (204) 945-1365

email: James.Stibbard@gov.mb.ca

website: www.manitoba.ca/drinkingwater

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Webb, Bruce (CWS)

Subject: FW: Request for review & comments: File 5639 TOWN OF DELORAINÉ - DELORAINÉ WATER TREATMENT PLANT UPGRADE: 5639.00

From: Nicklin, Darren (MWS)
Sent: April-02-13 3:16 PM
To: Webb, Bruce (CON) *BW*
Subject: RE: Request for review & comments: File 5639 TOWN OF DELORAINÉ - DELORAINÉ WATER TREATMENT PLANT UPGRADE: 5639.00

Hello Bruce,

Any water control works pertinent to this project would require a license.



Infrastructure and Transportation
Highway Planning and Design Branch
Environmental Services Section
1420 - 215 Garry St., Winnipeg, MB R3C 3P3
T (204) 819-4359 F (204) 945-0593

April 3, 2013

BL
Tracey Braun, M. Sc.
Director, Environmental Approvals Branch
Manitoba Conservation and Water Stewardship
123 Main St., Suite 160
Winnipeg, MB R3C 1A5

RE: Town of Deloraine
WTP Upgrade
Client File No 5639.00

Dear Ms. Braun:

MIT has reviewed proposal noted above and we do not have concerns with the development as proposed.

Thank you very much for providing us the opportunity to review the proposal.

Sincerely,

Ryan Coultter, M. Sc., P. Eng.
Manager of Environmental Services

Webb, Bruce (CWS)

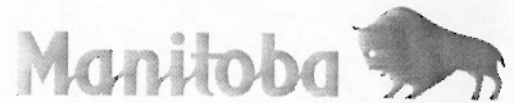
Subject: FW: Request for review & comments: File 5639 TOWN OF DELORAINÉ - DELORAINÉ WATER TREATMENT PLANT UPGRADE: 5639.00

From: Brown, Terry (MLG)
Sent: April-09-13 4:00 PM
To: Webb, Bruce (CON)
Cc: Shaler, Samantha (MLG); Main, Lori (MLG)
Subject: RE: Request for review & comments: File 5639 TOWN OF DELORAINÉ - DELORAINÉ WATER TREATMENT PLANT UPGRADE: 5639.00

Bruce -- we have had the opportunity to discuss the plant upgrade with Manitoba Water Services staff -- we understand that a new plant will be constructed on-site and a new holding pond will be constructed east of the plant site in Delorainé on municipal land adjacent to the existing sewage lagoon -- we have not identified any land use concerns with this proposal which is allowed by the local zoning by-law.

Lori -- please file and do CPS entry.

Terry Brown, Regional Manager
Community Planning Services
Brandon Office 726-6275



April 25, 2013

Mr. Bruce Webb
Manitoba Conservation
Environmental Assessment and Licensing Branch
123 Main Street, Suite 160
Winnipeg, MB, R3C 2A5

Dear Mr. Webb:

Re: Town of Deloraine - Water Treatment Plant Upgrade, File: 5639.00

I have reviewed the proposal and have the following comments:

1. Environmental License clauses should ensure the following are addressed:
 - i. adherence to the Guidelines for Canadian Drinking Water Quality
 - ii. adherence to The Public Health Act Manitoba Regulations 330/88R and to applicable regulations in The Drinking Water Safety Act
 - a) monitoring of the East Medora Creek should be considered to determine the environmental impact of the reject water from the water treatment process.
2. Other issues:
 - i. Will the old WTP be decommissioned? If so, how will this occur?

Sincerely,

"Original Signed By"

Dr. Amy Frykoda, MD, CCFP, MSc
Medical Officer of Health
Prairie Mountain Health