

Webb, Bruce (CWS)

From: Webb, Bruce (CWS)
Sent: May-22-13 12:49 PM
To: Steele, Tania (CWS)
Subject: Berens River Water Treatment Plant File: 5641.00

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

Public Comments: none received.

Technical Advisory Committee Comments: (8 pages)

Manitoba Conservation and Water Stewardship - Environmental Compliance and Enforcement Branch, May 1, 2013
Manitoba Conservation and Water Stewardship – Parks and Natural Areas Branch, May 13, 2013
Manitoba Conservation and Water Stewardship – Water Science and Management Branch, Water Quality Management Section, April 15, 2013
Manitoba Conservation and Water Stewardship – Fisheries Branch, May 19, 2013
Manitoba Conservation and Water Stewardship – Office of Drinking Water, May 15, 2013
Manitoba Conservation and Water Stewardship – Water Use Licensing, April 15, 2013
Manitoba Infrastructure and Transportation – Highway Planning and Design Branch, Environmental Services Section, April 15, 2013

Bruce.

DATE: May 1, 2013

TO: Webb, Bruce *Blw*
Environmental Approvals
Conservation and Water Stewardship
Street 123 Main Street, Suite 160
Winnipeg MB R3C 1A5

FROM: Innes, Kris
Environmental Compliance and
Enforcement Branch
Conservation and Water Stewardship
Box 4000
Lac du Bonnet MB R0E 1A0
P: (204) 345-1428
F: (204) 345-1415

**SUBJECT: Request for review & comments Manitoba Aboriginal And Northern Affairs –
Berens River Water Treatment Plant : 5641.00**

Conservation and Water Stewardship – Environmental Compliance and Enforcement Branch has no comments/concerns.

Webb, Bruce (CWS)

From: Kelly, Jason (CWS)
Sent: May-13-13 8:30 AM
To: Webb, Bruce (CWS) *BW*
Subject: Request for review & comments Manitoba Aboriginal And Northern Affairs - Berens River Water Treatment Plant : 5641.00 Closing date: May 20, 2013

Parks and Natural Areas Branch has reviewed the proposal filed pursuant to the Environment Act for the Request for review & comments Manitoba Aboriginal And Northern Affairs - Berens River Water Treatment Plant : 5641.00 Closing date: May 20, 2013. 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

Memorandum

Date: April 15, 2013
To: Bruce Webb *BW*
Climate Change and Environmental
Protection Division
Environmental Approvals Branch
123 Main Street, Suite 160
Winnipeg MB R3C 1A5

From: Kevin Jacobs
Water Quality Management Section
Manitoba Conservation and Water
Stewardship
123 Main Street, Suite 160
Winnipeg MB R3C 1A5

<http://www.gov.mb.ca>

Subject: MANITOBA ABORIGINAL
AND NORTHERN AFFAIRS -
BERENS RIVER WATER
TREATMENT PLANT : 5641.00

Telephone: 204-945-4304
Facsimile: 204-948-2357
E-Mail: Kevin.Jacobs@gov.mb.ca

Hello Bruce,

Please find below comments regarding the proposed Berens River Water Treatment Plant upgrade on behalf of the Water Quality Management Section of Manitoba Conservation and Water Stewardship.

There is limited information provided with the proposal. It is noted the new water treatment plant will not result in increased flow. It is not stated how the new water treatment plant will differ from the existing plant with respect to chemicals used, and or any differing characteristics of reject water quantity or quality.

The Corix DAF information package shows that skimmer waste water solids concentration would be in the range of 15 to 20 mg/l however the filter backwash concentration of total solids would range from 150 to 200 mg/L. This discharge would occur in approximate 10 minute intervals periodically during operation.

The report notes that coagulants including Alum or Clear PAC 180 will be used. Sodium hydroxide would be used for pH adjustment and sodium hypochlorite would be used as a disinfectant.

With respect to water quality, the principle concern is to ensure that the water quality of Berens River and Lake Winnipeg is not adversely impacted by the development. The proponent would have to ensure that any discharges from the plant would be in compliance with the Manitoba Water Quality Standards, Objectives and Guidelines. Parameters of potential concern include but are not limited to chlorine residual, total suspended solids, and pH.

A general clause that could be included in a potential license is as follows:

- The Licencee shall not release any effluent from a final discharge point if: the effluent quality is resulting in, or is likely to directly or cumulatively result in, a downstream degradation of the water quality immediately beyond a maximum 10% mixing zone (by volume) within the Berens River, relative to the Manitoba Water Quality Standards,

Objectives, and Guidelines and/or nutrient control strategies and regulations developed by Manitoba Conservation and Water Stewardship.

Thank you for the opportunity to provide comments. Should you have any questions, please do not hesitate to contact me at the above telephone number.

Kevin Jacobs
Water Quality Management Section

Webb, Bruce (CWS)

From: Janusz, Lauren R (CWS)
Sent: May-19-13 1:21 PM *BW*
To: Webb, Bruce (CWS)
Cc: Kroeker, Derek (CWS); Long, Jeff (CWS)
Subject: EAP 5641 Manitoba Aboriginal And Northern Affairs - Berens River Water Treatment Plant due May 20 2013

Hi Bruce,

Fisheries Branch has reviewed this proposal submitted from *Arnason Industries Ltd. on behalf of Manitoba Aboriginal and Northern Affairs for the upgrading of the Berens River water treatment plant. The upgraded plant would be located at the site of the existing water treatment plant, and would utilize a package dissolved air flotation treatment process followed by ultraviolet disinfection and chlorination. The plant would treat approximately 28,000 litres of water daily with six hours of operation per day. Raw water for the system would continue to be pumped from the Berens River, and wastewater from the water treatment process would continue to be returned to the Berens River. There will be no increase in water production rates so the existing Water Rights Licence is applicable. The applicant indicates that the community will provide standard monitoring of wastewater to confirm prediction of "no effect".*

Overall there was very little information in the proposal to assist in reviewing this application. Most useful would have been background TSS levels in Berens River compared to the waste water as well as other relevant parameters including river flows and the ratio of wastewater to river.

Berens River provides year round habitat for a number of small and large bodied fish species as well as habitat for the completion of some life stages of fish species that reside in Lake Winnipeg. As long as the wastewater meets Manitoba Water Quality Standard Objectives and Guidelines for Aquatic Life and there is a monitoring requirement, fisheries concerns should be addressed. We defer to the recommendation of our colleagues in Water Science Management in this area.

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 (CWS)
Sent: May-15-13 2:23 PM
To: Webb, Bruce (CWS) BW
Subject: Re: 5641.00 Berens River MANA Community New WTP EAP

Mr. Webb,

I reviewed the above noted EAP for a new water plant at Berens River. Based upon the EAP, Office of Drinking Water has no concern with the EAP respecting drinking water safety. However, it should be emphasized to the Proponent that a Permit to Construct or Alter a Public Water System must be obtained from ODW before construction of the new water treatment plant begins. Permit application forms and explanatory materials are available on ODW's website.

If the Proponent has any questions, he can call Approvals Unit at 945-5936.

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

Regards,

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) BW

Subject: FW: Request for review & comments Manitoba Aboriginal And Northern Affairs - Berens River Water Treatment Plant : 5641.00 Closing date: May 20, 2013

If the annual raw water demand exceeds what is permitted on the existing water rights licence as a result of the change in treatment technology, then ANA will need to apply to the Water Use Licensing Section of MCWS to increase the annual allocation for the plant.

Rob

Manitoba



Infrastructure and Transportation
Highway Planning and Design Branch
Environmental Services Section
1420 - 215 Garry St., Winnipeg, MB R3C 3P3
T (204) 619-4359 F (204) 945-0593

April 15, 2013

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

RE: Manitoba Aboriginal and Northern Affairs
Berens River Water Treatment Plant
Client File No 5641.00

Dear Ms. Braun:

MIT has reviewed The Environment Act 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,

A handwritten signature in black ink, appearing to read "R. Coulter", written over a horizontal line.

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

Manitoba
spirited energy