



Conservation and Water Stewardship

Climate Change and Environmental Protection Division
Environmental Approvals Branch
123 Main Street, Suite 160, Winnipeg Manitoba R3C 1A5
T 204 945-8321 F 204-945-5229
www.gov.mb.ca/conservation/eal

File: 651.20

July 29, 2013

Tim Stratton, P.Eng.
Project Manager
Stantec Consulting Ltd.
905 Waverley Street
Winnipeg, MB R3T 5P4

Dear Mr. Stratton:

Re: Stephenfield Provincial Park Wastewater Treatment Lagoon Upgrades - Environment Act Proposal

The initial review of the Environment Act Proposal (EAP) regarding the Stephenfield Provincial Park Wastewater Treatment Lagoon Upgrades has been completed.

The review has generated comments/requests for additional information. Please respond to the comments and requests from the Technical Advisory Committee (TAC) presented in the attached item being:

1. Memorandum from Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated June 12, 2013;
2. E-mail from Office of Drinking Water, Manitoba Conservation and Water Stewardship, dated June 28, 2013;
3. E-mail from Fisheries Science and Fish Culture Section, Fisheries Branch, Manitoba Conservation and Water Stewardship, dated June 21, 2013; and
4. E-mail from Lands Branch, Manitoba Conservation and Water Stewardship, dated July 2, 2013.

Please address and respond to the comments and requests for additional information. The EAP review process will continue upon receipt of your response.

If you have any questions, please contact me at (204) 945-2614 or by e-mail at Rafiqul.Chowdhury@gov.mb.ca.

Yours truly,

“Original signed by”

Rafiqul Chowdhury, M.Eng., P.Eng
Environmental Engineer

Attachment

- c. Donna Smiley, Provincial Manager, Environmental Compliance and Enforcement Branch
Public Registries

Memorandum

DATE: June 12, 2013

TO: Rafiqul Chowdry
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: David Hay

TELEPHONE: 945-7908

FACSIMILE: 948-2357

EMAIL: joy.kennedy@gov.mb.ca

SUBJECT: **ENVIRONMENT ACT PROPOSAL FILE: 651.20 STEPHENFIELD
PROVINCIAL PARK WASTEWATER TREATMENT LAGOON
UPGRADE**

- The following effluent standards should be in place for Stephenfield Provincial Park wastewater lagoon as per the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation* (196/2011).
 - BOD₅ 25 mg/L
 - TSS 25 mg/L
 - Fecal Coliforms 200 MPN / 100mL
 - TP < 1 mg/L
- The *Manitoba Water Quality Standards, Objectives and Guidelines Regulation* requires new or expanding wastewater treatment facilities to meet a < 1 mg/L phosphorus limit. Can the proponent please indicate how the < 1 mg/L phosphorus limit will be achieved?
- Has the proponent considered an alternate discharge point or method of discharge? The Stephenfield Reservoir and the Boyne River are listed as vulnerable water bodies in the *Nutrient Management Regulation* (62/2008). Additionally, total phosphorous concentrations in the Boyne River at Carman have been increasing (Long term trends in Total Nitrogen and Total Phosphorus Concentrations in Manitoba Streams, Jones and Armstrong, 2001).
- Can the proponent please provide a map with a line drawing of the discharge route?
- 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.

From: Stibbard, James (CWS)
Sent: June-28-13 9:18 AM
To: Chowdhury, Rafiqul (CWS)
Subject: Re: 651.20 Stephenfield Provincial Park Facultative Wastewater Lagoon Expansion EAP

Mr. Chowdhury,

I reviewed the above noted EAP for expansion of the facultative wastewater lagoon system at Stephenfield Provincial Park in terms of potential threats to safety fo public water systems. Two points which can be noted are:

- The Stephenfield Regional Water Treatment Plant is located on the north side of the park and draws its raw water from the lake directly across from the lagoon outfall.
- The Town of Carman, located approximately 20 miles east of Stephenfield Provincial Park, draws the raw water for its public water system from the Boyne River.

While the chance of major contamination of either water system from effluent from the lagoon system is small, an accidental major spill from the lagoons could potentially cause contamination of these water supplies. As such, Office of Drinking Water recommends contact information for both the Stephenfield Regional Water Treatment Plant and the Town of Carman Water treatment Plant be included in the operating manual for the Stephenfield Park lagoon system with instructions that ,in the event of a major spill from the lagoons, the operators of the two water treatment plants be informed.

Apart from this point ODW has no other concerns with this EAP or proposed development.

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

Confidentiality Notice: This message, including any attachments, is confidential and may also be privileged and all rights to privilege are expressly claimed and not waived. Any use, dissemination, distribution, copying or disclosure of this message, or any attachments, in whole or in part, by anyone other than the intended recipient, is strictly prohibited.

From: Janusz, Laureen R (CWS)
Sent: June-21-13 7:51 PM
To: Chowdhury, Rafiqul (CWS)
Cc: Klein, Geoff (CWS); Long, Jeff (CWS)
Subject: EAP 651.20 Stephenfield Provincial Park WWTL due July 2

Hi Rafiqul,

Fisheries Branch has reviewed this proposal to upgrades to the wastewater treatment lagoon at Stephenfield Provincial Park in SW 36-6-7 W. The upgrades include the construction of a new synthetic lined secondary cell, raising the synthetic liners in the existing two cells and relining the outfall ditch with imported clay or synthetic liner. The effluent release time will remain between September 15th and October 31st. The proponents indicate that appropriate sediment control measures will be implemented during the construction until the site has stabilized and the RM will monitor phosphorous and nitrogen.

Stephenfield Reservoir provides year round habitat for a number of small bodied and recreationally important large bodied fish species (northern pike, yellow perch and walleye). It is important that the effluent meet or exceed Manitoba Water Quality Standards, Objectives and Guidelines and in this matter we defer to the recommendation of our colleagues in Water Science management. We would support the requirement for a post monitoring clause as well as a clause respecting the implementation of erosion and sediment control measures to ensure sediment does not enter the lake during lagoon construction and upgrade and the relining of the discharge ditch.

Thanks Rafiqul and have a great weekend.

Laureen Janusz
Fisheries Science and Fish Culture Section
Fisheries Branch
Conservation and Water Stewardship
Phone: 204 945-7789
Cell: 204 793-1154
Email: Laureen.Janusz@gov.mb.ca

From: Steele, Tania (CWS)
Sent: May-30-13 11:52 AM
To: Schindler, Dennis (MAFRI); Kaita, Adara (CWS); Labossiere, Don (CWS); Molod, Rommel (CWS); Streich, Laurie (CWS); Kanya, Veronika (CWS); Firlotte, Nicole (CWS); Kelly, Jason (CWS); Keenan, Phil (CWS); Missyabit, Ron (CWS); Hay, David (CWS); Phipps, Graham (CWS); Janusz, Laureen R (CWS); Stibbard, James (CWS); Matthews, Rob (CWS); Reimer, Geoff P (CWS); +WPG574 - HRB (CHT); Cunningham, Neil (CWS); Roberecki, Susan (HEALTH); Roberts, Tracy (HEALTH); +WPG969 - MIT Environmental Services Section (MIT); Shaler, Samantha (MLG); 'CEAAPrairieProjects@ceaa-acee.gc.ca'; 'EASouthPNR@ec.gc.ca'; Allum, Brad (MIT); Schafer, Dave (OFC); Kubish, Cheryl (OFC); Stonehouse, Perry (CWS); Misanchuk, Lorne (CWS)
Cc: Chowdhury, Rafiqul (CWS)
Subject: Review & comments - Stephenfield Provincial Park WWTL - File: 651.20

Your review and comments would be appreciated for the attached Proposal submitted pursuant to *The Environment Act*:

<http://www.gov.mb.ca/conservation/eal/registries/651stephenfield/index.html>

The contact person assigned to co-ordinate review and assessment of the Proposal is:

Contact Person: Rafiqul Chowdhury @ 204-945-2614. Email replies are programmed to automatically deliver to Rafiqul Chowdhury.

Please indicate to the contact person if you are unable to review the proposal. A non-reply will be considered as indicating your department has reviewed the proposal and has no concerns.

Any comments you have on the Proposal should be emailed by July 2, 2013.

****No hard copies will be provided****

Thank you.

Sent on behalf of:

Rafiqul Chowdhury, M.Eng., P.Eng.
Environmental Engineer
Mines and Wastewater Section
Environmental Approvals Branch
Manitoba Conservation and Water Stewardship
Government of Manitoba, Canada

160 -123 Main Street, Winnipeg, Manitoba R3C 1A5
Phone: (204) 945-2614, Fax: (204) 945-5229
Email: rafiquel.chowdhury@gov.mb.ca

From: Kaita, Adara (CWS) on behalf of +WPG1212 - Conservation_Circulars (CWS)
Sent: July-02-13 1:14 PM
To: Chowdhury, Rafiqul (CWS)
Subject: EA Proposal - MCWS - Parks and Natural Areas - Stephenfield Provincial Park
Wastewater Treatment Lagoon - File: 651.20

Hi Rafiqul,

The Watersheds and Protected Areas Branch has no concerns. The Lands Branch notes that this is a Parks and Natural Areas initiative involving lands under the Administration and Control of Parks. The Conclusion, number 11 on page 25 should be considered as an additional component to the overall plan.

11. Consideration can be given to relocating the treated effluent outfall to directly downstream of the spillway to the east as an environmental enhancement to the Stephenfield Park recreation area and the Stephenfield Regional Water Treatment Plant raw water supply. Stantec has discussed this issue with Manitoba Conservation Environmental Licencing and they have not advised yet whether this relocation is a requirement.

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