

Date: August 8, 2014

File: 5697.00

To: Tania Steele
Licensing Clerk
Environmental Approvals Branch
123 Main Street
Ste. 160 Union Station
Winnipeg, Mb R3C 1A5

From: Rob Boswick, P. Eng.
Environmental Engineer
Environmental Approvals Branch
123 Main Street
Ste. 160 Union Station
Winnipeg, Mb R3C 1A5

Subject: **Town of Virden – Wastewater Treatment Plant Upgrade – EAP Material to Public Registries**

Please distribute the attached material pertaining to the Town of Virden – Wastewater Treatment Plant Upgrade Environment Act Proposal review to the appropriate Public Registries.

Attached are:

1. Letter (4 pages) from Associated Engineering (Sask.) Ltd. to Environmental Approvals Branch – Manitoba Conservation and Water Stewardship, dated April 21, 2014;
2. Email message (1 page) from Wildlife Branch – Manitoba Conservation and Water Stewardship, dated March 28, 2014;
3. Email message (1 page) from Community and Regional Planning, Steinbach Community Planning Services Office – Manitoba Municipal Government, dated March 28, 2014;
4. Email message (1 page) from Crown Land Programs and Policy Manager – Manitoba Conservation and Water Stewardship, dated March 26, 2014;
5. Email message (1 page) from Office of the Fire Commissioner – Manitoba Family Services and Labour, dated March 7, 2014;
6. Letter (1 page) from Environmental Services Section, Highway Planning and Design Branch – Manitoba Infrastructure and Transportation, dated March 6, 2014;
7. Email message (1 page) from Manitoba Conservation and Water Stewardship, dated March 4, 2014;
8. Email message (1 page) from Parks and Protected Spaces Branch – Manitoba Conservation and Water Stewardship, dated March 3, 2014; and
9. Email message (1 page) from Water Use Licensing Section – Manitoba Conservation and Water Stewardship, dated February 26, 2014.

There are a total of 12 pages attached to this memo.

Thank you,

Rob Boswick
Attachments



April 21, 2014

File: 2013-4246.000

Robert Boswick
Environmental Engineer
Manitoba Conservation and Water Stewardship
123 Main Street, Suite 160
Winnipeg MB R3C 1A5

Re: TOWN OF VIRDEN - WASTEWATER TREATMENT PLANT UPGRADE - ENVIRONMENT ACT PROPOSAL

Dear Mr. Boswick:

We received your letter response, dated April 4, 2014, to the Environment Act Proposal (EAP) for the planned upgrades for the Town of Virden (Town) wastewater treatment plant. We have reviewed each of the documents containing comments and requests provided by the Technical Advisory Committee, including;

1. Memorandum from Water Quality Management Section, Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated April 3, 2014;
2. Email message from Groundwater Management Section – Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated March 25, 2014;
3. Email message from Office of drinking Water – Manitoba Conservation and Water Stewardship, dated March 25, 2014; and
4. Letter from Medical Officer of Health – Prairie Mountain Health, dated March 20, 2014.

This letter outlines Associated Engineering (AE)'s responses to each of the comments provided.

Comments from memorandum from Water Quality Management Section, Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated April 3, 2014

"The following effluent standards should be in place for the Town of Virden wastewater treatment facility 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
- Total phosphorus <1 mg/L



April 21, 2014
Robert Boswick
Manitoba Conservation and Water Stewardship

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- Ammonia concentrations as outlined in Table 1 of Manitoba Water Quality Standards, Objectives, and Guidelines using Equations 3 & 6 and based on effluent pH"

[AE Response: Noted. As per section 1.2.2, tables 1-2 and 1-3 in the EAP, we anticipate the Environmental Approvals Branch will incorporate these effluent standards into the licence.]

"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."

[AE Response: Noted. We anticipate the Environmental Approvals Branch will incorporate this recommendation into the licence.]

Comments from email message from Groundwater Management Section – Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated March 25, 2014

"The effluent design requirements for fecal coliform and E.coli (presented in Table 1-2) is ≤ 200 MPN/100 mL. However, this is above the Manitoba Water Quality Standards, Objectives, and Guidelines value of 0 MPN/100 mL for fecal coliform bacteria and E.coli in groundwater as a drinking water source (TIER II - Water Quality Objectives). Due to the potential for the infiltration of treated effluent into shallow soils along the discharge channel, it would be prudent to determine if any water well users are located in close proximity to the discharge channel, and if so, assess any environmental effects and mitigation."

[AE Response: A review of the well logs finds that most of the Town wells were installed in the early to late 1980's. Since then, these Town residents are expected to have converted to the treated Town water supply. The wells located outside the limits of the Town water supply appear to be in excess of 500 m from the discharge channel, and are not expected to be influenced by the discharge to the drainage channel. In addition, these wells are already located in an existing groundwater pollution hazard area and are GUDI and likely subject to long term influence by existing industrial and livestock practices.

Virden's current mitigation strategy is to reduce any potential loading hazard along the discharge channel by improving the discharge quality with the proposed wastewater treatment facility upgrades.]



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Robert Boswick
Manitoba Conservation and Water Stewardship
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Comments from email message from Office of drinking Water – Manitoba Conservation and Water Stewardship, dates March 25, 2014

“...the effluent outfall from the Virden WW plant is upstream from the raw water intake for the City of Brandon Water Treatment Plant. Under normal operating conditions the Brandon water plant can treat the river water, but if a major spill of untreated or partly treated wastewater into the river from the Virden WW plant were to occur, it would have the potential to adversely affect treatment facilities downstream. As such, ODW recommends that contact information for the Brandon water treatment plant be included in the Emergency Response Plan for the new Virden WW Plant, with instructions that, in the event of a major spill of partially treated or untreated wastewater from the Virden WW plant, the operators at the Brandon Water Plant be notified.”

[AE Response: Noted. We will provide this information to the Town of Virden to incorporate into their emergency response plan for the new wastewater treatment plant.]

Comments from letter from Medical Officer of Health – Prairie Mountain Health, dated March 20, 2014.

“...it appears that the areas outline(d) below have been addressed. If any of these areas has not been adequately addressed, please ensure that they are.

1. Odour control and monitoring.
2. Air emission criteria will be met, including greenhouse gas emissions.
3. Any discharge of effluent is in compliance with Manitoba Environment's guidelines.
4. Ongoing reporting and appropriate disposal of all hazardous wastes.
5. Leachate, soil and groundwater monitoring.
6. Containment design provides the best possible groundwater protection for the area.
7. Prevention of pollutant or contaminated wastewaters from entering sewage disposal and municipal ditch systems.
8. Fencing, gates, and warning signs included to ensure public safety, in case of unsupervised public access to the development.
9. Noise level concerns addressed.
10. Availability for review of an emergency response plan.”

[AE Response: We agree that each of the above-mentioned areas of concern have been addressed in the EAP. Although “Fencing, gates, and warning signs” are not mentioned explicitly in the EAP, erecting appropriate barricades to help protect the public is considered a standard construction



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Manitoba Conservation and Water Stewardship
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practice. In addition, the wastewater treatment facility site is already partially fenced in to prevent unauthorized access.]

We trust these responses adequately address each comment and question provided by the Technical Advisory Committee. If further information is required, please contact me at vanwalleghmo@ae.ca, or Ken Anderson at andersonk@ae.ca. Either of us can also both be reached by calling the Associated Engineering office at 204-942-6391.

Yours truly,

A handwritten signature in blue ink, appearing to read 'O.V. Walleghem'.

Owen Van Walleghem, P.Eng.
Project Engineer

OV

Boswick, Robert (CWS)

From: Boissonneault, Caroline (CWS)
Sent: March-28-14 9:48 AM
To: Boswick, Robert (CWS)
Subject: Emailing: Request for comments EA Proposal Town of Virden - File 5697.00 due March 28 2014
Attachments: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

Hello:

Wildlife Branch has no comments to add regarding this proposal. Thank you.

Caroline Boissonneault

Conservation and Water Stewardship

Wildlife Branch

Tel.: 204-945-6810

Caroline.boissonneault@gov.mb.ca

Your message is ready to be sent with the following file or link attachments:

Request for comments EA Proposal Town of Virden - File 5697.00 due March 28 2014

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Boswick, Robert (CWS)

Subject: FW: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

From: Sumner, Kevan (MMG)

Sent: March-28-14 4:24 PM

To: Boswick, Robert (CWS)

Subject: FW: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

Hi Robert,

I have reviewed the Proposal on behalf of the Community and Regional Planning Branch of Manitoba Municipal Government. The subject property is zoned "MH" Industrial Heavy Zone by the Town of Virden Zoning By-law No. 2415, as amended. Sewage treatment plants are a conditional use in the "MH" zone. The proposed expansions to the sewage treatment plant will require conditional use approval from the Town of Virden. We further advise that a development permit from the Town of Virden is required for the proposed structures.

Kevan Sumner

Kevan W. Sumner

Regional Manager

Community and Regional Planning - Beausejour Regional Office

Acting Regional Manager

Community and Regional Planning - Brandon Regional Office

Ph: (204) 918-3538

Email: kevan.sumner@gov.mb.ca

Boswick, Robert (CWS)

From: Kaita, Adara (CWS) on behalf of +WPG1212 - Conservation_Circulars (CWS)
Sent: March-26-14 10:45 AM
To: Boswick, Robert (CWS)
Subject: EA Proposal - Town of Virden - Wastewater Treatment Plant Upgrades - File: 5697.00

Hello Robert,

The Lands Branch and the Protected Areas Initiative have no concerns with the EA, as the surface tenure is owned by the Municipality.

Thank for the opportunity to review.

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

Boswick, Robert (CWS)

Subject: FW: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

From: Kubish, Cheryl (OFC)

Sent: March-07-14 3:19 PM

To: Boswick, Robert (CWS)

Subject: FW: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

At this time, the Office of the Fire Commissioner has no concerns with respect to the expansion of the wastewater treatment facility.

Cheryl Kubish
Administrative Assistant
Office of the Fire Commissioner
508-401 York Avenue
Winnipeg MB R3C 0P8
Phone: 945-3328
Fax: 948-2089

E-Mail address: Cheryl.Kubish@gov.mb.ca



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

March 6, 2014

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 Virden - WWTP Upgrades
Client File No. 5697.00

Dear Ms. Braun:

MIT has reviewed the proposal under the Environment Act noted above and we do not have any concern.

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

Sincerely,

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

Boswick, Robert (CWS)

Subject: FW: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

From: Misanchuk, Lorne (CWS)

Sent: March-04-14 3:16 PM

To: Boswick, Robert (CWS)

Subject: RE: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

No concerns to material as presented.

Boswick, Robert (CWS)

Subject: FW: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

From: Kelly, Jason (CWS)

Sent: March-03-14 10:12 AM

To: Boswick, Robert (CWS)

Subject: RE: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

Parks and Protected Spaces Branch has reviewed the proposal filed pursuant to the *Environment Act* for the Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014. The Branch has no comments or concerns to offer as it does not affect any Provincial Parks, Park Reserves, Ecological Reserves, Areas of Special Interest, or proposed protected areas.

Jason Kelly, M.N.R.M.
Ecological Reserves and Protected Areas Specialist
Parks and Protected Spaces 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

Boswick, Robert (CWS)

From: Matthews, Rob (CWS)
Sent: February-26-14 12:54 PM
To: Boswick, Robert (CWS)
Subject: RE: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

No concerns.

Rob Matthews, Water Use Licensing Section, CWS

From: Steele, Tania (CWS)
Sent: February-26-14 11:23 AM
To: Schindler, Dennis (MAFRI); Kaita, Adara (CWS); Labossiere, Don (CWS); Molod, Rommel (CWS); Streich, Laurie (CWS); Firlotte, Nicole (CWS); Boissonneault, Caroline (CWS); Kelly, Jason (CWS); Keenan, Phil (CWS); Missyabit, Ron (CWS); Page, Elaine (CWS); Phipps, Graham (CWS); Janusz, Lauren R (CWS); Stibbard, James (CWS); Matthews, Rob (CWS); Reimer, Geoff P (CWS); +WPG574 - HRB (CHT); Cunningham, Neil (CWS); Roberecki, Susan (HEALTH); Peck, Angela (HEALTH); Allum, Brad (MIT); +WPG969 - MIT Environmental Services Section (MIT); Schafer, Dave (OFC); Kubish, Cheryl (OFC); Stonehouse, Perry (CWS); Misanchuk, Lorne (CWS); +BRA993 - Brandon CRP (MMG)
Cc: Boswick, Robert (CWS)
Subject: Request for comments EA Proposal Town of Virden - File: 5697.00 due March 28, 2014

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/5697virden/index.html>

The contact person assigned to co-ordinate review and assessment of the Proposal is: **Robert Boswick 204-945-6030**.

Email replies are programmed to automatically deliver to robert.boswick@gov.mb.ca

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 **March 28, 2014**.

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

Thank you.

Sent on behalf of:

Robert Boswick, P.Eng.
Environmental Engineer
Manitoba Conservation and Water Stewardship
REGULAR MAIL - 160-123 Main Street (BOX 80), Winnipeg MB R3C 1A5
COURIERS - 2nd Floor 123 Main Street, Winnipeg MB R3C 1A5
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