



DATE: January 31, 2017

TO: Robert Boswick
Environmental Approvals Branch
160-123 Main Street, Winnipeg, MB
R3C 1A5

cc. Elaine Page

FROM: Joy Kennedy
Water Quality Management Section
Manitoba Sustainable Development
Box 14, 200 Saulteaux Crescent
Winnipeg, Manitoba R3J 3W3

PHONE NO.: 204-945-7908

SUBJECT: NOTICE OF ALTERATION OF ENVIRONMENT ACT PROPOSAL FILE: 2708.02 WINKLER WASTEWATER TREATMENT PLANT: PROJECT UPDATE AND RESPONSES TO THE TECHNICAL ADVISORY COMMITTEE

- The following effluent standards should be in place for the City of Winkler wastewater treatment facility as per the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation* (196/2011).
 - CBOD 25 mg/L,
 - BOD 25 mg/L,
 - TSS 25 mg/L,
 - Fecal Coliforms or *Escherichia coli* 200 MPN / 100mL,
 - Total phosphorus < 1 mg/L,
 - Total nitrogen < 15 mg/L,
- Water Quality Management Section recommends the use of Equation 1 as a license requirement to calculate the effluent limits based on effluent pH and temperature. The equation can be found in Manitoba Water Stewardship Report 2011-01, Manitoba Water Quality Standards, Objectives, and Guidelines November 28, 2011. An excel spreadsheet containing the calculator for this equation can be found at: https://www.gov.mb.ca/waterstewardship/water_quality/quality/website_notice_mwqsog_2011.html

Sincerely,

Joy Kennedy

Boswick, Robert (SD)

From: Kneeshaw, Tyler (SD)
Sent: January-30-17 4:02 PM
To: Boswick, Robert (SD)
Cc: Smiley, Donna (SD)
Subject: RE: City of Winkler Wastewater Treatment Facility - Notice of Alteration and Responses to TAC - File No. 2708.20
Attachments: 20170118 - NoA Review comment - Winkler WWTP.DOC

Please see the attached comments regarding this NoA.

Tyler Kneeshaw
Regional Supervisor (Portage la Prairie) - Environment Officer
Manitoba Sustainable Development
Phone 204-239-3608 Fax 204-239-3215
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From: Boswick, Robert (SD)
Sent: January-13-17 11:45 AM
To: Kennedy, Joy (SD); 'Stibbard, James (CWS)'; Kubish, Cheryl (OFC); Ibn Azkar, Muntaseer (SD)
Cc: Labossiere, Don (SD); Smiley, Donna (SD); Kneeshaw, Tyler (SD)
Subject: City of Winkler Wastewater Treatment Facility - Notice of Alteration and Responses to TAC - File No. 2708.20

The responses from the Technical Advisory Committee (TAC) that contained requests for additional information regarding the Environment Act Proposal (EAP) for the City of Winkler wastewater treatment facility (WWTF) were forwarded to the proponent. The proponent was asked to address and respond to the comments contained in the responses and to provide additional information for the environmental review that is continuing.

The proponent's consultant's November 22, 2016 Notice of Alteration (NoA) relative to the original EAP can be accessed at...,

<http://www.gov.mb.ca/sd/eal/registries/2708.2winkler/nov2016noa.pdf> .

The NoA presents information regarding proposed alterations to the original design of the WWTF while Section 5 of the NoA provides specific responses to the comments and requests for additional information presented by the TAC during the initial review of the original EAP. Please review the NoA regarding the proposed alterations and the responses presented in Section 5 to determine if there are any new concerns as well as if your comments and requests for additional information on the original EAP have been satisfactorily addressed.

Your comments, if any, are requested by not later than January 31, 2017.

If you have any questions, please contact me at 945-6030.

Thank you,

Robert Boswick, P.Eng.
Environmental Engineer
Environmental Approvals Branch
Manitoba Sustainable Development
REGULAR MAIL - 160-123 Main Street (BOX 80), Winnipeg MB R3C 1A5

DATE: January 30, 2017

TO: Robert Boswick, P.Eng.
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Notice of Alteration – Winkler Wastewater Treatment Plant

Compliance and Enforcement unit has reviewed the above mentioned draft environment act licence and has the following comment:

- Total P was consistently omitted from the list of effluent criteria to be met (as prescribe under Manitoba Water Quality Standards, Objectives and Guidelines.
- The required concentration of ammonia as N at 24 °C and pH 7.5 should be 2.37 mg/L, not 3.39 mg/L as stated in the NoA.
- The NoA states that the primary concern with biosolids application to ground is the leaching and/or surface runoff of nitrogen and phosphorus. It should be noted that heavy metal build-up in the soil from continuous application could be a concern to be monitored in agricultural lands receiving biosolids application.
- It is not clear in the NoA how much of the projected Average Annual Flow (AAF) will originate from industrial/commercial developments in the City of Winkler and from the RM of Stanley. Table 5 presented no value for wastewater flows from commercial/industrial lots. City of Winkler currently has wet industries and businesses that are contributing to wastewater flow to the lagoon. There are also existing businesses in the RM of Stanley that are generating wastewater.