



Conservation and Water Stewardship

Environmental Stewardship 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: 39.40

February 13, 2015

Jason Cousin, P. Eng.
J. R. Cousin Consultants Ltd.
91 A Scurfield Blvd.
Winnipeg, MB R3Y 1G4

Via FAX 204-489-0487

Dear Mr. Cousin:

Re: Town of Altona – Wastewater Treatment Lagoon Expansion – Environment Act Proposal

The initial review of the Environment Act Proposal (EAP) for the expansion of the Town of Altona wastewater treatment lagoon has been completed.

The initial review has generated comments and requests for additional information. Please respond to the comments and requests from the Technical Advisory Committee presented in the attached items being:

1. Email message from Office of Drinking Water – Manitoba Conservation and Water Stewardship, dated January 16, 2015;
2. Memorandum from Water Quality Management Section, Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated January 6, 2015;
3. Email message from Office of the Fire Commissioner, dated December 29, 2014; and
4. Email message (w/ attachment) from Water Control Works and Drainage Licensing Section – Manitoba Conservation and Water Stewardship, dated December 19, 2014.

Please address and respond to the comments and requests for additional information. Resulting responses that are specifically pertinent to the EAP review are to be directed through Manitoba Conservation and Water Stewardship's Environmental Approvals Branch. The EAP review process will continue upon receipt of your responses.

If you have any questions or would like to discuss these items, please contact me at 204-945-6030.

Yours truly,

“original signed by”

Robert Boswick, P. Eng.
Environmental Engineer

Attachments

c: Dan Gagne, Chief Administrative Officer – Town of Altona
Don Labossiere, Director – Environmental Compliance and Enforcement, Manitoba
Conservation and Water Stewardship
Public Registries

Boswick, Robert (CWS)

Subject: FW: Re: 39.40 Town of Altona WW Lagoon Expansion EAP

From: Stibbard, James (CWS)
Sent: January-16-15 9:56 AM
To: Boswick, Robert (CWS)
Subject: Re: 39.40 Town of Altona WW Lagoon Expansion EAP

Robert,
I reviewed the above noted EAP. The EAP notes the treated effluent from the lagoon system will go to the Plum River, then into the Red River. The point where the Plum River enters the Red is approximately 6 miles upstream of the raw water intake for the Morris Regional Water Treatment Plant. Under normal operating conditions, the treatment process at the Morris water plant can treat the water in the Red River. However, should a major spill of semi-treated or untreated effluent occur from the Altona lagoon, it could cause difficulty for the Morris water plant in maintaining safe treated water quality. Therefore, Office of Drinking Water recommends that contact information for the Morris Regional Water Treatment Plant be included in the emergency response plans for the Altona lagoon, with instructions that, in the event of a major spill from the lagoons, the plant operators at the Morris Regional Water Treatment Plant be notified.

Apart from this point, I saw no other cause for concern with the EAP or proposed development.

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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DATE: January 6, 2015

Memorandum

TO: Robert Boswick
 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: 39.40 TOWN OF ALTONA
 WASTEWATER TREATMENT LAGOON UPGRADE**

- The following effluent standards should be in place for the Town of Altona 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
- The Proponent has requested an earlier discharge date of April 16. In Appendix C and summarized on page 5-1 of the proposal, the Proponent has supplied total ammonia as N and pH data for the effluent. In comparing the data to the ammonia tables in the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011)* the effluent total ammonia exceeds equation 3 on two of the sample dates, April 22 and June 2.

Date	Total Ammonia, as N	pH	Province of Manitoba Equation 3 Objective, Total Ammonia, as N
March 26, 2014	13.2	7.5	19.890
April 22, 2014	25.4	7.6	17.032

June 2, 2014	11.5	8.2	5.727
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It is recommended that the following effluent limits for ammonia be in place for the Town of Altona wastewater treatment facility as per the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011)* using Equation 3 and based on effluent pH:

Effluent pH	Effluent, Total Ammonia expressed as N, (mg/L)
6.50	48.83
6.60	46.84
6.70	44.57
6.80	42.00
6.90	39.16
7.00	36.09
7.10	32.86
7.20	29.54
7.30	26.21
7.40	22.97
7.50	19.89
7.60	17.03
7.70	14.44
7.80	12.14
7.90	10.13
8.00	8.41
8.10	6.95
8.20	5.73
8.30	4.71
8.40	3.88
8.50	3.20
8.60	2.65
8.70	2.20
8.80	1.84
8.90	1.56
9.00	1.32

- 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

Boswick, Robert (CWS)

Subject: FW: EAP Request for comments - Town of Altona Lagoon File: 39.40

From: Kubish, Cheryl (OFC)

Sent: December-29-14 10:18 AM

To: Boswick, Robert (CWS)

Subject: RE: EAP Request for comments - Town of Altona Lagoon File: 39.40

The **Office of the Fire Commissioner (OFC)** recommends that a building permit and an occupancy permit be obtained for the office & sewage treatment building. The permit applications can be obtained from the OFC at 508-401 York Ave, Winnipeg or on the OFC Website at www.firecomm.gov.mb.ca.

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

Boswick, Robert (CWS)

From: Roberts, Dan (CWS)
Sent: December-19-14 10:20 AM
To: Boswick, Robert (CWS)
Subject: EAP Request for comments - Town of Altona Lagoon File: 39.40
Attachments: Drainage Licence Application.pdf

Any water control works (drains, culverts, dykes, dams, etc.) associated with this project will require licensing under the *Water Rights Act* – an application is attached for the proponent's convenience. Any inquiries in this regard may be directed to the local *Water Resource Officer*. Their contact information may be found at:

http://www.gov.mb.ca/conservation/waterstewardship/licensing/pdf/areas_of_focus_jan_23_12.pdf

Sincerely,

Dan Roberts

Water Resource Officer
Water Control Works and Drainage Licensing Section
Conservation and Water Stewardship
Box 6000, Building #1180, 75 - 7th Avenue,
Gimli, MB R0C 1B0
Cell: (204) 641-1331

**Application for Licence
to Construct Water Control Works**
FORM 1: Revised: July 14, 2009



Applicant Name (s) _____
 Company Name _____ Telephone No. _____
 Mailing Address _____ Postal Code _____ Cell Phone No. _____
 Location of Residence _____ Fax No. _____ E-mail _____

A. DEFINITIONS

1) Pursuant to *The Water Rights Act*: **WATER CONTROL WORKS** are defined as any dyke, dam, surface or subsurface drain, drainage, improved natural waterway, canal, tunnel, bridge, culvert, borehole or contrivance for carrying or conducting water that (a) temporarily or permanently alters or may alter the flow or level of water, including but not limited to water in a water body, by any means, including drainage, or (b) changes or may change the location or direction of flow of water, including but not limited to water in a water body, by any means, including drainage.

2) **MINOR WATER CONTROL WORKS** (as defined by policy) are those works that meet the following criteria:

Respecting drainage, minor water control works:

- Are constructed solely on lands owned or controlled by the applicant without negative impact to other lands.
- Meet industry accepted engineering and construction standards.
- Involve excavation of organic soils only and do not lower water levels more than 30 cm (1 foot) below natural ground level.
- Are proven acceptable to municipal or provincial governments if water control works affect the location or flow of water on municipal or provincial property.
- Are proven acceptable to the landowner of lands on which they are constructed if applicant does not own the land.
- Do not occur in naturally vegetated riparian areas.
- Do not occur on Class 6 and 7 soils as defined by Canada Land Inventory (CLI) Soil Capability for Agriculture (1985).
- Do not alter the natural state of seasonal, semi-permanent or permanent marshes (Classes III, IV, V – Stewart and Kantrud marsh classification system).

Respecting dams, minor water control works:

- Are constructed solely on lands owned or controlled by the applicant without negative impact to other lands.
- Meet industry accepted engineering and construction standards.
- Are located within artificially constructed drainage channels.
- Are less than 1.5 meters in height and do not raise the spill elevation of a wetland above natural ground level.

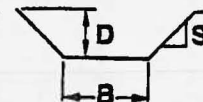
Respecting infrastructure installations, minor water control works:

- Are constructed solely on lands owned or controlled by the applicant without negative impact to other lands.
- Do not alter the natural state of seasonal, semi-permanent or permanent wetlands (Classes III, IV, V – Stewart and Kantrud marsh classification system).
- Meet industry accepted engineering and construction standards.
- Do not change the hydraulic capacity of the structure by more than 15%.
- Includes replacement of culverts at the same location and elevation as the previous culvert.

B. PHOTO/SKETCH/PLANS/DRAWING

All Water Rights Act license applications for construction of WATER CONTROL WORKS must include a photo, sketch, plan and/or drawing that incorporates:

- 1) Location of affected water bodies, maximum depths, approximate sizes, complete or partial drainage
- 2) Proposed drain location, length, depth (D), bottom width (B), and side slopes (S)
- 3) A topographic survey, if the magnitude of the project results in a request for survey information by Water Stewardship staff
- 4) Location of designated spoil sites
- 5) Flow direction of nearby watercourses
- 6) Description and location of proposed control structures and operation schedule (if applicable)
- 7) Road and culvert locations (including culvert sizes)
- 8) Legal descriptions and landowner names of surrounding/affected lands
- 9) North arrow
- 10) Industry accepted engineering and construction standards



For dam projects, except those that meet the definition of minor water control works, a copy of design drawings and decommissioning plan designed by a professional engineer registered to practice in Manitoba. Dams that have the capacity of less than 50 cubic decameters (40 acre feet) must be constructed to industry accepted engineering and construction standards but may be subject to less stringent reporting standards. Please contact either of the Manitoba Water Stewardship offices listed below for further details.

C. LOCATION of Works:

- 1) Municipality/Parish _____ 2) Conservation District (if applicable) _____
- 3) Location of water control works (Include ¼ section, township and range, river lots, sub-division, or other legal description)

LEGAL SUBDIVISION	QUARTER	SECTION	TOWNSHIP	RANGE	E/W	LOT	BLOCK PLAN

Or otherwise described as _____

- 4) Identify water body, natural waterway, or drain that water flows into (if known) _____

D. DESCRIPTION of Works:

1) Describe your proposal and its purpose (Please include any methods to control outflow):

2) Does the proposed project meet the definition of minor water control works? Yes No
(See definition section A)

3) Is a bio-security plan in place for the subject property? Yes No

4) Will drainage/lowering of a slough, pond or lake be undertaken? Yes No

a. If yes, please indicate the following:

What is the total estimated area of water? _____ Acres _____ Hectares

5) Has a survey been completed for these works? Yes No

a. If yes, please attach a copy to this application

6) Provide details on sediment and erosion control plan(s). _____

E. LANDOWNER Approvals:

1) Proposed water control works are located on: Private Property Municipal Property Crown Land

2) The applicant is: Registered Landowner Lessee Other: _____

If lessee or other, please provide registered landowner signature of approval below.

3) Will the proposed water control works alter a water body or water level(s) on land you do not own or control?

4) Will the proposed water control works cause water to leave your land?

If yes to either questions 3 or 4, please provide evidence of impacted landowner(s) approval below.

Legal Description Landowner Name(s) (Please Print) Signature of Approval Date Signed



MAKE CHEQUES PAYABLE TO: MINISTER OF FINANCE
FEE OF \$25.00 MUST ACCOMPANY APPLICATION
CHEQUE AND APPLICATION CAN BE MAILED TO:

WATER CONTROL WORKS & DRAINAGE LICENSING SECTION

Box 13, 1129 Queens Avenue
Brandon, MB R7A 1L9

OR

Box 4558, 293 Main Street
Stonewall, MB R0C 2Z0

Please Note: Incomplete applications may be returned to the applicant unprocessed.

Signature of Applicant

Print Name

Signature of Landowner (if different from Applicant)

Print Name

Date Signed

FOR OFFICE USE ONLY	Date Received	_____
	Amount Received \$	_____
	Received By	_____
	MRC#	_____