



DATE: March 13, 2014

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 Elaine Page

TELEPHONE: 945-7908
FACSIMILE: 948-2357
EMAIL: joy.kennedy@gov.mb.ca

SUBJECT: ***ENVIRONMENT ACT PROPOSAL FILE: 150.10 LOCAL
GOVERNMENT OF PINAWA WASTEWATER STABILISATION POND***

- Can the proponent please indicate the total design population, including equivalent populations for example bussed in students and the two campgrounds, that the lagoon will be sized to service? The proponent has indicated an increase of 950 people and that a new Tim Horton's Camp will contribute wastewater to the lagoon in the future (see page 6, paragraph 4) and that the future population will exceed 2,000 people (page 8, 3rd paragraph). The population for which the lagoon is being designed to service is helpful for reviewing a requirement of a <1 mg/L total phosphorous limit.
- The following effluent standards should be in place for Local Government District of Pinawa Waste Stabilisation Pond Expansion as per the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation* (196/2011).
 - BOD₅ 25 mg/L
 - Total suspended solids 25 mg/L
 - Fecal Coliforms or Escherichia coli 200 MPN / 100mL
 - < 1mg/L Total Phosphorous
- The design population for the facility is greater than 2,000 people and so the effluent must meet a <1 mg/L phosphorus limit. Additional information is required to support the use of trickle discharge and the serpentine ditch to meet a 1 mg/L phosphorus limit. For example, nutrient uptake by vegetation in the ditch is expected to be reduced during the fall discharge event. How will the proponent control discharge from the serpentine ditch and what measures will occur if phosphorus concentrations in the effluent in the ditch are greater than 1 mg/L?
- Reconnaissance level maps indicate that the proposed system, located on NE 5-14-

12 E, is located in a Nutrient Management Zone N4. Under 14(1) of the *Nutrient Management Regulation* (62/2008) a wastewater system cannot be located in Zone N4. The proponent should obtain the services of pedologist to determine whether or not the site is suitable for the development of a wastewater lagoon. Attached is the most recent listing of pedologists.

- 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.

Pedologists

Name: Peter W. HALUSCHAK

Location: Winnipeg

Phone: 204-261-9393

Cell: 204-791-8433

Email: phaluschak@mts.net

Name: Darren KEAM

Location: Winnipeg

Email: keamd@mmm.ca

Phone: 204-943-3178

Fax: 204-943-4948

Cell: 204-250-4010

Designation: P.Ag., CCA

Affiliation/Company: MMM Group

Name: Gordon MILLS

Location: Winnipeg

Email: millsmg@mts.net

Phone: 204-269-1939

Designation: P.Ag.

Affiliation/Company: G.F. Mills Consulting

Name: Glenn PODOLSKY

Location: Winnipeg/Tolstoi

Phone: 204-269-6684 or 204-427-2704

Email: umpodolk@cc.umanitoba.ca

Designation: P.Ag.

**Address : 107 Sandpiper Drive, Winnipeg, MB R3T 5E6 OR
Box 75, Tolstoi, MB R0A 2E0**

Name: Ron TONE

Location: St. Pierre Jolys

Email: rontone@toneag.com

Phone: 204-433-7189

Fax: 204-433-3335

Designation: P.Ag., CCA

Affiliation/Company: Tone Ag Consulting Ltd.

Name: Joel TONE

Location: St. Pierre Jolys

Email: joeltone@toneag.com

Phone: 204-433-7189

Fax: 204-433-3335

Designation: CCA

Affiliation/Company: Tone Ag Consulting Ltd.

Name: David WHETTER

Location: Winnipeg

Email: david.whetter@stantec.com

Phone: 204-488-5706

Fax: 204-942-2548

Cell: 204-799-4877

Designation: P.Ag.

Affiliation/Company : Stantec

From: Kubish, Cheryl (OFC)
Sent: March-06-14 9:36 AM
To: Boswick, Robert (CWS)
Subject: RE: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 2014

At this time the Office of the Fire Commissioner, has no concerns or comments on the proposed expansion of the existing wastewater treatment lagoon.

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

From: Steele, Tania (CWS)
Sent: January-30-14 10:06 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, Laureen 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); Nedotiafko, Rob (CWS); +WPG969 - MIT Environmental Services Section (MIT); Ross, Barry (CWS); Schafer, Dave (OFC); Kubish, Cheryl (OFC); +BEA208 - Beausejour CRP (MLG)
Cc: Boswick, Robert (CWS)
Subject: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 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/150.1pinawa/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 4, 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

e-mail: robert.boswick@gov.mb.ca

Ph. (204) 945-6030

Cellular (204) 918-5853

FAX: (204) 945-5229

Boswick, Robert (CWS)

From: Roberts, Dan (CWS)
Sent: March-05-14 11:18 AM
To: Boswick, Robert (CWS)
Subject: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 2014
Attachments: Drainage Licence Application.pdf

Please advise the proponent that the outlet for the lagoon will require licensing under the *Water Rights Act* - an application is attached for their 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

The drainage and/or alteration of permanent and semi-permanent wetlands is not permissible under the *Water Rights Act*.

Thank You,

Dan Roberts

Water Resource Officer
Water Control Works and Drainage Licensing Section
Conservation and Water Stewardship
Box 640, 201 Fourth Ave. S., Swan River, MB R0L 1Z0
Cell: (204) 281-2122, Fax: 734-3733

**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 (1965).
- 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.

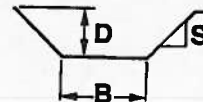
Respecting infrastructure installations, minor water control works:

- 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 effected 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 the: Registered Landowner Lessee Other: _____

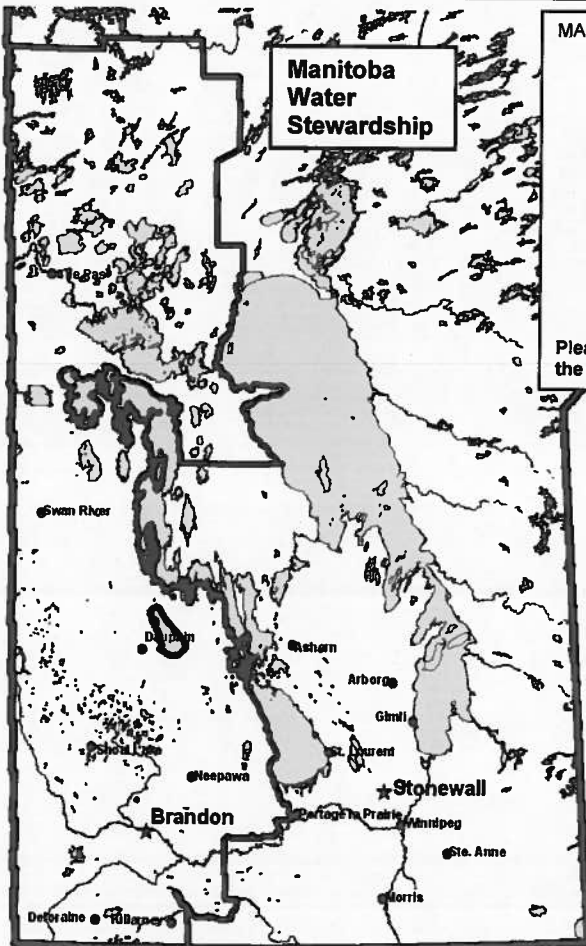
If lessee or other, please provide registered landowner signature of approval below.

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.

<u>Legal Description</u>	<u>Landowner Name(s)</u> (Please Print)	<u>Signature of Approval</u>	<u>Date Signed</u>
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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	_____
	MFO#	_____

Boswick, Robert (CWS)

From: Vivekananda, Prashanna (MMG)
Sent: March-04-14 3:00 PM
To: Boswick, Robert (CWS)
Subject: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 2014

Community and Regional Planning has no concerns.

According to the Pinawa Zoning By-Law, the subject lands appear to be situated between the "MH" Heavy Industrial and "NA" Natural Area zones and according to the Pinawa Development Plan, between the Industrial Area and Natural Area.

Section 4.25 of the Pinawa Zoning By-Law does not allow anything to interfere with the construction of public utility facilities; therefore we do not have any objections.

4.25 PUBLIC MONUMENTS & STATUARIES - PUBLIC SERVICES & PUBLIC UTILITIES

Nothing in this By-law shall be so interpreted as to interfere with the erection or maintenance of monuments, statuaries and similar structures, nor the construction, maintenance and operation of the facilities of any public service or public utility, provided that any building or structure is in compliance with the bulk regulations of the applicable zone, and that the land surrounding the buildings or structures is landscaped to the satisfaction of the Development Officer.

Public utilities or public services include water mains, sewers, telephone and electrical transmission lines, booster stations, water storage tanks, pumping stations, electrical sub-stations, telephone exchanges, and police and fire protection.

Appendix A: Definitions

Public Utility

Public Utility means any system, works, plant, equipment or service, which provides services or facilities at approved rates to or for the use of residents of the LGD including:

- *communication services and facilities, such as telephone, telegraph, wireless or cable television;*
- *public transportation, such as bus or other vehicle;*
- *water, gas or electrical production, transmission or delivery to the public at large;*
- *sewage, garbage or other waste collection; or*
- *public works yard.*

Prashanna Vivekananda

Community Planner

Community and Regional Planning - Beausejour Regional Office

Manitoba Municipal Government

PO Box 50, 125 - 20 First Street

Beausejour, MB R0E 0C0

Ph: (204) 268-6065

Fx: (204) 268-6007

Email: prashanna.vivekananda@gov.mb.ca

From: Kaita, Adara (CWS) on behalf of +WPG1212 - Conservation_Circulars (CWS)
Sent: March-03-14 3:57 PM
To: Boswick, Robert (CWS)
Cc: Prosser, Cheryl (CWS); Sobkowich, Dale (CWS); Epp, Jane (CWS)
Subject: EA Proposal - LGD Pinawa - WWTL - File: 150.10

Hello Robert,

The Protected Areas Initiative has no concerns with the proposal and the Lands Branch has no concerns, conditional upon the following:

- Without limiting other necessary regulatory approvals the proponent shall, prior to development on Crown land, apply for and obtain the appropriate land tenure allocations in accordance with *The Crown Lands Act*, from the Crown Land and Property Agency. It is noted that the LGD has applied for the purchase of the lagoon expansion area under Crown land Sale number 68114. Sale approval has not been issued.
- The proposal will impact Crown land in NE 5-14-12 EPM designated as the Whiteshell Provincial Forest. Use of these lands will require authorization from the Director of Forestry
- A damage appraisal and timber permit is required.
- The project identifies the use of a serpentine drain however no detailed design information is provided. Additional design details should be provided prior to construction.

Thank you 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)

From: Stibbard, James (CWS)
Sent: March-03-14 9:59 AM
To: Boswick, Robert (CWS)
Subject: Re: 150.10 LGD of Pinawa WW Lagoon Expansion EAP

Robert,

I reviewed the above noted EAP. It should be noted that there are a number of public water systems downstream of Pinawa on the Winnipeg River which use the river as the raw water source for their drinking water systems, Office of Drinking Water recommends contact information for these downstream water systems be kept in the LGD of Pinawa Office and, in the event of a major spill of inadequately treated wastewater from the lagoons, the downstream domestic water users on the river be notified.

Apart from this point, I see no other cause for concern respecting drinking water safety from the 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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Memorandum

Date: February 28, 2014

To: Robert Boswick
Environmental Approvals Branch
Conservation and Water
Stewardship
123 Main Street, Suite 160,
Winnipeg, MB R3C 1A5

From: Environmental Compliance and
Enforcement
Conservation and Water
Stewardship
Box 4000
Lac du Bonnet, MB R0E 1A0

**SUBJECT: Environment Act Proposal – Local Government District of Pinawa
Wastewater Stabilization Pond Expansion (File No. 150.10)**

Conservation and Water Stewardship, Environmental Compliance and Enforcement Branch submits the following comments on the *Environment Act Proposal Local Government District of Pinawa Wastewater Stabilization Pond Expansion* submitted by Genivar Inc. dated November 2013.

3.3 Effluent Quality and Discharge Route

The proponent proposes a nutrient reduction strategy consisting of a trickle discharge via a serpentine ditch.

- What are the targeted nutrient levels at the end of pipe and/or final discharge point?
- Should the nutrient reduction strategy fail to meet these targets, what contingency measures will be implemented to mitigate downstream environmental impacts?
- Should the serviced population of 2,000 people be exceeded prior to completion of the 10 year nutrient reduction strategy, what mitigation strategies will be implemented to reduce phosphorus levels below 1 mg/L?

Harvesting vegetation from the constructed wetland may be required to prevent the release of nutrients back into the environment during seasonal vegetative decomposition. Conservation and Water Stewardship requests information on the need to harvest vegetation and if any access concerns are foreseen given the limitations of the surrounding landscape.

Conservation and Water Stewardship requests confirmation if testing of dissolved oxygen content will be conducted or required in accordance with concerns raised by the Department of Fisheries and Oceans in the enclosed email dated October 16, 2012 (Appendix E).

4.4 Hydraulic Loading

Conservation and Water Stewardship has identified additional sources of wastewater flows which may not have been considered in calculating the required storage capacity:

- The proposal states that all occupants of Awani Park utilize a septic tank wastewater system. The department has received registrations for holding tank systems within the park. As some residents occupy the park year round additional wastewater flows are anticipated during the storage period.
- The proposal states that wastewater generated within Pioneer Bay and Relax Ridge Campgrounds will not contribute to the storage period. Wastewater from these developments may be directed to the lagoon in late October from holding tanks containing wastewater generated on or prior to October. Sufficient time to treat this effluent may not be obtainable prior to the proposed discharge deadline of October 31.
- Observed water and wastewater flows suggest that infiltration is a significant contributor to current wastewater loading on the treatment facility. Conservation and Water Stewardship notes that lift station data from the 2010-2011 storage period were excluded from wastewater flow estimates due to extreme infiltration that year.
- The designed storage capacity is based on 800 Lpcd, which has not yet been achieved.

Conservation and Water Stewardship requests confirmation that the proposed facility has adequate treatment/storage capacity to address these potential additional flows. Conservation and Water Stewardship also recommends the proponent implement an ongoing infiltration reduction strategy.

5.2.2 Construction Details

Rock outcrops exist in secondary cell North and secondary cell West.

- Has the hydraulic displacement of these outcrops been factored into the calculation of existing storage capacity?
- Will the suspected boulder/bedrock encountered in testhole TH1 (Section 5.1.2) reduce the available treatment capacity of proposed secondary cell #4?
- What measures will be taken to ensure that the cell liners are intact across the entire surface of the existing secondary cells to prevent the seepage of wastewater beneath the liners?

Conservation and Water Stewardship requests confirmation whether sludge accumulation estimates have been incorporated in the calculation of available hydraulic and organic treatment capacity.

The proposal indicates that Rip-Rip will be installed, while the Geotechnical Report states that "Rip-Rap placement on the dykes should be provided, if needed, after construction." Conservation and Water Stewardship requests clarification if Rip-Rap is proposed at time of construction, and if it is proposed for all five (5) lagoon cells?

From: Kroeker, Derek (CWS)
Sent: February-25-14 8:38 AM
To: Janusz, Laureen R (CWS); Boswick, Robert (CWS)
Cc: Long, Jeff (CWS)
Subject: RE: EAP 150.10 Pinawa Wastewater Treatment due March 4, 2014

Thanks Laureen,

In addition to these concerns, I am also concerned about the potential for flooding of the cells by during flood conditions on the Winnipeg River. I was unable to determine from the proposal if the cells were constructed at an elevation that would mitigate this risk.

Derek

Derek Kroeker
A/Fisheries Manager - Eastern Region
Fisheries Biologist - Central Region
Conservation and Water Stewardship
Fisheries Branch
Box 4000
Lac du Bonnet, MB R0E 1A0
Ph: (204) 345-1450
Fax: (204) 345-1440
Cell: (204) 345-3068

From: Janusz, Laureen R (CWS)
Sent: February-24-14 9:16 PM
To: Boswick, Robert (CWS)
Cc: Kroeker, Derek (CWS); Long, Jeff (CWS)
Subject: EAP 150.10 Pinawa Wastewater Treatment due March 4, 2014

Hi Robert,

Fisheries Branch has reviewed this request to expand the Pinawa wastewater treatment lagoon by constructing two additional secondary cells. The cells are to be clay lined and will discharge to a wetland that will have a serpentine channel constructed within it to facilitate the uptake of phosphorous.

There is little detail on the construction of the serpentine wetland other than what is provided in the drawing (Appendix D) and nothing on mitigation. If surface drainage is very poor at the proposed site as indicated in the Geotechnical Report under 6.0 Design Considerations and there are concerns with constructing the cells due to surface and groundwater then it is difficult to determine how they propose to construct the channel within the wetland and how it is proposed to slow the flow of effluent enough to create the opportunity for uptake. We could have concerns with the disturbance and release of sediment during construction and after until the site has stabilized.

The proponent indicates they intend to trickle discharge to achieve the phosphorous limit and will monitor water quality to confirm that the serpentine wetland is providing the uptake as they have predicted. In the future they are projecting to exceed the population limit that allows for the incorporation of "trickle discharge and other nutrient reduction strategies" to meet phosphorous limits and hope monitoring will show how effective the wetland is and will continue to be with an expanded population. It is unclear what other options they have in mind if this does not work.

The Winnipeg River does provide year round habitat for a number of large and small bodied fish species, a number of which are recreationally valued fish. It is very important that the effluent meet or exceed Manitoba Water Quality Standard, Objectives and Guidelines. Although we defer to the recommendations of our colleagues in Water Science Management we are strongly in favor of a monitoring plan that includes frequent sampling at a number of sampling stations within the wetland and downstream within the tributary that the effluent discharges into.

To minimize the spread of aquatic and terrestrial invasive species please include the clause that requires all equipment to be clean prior to bringing on site.

Thanks Robert.

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

From: Long, Jeff (CWS)
Sent: February-25-14 8:14 PM
To: Janusz, Laureen R (CWS); Boswick, Robert (CWS)
Cc: Kroeker, Derek (CWS)
Subject: RE: EAP 150.10 Pinawa Wastewater Treatment due March 4, 2014

Further to Laureen's comments: the site of the proposed project is proximate to a small shallow bay that supports pike of several size classes. The pike fishery in the Pinawa part of the Winnipeg River is not excellent (I stand to be corrected by my colleagues in the eastern region – this statement reflects my personal experience) so the contribution of this bay should not be discounted. If the lagoon development affects this habitat directly, or indirectly by affecting wetland productivity that supports this bay, then I think the project needs to provide appropriate mitigation.

I am also concerned that the project expansion refers to loading of wastewater from the Youth Camp located across the river from this site. At this point, it is not clear if the lagoon expansion is being designed to carry wastewater from this camp by overland truck or by pipeline, under the river (perhaps this latter scenario is only hearsay??). Fisheries Branch would be concerned if the wastewater came in the form of the second case, give the presence of Lake Sturgeon in the Winnipeg River and our attempts to recover this species in Manitoba.

Jeff Long, Ph.D. | Manager - Fisheries Science and Fish Culture |

MB Fisheries Branch - Conservation and Water Stewardship, |200 Saulteaux Cres.
Winnipeg, Manitoba |R3J 3W3 email: jeff.long@gov.mb.ca |Tel. 204.945.7792
Cell. 204.232.6870 |Fax. 204.948.2308

From: Janusz, Laureen R (CWS)
Sent: February-24-14 9:16 PM
To: Boswick, Robert (CWS)
Cc: Kroeker, Derek (CWS); Long, Jeff (CWS)
Subject: EAP 150.10 Pinawa Wastewater Treatment due March 4, 2014

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There is little detail on the construction of the serpentine wetland other than what is provided in the drawing (Appendix D) and nothing on mitigation. If surface drainage is very poor at the proposed site as indicated in the Geotechnical Report under 6.0 Design Considerations and there are concerns with constructing the cells due to surface and groundwater then it is difficult to determine how they propose to construct the channel within the wetland and how it is proposed to slow the flow of effluent enough

to create the opportunity for uptake. We could have concerns with the disturbance and release of sediment during construction and after until the site has stabilized.

The proponent indicates they intend to trickle discharge to achieve the phosphorous limit and will monitor water quality to confirm that the serpentine wetland is providing the uptake as they have predicted. In the future they are projecting to exceed the population limit that allows for the incorporation of "trickle discharge and other nutrient reduction strategies" to meet phosphorous limits and hope monitoring will show how effective the wetland is and will continue to be with an expanded population. It is unclear what other options they have in mind if this does not work.

The Winnipeg River does provide year round habitat for a number of large and small bodied fish species, a number of which are recreationally valued fish. It is very important that the effluent meet or exceed Manitoba Water Quality Standard, Objectives and Guidelines. Although we defer to the recommendations of our colleagues in Water Science Management we are strongly in favor of a monitoring plan that includes frequent sampling at a number of sampling stations within the wetland and downstream within the tributary that the effluent discharges into.

To minimize the spread of aquatic and terrestrial invasive species please include the clause that requires all equipment to be clean prior to brining on site.

Thanks Robert.

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

Boswick, Robert (CWS)

From: Boissonneault, Caroline (CWS)
Sent: February-25-14 8:54 AM
To: Boswick, Robert (CWS)
Subject: Emailing: Request for comments EA Proposal Pinawa File 150.10 due March 4 2014
Attachments: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 2014

Hello:

Wildlife Branch has no concerns or comments to offer regarding this EA 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 Pinawa File 150.10 due March 4 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.

From: Kelly, Jason (CWS)
Sent: February-24-14 10:24 AM
To: Boswick, Robert (CWS)
Subject: RE: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 2014

Parks and Protected Spaces Branch has reviewed the proposal filed pursuant to the *Environment Act* for the Request for comments EA Proposal Pinawa File: 150.10 due March 4, 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

From: Steele, Tania (CWS)
Sent: January-30-14 10:06 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, Laureen 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); Nedotiafko, Rob (CWS); +WPG969 - MIT Environmental Services Section (MIT); Ross, Barry (CWS); Schafer, Dave (OFC); Kubish, Cheryl (OFC); +BEA208 - Beausejour CRP (MLG)
Cc: Boswick, Robert (CWS)
Subject: Request for comments EA Proposal Pinawa File: 150.10 due March 4, 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/150.1pinawa/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 4, 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

e-mail: robert.boswick@gov.mb.ca

Ph. (204) 945-6030

Cellular (204) 918-5853

FAX: (204) 945-5229



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

February 5, 2014

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

RE: LGD of Pinawa – Wastewater Stabilization Pond Expansion
Client File No. 150.10

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