



March 25, 2015

F:\200\246 Brokenhead RM\246.12 GTH Lagoon Design and Construction\02 Reports\Minor Alteration to EAP.docx

Mr. Robert Boswick, P. Eng.
Conservation and Water Stewardship
Climate Change and Environmental Protection Division
Environmental Approvals Branch
123 Main Street, Suite 160
Winnipeg, Manitoba
R3C 1A5

B-246.12

Via e-mail

Dear Mr. Boswick,

Re: Rural Municipality of Brokenhead – Environment Act Licence No. 2646 RR – Request for Minor Alteration

JRCC is hereby requesting a minor alteration of the Environment Act Licence No. 2646 RR on behalf of the RM of Brokenhead. The licence was issued April 9, 2014.

The EAP document, submitted to Manitoba Conservation on May 23, 2013, indicated the lagoon expansion cells would be constructed immediately east of the existing lagoon within the NW and SW $\frac{1}{4}$ of 15-13-06 EPM. The originally proposed site had some poor soil conditions at the north end of the site which required a re-worked and re-compacted clay liner. After submission of the EAP, the RM purchased additional land on the SE $\frac{1}{4}$ of 15-13-06 EPM (see attached land title). A geotechnical investigation was completed on the proposed site and is attached with this letter. Based on the results of the geotechnical investigation, the lagoon expansion cells were re-oriented to avoid the poor soil conditions and the north end of the original site. Based on site topography the primary cells were moved to the east side of the site and the new storage cell will be constructed between the new primary cells and the existing lagoon cells, see the attached plan.

The sizing of the revised cells and overall capacity of the lagoon will not change from the EAP proposal. The proposed discharge route from the lagoon will also remain unchanged. The revised cell layout maintains the minimum 300 m setback from the nearest residence.

In Section 2.5.12.2 of the EAP document it stated phosphorus reduction will be achieved by chemical addition at the existing lift station with settling in the lagoon cells. Council has since decided to achieve phosphorus reduction by applying chemical (alum) directly to the surface of the cells via a boat. The phosphorus discharge requirement of 1.0 mg/L will continue to be met with the revised methodology.

Please provide approval to proceed with the minor alteration.

If you have any questions or require additional information, please contact the undersigned.

Yours truly,

JR Cousin Consultants Ltd.

Brett McCormac, E.I.T.
Environmental Engineer-in-Training
Enc.

c.c. Gary Hanna, RM of Brokenhead

Reviewed by:

Jerry Cousin, P.Eng.
President

JRCC.ca

2714619

District: SELKIRK
Instrument Number: 4470693

M.A.V.A.S.
Land Titles Transactions

Page 75 of 102
Date Run: Apr 15, 2014

Instrument CT#: Winnipeg - 2714619 Status: Active

Instrument Type	TRANSFER OF LAND	Sale Date	Apr 04, 2014
Vendor	FREDERICK WILLIAM KAZINA, MARGARET ANN CORDEN, ETAL	Consideration	\$251,569
Consolidated?	No	Sworn Value	\$251,569

\RURAL MUNICIPALITY OF BROKENHEAD\

IS REGISTERED OWNER SUBJECT TO SUCH ENTRIES RECORDED HEREON
IN THE FOLLOWING DESCRIBED LAND:

LEGAL SUBDIVISIONS 1, 2 AND 7 AND THE S 1/2 OF LEGAL SUBDIVISION 8
OF 15-13-6 EPM
EXC OUT OF LEGAL SUBDIVISION 2,
FIRSTLY: WATER CONTROL WORKS PLAN 8015 WLTO
SECONDLY: ALL THAT PORTION WHICH LIES TO THE SW OF THE SOUTHWESTERN
LIMIT OF SAID PLAN 8015 WLTO AND
THIRDLY: PUBLIC ROAD PLAN 45392 WLTO AND
EXC OUT OF LEGAL SUBDIVISION 1, PLAN 41994 WLTO AND
EXC OUT OF THE ELY 33 FEET OF LEGAL SUBDIVISIONS 1 AND 8,
ALL MINES AND MINERALS, AND FURTHER
EXC OUT OF ALL THE ABOVE DESCRIBED LAND, THOSE PORTIONS WHICH MAY BE MORE...

*Req'd for CRP ROW or SIM GRDS WHATEVER
The area may be.*

Address:
RM OF BROKENHEAD
P.O. BOX 490
BEAUSEJOUR MB
R0E 0C0

From CT: Winnipeg - 2173824 ALL

Roll entries for this instrument: 110 - RM OF BROKENHEAD Roll: 50800 R

supp

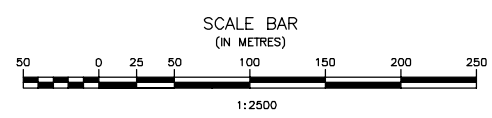
*30T to
30E*

m

50800



Mar 26, 2015 - 8:37am I:\2015\246.12 RM of Brokenhead Lagoon Expansion\Drawings\Site Plan\246.12 01 Lagoon Design and Construction.dwg

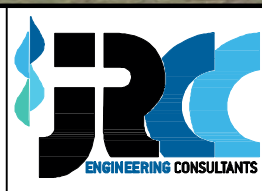


No.	REVISIONS	DATE	INITIALS

B.M. EL.

LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.

PRELIMINARY



JR Cousin Consultants Ltd.
 91A Scurfield Blvd. Winnipeg MB R3Y1G4
 p. (204) 489-0474
 f. (204) 489-0487
 www.jrcc.ca

CODE: B-246.12	PROJECT: RM OF BROKENHEAD GTH LAGOON EXPANSION
DESIGNED BY: JC	TITLE: REVISED LAGOON LAYOUT WITH SETBACKS TO NEAREST RESIDENTS
DRAWN BY: BM	SCALE: 1:2500
REVIEWED BY: JC	DATE: 15/03/16
	PLAN: 1
	SHEET: 1 of 1