

Sustainable Development

Environmental Stewardship Division
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March 27, 2017

Darren Hofer
Riverdale Holding Co. Ltd.
Box 360
Gladstone, MB R0J 0T0
Email: se_hofer@hotmail.com

Dear Mr. Hofer:

Re: Riverdale Holding Co. Ltd. - Wastewater Treatment Lagoon – Minor Notice of Alteration Approval – Environment Act Licence No. 2868 R

I am responding to the May 28, 2013 Notice of Alteration and additional information submitted on February 10, 2017, submitted by Mr. Jason Bunn, P.Eng., of WSP Canada Inc., and the February 1, 2017 Notice of Alteration submitted by you, relative to requests for alteration to Environment Act Licence No. 2868 R (licence), issued on October 19, 2012 for the construction and operation of the Development being a wastewater treatment lagoon located on SW 9-14-12 WPM in the Municipality of Westlake-Gladstone. The submissions are considered Notices of Alteration (NoAs) pursuant to Section 14 of *The Environment Act*.

The request of the NoAs is threefold:

1. to revise Clause 23(e) to include trickle discharge into the ditch as a nutrient reduction strategy;
2. to revise Clause 39(c) to allow for sludge to be placed in the new primary and secondary cell of the proposed development; and
3. to complete the construction of the proposed wastewater treatment lagoon within the next five years.

1. Effluent Phosphorus Content

Clause 23(e) of the licence requires that effluent not be discharged from the wastewater treatment lagoon where the total phosphorous content of the effluent is in excess of one milligram per litre.

I hereby approve a short term alteration of the effluent phosphorous requirements to allow a trial of the proposed trickle discharge strategy as proposed in the May 28, 2013 Notice of Alteration request and additional requested information dated February 10, 2017.

Since the current wastewater effluent standards for wastewater treatment facilities do not include a total coliform limit to be met before the treated effluent is discharged, this requirement will be removed from your licence.

2. Sludge Disposal

Clause 39(c) of the licence requires all the dewatered sludge from the wastewater treatment lagoon operating under Environment Act Licence No. 963 and the supplementary unlicensed secondary cell be removed and disposed of in the primary cell of the development.

Your proposal to manage the sludge solids and biosolids as explained in your February 10, 2017 submission is acceptable.

3. Extension to Construction Completion

Per Clause “D” of the Review and Revocation section of the licence, failure to commence construction of the development within three years of the date of the licence may result in revocation of the licence.

Your request to extend the completion of the construction of the proposed wastewater treatment lagoon as explained in your February 1, 2017 submission is acceptable.

Upon review of the NoA, I am satisfied that the identified change in the environmental effects as would result from the proposed alterations will be insignificant. Therefore, pursuant to Section 14(2) of *The Environment Act*, I hereby amend Clause 23, 39(c), and “D” of Environment Act Licence 2868 R as follows:

- Clause 23:

The Licencee shall not discharge effluent from the wastewater treatment lagoon:

- a) where the organic content of the effluent, as indicated by the five day carbonaceous biochemical oxygen demand, is in excess of 25 milligrams per litre;
- b) where the total suspended solids content of the effluent is in excess of 25 milligrams per litre, unless the exceedance is caused by algae;
- c) where the fecal coliform content of the effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample;
- d) where the unionized ammonia content of the effluent is in excess of 1.25 milligrams per litre, expressed as nitrogen (N), at 15°C ±1°C;
- e) where the total phosphorous content of the effluent is in excess of 1.0 milligrams per litre;
- f) between the 1st day of November of any year and the 15th day of June of the following year;
- g) when flooding from any cause is occurring along the effluent drainage route; or
- h) when the discharge of effluent would cause or contribute to flooding in or along the effluent drainage route.

Suspension of Clause 23(e)

I hereby suspend Clause 23(e) for the first two years of operation of the facility during which effluent is discharged.

Monitoring and Reporting – Trickle Discharge

- The Licencee shall conduct effluent phosphorous testing at three times during each discharge event and at each of the three proposed monitoring locations (i.e., end of pipe, ditch midpoint, and ditch end). For the proposed two discharge events, there will be a total of 18 samples to be analyzed for total phosphorous;
 - The Licencee shall provide a report along with the testing results and discussion on the effectiveness of the trickle discharge on nutrient reduction to the designated Environment Officer, for review and approval, before December 31 of each year; and
 - Following the completion of the trial, the Licencee may request a permanent change in the licence condition based on the monitoring results.
- Clause 39 (c):

The Licencee shall remove and dispose all the dewatered sludge from the wastewater treatment lagoon that was operating under Licence No. 963 and the supplementary unlicensed secondary cell to the primary and/or secondary cell of the Development in such a manner that the structural integrity of the clay liner of the Development is not compromised.

- Clause “D”:

If the Licencee has not completed construction of the Development within 5 years of the date of this letter, the Licence is revoked.

All other clauses in Environment Act Licence No. 2868 R remain in effect. This approval is contingent on your receiving an updated Environment Act Licence to be issued in the near future.

Should you have any questions concerning this approval, please contact Asit Dey, Environmental Engineer at (204)945-2614 or at asit.dey@gov.mb.ca.

Yours sincerely,



Tracey Braun, M.Sc.
Director
Environmental Approvals Branch

- c. Jason Bunn, P.Eng., WSP Canada Inc.
Don Labossiere/Donna Smiley/Tyler Kneeshaw, Environmental Compliance and Enforcement
Public Registries

