

Webb, Bruce (CC)

From: Dey, Asit (CC)
Sent: June-01-20 3:47 PM
To: 'PDorn@samsonengineering.com'; 'Joanne Lanoie'; 'caormsc@mymts.net'
Cc: Burland Ross, Siobhan (CC); Forrestall, Kristy (CC)
Subject: 2020-06-01_additional information request_glenboro.wwtl_file178.30
Attachments: 2020-06-01_request for additional information_village of glenboro.wwtl_file178.30.pdf

Dear Joanne, Phil, and Darren,

Good afternoon. The preliminary review of your Environment Act Proposal for upgrades to the Glenboro wastewater treatment lagoon is now complete. No public comments were received during the public comment period. Please consider this email as a request for additional information and please find attached a list of additional information.

We will continue our review upon receipt of the requested information.

Should you have any questions concerning the additional information request, please feel free to contact me.

Thanks,

Regards,

Asit Dey, P.Eng., Environmental Engineer
Environmental Approvals Branch
Department of Conservation and Climate
Government of Manitoba
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Winnipeg MB R3H 0W4

T: (204) 794-3389 F: (204) 945-5229 Email: asit.dey@gov.mb.ca

Note: My new contact number is (204)794-3389

Additional Information Request

Municipality of Glenboro-South Cypress
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Respecting the Wastewater Treatment Lagoon

1. Please submit clear engineering drawings (i.e., top view and side view) showing the continuity of the liner material present in the existing primary cell of the wastewater treatment lagoon including the thickness of the liner material, the thickness of the materials covering the liner material, the inlet location, the elevations of the top of the dyke and the bottom of the cell, and the depth of operation including freeboard.
2. Per Section 3.1 of the "Village of Glenboro Wastewater Lagoon Feasibility Study Addendum", the perimeter of the primary cell berm is proposed to be raised up. Please comment on how the new liner material in the raised up portion of the perimeter berm will be tied into the existing liner material.
3. Please submit clear engineering drawings (i.e., top view and side view) showing the continuity of the liner material proposed to be present in the upgraded primary cell of the wastewater treatment lagoon including the thickness of the liner material, inlet and effluent pipelines, inlet location, the thickness of the materials covering the liner material, the elevations of the top of the dyke and the bottom of the cell, and the depth of operation including freeboard.
4. Even though the SAGR system provides an element of disinfection, it may or may not meet our fecal coliform requirement. Therefore, additional disinfection may be required. Per our meeting on May 28, 2020, it was discussed to use ultraviolet technology for disinfection purposes. Please provide us the details of the UV technology that was proposed to be used including the location of the potential UV treatment facility.
5. Per our meeting on May 28, 2020, the lagoon receives truck hauled wastewater. Please comment on whether the lagoon accepts septage and the number of truck loads that the upgraded lagoon can accommodate per day. Does acceptance of septage influence the 20 year organic loading calculation?
6. Please submit a layout drawing identifying the key components of the proposed upgrades such as the primary cell, aeration system, inlet location, truck dumping station, baffle curtains, UV channel, SAGR system, phosphorus treatment station, and the final discharge point where the effluent monitoring station will be located to ensure that the collected samples meet the Licence requirements. This layout will be used in the draft Licence.
7. Per Section 2.5 of the Environment Act Proposal, the volume of truck hauled loading was determined to be insignificant. Please comment on what data was used to support the foregoing statement.
8. Section 2.1.5 of the Environment Act Proposal outlines the decommissioning of the existing secondary cell. Please note that the draft licence will require the village of Glenboro to submit a detailed decommissioning plan for the existing secondary cell for approval of the Director of the Environmental Approvals Branch within one year after issuance of the Licence.
9. Per Section 2.0 of the Environment Act Proposal, the inlet will be moved to the southeast corner of the primary cell. It should be noted that keeping the inlet closer to the centre of the lagoon causes the biosolids build-up near the centre of the lagoon only. However, moving the inlet to one of the corners of the lagoon may cause mounding of biosolids closer to the banks of the lagoon and the potential mounding of biosolids may be exposed to the environment which is not recommended. Please comment on how the potential mounding issues will be mitigated.

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10. Please provide the anticipated effluent characteristics in table format provided below for the development of a site specific total ammonia limit for a continuously discharging facility.

Month	Maximum Day Flow (m ³ /S)	Maximum Weekly Average Flow (m ³ /S)	Maximum Monthly Average Flow (m ³ /S)	Maximum Day Total Ammonia as N (mg/L)	Maximum Weekly Average Total Ammonia as N (mg/L)	Maximum Monthly Average Total Ammonia as N (mg/L)
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

11. Please complete and submit a wastewater facility classification form. Please follow the web link below to access the form.

https://www.gov.mb.ca/sd/eal/certification/application_for_wastewater_treatment_facility_classification.pdf

12. Do you have a certified operator? If so, please provide the name of the operator.

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Respecting Wildlife and Fisheries

13. What side of Road 81W will the force main follow? Appendix A appears to show it to follow the east side of the road allowance, while the text suggest that it is adjacent to SE-21-007-14W1 (west of road). Please comment.
14. Please comment on the pipeline installation method that will be used to install the effluent forcemain. It should be noted that the proposed project is routed across patches of hairy-prairie clover listed as Threatened under the Endangered Species and Ecosystems Act. This species occurs within the road right of way, and impacts are not mitigated by limiting activity to within the previously disturbed ditch area. There is also a risk to disturbing or destroying prairie skink, listed as Endangered under The Endangered Species and Ecosystems Act and the federal Species At Risk Act, as this species has been observed immediately east of the right of way. Potential conflicts occur along Road 81W, within an ~100 metre stretch between SE-21-007-14W1 and SW-22-007-14W1, directly east of the golf course. It is recommended to use directional drilling within approximately 100 metre stretch of right of way to prevent negative impacts to species protected under The Endangered Species and Ecosystems Act and Species at Risk Act. The installation of the pipelines by plow method may impact the above species.
15. The consultant is recommended to contact Wildlife and Fisheries Branch for more information, and an adequate mitigation plan should be developed for this portion of the route. Please contact Brian Kiss at brian.kiss@gob.mb.ca. The draft Licence will contain a clause that will require the Licencee to submit a copy of the approval letter approving the mitigation plan to the Environment Approvals Branch.

Please find below comments from TAC members for information purposes only and responses are not required.

1. The following effluent standards must be applied to the Village of Glenboro wastewater treatment lagoon as per the Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011):
 - (a) BOD5 25 mg/L,
 - (b) TSS 25 mg/L,
 - (c) Fecal Coliforms or Escherichia coli 200 organisms / 100mL,
 - (d) <1 mg/L Total Phosphorous.
2. 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.
3. The current proposed route passes through areas with intact sand dunes, as well as intersecting with the Assiniboine River valley. There are numerous archaeological sites in the immediate area, including documented fur trade forts, Precontact Indigenous settlements, historic cart trails, and human burials. As the current plans stand, a heritage resource impact assessment (HRIA) is required for the 6 km force main pipeline. The proponent must contract a qualified archaeological/paleontological consultant to conduct a Heritage Resources Impact assessment

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(HRIA) of the proposed development location, in order to identify and assess any heritage resources that may be negatively impacted by development. If desirable, the Branch will work with the developer/land owners and its consultant to draw up terms of reference for this project.

Note: Please be advised, that a search of the Manitoba Historical Society web page is not sufficient for determining if heritage resources are present. The location of archaeological sites and human burials is protected under Manitoba's Freedom of Information and Protection of Privacy Act (FOIPPA), and as such are not available to the general public. Therefore, heritage screenings must be reviewed by the Historic Resource Branch to determine if an HRIA is required.

4. The RM is required to obtain the required building and occupancy permits from the authority having jurisdiction for any new buildings and the alteration, reconstruction, demolition, removal, relocation, and occupancy of all existing buildings. An emergency plan be filed and approved by the local fire department prior to occupancy in accordance with the Manitoba Fire Code.
5. The proposed pipeline to be installed along the Road Allowance and heading north crossing under PTH 2 Right-of-Way, will require a permission/agreement from MI for the work within the PTH 2 Right-of-way. Permission/agreement applications (online or by mail) and requirement information for utilities within Manitoba Infrastructure Right-of-Way can be obtained at the following link: <https://www.gov.mb.ca/mit/hpd/utilities.html>. Alternatively, the proponent may contact Brian Hickman, Regional Planning Technologist at Brian.Hickman@gov.mb.ca.

Note: Manitoba Infrastructure permit may also be required for:

- a. Any construction (above or below ground level) within 38.1 m (125 ft);
 - b. Any plantings within 15.2 m (50 ft) from the edge of the right of way of PTH 2; and
 - c. Discharge of water or other liquid materials into the ditch PTH 2.
6. The proposed area is zoned "A agriculture" and Sewage Disposal Lagoon is a conditional use.