

## **SUMMARY OF COMMENTS/RECOMMENDATIONS**

**PROPONENT:** Village of Cartwright  
**PROPOSAL NAME:** Village of Cartwright Water Treatment Plant Upgrade

**CLASS OF DEVELOPMENT:** One  
**TYPE OF DEVELOPMENT:** Waste Disposal - Water Treatment Plants (Wastewater)

**CLIENT FILE NO.:** 5345.00

### **OVERVIEW:**

The Proposal was received on May 13, 2008. It was dated May 8, 2008. The advertisement of the proposal was as follows:

“A Proposal has been filed by the Manitoba Water Services Board on behalf of the Village of Cartwright for the disposal of wastewater from an upgraded water treatment plant. The proposed plant is a package installation that would provide reverse osmosis treatment to remove iron, manganese, sulphate, hardness and total dissolved solids from the Village’s groundwater sourced water supply. Approximately 10% of the raw water would continue to be treated with the plant’s existing manganese greensand filter. The wastewater stream produced by the plant’s reverse osmosis system would consist of concentrated amounts of the constituents removed from the treated water, and would be discharged to Gimby Creek immediately east of the community. The wastewater produced would amount to an average of 0.65 litres per second for approximately 10 hours per day, or approximately 22% of the plant’s raw water requirement. Peak day demand for treated water is expected to be approximately 2.25 litres per second over the 20 year design lifespan of the system. Construction of the proposed upgrades to the plant is planned for 2008.”

The Proposal was advertised in the Cartwright South Manitoba Review on Thursday, June 5 2008. It was placed in the Main, Eco-Network, Millennium Public Library (Winnipeg) and Lakeland Regional Library (Killarney) public registries. The Proposal was distributed to TAC members on May 27, 2008. The closing date for comments from members of the public and TAC members was June 30, 2008.

### **COMMENTS FROM THE PUBLIC:**

No public comments were received.

**COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE:**

**Manitoba Conservation – Sustainable Resource and Policy Management Branch**

No concerns.

**Manitoba Conservation – Environmental Services Branch**

It is noted that section 2.7 Storage of Gasoline or Associated Products incorrectly refers to a former regulation that has been replaced with the Storage and Handling of Petroleum Products and Allied Products Regulation pursuant to The Dangerous Goods Handling and Transportation Act.

Disposition:

This comment can be addressed as a licence condition and will be forwarded to the proponent's consultant for information.

**Manitoba Water Stewardship**

- *The Water Rights Act* indicates that no person shall control water or construct, establish or maintain any “water control works” unless he or she holds a valid licence to do so. “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 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 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. If the proposal in question advocates any of these activities, application for a Water Rights Licence to Construct Water Control Works is required.
- Section 2.6.2 of the *Environment Act* Proposal indicates, correctly, that the Village of Cartwright will need to request changes to its existing Water Rights Licence.
  - The Village needs to apply to Steve Topping, Executive Director of the Regulatory and Operational Services Division of the Department of Water Stewardship requesting changes to its licence. The changes include:
    - changing the name of the Licencee from the Manitoba Water Services Board to that of the Village of Cartwright
    - the addition of any new wells to the Licence and confirmation of anticipated water use volumes and abstraction rates.

- The *Environment Act* Proposal notes that the proponent intends to discharge the reject flow via an underground gravity pipeline to Gimby Creek. Gimby Creek, even though it flows intermittently does provide seasonal habitat for a number of fish species (white sucker, carp and forage species). Where the discharge enters Gimby Creek is approximately 1 km upstream of Badger Creek which has pike, walleye, white sucker and a number of forage species. Given the fish species present it is important that the reject water falls within the Manitoba Water Quality Standards, Objectives, and Guidelines.
- Regarding the discharge pipe, the proponent should adhere to the measures identified in the *Environment Act* Proposal:
  - work will be conducted under dry conditions;
  - there will be no excavation within the riparian area adjacent to Gimby Creek as they will directional drill the pipe through this area; and,
  - no work will be conducted within the creek.
- An *Environment Act* Licence should include the following requirements:
  - The Department recommends to verify the estimated impacts by reject water (membrane concentrate) to Gimby and Badger creeks, when the membrane filtration system begins operations. The Department recommends conducting this verification through the development and implementation of a water quality monitoring program. This water quality monitoring program should operate for at least one full year to two years; an annual report should be provided by March 31<sup>st</sup> of each year to the Water Quality Management Section, for review;
  - The Department recommends the approval of the discharge of reject water to Gimby Creek on an interim/phase basis. The Department recommends to conduct an assessment/need of the discharge of reject water to the lagoon system, after review of water monitoring data:
    - While the overall load of minerals and other constituents in discharge water may not be significantly reduced by a lagoon discharge, the lagoon offers an ability to time discharge events during high flow periods.
  - Any upgrades to the lagoon should factor in accommodating volumes for reject water discharge.

Disposition:

Information pertaining to the Village's Water Rights Licence was provided to the proponent's consultant. Most of the remaining comments can be addressed as licence conditions.

**Historic Resources Branch** No concerns. If at any time however, significant heritage resources are recorded in association with these lands during development, the Historic Resources Branch may require that an acceptable heritage resource management strategy be implemented by the developer to mitigate the affects of development on the heritage resources.

Disposition:

This information will be provided to the proponent's consultant for information.

**Community Planning Services Branch** No concerns.

**Highway Planning and Design Branch** No concern.

**Medical Officer of Health – Assiniboine and Brandon RHAs**

1. Environment License clauses should address the following:
  - i. adherence to the Guidelines for Canadian Drinking Water Quality
  - ii. adherence to The Public Health Act Manitoba Regulations 330/88R and to applicable regulations in The Drinking Water Safety Act
    - i. Will the proposed water treatment plant address viruses and parasite elimination as well as trihalomethanes, bromodichloromethanes and turbidity?
  - iii. groundwater protection from leaks and spills from construction equipment and fueling activities.

Disposition:

Several of these comments can be addressed through licence conditions. The quality of water produced by the plant is regulated by the Drinking Water Safety Act through the Office of Drinking Water.

**Canadian Environmental Assessment Agency** I have completed a survey of federal departments with respect to determining interest in the project noted. I can confirm that the project information that was provided has been reviewed by all federal departments with a potential interest. Based on the responses to the survey, further information is required to fully determine if application of the Canadian Environmental Assessment Act (the Act) will be required for this project. Transport Canada has informed the Water Services Board of the information requirements (see enclosed letter.)

Please also note that Environment Canada (EC) has provided a brief comment on the project proposal, and the Department of Fisheries and Oceans (DFO) and Health Canada (HC) have indicated that they have specialist advice that may apply to the project if requested. Further, DFO has indicated that they wish to participate in provincial review of the project.

**Disposition:**

Environment Canada's comment is addressed in the proposal. DFO will be included in the Technical Advisory Committee circulation for the proposal.

**ADDITIONAL INFORMATION:**

No additional information was required to address Technical Advisory Committee comments on the project.

**PUBLIC HEARING:**

As no public requests for a hearing were filed, a public hearing is not recommended.

**RECOMMENDATION:**

Comments received on the Proposal can be addressed through licence conditions. It is recommended that the Development be licensed under The Environment Act subject to the limits, terms and conditions as described on the attached Draft Environment Act Licence. It is further recommended that enforcement of the Licence be assigned to the Western Region.

**PREPARED BY:**

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