

SUMMARY OF COMMENTS/RECOMMENDATIONS

PROPONENT: Village of Treherne
PROPOSAL NAME: Water Treatment Plant Upgrade

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

CLIENT FILE NO.: 4793.00

OVERVIEW:

The Proposal was received on May 6, 2002. It was dated April 29, 2002. The advertisement of the proposal was as follows:

“A Proposal has been filed by Cochrane Engineering Ltd. on behalf of the Village of Treherne for the construction and operation of upgraded water treatment facilities. The upgrades include a new pre-oxidation system, new filtration media and ion exchange softener resin, and upgrades to pumps, valves, controls and related equipment. Provision would also be made for the addition of a sequestering agent in the treated water distribution system to reduce corrosion in the pipelines. The capacity of the upgraded plant would remain at 6 litres per second, which will accommodate the Village’s demands to the year 2021. Wastewater from the plant would be discharged to the Village’s sewer system. Construction of the facilities is proposed to begin in the fall of 2002.”

The Proposal was advertised in the Treherne Times on Monday, May 27, 2002. It was placed in the Main, Centennial and Portage la Prairie City Library public registries. It was also placed in the Village of Treherne office as a public registry. The Proposal was distributed to TAC members on May 14, 2002. The closing date for comments from members of the public and TAC members was June 17, 2002.

COMMENTS FROM THE PUBLIC:

No public comments were received.

COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE:

Manitoba Conservation – Sustainable Resource Management Air scour backwashing has become a standard feature in granular filtration systems. This technology should be incorporated into the proposed upgrade. In addition, backwash

rates should be increased to ensure effective backwashing maintains the new filter bed in optimum working condition.

The ergonomic conditions in the laboratory-office area would be improved by providing separate ventilation isolated from the operating area, increasing the room size and modernizing the test bench area. A review and possible upgrade of the test equipment may be desirable to ensure that the operator is provided with the required tools to monitor and adjust the treatment process.

In accordance with Manitoba Safety and Workplace Health and Workplace Hazardous Materials Information System regulations, chemical storage facilities separate from the office-laboratory should be provided.

In accordance with requirements to prevent potential for a contaminated water event should the well be used without proper disinfection and testing preparation in an emergency, the unused well should be properly closed and sealed. Alternatively, the well could be maintained and used on a regular basis.

The Village of Treherne should be required to regularly submit raw and treated water samples to an accredited laboratory for complete chemical analysis.

The scheduling of the backwash process at night does not allow the operator to monitor, evaluate and adjust the process on a daily basis. This could allow inadequate backwashing and lead to further failure and fouling of the process.

Operation and maintenance checklists and service records should be established to ensure the quality and safety of the water and to prolong the lifetime of the mechanical process components and the building. Some evaluation of the staffing time requirements to properly operate and maintain the facility may be valuable in ensuring optimum water quality and preservation of the process equipment and building structure.

Consultation with the operator of this facility may provide some excellent information regarding the proposed upgrades and possible additional features.

The Office of Drinking Water should be asked to review and comment on this proposal.

Disposition:

Design and operation suggestions were forwarded to the Applicant's consultant for information. The regular submission of water samples for laboratory analysis is already a regulatory requirement through the Public Health Act. The Office of Drinking Water will review plans for the plant pursuant to the Public Health Act.

Historic Resources Branch

No concerns.

Highway Planning and Design Branch Manitoba Transportation and Government Services has no major concerns with this project. However, the Department wishes to note the following:

- ❑ If the proposal includes placing or upgrading water and/or sewer lines adjacent to and/or across Provincial Trunk Highway No. 2 (PTH 2) or the Treherne Access Road right-of-way, an Underground Waterline Agreement will be required. This Agreement would contain provisions regarding location of lines (and valves, cleanouts, etc.) within highway right-of-way, depth of burial, encasement, rehabilitation and future maintenance, marking of locations, applicant obligations, construction safety, etc.
- ❑ All affected ditches, slopes and disturbed areas within Provincial right-of-way must be restored to an acceptable condition.

For additional information, the Department's contacts are the Planning Technologist or the Technical Services Engineer in the Portage la Prairie Regional Office.

Disposition:

These comments were forwarded to the Applicant's consultant for information.

Community Planning Services Branch No issues or concerns.

Soils and Crops Branch No concerns.

Medical Officer of Health – Marquette, Brandon and South Westman RHAs No comments or concerns.

Canadian Environmental Assessment Agency Western Economic Diversification has provided notification that an environmental assessment under the Canadian Environmental Assessment Act with respect to this project will be required. (The Responsible Authority is Western Economic Diversification, represented by PFRA.) Environment Canada and Health Canada have offered to provide specialist advice. No federal agencies indicated an interest in participating in the provincial assessment of the proposal.

PUBLIC HEARING:

As no public concerns were identified, a public hearing is not recommended.

RECOMMENDATION:

All comments received on the Proposal have been addressed through regulatory requirements or procedures, or have been forwarded to the Applicant's consultant for

information. Since the initiation of the assessment process for this project, the Environmental Approvals Branch has decided not to issue separate licences for the discharge of wastewater from water treatment plants when the wastewater is to be discharged to a licenced wastewater treatment facility. Since the wastewater from this Proposal is to be discharged to the Village's wastewater treatment lagoon, an Environment Act Licence will not be required for the project. The attached letter has been drafted to the Village and its consultant explaining the situation, and providing construction and operating suggestions equivalent to licence conditions.

PREPARED BY:

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July 17, 2002
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July 17, 2002

Ms. Sheila Mowat
Chief Administrative Officer
Village of Treherne
Box 30
Treherne MB R0G 2V0

Dear Ms. Mowat:

Re: Treherne Water Treatment Plant (File: 4793.00)

This is further to your Environment Act Proposal of April 29, 2002, and my letter of May 14, 2002 concerning our assessment of the Proposal. During the assessment process, we determined that separate Environment Act licencing should not be required for water treatment plants which discharge their process wastewater to a wastewater treatment facility which is already licenced pursuant to The Environment Act. Accordingly, we have decided that environmental assessment and licencing is not required for your project. Your application fee of \$250 will be refunded separately.

During the assessment process, a number of comments were received respecting the design and operation of the water treatment plant which should prove useful to you. We have forwarded these comments to Cochrane Engineering for consideration. I also draw your attention to the following matters that pertain to the construction of water treatment plants:

1. Prior to the alterations in the treatment equipment of the plant, approval is required pursuant to The Public Health Act for final plans for the facility.
2. The design, construction and operation of the water supply system must be in accordance with Manitoba Regulations under The Public Health Act and all operating requirements as recommended by Manitoba Conservation.
3. The operation of the plant must be carried out by individuals properly trained or qualified to do so.
4. All used oil products and other regulated hazardous wastes generated by the machinery used in the construction and operation of the plant must be collected and disposed of in accordance with applicable Manitoba Conservation and legislation requirements.
5. The Red River Region of Manitoba Conservation should be notified not less than two weeks prior to beginning construction of the Development. The notification should include the intended starting date of construction and the name of the contractor responsible for the construction.
6. Non-reusable demolition and construction debris from the plant must be disposed of at a waste disposal ground operating under the authority of a permit issued under *Manitoba Regulation 150/91* respecting *Waste Disposal Grounds*.
7. During construction and operation of the plant, spills of fuels or other contaminants must be reported to an Environment Officer in accordance with the requirements of *Manitoba Regulation 439/87* respecting *Environmental Accident Reporting*.
8. Water withdrawn for the plant must be diverted in accordance with a Water Rights Licence issued for the project.

We appreciate the opportunity to review this information.

Yours truly,

Larry Strachan, P. Eng.

Director
Environmental Approvals

- c. Jennifer Shaykewich, Cochrane Engineering Ltd.
Dave Ediger, Red River Region, Winnipeg
Don Rocan, Office of Drinking Water
Ray Bodnaruk, Water Branch