SUMMARY REPORT

PROPONENT:

Mr. Bob Faveri

PROPOSAL NAME:

Camp Manitou Wastewater Treatment Plant

CLASS OF DEVELOPMENT:

Class 2

TYPE OF DEVELOPMENT:

Wastewater Treatment

CLIENT FILE NO.:

4104.00

BACKGROUND:

A proposal was filed with the Department of Environment on September 16, 1997, by Cochrane Engineering Inc. on behalf of Camp Manitou Inc., for upgrading the existing extended aeration package wastewater treatment plant located on lots 87 and 88 Parish of St. Charles in the Rural Municipality of Headingley. In accordance with the Environment Act, the proposal was advertised for public comments and copies were forwarded to members of the Interdepartmental Technical Advisory Committee (TAC) for their comments.

OVERVIEW:

Date of receipt of Proposal - September 16, 1997

Date of the Proposal - September 12, 1997

Brief Description of the Proposal

The existing wastewater treatment plant has been operating since 1987 under a City of Winnipeg wastewater discharge Licence. The wastewater treatment plant was inspected by staff of the Environmental Approvals branch of Manitoba Environment and operational deficiencies were identified by the staff. The owners of the plant were advised by Manitoba Environment to file a proposal with the Director, Environmental Approvals indicating how these deficiencies will be corrected, as well as how the wastewater treatment system will be operated after the deficiencies are corrected. The problems have resulted in an impairment of the quality of the sewage effluent being released to the Assiniboine River.
In order to improve the effluent quality and eliminate the problems identified, the proponent proposes the following corrective measures:

- removing the existing aeration pipes and diffusers from the header tube and replacing with new galvanized pipe and PVC diffusers;
- adding a time clock with hourly control function and timer to control the blower motor;
- replacing the existing chlorinator with a new unit, and extending the chlorine discharge hose

to the chlorine contact chamber;
- installing a trash basket at the entrance to the aeration tank;
- installing new anodes for cathodic protection;
- brushing rust and scale off the exposed faces of the structural angle iron around the opening of the aeration tank as well as the clarifier and aeration header;
- replacing the cross bracing angle iron on the opening of the aeration tank with new angles;
- painting the structural angle iron and aeration header with anti rust paint;
- removing the existing shelving from the north wall and replace with three level cantilevered pipe racks;
- replacing the existing lights with vapour proof units;
- providing an insulated room in the left front corner of the building;
- building-up the interior floor area of the plant; and
- replacing the manhole lift station cover for easier and safer access to the pump and controls.

Names of newspapers in which Proposal advertised

- Winnipeg Free Press - Wednesday, September 25, 1996

Public Registry Locations

- Main Registry
- Manitoba Eco-Network
- Centennial Public Library

Closing Date for Public Comments October 27, 1997.

Date when Proposal was sent to TAC and closing date for response from TAC September 22, 1997 and October 27, 1997 respectively.

COMMENTS FROM THE PUBLIC:

To date no comments were received from the Public.

COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE:

Water Quality Management Branch:

- The proponent has not provided a complete assessment of the potential water quality impacts. There is no information provided on the anticipated ammonia or chlorine residual in the effluent. However, the 11,600:1 dilution rate should result in a negligible impact on the Assiniboine River;
- It is recommended that a fail safe system be installed to ensure that large amounts of chlorine could not be accidentally discharged to the river; and
- Will the intermittent use of the camp result in an upset to the biological process of the plant?

Air Quality Management Section: - No concern received.

Historic Resources Branch: - No concerns.

Department of Natural Resources:

The proponent should provide further information on the concentration of chlorine residuals in the effluent entering the Assiniboine River and how this effluent will affect the river.

Department of Health - Central Region:

The health concerns are:

- minimizing odours;
- reduce impact of discharge on surface water;
- protection of groundwater supplies; and
- public safety issues.

Canadian Environmental Assessment Agency:

An environmental assessment under The Canadian Assessment Act will be conducted by Western Economic Diversification.

Disposition of Concerns of TAC members

The proponent was requested to provide the following:

i. a table indicating the un-ionized ammonia portion of the total ammonia for a typical operating year to determine whether the concentration of un-ionized ammonia will exceed the Provincial water quality objective;
ii. information regarding the disposal and method of treatment of biosolids from the clarifier;
iii. information regarding the peak wet weather flow to be disinfected;
iv. rationale for the statements made regarding the potential impact of the operation of the wastewater treatment plant on the surrounding environment;
v. measures that will be taken to prevent an upset of the biological process in the treatment phase due to any intermittent use of the plant; and
vi. a fail safe system to ensure large amounts of chlorine are not accidentally discharged to the river.

DISCUSSION

The concerns expressed by members of the Interdepartmental Technical Advisory Committee (TAC) should be addressed by the Proponent.

PUBLIC HEARING:

There has been no request for a Public Hearing.

RECOMMENDATIONS:

A public hearing is not recommended for this development.

RECOMMENDATIONS

The Proponent has provided an acceptable response to the concerns expressed by the TAC.

The Proponent should be issued a Licence to upgrade and operate the plant subject to the specifications, limits, terms and conditions of the Licence.

Prepared by:

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Municipal and Industrial Approvals Section
October 29, 1997.