

SUMMARY OF COMMENTS/RECOMMENDATIONS

PROPONENT: Incorporated Community of South Indian Lake / Department of Aboriginal and Northern Affairs
PROPOSAL NAME: South Indian Lake Wastewater Treatment Lagoon
CLASS OF DEVELOPMENT: 2
TYPE OF DEVELOPMENT: Waste/Scrap Wastewater Treatment Lagoons
CLIENT FILE NO.: 4776.00

OVERVIEW:

On April 11, 2002, the Department received a Proposal from Stantec Consulting Ltd. on behalf of the Incorporated Community of South Indian Lake for a Development to construct and operate a new wastewater treatment lagoon to replace the existing wastewater treatment plant. The lagoon facility will be located on the south half of Section 36-89-10 WPM approximately 2.3 kilometres southeast of the community. The treated wastewater will be discharged southeast through a natural drainage channel for approximately 5.5 kilometres before entering South Indian Lake.

The Department, on April 30, 2002, placed copies of the Proposal in the Public Registries located at 123 Main St. (Union Station), the Centennial Public Library, the Thompson Public Library, the South Indian Lake Community Office, and the Nisichawayasihk Cree Nation. As well, copies of the Proposal were provided to the Interdepartmental Planning Board and TAC members. The Department placed a public notification of the Proposal in the Thompson Nickel Belt on Monday, May 6, 2002 and The Drum on Wednesday, May 8, 2002. The newspaper and TAC notification invited responses until May 31, 2002.

COMMENTS FROM THE PUBLIC:

No comments were received from the Public.

COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE:

Agriculture and Food

- *No comment.*

Conservation - Sustainable Resource Management

- *If sections of the collection system are not constructed in 2002 the access road will need to be constructed in a manner to allow for heavy use regardless of the expected differential settlement.*
- *The operation of two wastewater treatment facilities is not supported unless absolutely necessary. If the SBR plant is going to continue operating it is expected to operate in compliance with the conditions of the existing licence.*

- *The decommissioning plan for the SBR should include seeding with grass to mitigate potential impacts to the lake due to erosion.*
- *The proponent should provide an inspection/maintenance plan to identify potential lagoon seepage due to settlement of the berms. Provision of this plan should be included as a condition of the licence.*
- *Will the standby power source utilize petroleum products as the proposal indicates that no gasoline or associated products will be used?*
- *The engineering plans for the collection system should be submitted to the Office of Drinking Water for approval under MR 331/88R of The Public Health Act.*
- *Should a new water treatment plant be constructed at South Indian Lake this summer the proponents should be advised to contact Environment Approvals Branch to determine if an Environment Act Licence is needed.*
- *It should be ensured that the effluent actually will flow through the marsh to the unnamed creek and to the lake and not just pool or accumulate in the marsh.*
- *The discharge period should be clarified and a storage period sufficient to treat the lagoon effluent in northern Manitoba should be required in the Licence.*
- *The proponent should be required to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director, for South Indian Lake and associated waterways and watersheds.*

Disposition:

- The proponent indicated that a truck dump station will be constructed to allow truck hauled wastewater and septage to be dumped into the collection system and pumped to the lagoon. The attached draft Licence requires the construction and maintenance of the truck dump station and prohibits the discharge of septage directly into the lagoon. These requirements will minimize vehicle use of the access road.
- The draft Licence requires that the existing wastewater treatment plant be decommissioned after the lagoon is constructed and put into operation.
- The attached draft Licence includes a requirement to seed the site with grass following decommissioning of the existing wastewater treatment plant.
- The attached draft Licence includes site inspection, reporting and repair requirements.
- The proponent indicated that the lift station for which standby power will be provided is located near the new water treatment plant and will be provided from that facility. The water treatment plant design includes a concrete spill containment area for the diesel generator.
- The proponent was advised of the requirement to file plans with the Office of Drinking Water.
- The proposal indicates that wastewater from the water treatment plant will be discharged to the lagoon; therefore, an Environment Act Licence is not required for the water treatment plant.
- The attached draft Licence allows discharge of treated wastewater from June 15th to October 31st of each year. The organic loading on the primary cell is restricted to 56 kilograms per hectare per day; however, the lagoon was designed for a loading of 22 kilograms per hectare per day on the primary cell as per Indian and Northern Affairs

Canada (INAC) requirements. By discharging more than half of the primary cells, the 230 day storage period can be achieved.

- The attached draft Licence includes a clause requiring the proponent to actively participate in any future watershed or drainage basin management plan, approved by the Director, for South Indian Lake and associated waterways and watersheds.

Culture, Heritage and Tourism - Historic Resources

- *No concerns.*

Health

- *No comment.*

Transportation and Government Services

- *No concerns, provided that access to the existing quarry is maintained.*

Intergovernmental Affairs

- *No concerns.*

Canadian Environmental Assessment Agency

- *Application of the Canadian Environmental Assessment Act with respect to this proposal will not be required.*

PUBLIC HEARING:

A public hearing is not recommended.

RECOMMENDATION:

The Proponent should be issued a Licence for the construction and operation of the wastewater treatment lagoon in accordance with the specifications, terms and conditions of the attached draft Licence. Enforcement of the Licence should be assigned to the Approvals Branch until the soil testing has been completed.

PREPARED BY:

Siobhan Burland, EIT
Municipal, Industrial and Hazardous Waste Approvals
February 13, 2003

Telephone: (204) 945-7012
Fax: (204) 945-5229
E-mail Address: sburland@gov.mb.ca