

ONTARIO WATER RESOURCES COMMISSION

Water pollution survey Town of
Matheson District of Cochrane.

1964

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WATER POLLUTION SURVEY

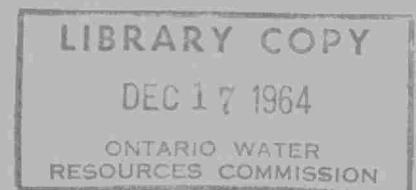
TOWN of MATHESON

District of Cochrane

1964

ONTARIO

WATER RESOURCES COMMISSION



REPORT

Ontario Water Resources Commission

District of Cochrane
Municipality TOWN OF MATHESON

Date of Inspection June 11, 13, 1964

Re: Water Pollution Survey

Field Inspection by M.Wilson, Engineer's Asst. Report by M.Wilson, C.S.I.(C)

INTRODUCTION

The purpose of this survey was to locate and record all significant sources of water pollution within the Town of Matheson. Surveys of this nature are conducted routinely and upon request throughout the Province of Ontario by the Ontario Water Resources Commission as a basis for evaluating any existing or potential sources of pollution.

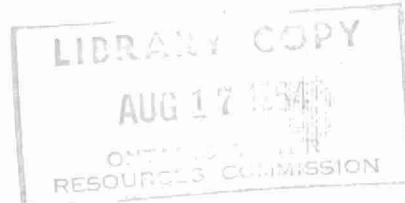
Recommendations are made pertaining to water pollution abatement and the Commission expects that corrective action will be taken by those concerned.

GENERAL INFORMATION

The Town of Matheson, with a population of 935, is located approximately 42 miles south-east of Timmins.

SEWER SYSTEM

Approximately two-thirds of Matheson is serviced with sewers. No sewage treatment facilities are provided in the sewerized area. There are two outlets to the Black River from the Matheson sewer system.



The Seventh Ave. 12-inch sanitary sewer discharges approximately 200 feet offshore. The Quinn Crescent 8-inch sanitary sewer serves approximately 30 residences in the Canadian Johns-Manville Co.Ltd. subdivision and empties into the Black River, a distance of 250 feet offshore. A section in the east side of the town is not provided with municipal sewer services.

WATER SUPPLY

Water from the White Fish Lake is chlorinated prior to being pumped to a 100,000-gallon ground reservoir. The water flows by gravity from the reservoir to the distribution system.

Apparently, the quantity and quality of this supply has been satisfactory.

DRAINAGE

Drainage for the town is supplied by storm sewers and open ditches. There are only two storm sewer locations, which are Fifth Ave. and Third Ave. and these drain the eastern section of the municipality.

COMMENTS

The present situation in Matheson was reviewed in a report prepared several years ago by Maitland Engineering of North Bay, and a method of sewage treatment was recommended.

The Seventh Ave. sanitary sewer collects sewage from 150 residences and discharges to the Black River 200 feet from shore. Maximum and average sewage flow figures were 350 U.S. gpm and 150 U.S. gpm, respectively. The 8" sanitary sewer on Quinn Crescent serves approximately 30 properties in the subdivision owned by Canadian Johns-Manville Co.Ltd. and extends into the Black River, a distance of 250 feet. This latter sewer is located about 800 feet downstream from the Seventh Ave.sewer. A maximum flow reading of 50 U.S. gpm was obtained from the Quinn Crescent sewer.

The report recommends a septic tank with a 12-hour retention based on a sewage flow of 200 U.S. gpm. This would include the installation of two parallel septic tanks to be located in the vicinity of the Seventh Ave. sewer outfall. In addition, two grit chambers are proposed ahead of the septic tanks. At some future date, the subdivision served by the Quinn Crescent sewer would be connected to this treatment system by means of approximately 900 feet of sewer.

Objections were raised to this proposal in that it did not seem to be a satisfactory location. The use of sewage lagoons as an alternative method of treatment has been proposed and a suitable site has been chosen but no further action has been taken by the Town of Matheson.

ANALYSES OF SAMPLES

The laboratory results of the bacteriological examinations and chemical analysis of the samples collected from the two outfalls are appended to this report.

SIGNIFICANCE OF LABORATORY RESULTS

The bacteriological examinations and chemical analysis indicated the effluents from the two sanitary sewers contained untreated wastes not suitable for discharging to a watercourse. This is a contravention of Section 27(1) of The Ontario Water Resources Commission Act which states:

"Every municipality or person that discharges or deposits or causes or permits the discharge or deposit of any material of any kind into or in any well, lake, river, pond, spring, stream, reservoir or other water or watercourse or on any shore or bank thereof or into or in any place that may impair the quality of the water of any well, lake, river, pond, spring, stream, reservoir or other water or watercourse is guilty of an offence and on summary conviction is liable to a fine of not more than \$1,000 or to imprisonment for a term of not more than one year, or to both".

SUMMARY

A water pollution survey of the Town of Matheson was effected on June 11 and 13, 1964. The outfalls discharging untreated wastes to the Black River were located and sampled.

The installation of sewage treatment facilities was discussed with Mr. G. Lawrence, Clerk-Treasurer, of the municipality. It was reported that there was no consideration being given to providing sewage treatment facilities at Matheson.

RECOMMENDATIONS

It is recommended that consideration be given to the installation of sewage treatment facilities.

All of which is respectfully submitted,

District Engineer;

S.E. Bellwell
for H. Browne

Approved by:

K.H.Sharpe
K. H. Sharpe, Director

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ONTARIO WATER RESOURCES COMMISSION
CHEMICAL LABORATORIESAll analyses except pH reported in
p.p.m. unless otherwise indicated

SEWAGE ANALYSIS

1 p.p.m. = 1 mgm. / litre
= 1 lb./100,000 Imp. Gals.

Municipality: Town of Matheson

Report to:

c.c.

Source: See below

Date Sampled: June 13/64 by: M.Wilson

BACTERIOLOGICAL EXAMINATION

Lab. No.	5-Day B.O.D.	Solids							Lab. No.	MPN per 100 ml Coliforms	E.coli
		Total	Susp.	Diss.							
5390	108	516	98	418					2110		24,000,000
5391	15	478	30	448					2111		24,000,000

5390/2110 Effluent from manhole at the end of 7th Ave.

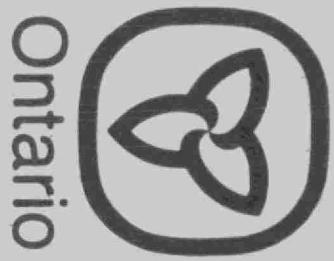
5391/2111 Effluent from Quinn Crescent manhole

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