

Permit No. MI0022551

FACT SHEET

PERMITTEE/FACILITY NAME: Tuscola County Board of Public Works / Village of Caro Wastewater Treatment Plant

COUNTY: TUSCOLA

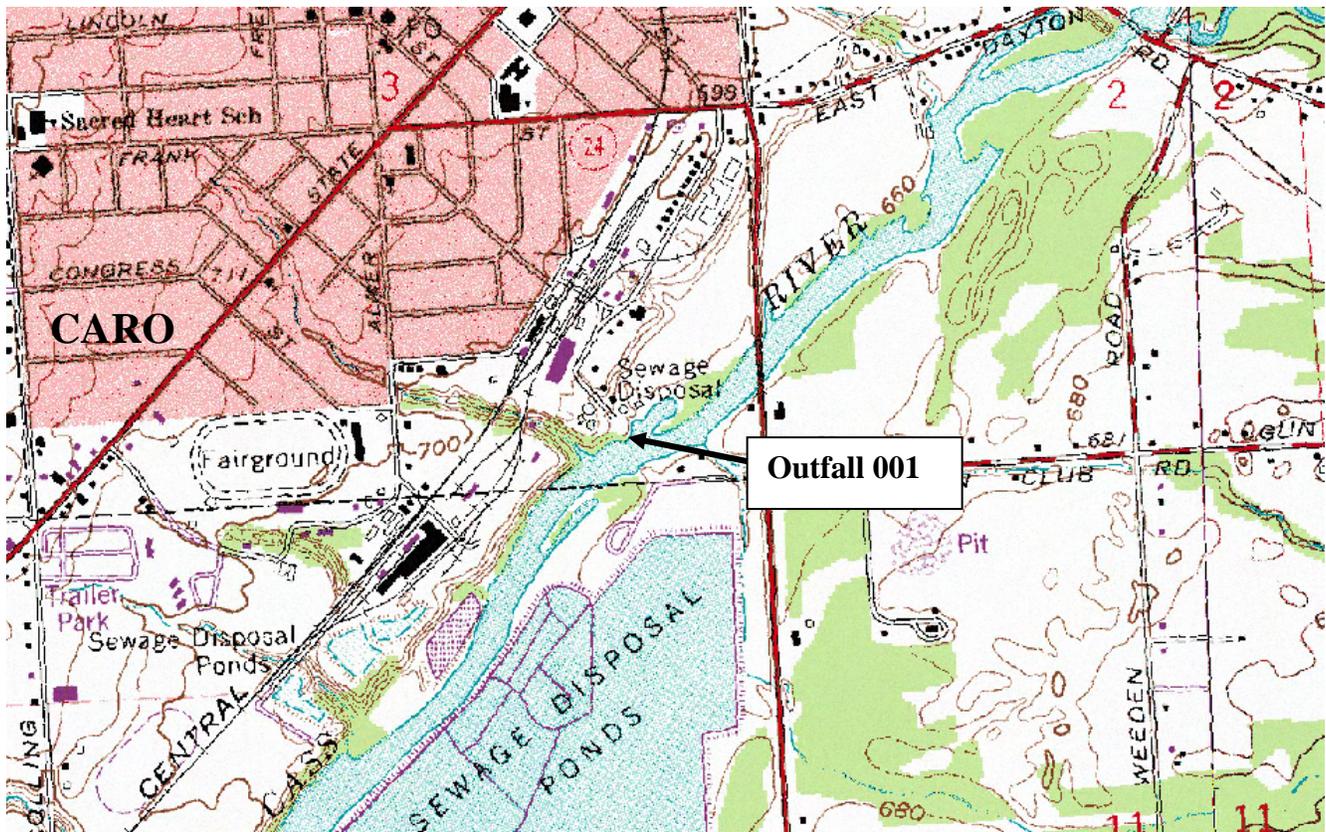
DESCRIPTION OF EXISTING WASTEWATER TREATMENT FACILITIES:

The Caro Wastewater Treatment Plant collects municipal wastewater from the Village of Caro and parts of Almer Township, Indianfields Township, the Tuscola County Correctional Camp, and the Regional Mental Health Center. Wastewater is treated using Rotating Biological Contact disks. Treated effluent is disinfected with chlorine. Sulfur Dioxide is used to dechlorinate effluent prior to discharge to the Cass River. Biosolids are anaerobically digested and injected or land applied on agricultural land at agronomic rates. Grit, scum, and screenings are landfilled.

MAP OF DISCHARGE LOCATION:

Facility Location Coordinates:

SE1/4, SE1/4, Section 3 , Town 12N, Range 9 E
Indian Fields Township, TUSCOLA COUNTY



RECEIVING WATER:

The Cass River is protected for agricultural uses, navigation, industrial water supply, public water supply in areas with designated public water supply intakes, warm-water fish, other indigenous aquatic life and wildlife, partial body contact recreation, total body contact recreation (May through October), and fish consumption.

The receiving stream flows used to develop effluent limitations are a 95 percent exceedance flow of 15 cfs, a harmonic mean flow of 74 cfs, and a 90-day, 10-year low flow of 24 cfs.

MIXING ZONE:

For toxic pollutants, the volume of the Cass River used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is 25percent of the applicable design flows of the receiving stream.

For other pollutants, the volume of the Cass River used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is the applicable design flows of the receiving stream.

EXISTING EFFLUENT QUALITY: (from completed application dated March 23, 2007)

| <u>Parameter</u> | <u>Minimum Daily</u> | <u>Maximum Monthly</u> | <u>Maximum 7-day</u> | <u>Maximum Daily</u> | <u>Units</u> |
|---|----------------------|------------------------|----------------------|----------------------|--------------|
| Carbonaceous Biochemical Oxygen Demand (CBOD ₅) | | 6.62 | | 12.7 | mg/l |
| Total Suspended Solids (TSS) | | 14.2 | | 26.6 | mg/l |
| Ammonia Nitrogen | | 6.85 | | 15.0 | mg/l |
| Total Phosphorus | | 0.73 | | 1.3 | mg/l |
| Total Residual Chlorine | | 0.001 | | 0.005 | mg/l |
| Fecal Coliform Bacteria | | 41.2 | 166.7 | | cts/100 ml |
| Dissolved Oxygen | 6.8 | | | | mg/l |
| pH | 7.1 | | 7.7 | | S.U. |
| | | <u>Minimum Monthly</u> | | | |
| CBOD ₅ Minimum % Removal | | 88.3 | | | % |
| TSS Minimum % Removal | | 66.3 | | | % |

PROPOSED EFFLUENT LIMITATIONS: (see draft permit)

BASIS FOR PROPOSED EFFLUENT LIMITATIONS:

Based on this facility's application for an NPDES discharge permit, the Michigan Department of Environmental Quality proposes to issue the applicant a permit to discharge, subject to effluent limitations and certain other conditions within the permit. Effluent limitations for CBOD₅, Ammonia Nitrogen (May through November), Total Phosphorus, Total Residual Chlorine, pH, and Dissolved Oxygen are based on water quality standards. The effluent limitation for Total Mercury is the Level Currently Achievable based on a multiple discharger variance from the water quality-based effluent limit of 1.3 ng/l, pursuant to Rule 323.1103(9) of the Michigan Water Quality Standards. Effluent limitations for Total Suspended Solids and Total Suspended Solids percent removal are based on secondary treatment standards. Effluent monitoring of Ammonia Nitrogen (December through May) and Total Mercury are based on water quality concerns. The monitoring of Total Flow is based on the permit writer's judgment.

REGISTER OF INTERESTED PERSONS

Any person interested in a particular application, or group of applications, may leave his/her name, address, and telephone number as part of the file for an application. The list of names will be maintained as a means for persons with an interest in an application to contact others with similar interests.

PUBLIC COMMENT

Comments or objections to the draft permit received between September 20, 2007, and October 22, 2007, will be considered in the final decision to issue the permit.

If submitted comments indicate significant public interest in the application or if useful information may be produced, the Michigan Department of Environmental Quality, at its discretion, may hold a public hearing on the application. Any person may request the Michigan Department of Environmental Quality to hold a public hearing on the application. The request should include specific reasons for the request, indicating which portions of the application or draft permit constitutes the need for a hearing.

Public notice of a hearing will be provided at least thirty (30) days in advance. The hearing will normally be held in the vicinity of the discharge. The Michigan Department of Environmental Quality will consider comments made at the hearing when making its final determinations on the permit. Further information regarding the draft permit, and procedures for commenting or requesting a public hearing may be obtained by contacting Karen Lauterbach, Permits Section, Water Bureau, Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan 48909, telephone: 517-373-1326; e-mail: lauterbk@michigan.gov.