

Region <u>WCR</u>	County <u>Portage</u>	Report Date <u>12/1976</u>	Classification <u>LAL</u>
Water Body: <u>Mill Creek Trib</u>			
Discharger: <u>Junction City WWTP</u>			

If stream is classified as Limited Forage Fish (LFF) or Limited Aquatic Life (LAL), check any of the following Use Attainability Analysis factors that are identified in the classification report:

- Naturally occurring pollutant concentrations prevent the attainment of use
- Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met
- Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place
- Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or operate such modification in a way that would result in the attainment of the use
- Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses
- Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact

Supporting Evidence in the report (include comments on how complete/thorough data is)

- Biological Data (fish/invert)
- Chemical Data (temp, D.O., etc.)
- Physical Data (flow, depth, etc.)
- Habitat Description
- Site Description/Map
- Other: photos

Historical Reports in file:

12/10/76 - Bill Jaeger

Additional Comments/How to improve report:

- ephemeral nature of stream identified as limiting factor
- do we need data to justify this?

Junction City, Portage County

Wastewater Receiving Stream Classification

The Junction City wastewater treatment system consists of two lagoons that have been in service for two decades. The final lagoon has two separate discharges that follow two pathways which meet a few hundred feet below the lagoon. The discharge then follows a small natural waterway that joins Mill Creek seven-tenths of a mile below the outfall and has a drainage area of 1.32 square miles. The 7-day Q_{10} of the tributary is zero cfs and it is normally dry except for the lagoon discharge. On the day of the survey, there was flow in the stream from the discharge, but it disappeared after a couple of thousand feet and the streambed was then dry. The streambank along this tributary is all marsh and tag alder swamp, and part of the lower end is pastured.

This unnamed tributary does not support fish life because of its ephemeral nature, although a few minnows may be present during spring runoff.

Recommendations: The unnamed tributary to Mill Creek that receives the Junction City discharge should have the noncontinuous hydrologic classification and "marginal" water quality classification.

12/10/76
Bill Jaeger



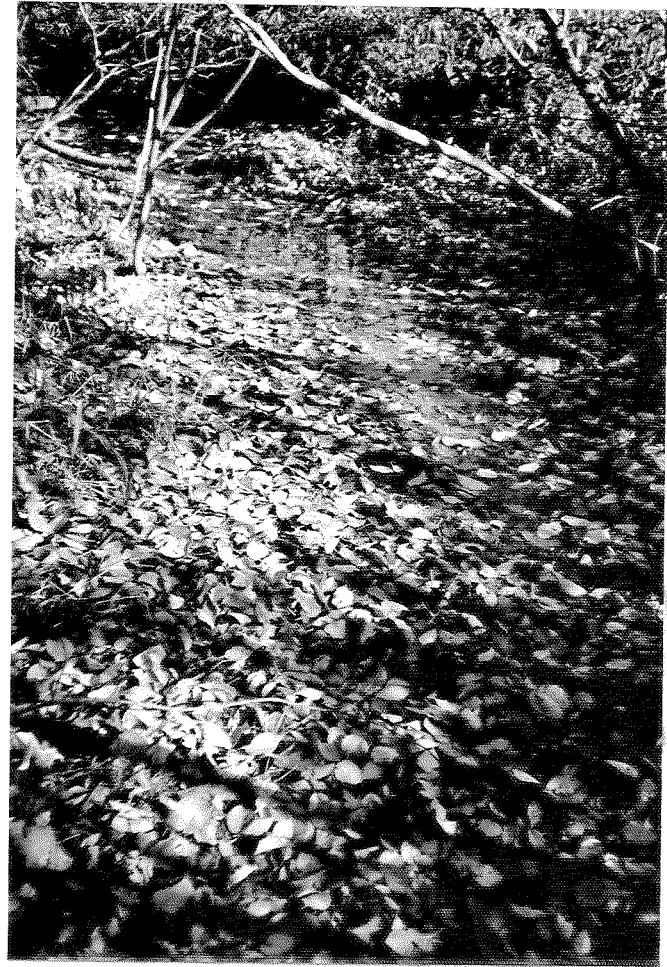
Junction City lagoon outfall.



Receiving stream 100 feet
below outfall.

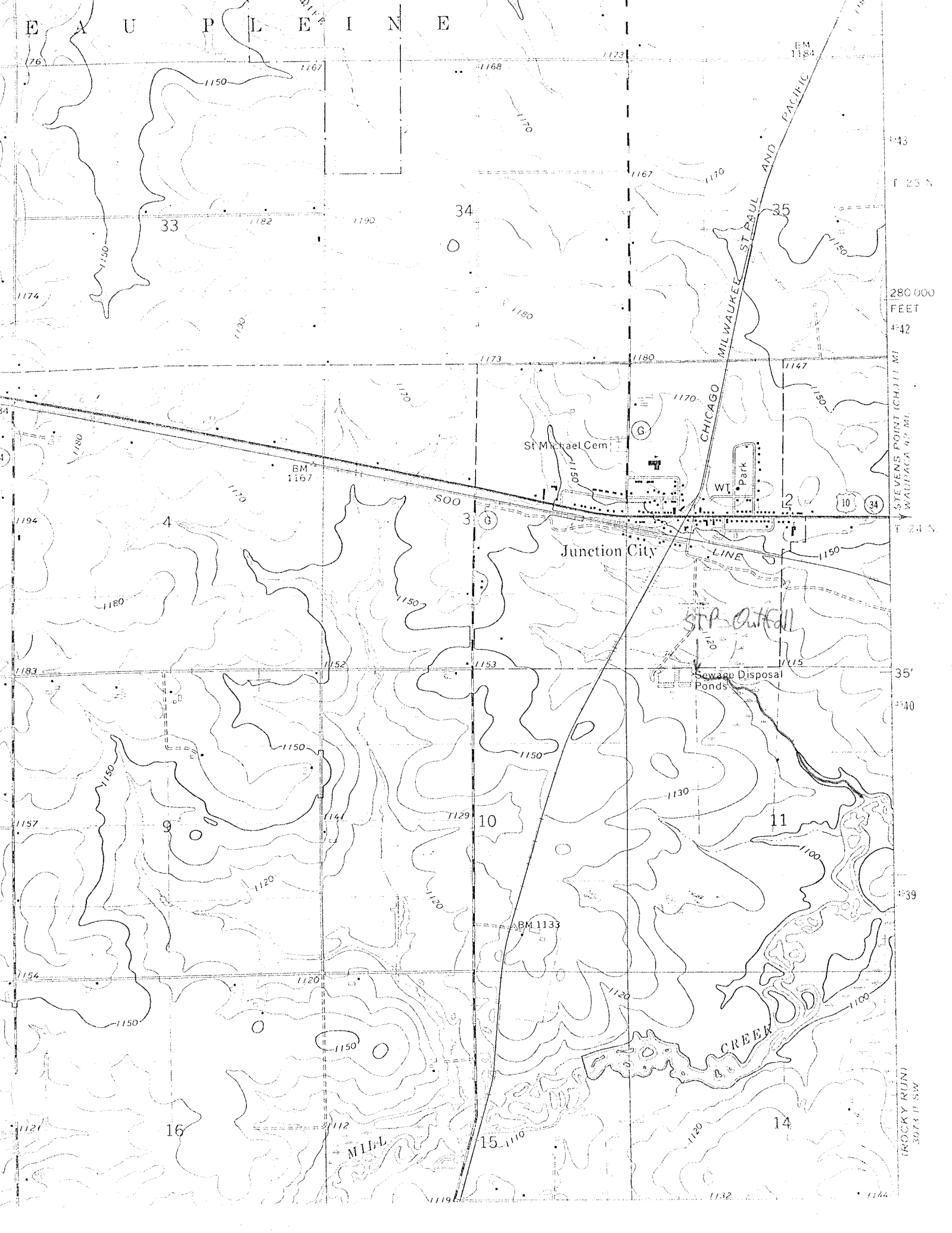


Receiving stream 300 yards
below outfall.



Receiving stream $\frac{1}{2}$ mile
below outfall.

E A U P L E I N E



280 000 FEET
STEVENS POINT (CH) 11 MI
WAUPACA 42 MI

ROCKY RUN
307.3 11 SW

St Michael Cem

Junction City

Sewage Disposal Ponds

STP outfall

CHICAGO MILWAUKEE ST PAUL AND PACIFIC

LINE

CREEK

33

34

35

4

3

2

9

10

11

16

15

14

BM 1167

BM 1133

MILL

76

1167

1168

1173

BM 1164

1150

1170

1170

1174

1170

1180

1167

1150

1173

1180

1147

1170

1150

1194

1170

1170

1180

500

1170

1150

1183

1152

1153

T 24 N

1157

1150

1150

T 35

1154

1120

1129

T 39

1121

1120

1120

T 43

1119

1112

1110

1120

T 42

T 44

Field Survey Dates: Primary 7/27/76
Rechecked 10/6/76

Survey Crew: Jack Zimmerman, Fish Management
Bob Derksen, E. P. District Engineer
Bill Jaeger, E. P. Biologist