

Region NER County Fond du Lac Report Date 1975 and 1983 Classification LFF

Water Body: East Branch of De Neven Creek

Discharger: Village of Eden WWTP

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
- Low flows noted, but classified as continuous. 1975 and 1983
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
- 1975 report states there are several impoundments in the stream
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
- 1983 report cites fair habitat rating
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) 1975 report lists "snails, leeches, caddisflies and scuds," and no fish. (Algae and pondweed too)
The 1983 report cites Simuliids as only invertebrates present and fathead and stickleback minnows as only fish.
- Chemical Data (temp, D.O., etc.) 1975 report presents no chem data. 1983 report also presents no chem data.
- Physical Data (flow, depth, etc.) 1975 report gives a 70% of 0.04 cfs. The 1983 report gives width, depth, flow information.
- Habitat Description 1975 report describes pool-riffle sequences, rock substrate, impoundments, spring-fed.
The 1983 report cites a "fair rubble substrate." Bank impacted by cattle. Habitat rating of 167.
- Site Description/Map 1975 report describes flow through pasture land.
Map included (hand-drawn). The 1983 report describes effluent flow to the creek.
- Other: _____

Historical Reports in file:

- 1975 Wastewater Receiving Stream Classification for Eden, Fond du Lac County. 1 page
- 1983 Stream Classification of the East Branch of De Neven Creek at Eden

Additional Comments/How to improve report:

Biological data is old and may need to be updated. Neither report presents any chemical data. Are impoundments and cattle impacts still present? Is the flow still very low?

Eden, Fond du Lac County

Wastewater Receiving Stream Classification

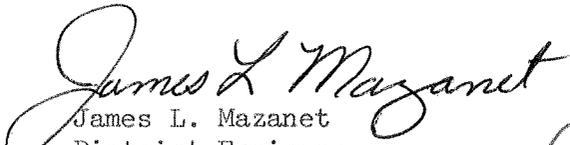
Survey Date: 8-6-75

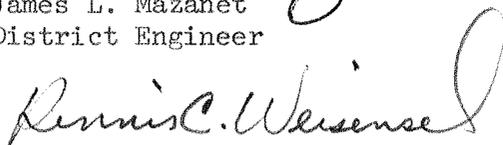
The Village of Eden discharges its secondary wastewater effluent to a tributary of DeNeveu Creek. The stream is spring fed, and originates in the southwest corner of the Village of Eden. The stream is a riffle pool-type stream with rocks for sub-strato. Benthic life at the County Trunk "B" bridge (above the sewage treatment plant) consists of snails, leaches, cat-tisflies and scuds. Below the treatment plant, the stream meanders through pasture land for about 1/2 mile. There are several impoundments in the stream. The stream has a $7Q_{10}$ of 0.02 CFS.

0.04 USGS (1975)

Recommendations

The tributary to DeNeveu Creek shall be classified as a continuous, intermediate aquatic life stream to the confluence with DeNeveu Creek. DeNeveu Creek shall be classified as a continuous, fish and aquatic life stream.


James L. Mazanet
District Engineer


Dennis C. Weisensel
District Biologist

JLM:DCW:sh

January 5, 1983

3200

Files

Keith F. Hutchison

Stream Classification of the E. Br. of De Neveu Creek at Eden

On September 8, 1982 the E. Br. of De Neveu Creek was assessed at the Eden Wastewater Treatment Plant (WWTP) in Fond du Lac County. The WWTP actually discharges to a pasture and flows about 50 yards through a poorly defined channel before entering De Neveu Creek. This channel would definitely be classified as marginal surface water, as there was no flow other than the WWTP discharge and a groundwater discharge from a sump at the WWTP. *(not the E. Branch of De Neveu)*

The E. Br. of De Neveu Creek is continuous flowing according to the USGS topographic map. Low flows are estimated at less than $\frac{1}{2}$ cfs. and the $Q_{7.10}$ more than 5 miles below Eden is only .39 cfs. The stream varied from 5 to 12 feet in width and averaged less than $\frac{1}{2}$ foot in depth. It had a fair rubble substrate but mostly only Simuliids were observed. Fathead and stickleback minnows were captured and identified. Some filamentous algae was growing on the rocks and some flatstem pondweed was growing in the pools. Pastured cattle have trampled the bank in some areas.

The stream system habitat rating form was used and the stream was assigned a value of 167, which indicates a D "use class." Based on this writer's observations and the stream system habitat rating, the E. Br. of De Neveu Creek should be classified as a class D stream, or continuous intermediate aquatic life at Eden.

KFH:lr

cc: Tom Bainbridge, SD
→ Dan Moran, GEF II

NOTED:

Date

↖ 2.5 miles to DeNeven Cr.

CTH 'UU'

POND

STH '45'

POND

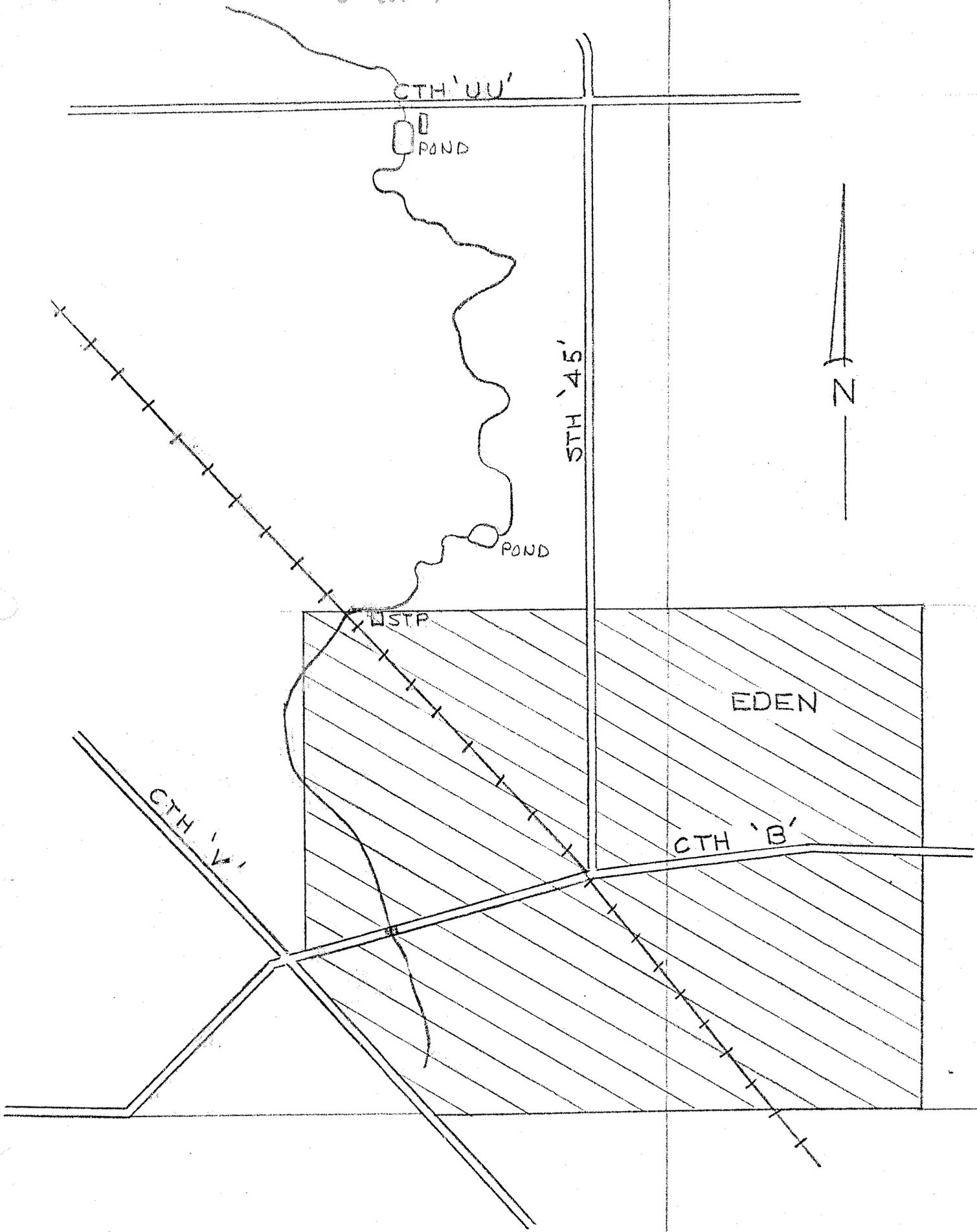


NSTP

EDEN

CTH 'V'

CTH 'B'





Tributary of DeNeveu Creek looking
upstream from County "B" bridge.



Tributary of DeNeveu Creek at the discharge
from the Eden STP.



Tributary to DeNeveu Creek 100 yards
below Eden STP.