

Region <u>WCR</u>	County <u>Monroe</u>	Report Date <u>no report</u>	Classification <u>CW</u>
Water Body: <u>Baraboo River</u>			
Discharger: <u>Kendall 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: \_\_\_\_\_

**Historical Reports in file:**

✓  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Additional Comments/How to improve report:**

no report - CW stream  
 \_\_\_\_\_  
 \_\_\_\_\_

## CORRESPONDENCE/MEMORANDUM

Date: January 22, 1985

File Ref: 3600-1

To: Geoff Emerson

From: Terry A. Moe <sup>TAM</sup><sub>tv</sub>

Subject: Stream Classification Change

Please review these classification changes with Water Resources Management. The Baraboo River recommendation may have some effluent limit implications for Kendall.

TAM:tv

~~cc:~~ Kenneth Wright  
Attach.

CORRESPONDENCE/MEMORANDUM

Date: January 17, 1985

File Ref: 3600-1

To: James L. Lissack

RECEIVED  
OCT - 3 1985  
DNR La Crosse Area

From: Kenneth J. Wright *KJW*

Subject: Stream Survey and Classification of the Baraboo River, Monroe County

Based on the May 8, 9, and 10, 1984 stream survey data of the Baraboo River, Monroe County, my findings and recommendations are as follows:

The Baraboo River, in Monroe County, is a clean spring-fed, headwater stream tributary to the Wisconsin River. This stream flows in a south-easterly direction, has a low gradient (less than 10 feet per mile) and is 7.9 miles long.

The water is clear, cool, and contains a low suspended silt load. The streambed consists mainly of rubble, gravel, sand, and silt. Aquatic vegetation is scarce.

Bank cover consists of willow, box elder, various grass species, alder, and pasture. The Elroy-Sparta bike trail runs along and crosses the Baraboo River numerous times.

Instream cover is scarce and consists mainly of fallen trees, over-hanging grasses, and deep pools.

The Baraboo River has a high conductivity and a high methyl purple alkalinity, therefore, it should have a high biotic productivity. Brown trout have an estimated standing crop of 47.1 fish per acre with an estimated poundage of 35.22 pounds per acre. Forage fish species are abundant. White suckers, creek chubs, and common shiners are the most common species present. Limited natural reproduction of trout is occurring in the upper reaches. Carryover and growth of stocked brown trout is good.

The Baraboo River is presently classified as Class II brown trout water from Juneau County upstream to the S.T.H. "71" crossing in Kendall and non-trout water from this point upstream. This classification should be changed to Class II brown trout water for its entire length in Monroe County.

The primary reason for doing this survey was an appeal by the Kendall Sportsmen's Club for more recent data on the Baraboo River. A bait fish dealer was seining minnows in the Baraboo River in an area which local fishermen thought should be trout water.

*JLL/CEP*

TO: James L. Lissack - January 17, 1985 (3600-1)

2.

Recommendations include continued stocking of brown trout both by the state and the coop ponds. No land acquisition or habitat improvement is needed at the present time.

The Baraboo River is navigable for its entire length.

GM:mr  
Attachments

NAME Baraboo River		COUNTY Monroe	
LOCATION Township 15 North, Range 1 East, Section 24			
SIZE:			
Average width of trout water <u>11.8</u> ft.		Total length of trout water <u>4.8</u> mi.	
Area of trout water <u>6.8</u> acres		Total length of stream <u>4.8</u> mi.	
DRAINAGE AREA:		FLOW:	
Direct <u>14.65</u> sq. miles.		_____ cfs.	
Total <u>45.90</u> sq. miles.		Average velocity <u>Moderate</u>	
TEMPERATURE:			
Average _____ Minimum _____ Maximum _____			
WATERSHED LAND USE: Agricultural - 73%, Wild - 25%, Wetland - 2%			
BANK COVER: Pasture; Elroy-Sparta Bike Trail, Swamp Hardwoods			
INSTREAM COVER: Scarce - occasional log or tree, over-hanging grasses			
POOLGRADE AND POOL-RIFFLE RATIO:			
MPA: <u>166</u>	pH: <u>7.8</u>	CONDUCTANCE ( $\mu$ mhos at 77°F): <u>360</u>	WATERCOLOR: <u>Clear</u>
PROBLEMS (List): <u>Siltation, flooding, seining by minnow dealers causing public relations problems</u>			
FISHING CONDITIONS:			
Access	<u>The Elroy-Sparta Bike Trail, S.T.H."71" crossings, and several townroad crossings</u>		
Fishability	<u>Good to excellent</u>		
Fishing intensity	<u>Moderate</u>		
COMMENTS:			
<u>The Baraboo River has the potential to become a good trout stream with some limited instream habitat development. Lack of instream cover seems to be the limiting factor to the development of a good trout fishery.</u>			
INVESTIGATOR		DATE	
Greg Mathson		1-8-85	

METHOD OF SAMPLING		AREA SAMPLED		NO. MARKED FISH STOCKED		STOCKING DATES							
150 Volt D.C. Stream Shocker, 2 electrodes, 150 Volt D.C. Generator with 300' longline		3.12 acres											
SPECIES		STATION NUMBERS										TOTAL	
		1	2	3	4	5	6	7					
Brown Trout	Fingerling												
	Yearling	2	3	14	30	36	44						129
	Adults			1	7	8	2						18
	Marked Fish												
	TOTAL	2	3	15	37	44	46						147
Brook Trout	Fingerling							13					13
	Yearling												
	Adults												
	Marked Fish												
	TOTAL								13				13
White Sucker	Fingerling												
	Yearling												
	Adults												
	Marked Fish				Many more			Counted	Counted				
	TOTAL	68	93	86	66	100's	78	35					426+
OTHER SPECIES	Fingerling												
	Yearling												
	Adults												
	Marked Fish				Observed	Observed							
	TOTAL												
Creek Chub	P	C	C	A	A	C	A					C	
Common Shiner	P	P	C	A	C							C	
Southern Redbelly Dace		P		C	C	P	C					C	
Fathead Minnow		P		C								P	
Bluntnose Minnow		P		C								P	
TOTAL													
<b>GRAND TOTAL</b>	70+	96+	101+	103+	44+	124+	48+					586+	

MODAL SIZES OF THE PRIMARY SPECIES

NUMBER PER ACRE		ESTIMATED POUNDAGE PER ACRE	
TROUT	OTHER SPECIES	TROUT	OTHER SPECIES
Brown Trout-47.1		Brown Trout-35.22	

EVALUATION  
The Baraboo River is presently classified as Class II trout water from the Juneau-Monroe County line upstream to the S.T.H. "71" crossing in Kendall. The remainder is non-trout water. This classification should be changed to Class II trout water for its entire length in Monroe County.

INVESTIGATOR Greg Mathson	DATE 1-8-85
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METHOD OF SAMPLING	AREA SAMPLED	NO. MARKED FISH STOCKED	STOCKING DATES
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SPECIES		STATION NUMBERS											TOTAL	
		1	2	3	4	5	6	7						
	Fingerling													
	Yearling													
	Adults													
	Marked Fish													
	TOTAL													
	Fingerling													
	Yearling													
	Adults													
	Marked Fish													
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	Yearling													
	Adults													
	Marked Fish													
	TOTAL													
	Fingerling													
	Yearling													
	Adults													
	Marked Fish													
	TOTAL													
OTHER SPECIES														
Slimy Sculpin		P					P	P						P
Stoneroller				A	G									P
Johnny Darter				C	P	P								P
Fantail Darter					P	P								P
Blacknose Dace					P	P	P							P
TOTAL														
<b>GRAND TOTAL</b>														

MODAL SIZES OF THE PRIMARY SPECIES

TROUT	NUMBER PER ACRE		TROUT	ESTIMATED POUNDAGE PER ACRE	
		OTHER SPECIES			OTHER SPECIES

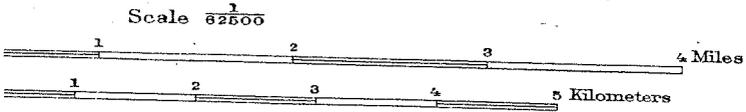
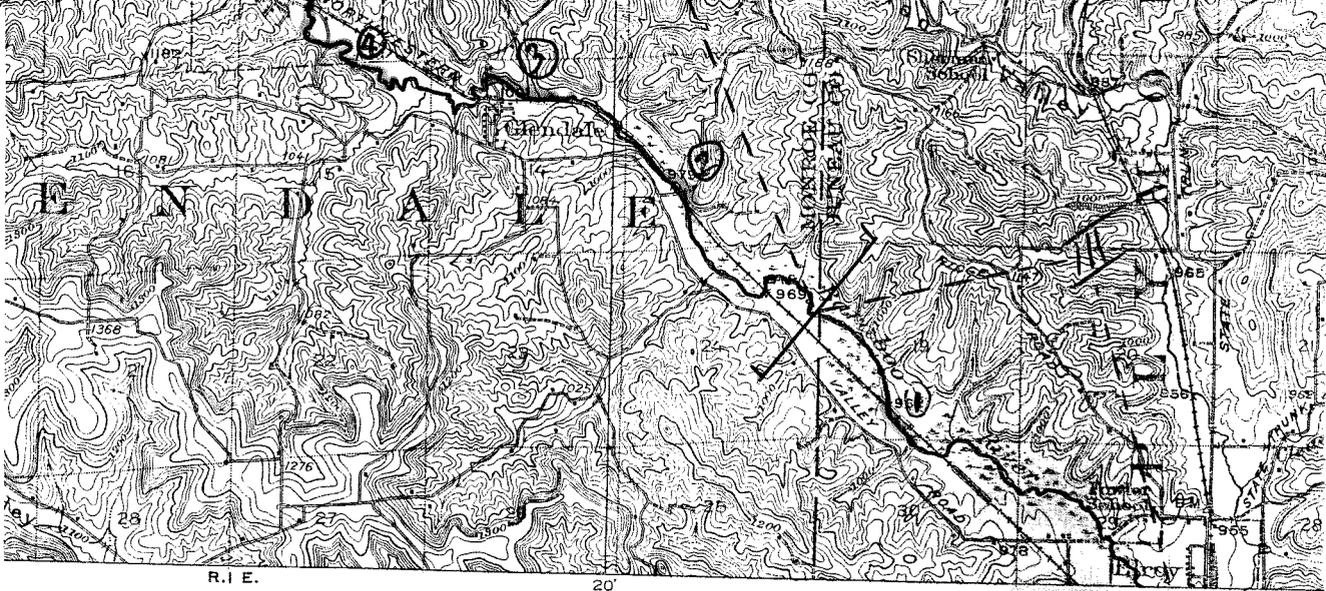
EVALUATION

INVESTIGATOR Greg Mathson	DATE 1-10-85
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- Trout Water
- Station
- Station Number
- Pollution Source
- Spawning Ground
- Springs
- Stream Class
- Beaver Dams

Scale: 1" = 1 mile



Contour interval 20 feet.

Datum is mean sea level

TRUE NORTH  
MAGNETIC NORTH

Polyconic projection, North American

Eng  
e.  
Npls.  
kett.