

WATER QUALITY STANDARDS REVIEW FOR AN  
INTERMITTENT TRIBUTARY TO HUTTON CREEK  
NEAR EMERALD, WI

February 3, 1994

PAUL LA LIBERTE

drop  
delete

While the Emerald / Glenwood Sanitary District has held a WPDES permit authorizing discharge to surface water since 1976, it has never had a discharge. The secondary ponds were constructed without liners and obvious have leakage rates sufficient to accommodate the entire influent flow. In recognition of this, their most recent WPDES permit lists them as a discharge to groundwater with no authorization for a surface water discharge. Because this facility will no longer be able to discharge to surface water, and there is no other source of water to the dry run tributary, the receiving water should be removed from listing in NR104, Wisconsin Administrative Code.

cc. J. Ball - WR-2  
K. Barrett - WR/2  
P. Skorseth - WR/2

RECEIVED  
FEB 4 1994

## CORRESPONDENCE/MEMORANDUM

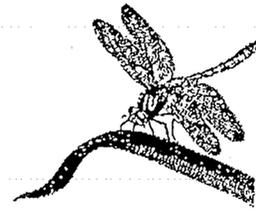
STATE OF WISCONSIN

Date: April 23, 1990

File Ref: 3200

To: Emerald-Glenwood Sanitary District Facility File

From: Paul LaLiberte

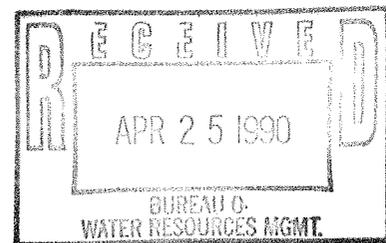


Subject: Water Quality Standards Review

Since the last water quality standards review for the Emerald tributary to Hutton Creek (1986), no additional information has been collected. The stream classification therefore should remain the same. No changes in applicable water quality standards are needed. The facility has not discharged wastewater in the last five years, suggesting seepage to groundwater. Groundwater protection measures will probably prompt eventual renovation of the treatment system. Water Resources Management should work closely with Wastewater Management when reviewing design alternatives for this facility. In the past, renovation of similar facilities in the area resulted in:

1. Sealing the seeping cells and discharging continuously to surface water only to have the wastewater seep to groundwater in the first quarter mile of a dry run.
2. Designing a fill and draw facility in an attempt to discharge during snowmelt, which may be limited to a five day period with little advance notice.

cc → Duane Schuettpelz WR/2  
Pete Skorseth



## CORRESPONDENCE/MEMORANDUM

Date: June 13, 1986

File Ref: 3200

To: Emerald-Glenwood Facility File

From: Paul LaLiberte *PL*

Subject: Review of Wastewater Receiving Stream Classification

*Hutton Creek*

Since the original stream classification in 1976, a preoperative PSI study was conducted (1979) at the site, concluding that flow is sustained in the receiving stream only in the spring and that discharges should be confined to that season.

An inspection on 5/6/86, during an unseasonably dry spring, found only standing water in pools and terrestrial vegetation in the drainage-ways. No evidence of effluent was found where the effluent ditch crosses the town road. The current path of effluent flow is different than that described in the stream classification report dated 9/22/76. At present, the effluent would flow south along the lagoon access road to the north side of an east-west town road where it flows east to a road culvert. A corrected map is attached.

Recommendations

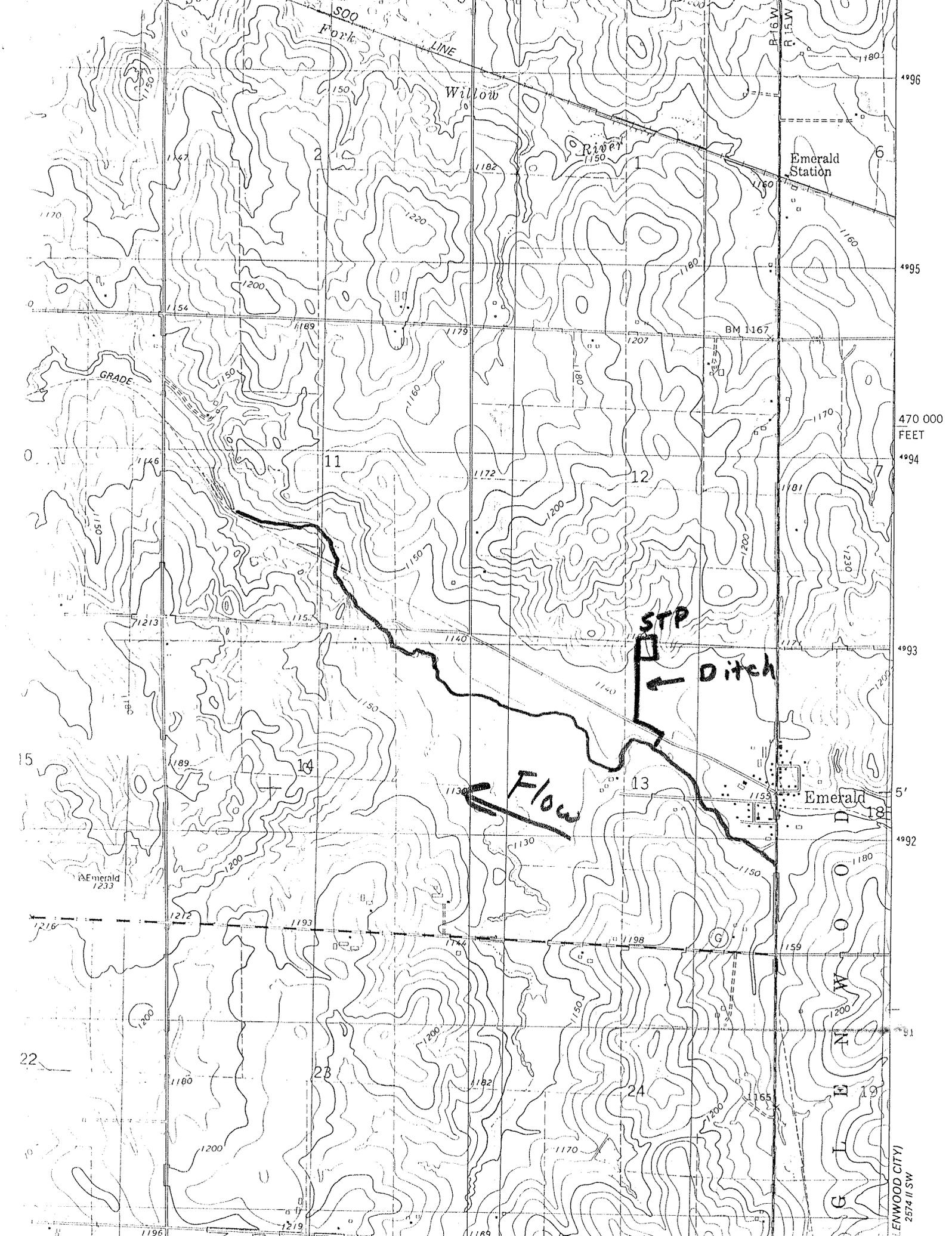
The current classification of marginal fish and aquatic life (use class E) is appropriate.

PL:dd

Attach.

cc: Tom Roberts  
Duane Schuettpelz

PLT253



Fork LINE

Willow River

Emerald Station

Emerald

GLNW  
18  
19  
20  
21  
22

ENWOOD CITY  
2574 II SW

496

495

470 000  
FEET

494

493

5'

492

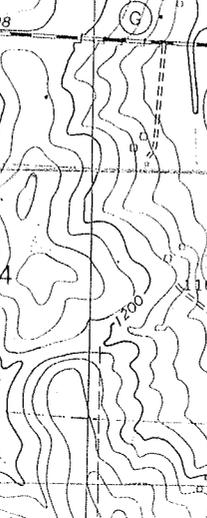
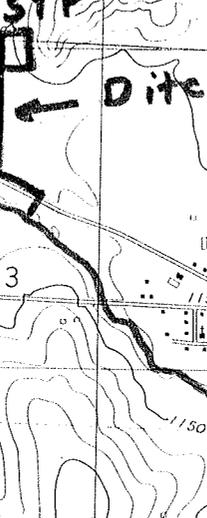
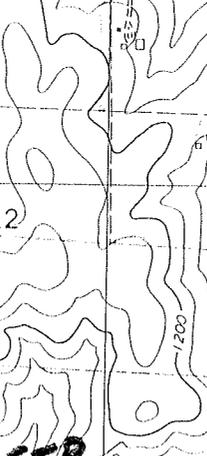
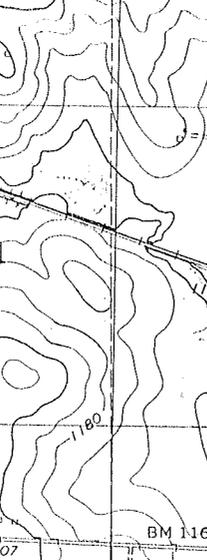
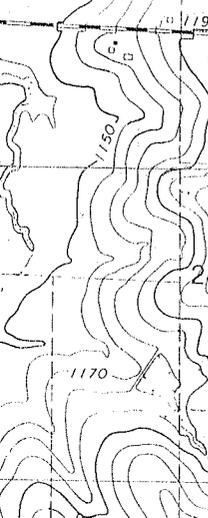
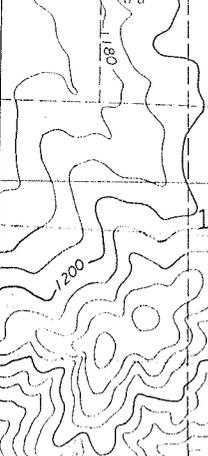
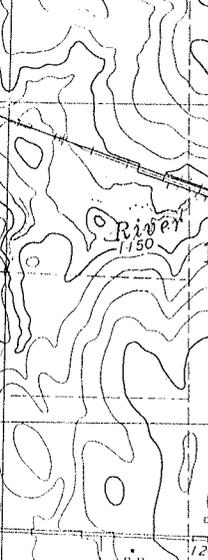
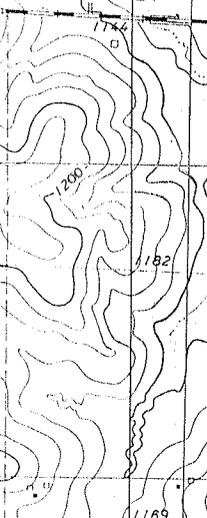
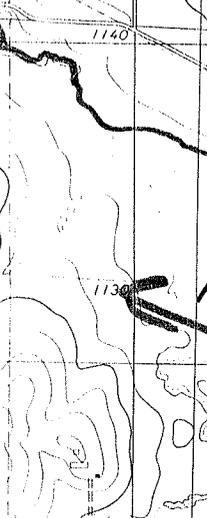
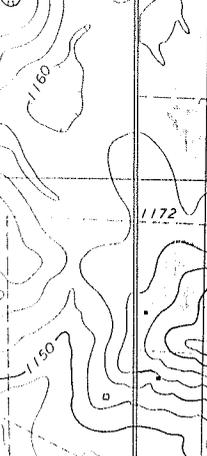
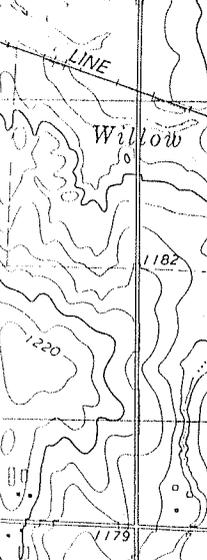
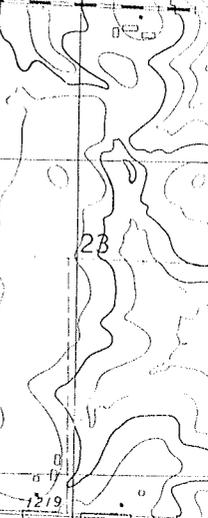
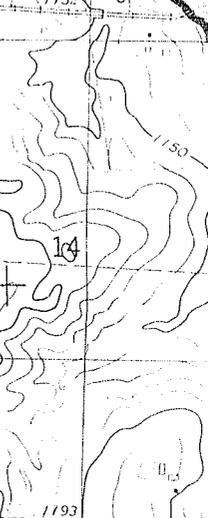
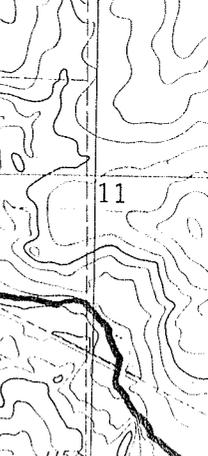
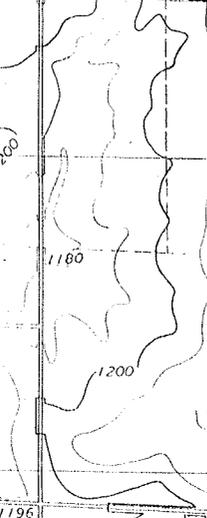
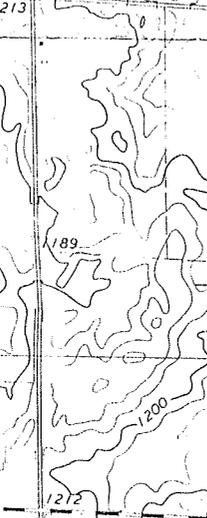
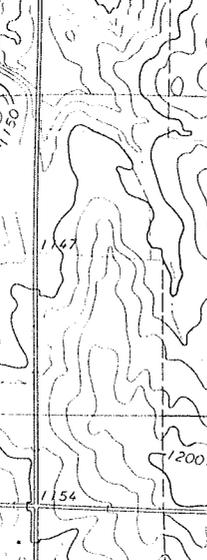
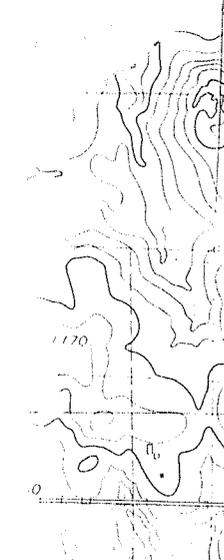
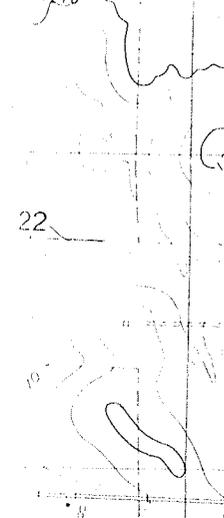
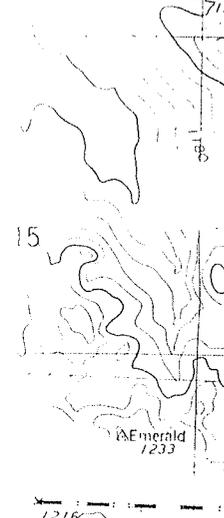
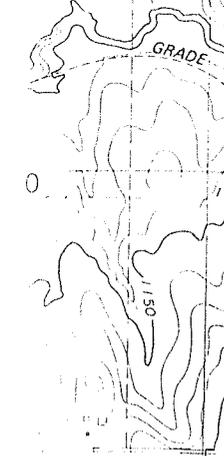
491

STP

Ditch

Flow

GRADE



EMERALD/GLENWOOD SANITARY DISTRICT #1, ST. CROIX COUNTY

WASTEWATER RECEIVING STREAM CLASSIFICATION

Receiving stream - Drainage to tributary of Hutton Creek, Q<sub>7,10</sub> at discharge site = 0.00 CFS.

The Emerald/Glenwood WWSP (currently under construction) will discharge to a constructed effluent ditch. The ditch will carry effluent south along the lagoon access road to the north side of an east/west town road where it flows west to a road culvert. From the culvert flow is south over a farm field to a tributary stream of Hutton Creek. The tributary stream was dry at the point of proposed effluent entry and was heavily pastured. Total distance from pond discharge to Hutton Creek tributary is approximately 1,000 feet. Hutton Creek possesses intermittent flow as far downstream as the crossing at CTH S about one mile before the confluence with South Fork Willow River. Land use around the WWSP construction site is agricultural.



WWSP construction site looking NE, effluent ditch will be located to right of pole

Effluent/drainage route from town road to Hutton Creek tributary at tree-line, looking south

Hutton Creek tributary where drainage way enters, looking east

RECOMMENDATIONS:

The Emerald/Glenwood WWSP discharge receiving area from the discharge point to the tributary of Hutton Creek shall be assigned changing classifications of wastewater effluent channel and diffused surface water. Hutton Creek tributary and Hutton Creek are classified noncontinuous, marginal use streams approximately two miles downstream to the section 10/11, north/south town road. At this point the classification changes to non-continuous, intermediate aquatic life.

EVALUATION DATE: September 22, 1976

PERSONNEL:

Terry A. Moe - Water Pollution Biologist - WCD

