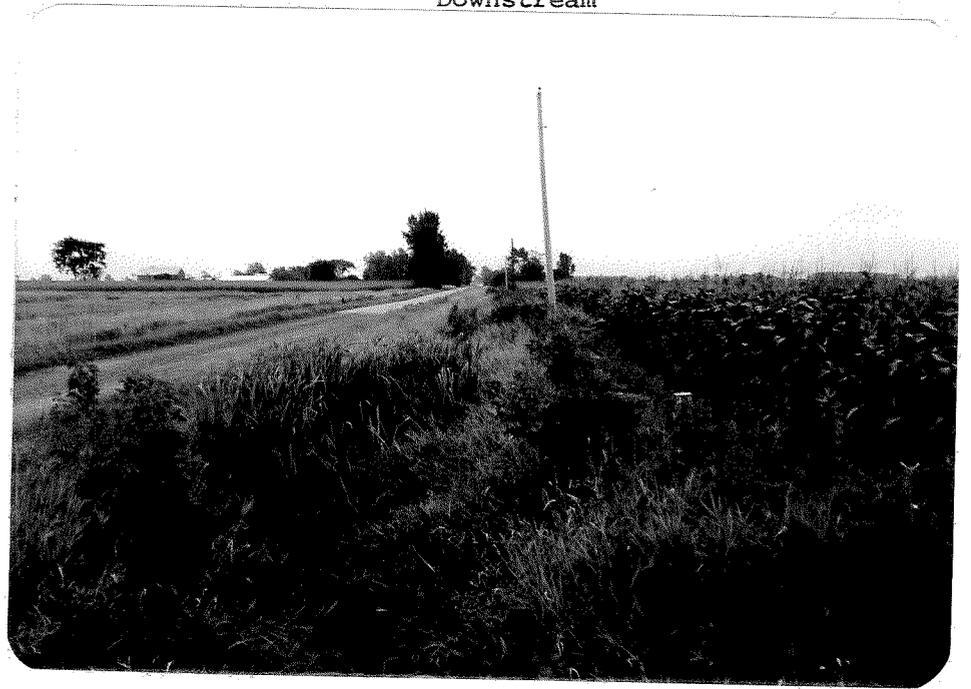


STATION #2  
Upstream



STATION #3  
Downstream

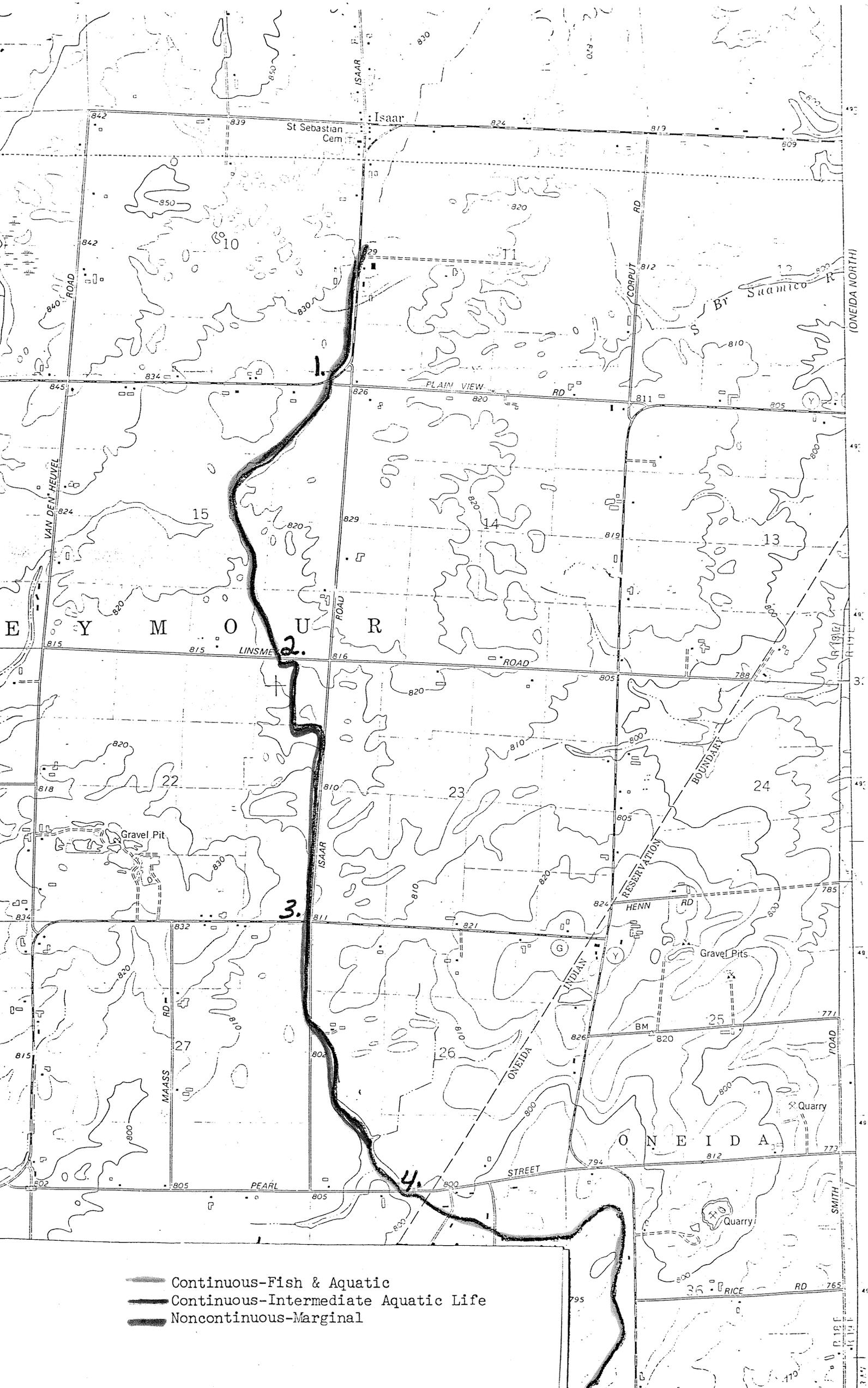


STATION #3  
Upstream



STATION #4  
Downstream





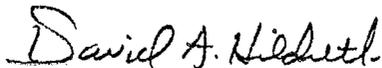
STREAM CLASSIFICATION

Freedom Grade School - Outagamie County

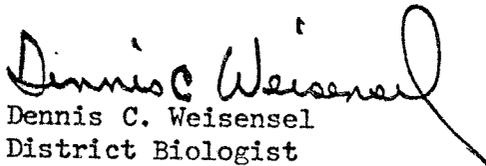
Survey Date: May 26, 1976

The Grade School WWTP discharges to a ditch constructed to carry the effluent about 100 feet to a tributary to Duck Creek. The tributary appears to have been ditched for use as an agricultural drainage ditch. It had a flow of less than .1 cfs on the day of the survey and would have zero flow during dry periods of the year. The tributary joins Duck Creek about ½ mile NE of the school just before Duck Creek crosses CTH 'N'. Duck Creek at CTH 'N' is 15 to 20 feet wide and 3 to 8 inches deep. The stream has been observed to have no flow at this location in the summer although it appears that some stream pools are continuously wet. The stream flows through agricultural lands and some small wooded areas.

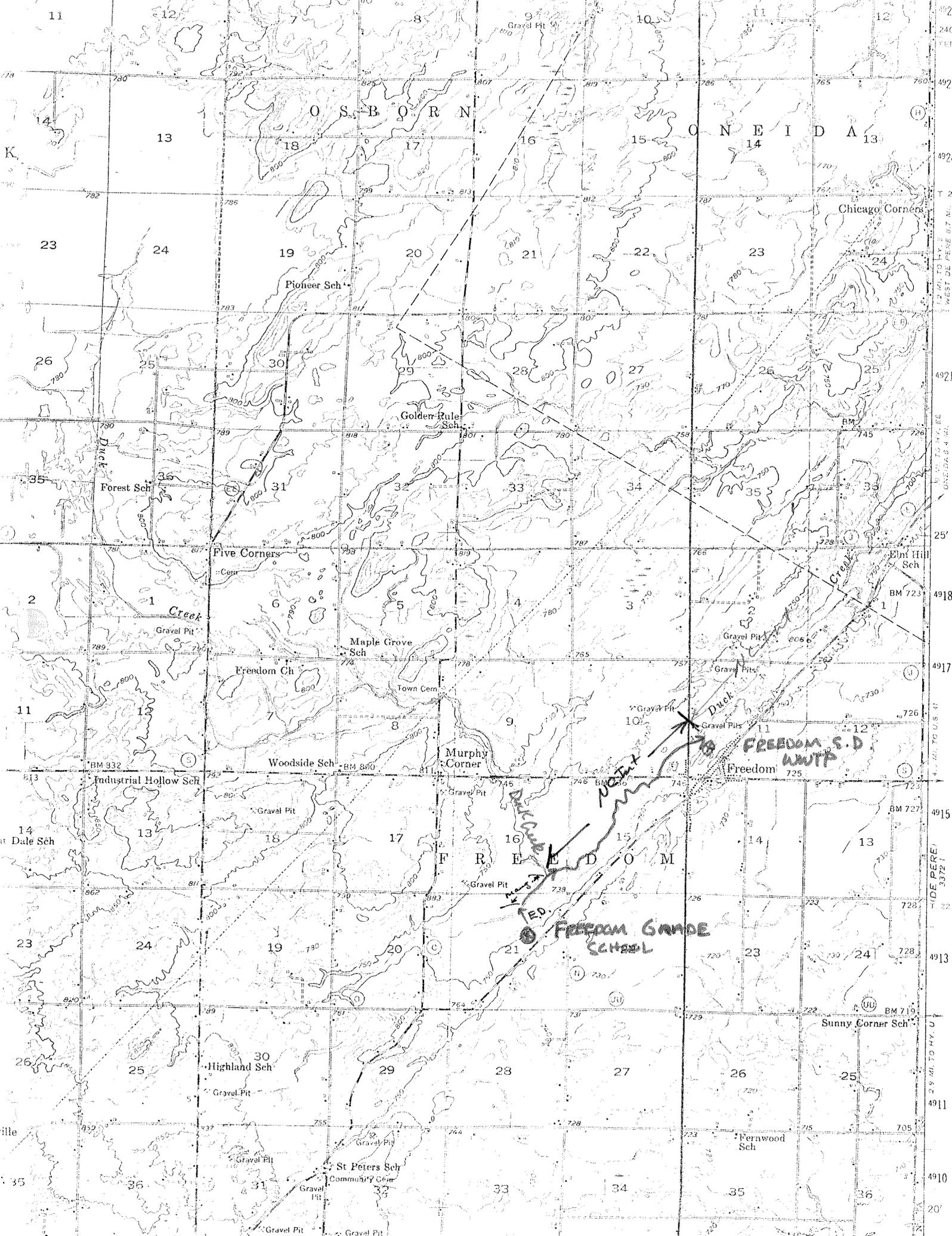
Recommendations: The ditch leading from the WWTP to the Tributary to Duck Creek should be classified as an effluent ditch, marginal use category. The tributary to Duck Creek should be classified as non-continuous, marginal use category. Duck Creek at the confluence with the tributary and downstream 1 3/4 miles to the Freedom Sanitary District WWTP discharge should be classified as non-continuous, intermediate aquatic life. (For classifications of Duck Creek further downstream see the recommendations for Freedom Sanitary District WWTP and the Sacred Heart Seminary WWTP.)

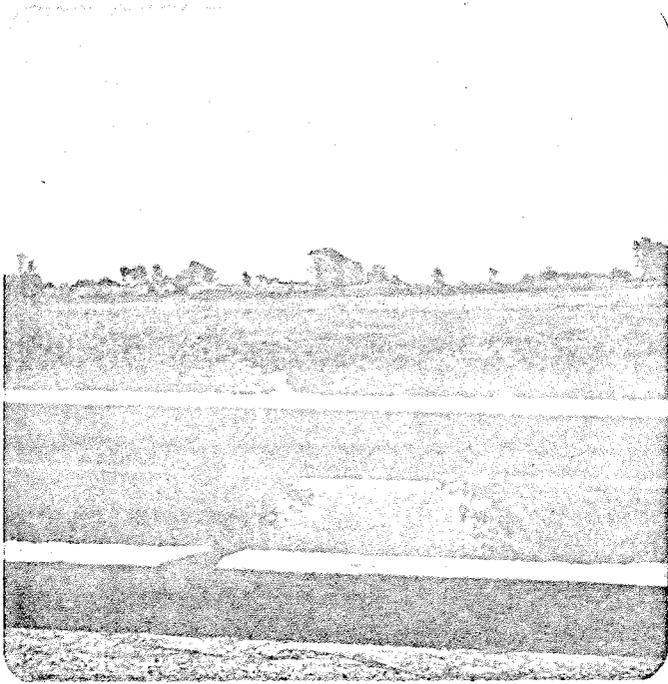


David A. Hildreth  
District Engineer

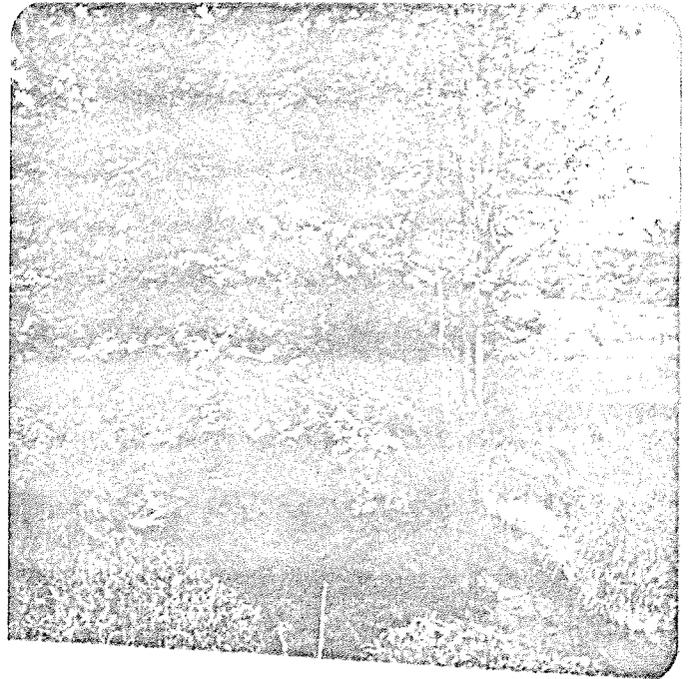


Dennis C. Weisensel  
District Biologist





CTH 'N' - downstream  
Duck Creek



CTH 'N' - upstream  
Duck Creek



CTH 'N' - upstream -  
Trib. to Duck Creek

STREAM CLASSIFICATION

Survey Date: May 26, 1976

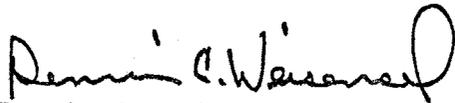
## Sacred Heart Seminary - Outagamie County

The Seminary WWTP outfall sewer extends southeast to Duck Creek a few hundred feet upstream of the State Hwy '54 bridge. At the Hwy 54 bridge the stream is 30 to 40 feet wide and 1 to 3 feet deep with a very slow velocity. Some riffle areas are present above and below this location. USGS does not have an estimated Q7,10 for this location, however, the estimated Q7,10 at a town road 2.9 miles above the WWTP discharge is .02 cfs. From State Hwy '54 down to Green Bay, Duck Creek shows signs of being continually wet although it probably has stagnant water at times. On August 7, 1976, during a very dry period, the flow at Hwy '54 in Oneida was 6.2 cfs.

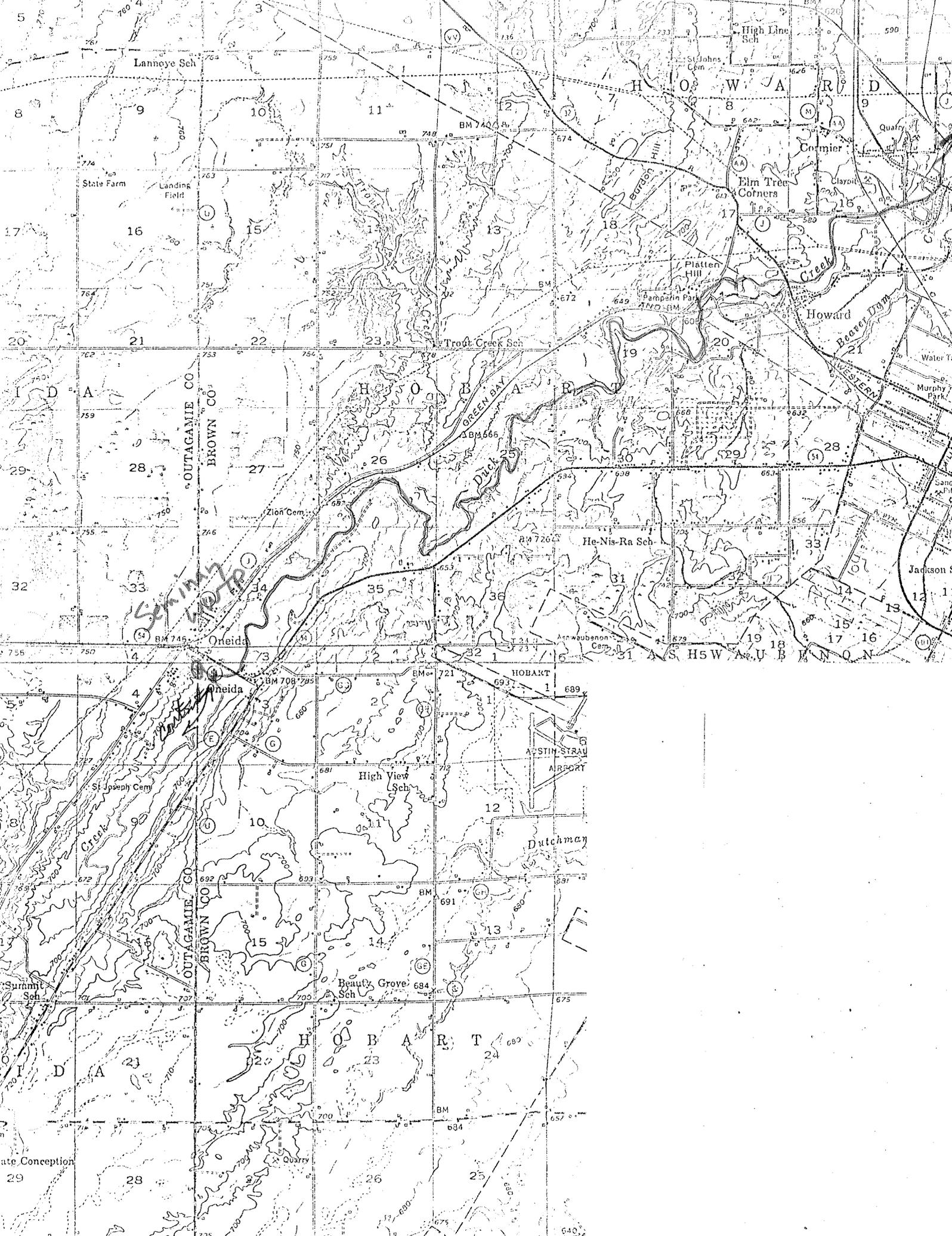
Recommendations: Duck Creek at the Sacred Heart Seminary WWTP discharge down to Green Bay should be classified as continuous; fish and aquatic life. The Seminary discharge is very small and a WLA survey would have to be done during a low flow situation. Also the Oneida Housing Authority has a WWTP discharge very near the Seminary WWTP outfall.



David A. Hildreth  
District Engineer



Dennis C. Weisensel  
District Biologist



STREAM CLASSIFICATION

Survey Date: May 28, 1976

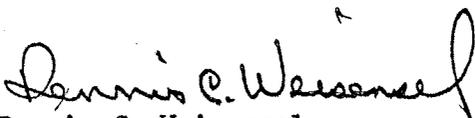
## Freedom Sanitary District - Outagamie County

The Freedom Sanitary District WWTP discharges to Duck Creek at a point about 500 feet NE of the State Hwy 55 bridge at Freedom. At the Hwy 55 bridge the flow drops to zero during dry periods but pools in the stream appear to remain continually wet. Mayflies, caddis flies, and midges were found on rocks in pool areas. No USGS estimated Q7,10 data is available for Duck Creek at this location. At CTH 'J' about 2 miles downstream from Freedom, Duck Creek is 15 to 30 feet wide and 4 to 12 inches deep. The stream appears to be perpetually wet here although the stream would be stagnant at times. At the Seminary Road bridge about 5 miles below Freedom the stream is about 30 feet wide and 5 to 12 inches deep. The USGS estimated flow is a Q7,10 of 0.02 cfs. The stream appears to be perpetually wet. Down to this point the stream passes through agricultural lands and some wooded areas.

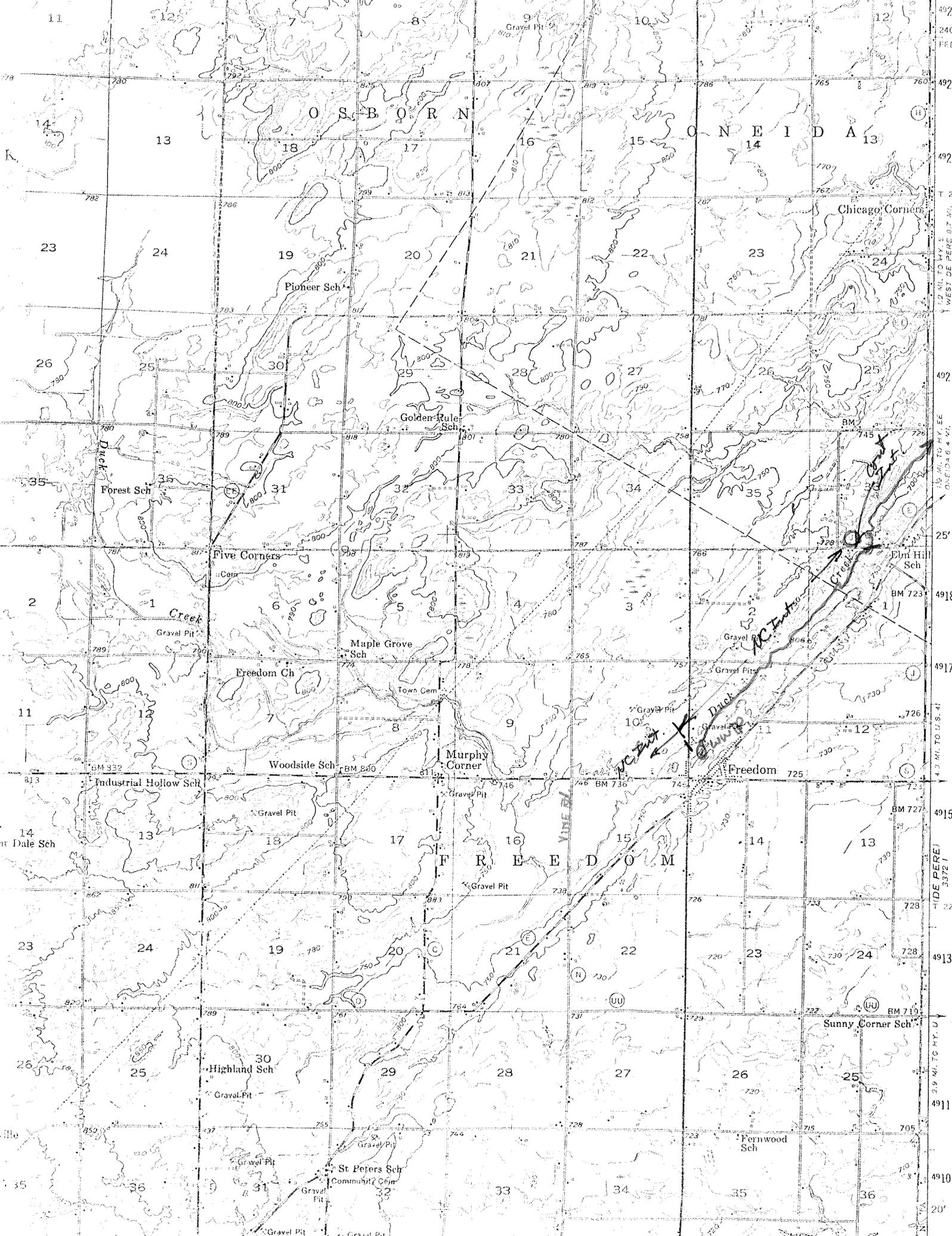
Recommendations: Duck Creek at the Hwy 55 bridge and downstream to the CTH 'J' bridge should be classified as non-continuous, intermediate aquatic life. From CTH 'J' down to the Sacred Heart Seminary WWTP the stream should be classified as continuous, intermediate aquatic life. For classification of Duck Creek further downstream see the recommendations for the Sacred Heart Seminary WWTP.



David A. Hildreth  
District Engineer



Dennis C. Weisensel  
District Biologist



O S B O R N O N E I D A

Chicago Corners

Pioneer Sch

Golden Rule Sch

Forest Sch

Five Corners

Maple Grove Sch

Murphy Corner

Freedom

Industrial Hollow Sch

Woodside Sch

Freedom

Dale Sch

Highland Sch

St. Peters Sch

Fernwood Sch

Sunny Corner Sch

Community Cem

492  
240  
492  
492  
492  
25'  
4913  
4917  
4915  
4913  
4911  
4910  
20'



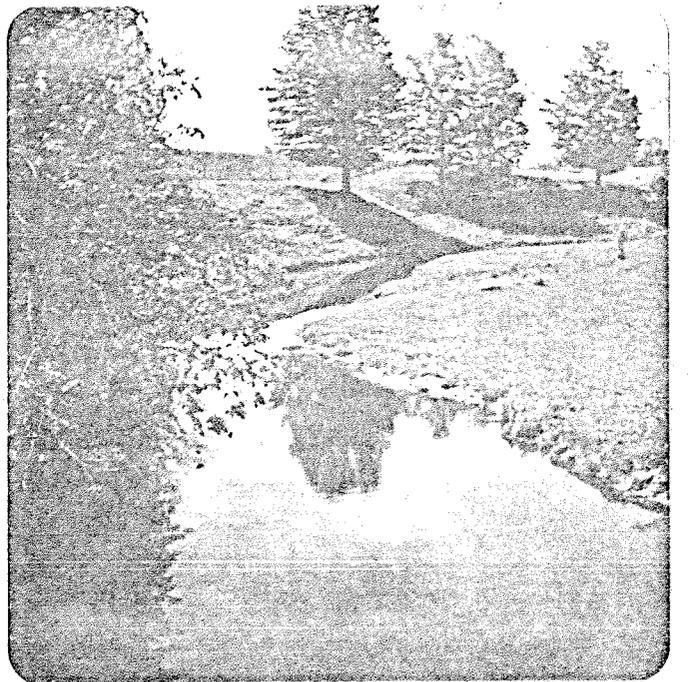
200 feet below Hwy '55' looking  
upstream



Hwy '55' - upstream



CTH J - downstream



CTH J - upstream

## CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

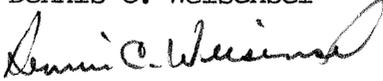
Date: September 21, 1979

File Ref: 3207

To: Central Office - Madison

(M. Tusler)

From: Dennis C. Weisensel



SEP 25 1979

Subject: Stream Classification for a Tributary to Duck Creek Near the Village of Isaar

A stream classification survey of a tributary to Duck Creek from the Isaar area was conducted on September 10, 1979.

## Results:

The headwaters of the stream begin approximately  $\frac{1}{2}$  mile south of Isaar as a roadside ditch. The roadside ditch is adjacent to CTH "W" and was dry during the survey. The drainageway begins by passing under CTH "W" and flowing in a southwesterly direction until midpoint in Section 15 when the drainageway takes on a southeastern direction. The drainageway was straight and appeared to have been dredged in the past downstream to a point where the tributary passed under Pearl Street approximately  $3\frac{1}{2}$  miles south of Isaar.

Standing water was noted at the junction of Plainview Road and CTH "W". A minimal flow was noted at Linsmeyer Road. An 8" northern pike was observed at that station. Sagittaria and other aquatic plants were present at this station.

The drainage ditch returns to Isaar Road and acts as a roadside ditch until  $\frac{1}{2}$  mile south of CTH "G" where it flows in a southeasterly direction. The drainage ditch contained cattails, grasses, and aquatic plants indicating a perpetually wet condition. Macroinvertebrate present were Asellus and Gammarus. The flow was 1.4 C.F.S.

The stream at Pearl Street has natural banks with a flow of 1.92 C.F.S. Macroinvertebrates present are Baetid, Simulid and Asellus. The morphology of the stream has changed substantially. Above Pearl Street, the stream acts as a drainage ditch or roadside ditch. At Pearl Street, the stream takes on a natural meander state.

## Remarks:

The stream exhibits perpetually wet conditions upstream to Linsmeyer Road. It has been dredged in the past from Isaar Road (Sections 27, 26) upstream.

Conclusions:

The stream shall be classified from its origin downstream to Linsmeyer Road as noncontinuous-marginal variance. From Linsmeyer Road to the first tributary in Section 26 (N.E. of junction Pearl Street and Isaar Road), the stream is continuous-intermediate aquatic life variance. The remaining shall be classified as continuous-fish and aquatic. The attached map will clarify. A formal report will be submitted in the future.

DCW:sh

cc: Dave Hildreth  
Jim Schedgick

Attach.