

Date 12/13/2001

Facility Name St. Killian Cross Farm

Receiving Water Wayne Creek, Lexington Co. (WISC = 865500)

Evaluated by Wardrop, William

This stream classification is not included in the revised code because (select one):

☒ The discharger is no longer at this location.

☐ A new classification has resulted in a full fish and aquatic life designation.  
New survey date \_\_\_\_\_ Please provide copy of new classification report.

☐ This receiving water should be added to the database and to the code. Specify information, as it should be included in code.

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☐ Other (please explain)

DISCHARGE WAS ABANDONED - WWSF by Default

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# **CORRESPONDENCE/MEMORANDUM**

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State of Wisconsin

**Date:** October 22, 1993 **File Ref:** 3200  
**To:** Wayne Creek File  
**From:** Will Wawrzyn WR/SEH  
**Subject:** Water Quality Standards Review and Stream Classification for Wayne Creek

This correspondence is the preliminary documentation for the Water Quality Standards Review and Stream Classification for Wayne Creek.

Wayne Creek is first order stream located in the Upper Rock River Basin in northeastern Washington Co., Wisconsin. The stream originates in a wetland and drumlin complex located in T13N, R18E, Section 33, SW of NE. It has a gradient of 11.5 ft/mi and flows south for approximately 6 miles prior to its discharge to the Kohlsville River at T12N, R18E, Section 28, NE of NE. Substrate is dominated by gravel and riparian land uses include row crops, woodlots, and wetlands. The upper and lower-most reaches of the stream have been channelized to accommodate agricultural drainage (WCD, 1963).

Effluent from the St. Killian Cheese Factory previously discharged to the stream approximately 0.5 miles downstream of its source. The estimated Q<sub>7,10</sub> at this discharge point may be less than 0.1 cfs (WDNR, 1976). Southeast District Wastewater files indicate no discharge permit for this facility. Attempts to verify the existence or abandonment of this facility were still being made at the time completing this report.

The stream was previously classified as a non-continuous, intermediate aquatic life stream for its entirety (WDNR, 1976). The stream is currently listed as a variance stream in NR 104. This previous stream classification was made without the benefit of utilizing existing fishery information and standardized stream classification guidelines for Wisconsin streams (Ball, 1984). Based on more recent fish community information (Fago, 1982), a more protective stream classification should be assigned to Wayne Creek.

Thirteen (13) fish community samples were collected from seven (7) sites along 4.4 miles of Wayne Creek between during 1972-73, 1975 and 1981. Although just a first order stream, Wayne Creek supports a very diverse and relatively abundant forage fish and sport fish community. A total of fifteen (15) species have been noted, including coldwater, coolwater and warmwater species. Most noteworthy for assigning the stream classification is the relative abundant mottled sculpin population which is indicative of a coldwater fish community.

Based on the historic fish community information, it is recommended that Wayne Creek be re-classified as a Cold Water Community per NR 102. This classification is influenced by the abundant coldwater mottled sculpin population. It is further recommended that the existing variance for Wayne Creek published in NR 104 be removed. A more detailed stream survey for Wayne Cr. should be conducted to assess current habitat and fish community conditions. This survey should be collected as part of the Upper Rock River Basin assessment scheduled for 1995.

## REFERENCES

- Ball, Joseph. 1982. Stream Classification Guidelines for Wisconsin.  
Technical Bulletin. Wisconsin Department of Natural Resources, Madison, Wisconsin.
- Wisconsin Conservation Department. 1963. Surface Water Resources of Washington County.
- Fago, Donald. 1982. Distribution and Relative Abundance of Fishes in Wisconsin. Volume 1. Greater Rock River Basin. Technical Bulletin No. 136. Wisconsin Department of Natural Resources, Madison, Wisconsin.
- Wisconsin Department of Natural Resources. 1976. Stream Classification for Wayne Creek. File Memo, Water Resource Management, Southeast District.
- Wisconsin Department of Natural Resources. 1991. Natural Resource Administrative Code NR 104. Register July, 1991, No. 427.
- Wisconsin Department of Natural Resources. 1991. Natural Resource Administrative Code NR 102. Register February, 1989, No. 398.

c: Duane Schuettpelz WR/2  
Joe Ball WR/2  
Ted Bosch WW/SEH

c:\ww\wr\waynecr.stc

# SELECTION CRITERIA

DATE PRINTED: Tuesday, January 20, 1998 01:49:27 PM

MAJOR  
2

MINOR  
221

MBM

ORDER\_1 :

ORDER\_2 :

ORDER\_3 :

ORDER\_4 :

ORDER\_5 :

ORDER\_6 :

ORDER\_7 :

ORDER\_8 :

ORDER\_9 :

ORDER\_10 :

ORDER\_11 :

STATION MILE

COUNTIES

YEAR(S)

RANGE

SPECIES

WATER BODY ID CODES

865500

TOWN

HABITAT

WATER TYPE

INCLUDE OPTION

IBI

SOURCE OF DATA

INCLUDE OPTION

GEAR

INCLUDE OPTION

**DUP RULE ON**  
(BY SPECIES REPORT ONLY)

ECO

STATION WIDTH

STATION DEPTH

MIN

MIN -

MEAN

MEAN -

MAX

MAX -

VELOCITY

CONDUCT

TURBIDITY

\*\*\* BLANK = NO LIMITS PLACED

## FISH MASTER FILE

Tuesday, January 20, 1998 01:50:38 PM Page : 1

SEQ BASIN	JAR WT MBM	-----ORDER MILEAGES-----						WBIC MILE	X WUTM ---STREAM OR LAKE NAME---	Y WUTM	IBI	SD	G	HABITAT EF --DATE--	TWNRNGSECQTQTCO STATION LOCATION LAKE LOCATION
		1/7	2/8	3/9	4/10	5/11	6								
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.00	WAYNE CR (ST KILLIAN)	SITE7A	25	3	9	8/21/1975	12N18E 22 SWNW67
921400	2							865500	634257	316894.2					

SPECIES=6      HYBRIDS=0      UNSPECIFIED= 0

FISH      central stoneroller      1      brook stickleback      5      mottled sculpin      5      central mudminnow      14      creek chub      16

white sucker      27

2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.00	WAYNE CR (ST KILLIAN)	SITE7A	25	3	9	7/6/1973	12N18E 22 SWNW67
921500	1 2							865500	634257	316894.2					

SPECIES=6      HYBRIDS=0      UNSPECIFIED= 1

FISH      largemouth bass      1      white sucker      1      pearl dace      4      central mudminnow      6      stonerollers      8

brook stickleback      23      bluntnose minnow      24

2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.00B	WAYNE CR (ST KILLIAN)	SITE7A	25	3	99	5/24/1972	12N18E 22 SWNW67
921600	1 2							865500	634257	316894.2					

SPECIES=4      HYBRIDS=0      UNSPECIFIED= 1

FISH      brook stickleback      1      blacknose dace      2      white sucker      2      pearl dace      5      stonerollers      9

2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.00	WAYNE CR (ST KILLIAN)		25	5		6/15/1972	12N18E 22 SWNW67
921700	0 2							865500	634257	316894.2					

SPECIES=5      HYBRIDS=0      UNSPECIFIED= 1

FISH      stonerollers      +      blacknose dace      +      brook stickleback      +      central mudminnow      +      mottled sculpin      +

northern pike      +

2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.80E	WAYNE CR (ST KILLIAN)	SITE 7	25	3	6	8/21/1975	12N18E 15 SWSW 67
921800	2							865500	634239	317701.8					

SPECIES=6      HYBRIDS=0      UNSPECIFIED= 0

FISH      fantail darter      2      brook stickleback      3      creek chub      3      mottled sculpin      15      blacknose dace      27

pearl dace      45

SEQ BASIN	JAR WT MBM	ORDER MILEAGES						WBIC MILE	X WUTM ---STREAM OR LAKE NAME----	Y WUTM	IBI	SD	G	HABITAT EF --DATE--	TWNRNGSEC STATION LOCATION LAKE LOCATION
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.80E	WAYNE CR (ST KILLIAN)	SITE 7	25	3	6	7/6/1973	12N18E 15 SWSW 67
921900	1 2							865500	634239	317701.8					
FISH	SPECIES=6	HYBRIDS=0	UNSPECIFIED= 0												
	brook stickleback		3	creek chub		4	fantail darter		4	mottled sculpin		4	stonerollers		5
	pearl dace		6	blacknose dace		15									
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.80E	WAYNE CR (ST KILLIAN)	SITE 7	25	3	99	5/24/1972	12N18E 15 SWSW 67
922000	1 2							865500	634239	317701.8					
FISH	SPECIES=8	HYBRIDS=0	UNSPECIFIED= 1												
	bluntnose minnow		1	johnny darter		1	white sucker		2	creek chub		3	fantail darter		3
	blacknose dace		5	mottled sculpin		5	stonerollers		6	pearl dace		6			
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.80B	WAYNE CR (ST KILLIAN)		25	7	1	6/15/1972	12N18E 22 NWNW 67
922100	0 2							865500	634247	317298.2					
FISH	SPECIES=1	HYBRIDS=0	UNSPECIFIED= 0												
	creek chub		+												
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			2.30?	WAYNE CR (ST KILLIAN)		94	G		1/1/1975	12N18E 15 NWSW 67
922200	0 2							865500	634234	318105.3					
FISH	SPECIES=2	HYBRIDS=0	UNSPECIFIED= 0												
	creek chub		50	pearl dace		75									
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			2.40E	WAYNE CR (ST KILLIAN)	SITE 8	25	3	9	8/21/1975	12N18E 16 NESE 67
922300	2							865500	633827	318104.3					
FISH	SPECIES=8	HYBRIDS=0	UNSPECIFIED= 0												
	johnny darter		1	blacknose dace		3	creek chub		8	mottled sculpin		8	brook stickleback		9
	central mudminnow		9	white sucker		21	pearl dace		96						

SEQ BASIN	JAR WT MBM	ORDER MILEAGES						WBIC MILE	X WUTM ---STREAM OR LAKE NAME----	Y WUTM	IBI	SD	G	HABITAT EF --DATE--	TWNRNGSEC STATION LOCATION LAKE LOCATION	
		1/7	2/8	3/9	4/10	5/11	6									
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			2.40E	WAYNE CR (ST KILLIAN)			25	3	9	7/6/1973	12N18E 16 NESE 67
922400	1 2							865500	633827	318104.3						

SPECIES=8      HYBRIDS=0      UNSPECIFIED=0

FISH

creek chub	1	fathead minnow	1	fantail darter	2	pearl dace	2	blacknose dace	6
mottled sculpin	7	brook stickleback	13	central mudminnow	17				

2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			4.40E	WAYNE CR (ST KILLIAN)SITE 9			25	3	6	8/21/1975	12N18E 4 SWSW 67
922500	2							865500	632598	320906.1						

SPECIES=9      HYBRIDS=0      UNSPECIFIED=0

FISH

fathead minnow	1	johnny darter	1	largemouth bass	1	creek chub	2	northern redbelly dace	15
white sucker	29	brook stickleback	37	central mudminnow	55	pearl dace	70		

2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			4.40E	WAYNE CR (ST KILLIAN)SITE 9			25	3	6	7/6/1973	12N18E 4 SWSW 67
922600	3 2							865500	632598	320906.1						

SPECIES=4      HYBRIDS=0      UNSPECIFIED=0

FISH

northern pike	2	brook stickleback	14	central mudminnow	26	pearl dace	48
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NUMBER OF STATIONS: 13

**CORRESPONDENCE/MEMORANDUM**

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*Date:* October 22, 1993

*File Ref:* 3200

*To:* Wayne Creek File

*From:* Will Wawrzyn WR/SEH

*Subject:* Water Quality Standards Review and Stream Classification for  
Wayne Creek

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c: Duane Schuettpelz WR/2  
Joe Ball WR/2  
Ted Bosch WW/SEH

c:\wr\waynecr.stc

MAR 21, 1986 BASINS =010,020,030,200,210,221 YEARS EQ ALL SOURCE=ALLFOR SOUTHEAST DISTRICT PAGE 438  
 JAR WT -----ORDER MILEAGE S-----WB-I-C STATION LOCATION  
 BASIN MBM 1 2/7 3/8 4/9 5/10 6/11 MILE ----STREAM OR LAKE NAME---- SD G EF --DATE-- TWRNGSECQTQTCO

---

2 221 1434.8R 296.OR 1.1R 31.4L .8E KOHLVILLE R -SITE 10 25 3 17 8/21/75 12N18E28NWNW67  
 2 865400  
 SP=05 HY=00 UNSP=00 FISH CENTRAL MUDMINNOW 22 CREEK CHUB 4 WHITE SUCKER 3 YELLOW BULLHEAD  
 1  
 JOHNNY DARTER 1

---

2 221 1434.8R 296.OR 1.1R 31.4L .8E KOHLVILLE R -SITE 10 25 3 17 7/19/73 12N18E28NWNW67  
 1 2 865400  
 SP=02 HY=00 UNSP=00 FISH CENTRAL MUDMINNOW 10 BROOK STICKLEBACK 12

---

2 221 1434.8R 296.OR 1.1R 31.4L .8E KOHLVILLE R -SITE 10 25 3 17 7/ 7/72 12N18E28NWNW67  
 2 865400  
 SP=01 HY=00 UNSP=00 FISH BLUNTNOSE MINNOW 99

---

2 221 1434.8R 296.OR 1.1R 31.4L .8 KOHLVILLE R 25 2 6/13/72 12N18E28NWNW67  
 2 865400  
 SP=03 HY=00 UNSP=00 FISH BROWN TROUT + NORTHERN PIKE + WHITE SUCKER +

---

2 221 1434.8R 296.OR 1.1R 31.4L 1.9L 1.0 WAYNE CR (ST KILLIAN)SITE7A 25 3 09 8/21/75 12N18E22SWNW67  
 2 865500  
 SP=06 HY=00 UNSP=00 FISH CENTRAL MUDMINNOW 14 CENTRAL STONEROLLER 1 CREEK CHUB 16 WHITE  
 SUCKER 27 BROOK STICKLEBACK 5  
 MOTTLED SCULPIN 5

---

2 221 1434.8R 296.OR 1.1R 31.4L 1.9L 1.0 WAYNE CR (ST KILLIAN)SITE7A 25 3 09 7/ 6/73 12N18E22SWNW67  
 1 2 865500  
 SP=06 HY=00 UNSP=01 FISH CENTRAL MUDMINNOW 6 STONEROLLERS 8 BLUNTNOSE MINNOW 24 PEARL  
 DACE 4 WHITE SUCKER 1 BROOK STICKLEBACK 23  
 LARGEMOUTH BASS 1

---

2 221 1434.8R 296.OR 1.1R 31.4L 1.9L 1.0 WAYNE CR (ST KILLIAN) 25 5 6/15/72 12N18E22SWNW67  
 0 2 865500  
 SP=05 HY=00 UNSP=01 FISH CENTRAL MUDMINNOW + NORTHERN PIKE + STONEROLLERS + BLACKNOSE  
 DACE + BROOK STICKLEBACK +  
 MOTTLED SCULPIN +

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2 221 1434.8R 296.OR 1.1R 31.4L 1.9L 1.0B WAYNE CR (ST KILLIAN)SITE7A 25 3 99 5/24/72 12N18E22SWNW67  
 1 2 865500  
 SP=04 HY=00 UNSP=01 FISH STONEROLLERS 9 BLACKNOSE DACE 2 PEARL DACE 5 WHITE SUCKER 2  
 BROOK STICKLEBACK 1

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2 221 1434.8R 296.OR 1.1R 31.4L 1.9L 1.8E WAYNE CR (ST KILLIAN)SITE 7 25 3 06 8/21/75 12N18E15SWSW67  
 2 865500  
 SP=06 HY=00 UNSP=00 FISH BLACKNOSE DACE 27 CREEK CHUB 3 PEARL DACE 45 BROOK STICKLEBACK 3  
 FANTAIL DARTER 2 MOTTLED SCULPIN 15

7, 13

MAR 21, 1986		BASINS = 010, 020, 030, 200, 210, 221 YEARS EQ ALL						SOURCE=ALLFOR SOUTHEAST DISTRICT		PAGE 439	
JAR WT		ORDER MILEAGES						WB-I-C		STATION LOCATION	
BASIN	MBM	1	2/7	3/8	4/9	5/10	6/11	MILE	---STREAM OR LAKE NAME----	SD G EF	---DATE-- TWNRNGSECQTQTCO
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.8E	WAYNE CR (ST KILLIAN)SITE 7	25 3 06	7/ 6/73 12N18E15SWSW67
	1 2							865500			
	SP=06	HY=00	UNSP=01	FISH	STONEROLLERS 5	BLACKNOSE DACE 15	CREEK CHUB 4	PEARL DACE 6			
					BROOK STICKLEBACK 3						
					FANTAIL DARTER 4	MOTTLED SCULPIN 4					
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.8B	WAYNE CR (ST KILLIAN)	25 7 01	6/15/72 12N18E22NWNW67
	0 2							865500			
	SP=01	HY=00	UNSP=00	FISH	CREEK CHUB +						
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			1.8E	WAYNE CR (ST KILLIAN)SITE 7	25 3 99	5/24/72 12N18E15SWSW67
	1 2							865500			
	SP=08	HY=00	UNSP=01	FISH	STONEROLLERS 6	BLUNTNOSE MINNOW 1	BLACKNOSE DACE 5	CREEK CHUB			
					3 PEARL DACE 6	WHITE SUCKER 2					
					FANTAIL DARTER 3	JOHNNY DARTER 1	MOTTLED SCULPIN 5				
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			2.3?	WAYNE CR (ST KILLIAN)	94 G	0/ 0/75 12N18E15NWSW67
	0 2							865500			
	SP=02	HY=00	UNSP=00	FISH	CREEK CHUB 50	PEARL DACE 75					
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			2.4E	WAYNE CR (ST KILLIAN)SITE 8	25 3 09	8/21/75 12N18E16NESE67
	2							865500			
	SP=08	HY=00	UNSP=00	FISH	CENTRAL MUDMINNOW 9	BLACKNOSE DACE 3	CREEK CHUB 8	PEARL DACE 96			
					WHITE SUCKER 21	BROOK STICKLEBACK 9					
					JOHNNY DARTER 1	MOTTLED SCULPIN 8					
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			2.4E	WAYNE CR (ST KILLIAN)	25 3 09	7/ 6/73 12N18E16NESE67
	1 2							865500			
	SP=08	HY=00	UNSP=00	FISH	CENTRAL MUDMINNOW 17	FATHEAD MINNOW 1	BLACKNOSE DACE 6	CREEK			
					CHUB 1	PEARL DACE 2	BROOK STICKLEBACK 13				
					FANTAIL DARTER 2	MOTTLED SCULPIN 7					
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			4.4E	WAYNE CR (ST KILLIAN)SITE 9	25 3 06	8/21/75 12N18E 4SWSW67
	2							865500			
	SP=09	HY=00	UNSP=00	FISH	CENTRAL MUDMINNOW 55	NORTHERN REDBELLY DACE 15	FATHEAD MINNOW 1				
					CREEK CHUB 2	PEARL DACE 70	WHITE SUCKER 29	BROOK STICKLEBACK 37			
					LARGEMOUTH BASS 1	JOHNNY DARTER 1					
2 221	1434.8R	296.0R	1.1R	31.4L	1.9L			4.4E	WAYNE CR (ST KILLIAN)SITE 9	25 3 06	7/ 6/73 12N18E 4SWSW67
	3 2							865500			
	SP=04	HY=00	UNSP=00	FISH	CENTRAL MUDMINNOW 26	NORTHERN PIKE 2	PEARL DACE 48	BROOK			
					STICKLEBACK 14						
2 221	1434.8R	296.0R	1.1R	31.4L	4.0			+	KOHLVILLE MILLPOND	94 1	9/16/81 12N18E27SESE67
	0 3							866000			
	SP=08	HY=01	UNSP=00	FISH	COMMON CARP +	WHITE SUCKER +	BLACK BULLHEAD 2				
					PUMPKINSEED 5	BLUEGILL 99	LARGEMOUTH BASS 30	BLACK CRAPPIE 1			
					UNDETERMINED	CENTRARCHID HYB 2	YELLOW PERCH 4				

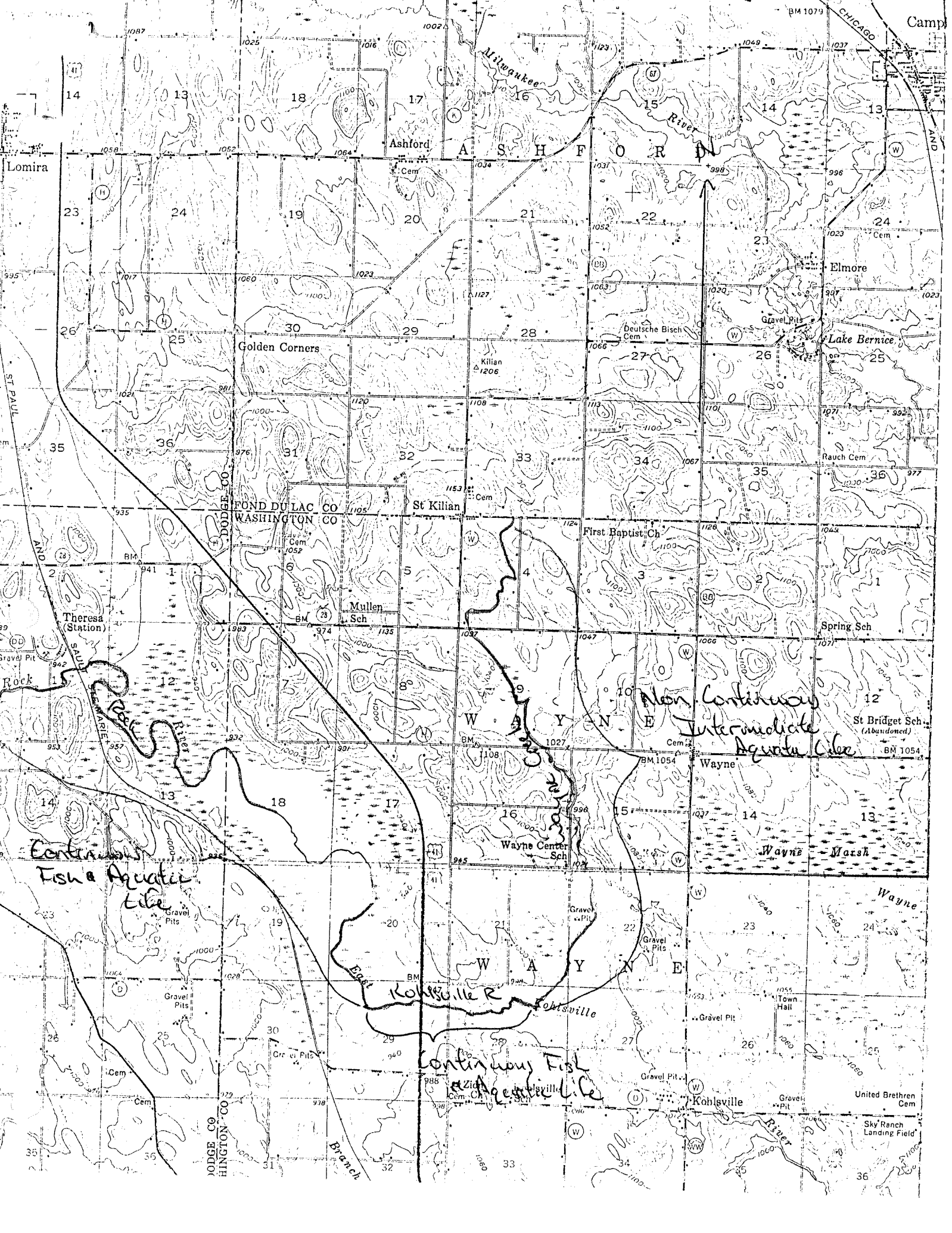
1976

St. Killian, Washington County  
Upper Rock River Drainage Basin

The effluent from the St. Killian Cheese Factory (Section 4, T12N, R18E) discharged to Wayne Creek, which has a  $7Q_{10}$  of 0 cfs. The discharge from the factory stabilization ponds flows a short distance through a poorly defined channel in a wet area before entering Wayne Creek. Wayne Creek, a small gravel-bottomed stream, originates a short distance above the outfall in a drumlin complex in Section 33, Ashford Township, and flows south 5.6 miles through predominantly cultivated agricultural land and marshy pockets before joining the Kohlsville River, a tributary of the Upper Rock River. The Wayne Creek fishery is limited to forage species, due to warm summer temperatures and high seasonal flow fluctuations. Wayne Creek has limited recreational value.

Recommendations

Wayne Creek shall be classified as a noncontinuous, intermediate aquatic life stream in its entirety. The Kohlsville River shall be classified as a continuous fish and aquatic life stream. The Rock River shall be classified as a continuous fish and aquatic life stream.



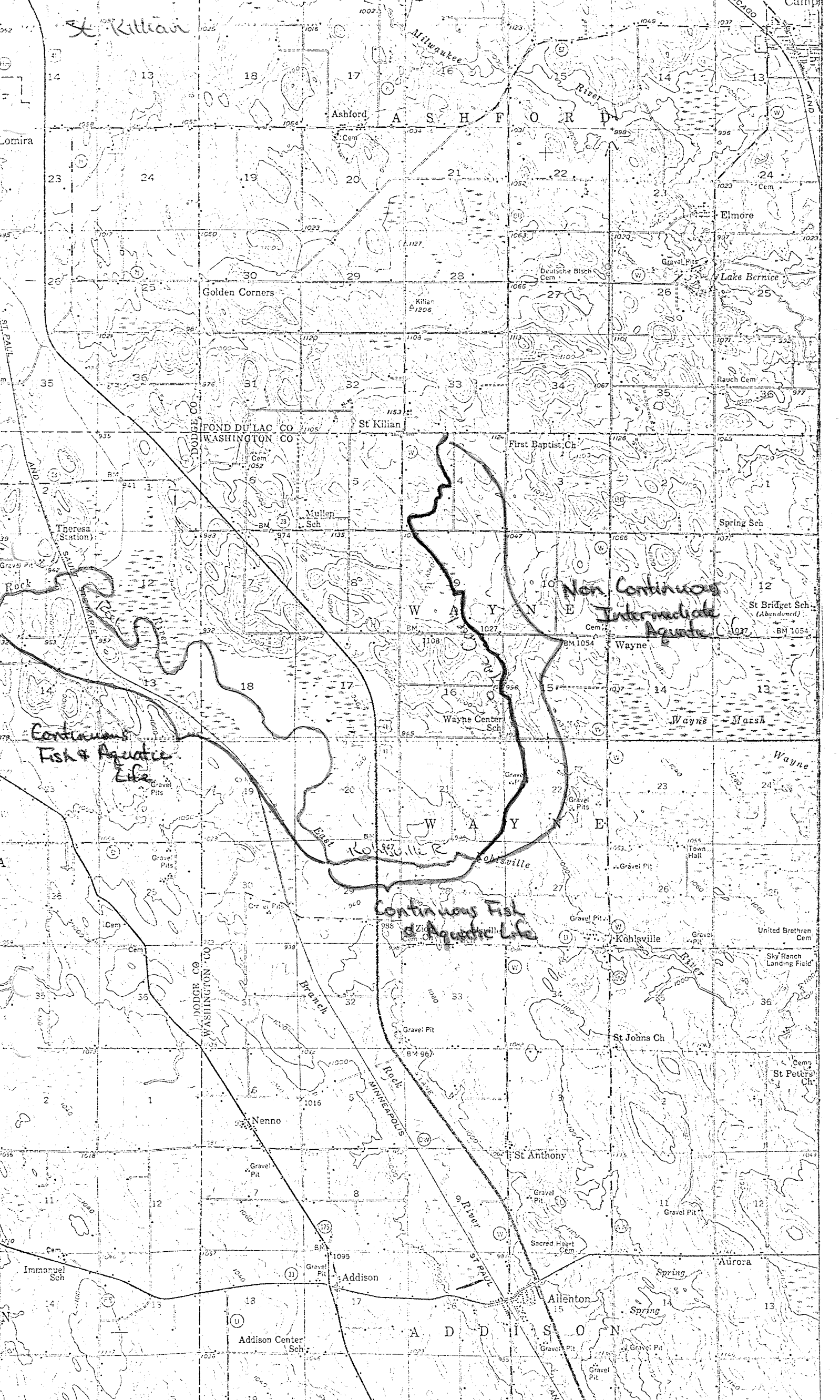
R. Johnson

St. Killian, Washington County  
Upper Rock River Drainage Basin

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Recommendations

Wayne Creek shall be classified as a noncontinuous, intermediate aquatic life stream in its entirety. The Kohlsville River shall be classified as a continuous fish and aquatic life stream. The Rock River shall be classified as a continuous fish and aquatic life stream.



St. Killian

Milwaukee River

Ashford

A S H F O R D

Lake Bernice

Golden Corners

St Killian

DODGE CO  
FOND DU LAC CO  
WASHINGTON CO

First Baptist Ch

Non Continuous  
Intermediate  
Aquatic Life

W A Y N E

Wayne

Continuous  
Fish & Aquatic  
Life

Continuous Fish  
& Aquatic Life

W A Y N E

Rock River

DODGE CO  
WASHINGTON CO

Branch

St. Killian

St. Joans Ch

Nenno

St. Anthony

Addison

Allenton

Addison Center Sch

A D D I S O N

Aurora