

MONTREAL, IRON COUNTY

Wastewater Receiving Stream Classification

The City of Montreal discharges treated wastewater directly to the Montreal River, West Fork approximately 1000 feet north (downstream) of State Highway 77. A large dam creating the Gile Reservoir is located on this river just upstream from Highway 77.

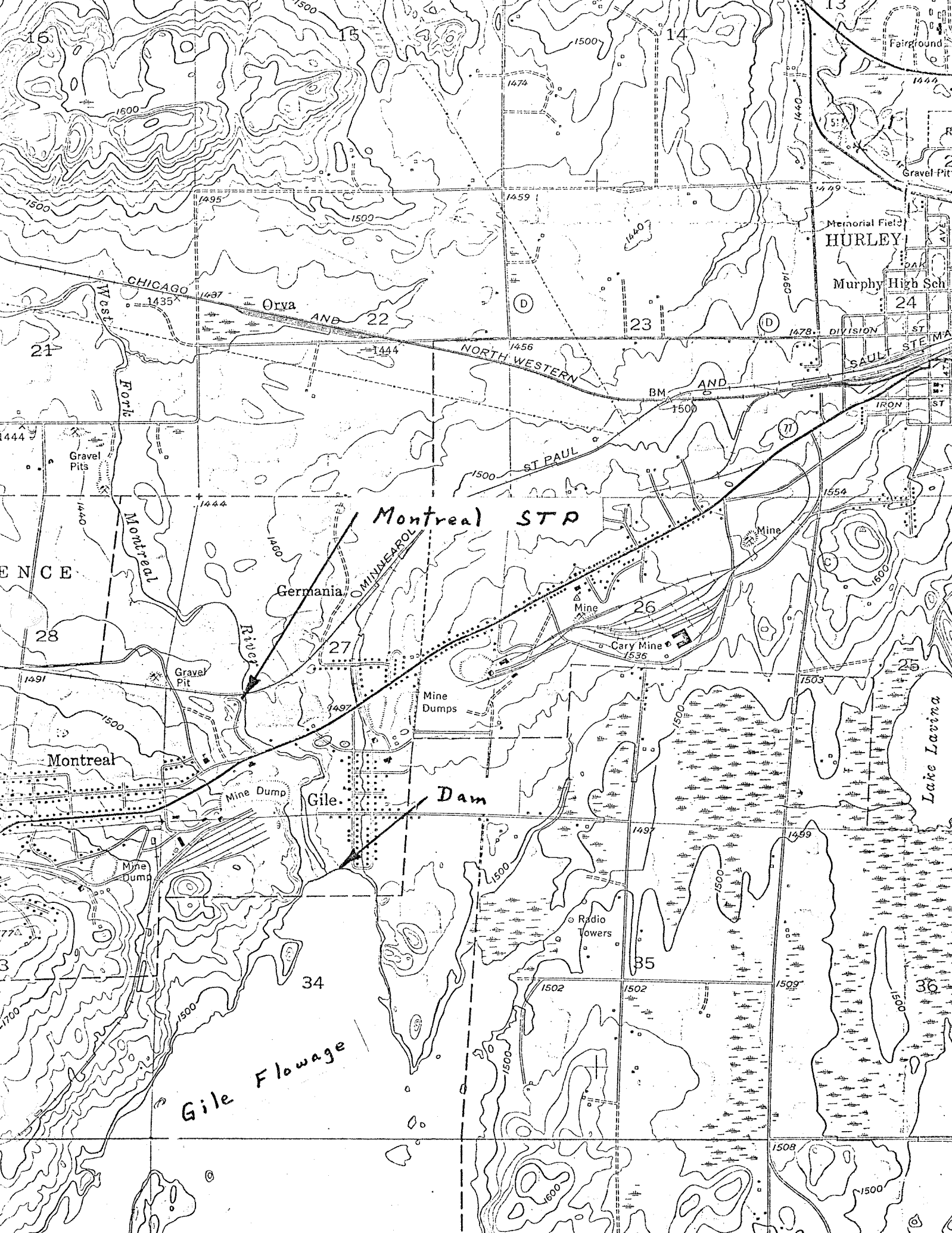
The Gile Reservoir is operated by the Lake Superior District Power Company as a storage reservoir for their downstream hydro-electric operations. Under normal operations this reservoir is used to augment stream flow in the West Fork, Montreal River during periods when there would be natural low flow. However, there are other times when the flowage is used to hold back and store water and the flow in the river downstream is less than what would occur naturally. The projected low flow (7^Q10) for this stream at the Montreal Sewage Treatment Plant is 2.7 cfs.

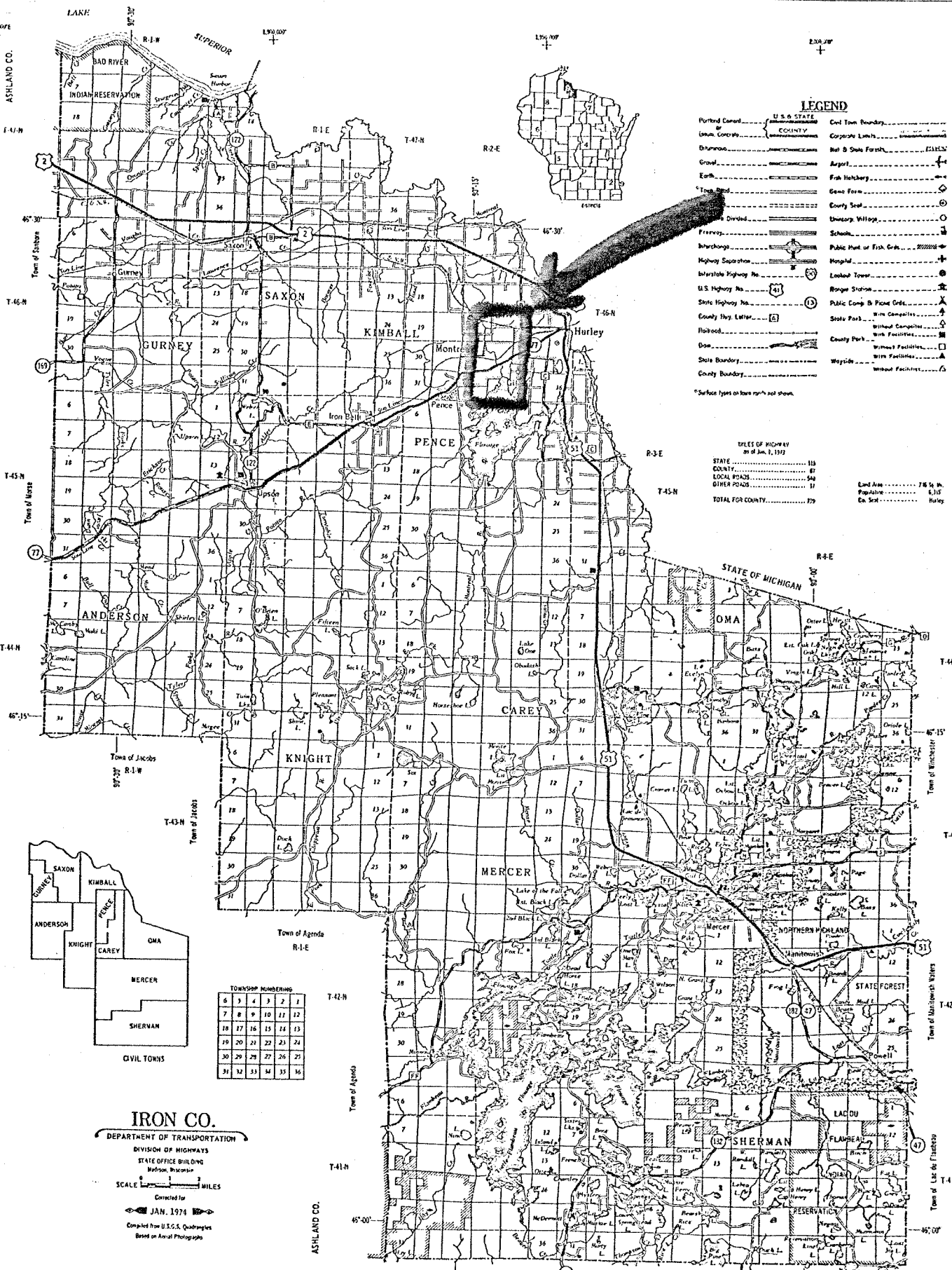
The West Branch Montreal River is considered Class II trout water from the Highway 77 crossing downstream. This stream segment contains populations of both brook and brown trout.

RECOMMENDATION:

The West Fork, Montreal River shall be classified as a continuous stream with a sub-category of "fish and aquatic life". The achievement of these standards could probably be attained in either of two methods: (1) using a waste assimilation study to set effluent limits based on low flow projections, or (2) negotiating an agreement with the power company to maintain a minimum flow of X cfs at all times (X would be determined by setting an appropriate effluent limit and back calculating to establish necessary flow).

Also recomm.
Δ in operation
of dam to
meet design
use.





LEGEND

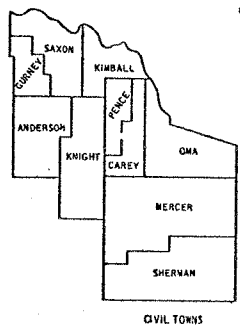
Portland Cement	U.S. STATE	Civil Town Boundary
Granite Concrete	COUNTY	Corporate Limits
Durum	Interchange	Not S State Forest
Gravel	Highway Station	State Park
Earth	Interstate Highway No.	Without Campsites
Town Road	U.S. Highway No.	With Facilities
Freeway	State Highway No.	Without Campsites
Interchange	County Hwy. Letter	With Facilities
Highway Station	Flooded	Without Campsites
Interstate Highway No.	State Boundary	With Facilities
U.S. Highway No.	County Boundary	Without Campsites
State Highway No.		With Facilities
County Hwy. Letter		Without Campsites
Flooded		With Facilities
State Boundary		Without Campsites
County Boundary		With Facilities

*Surface types on base map not shown.

MILES OF HIGHWAY

as of Jan. 1, 1972

STATE	113	Land Area	78 3/4 sq. mi.
COUNTY	67	Population	6,115
LOCAL ROADS	548	Co. Seat	Hurley
OTHER ROADS	51		
TOTAL FOR COUNTY	779		



TOWNSHIP NUMBERING

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

IRON CO.
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STATE OFFICE BUILDING
 HURLEY, MICHIGAN

SCALE 0 1 2 MILES

Corrected for
 JAN. 1974

Compiled from U.S.C.S. Quadrangles
 Based on Aerial Photographs

+Grid based on Michigan coordinate system, north zone.