SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

Subwatershed

Management Unit: Coldwater River
Major Watershed Name: Thornapple River
Hydrologic Unit Code: 04050007-0301

WATERSHED DESCRIPTION:

Size (acres):	120,739	Land Use (% of total)
Counties:	Kent, Ionia, Barry	Agricultural

Freeport, Clarksville, Lake Odessa, Woodland,

Lowell, Boston, Berlin, Bowne, Campbell, Odessa,

Cities, Villages & Sebewa, Irving, Carlton, Woodland, Hastings,

Townships: Castleton Forest Land 14% **Critical Area for Restoration:** Medium Lakes 1% **Priority Area for Preservation:** Open Land 2% Low Urban 3% Wetlands 8%

Pollutant Loadings

Sediment (tons/yr)	1,620	
Phosphorus (lbs/yr)	21,846	
Nitrogen (lbs/vr)	129.374	

Priority Pollutant	Pathogens	

Priority Sources Cropland Livestock Septic tanks

Over or improper Uncontrolled livestock application of manure access Aging systems

Coldwater River from Brown Road to Little Thornapple River; Lower Lake split; Coldwater River; Duck Creek; Pratt Lake Creek; Bear/Tyler Creek and unnamed tribs; Three unnamed tribs south of the Coldwater River/ 26.1

74%

Streams with Total Maximum Daily Loads

& Dates of Implementation

Coldwater River TMDL E. Coli 2005, Tyler/Bear Creek TMDL E. Coli 2020, Little Thornapple River & Woodland Creek TMDL Unknown 2016

Wellhead Protection Area(s)

YES

PLANS & STUDIES:

Trout Streams/Miles

Watershed Management Plan Thornapple River, WCLMI Resource Plan/Coldwater River

Other Studies Ionia Drain Commissioner SWMP, Bowne Township (Kent County) SWMP,

Kent County Stormwater Ordinance

MDNRE Surface Water 25300/25300, MI/DEQ/SWQ-97/085, MI/DEQ/SWQ-00/051, MI/DEQ/SWQ-00/051,

02/001/25300, MI/DEQ/SWQ-97/048, MI/DEQ/SWQ-97/085

MDNRE Hydrologic Studies

Thornapple River Watershed Flashiness Report (MDEQ 2008)/ICDC Road Crossing Study

Local Water Quality Monitoring / Inventories Yes

Yes, by Coldwater River Watershed Council (CRWC) for many parameters; by Michigan State University – Water Quality & Health Laboratory for Pathogens,

WATERSHED PARTNERS:

Watershed Organization(s) Coldwater River Watershed Council, LGROW

NPDES Municipal Separate Storm Sewer System None