

SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

Subwatershed
Management Unit: Lake Creek
Major Watershed Name: Direct Drainage to the Grand River
Hydrologic Unit Code: 04050006-0311



WATERSHED DESCRIPTION:

Size (acres):	18,172	Land Use (% of total)	
County:	Ionia	<i>Agricultural</i>	69%
Cities, Villages & Townships:	Boston, Berlin, Campbell, Odessa	<i>Forest Land</i>	16%
Critical Area for Restoration:	Medium	<i>Lakes</i>	2%
Priority Area for Preservation:	Medium	<i>Open Land</i>	2%
		<i>Urban</i>	5%
		<i>Wetlands</i>	6%
Pollutant Loadings			
Sediment (tons/yr)	202		
Phosphorus (lbs/yr)	3,330		
Nitrogen (lbs/yr)	19,200		

Priority Pollutant Nutrients

Priority Sources Livestock Septic tanks Cropland

Priority Causes Over or improper application of manure Aging systems Over or improper application of fertilizers

Trout Streams/Miles Lake Creek, Little Creek, and unnamed tribs. of Lake Creek.
9.2

Streams with Total Maximum Daily Loads & Dates of Implementation Morrison Lake TMDL Excess Algae and Phosphorus 2008

Wellhead Protection Area(s) YES

PLANS & STUDIES:

Watershed Management Plan Morrison Lake Management Plan

Other Studies Ionia Drain Commissioner SWMP

MDNRE Surface Water Quality Assessment Surveys 25300, 004560, 004580, 005410, 63893, MI/DNR/SWQ-87/033

MDNRE Hydrologic Studies NA

Local Water Quality Monitoring / Inventories None

WATERSHED PARTNERS:

Watershed Organization(s) LGROW, Morrison Lake Association

NPDES Municipal Separate Storm Sewer System (MS4) Communities None

Last Update: 9/9/2010