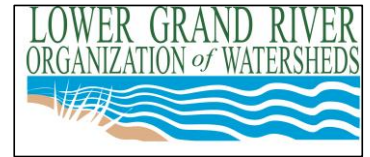


SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

Subwatershed
Management Unit: Spring Lake / Norris Creek
Major Watershed Name: Direct Drainage to the Grand River
Hydrologic Unit Codes: 04050006-0710, -0711



WATERSHED DESCRIPTION:

Size (acres):	32,383	Land Use (% of total)	
Counties:	Muskegon, Ottawa	<i>Agricultural</i>	17%
Cities, Villages & Townships:	Ferrysburg, Ravenna, Sullivan, Fruitport, Crockery, Spring Lake	<i>Forest Land</i>	42%
Critical Area for Restoration:	Medium	<i>Lakes</i>	4%
Priority Area for Preservation:	High	<i>Open Land</i>	10%
		<i>Urban</i>	15%
		<i>Wetlands</i>	12%
Pollutant Loadings			
Sediment (tons/yr)	371		
Phosphorus (lbs/yr)	8,930		
Nitrogen (lbs/yr)	52,600		

Priority Pollutant	Pathogens		
Priority Sources	Cropland	Livestock	Septic tanks
Priority Causes	Over or improper application of manure	Uncontrolled livestock access	Aging systems
Trout Streams/Miles	Norris Creek, Rhymer Creek 9.4		
Streams with Total Maximum Daily Loads & Dates of Implementation	None		
Wellhead Protection Area(s)	NO		

PLANS & STUDIES:

Watershed Management Plan	Spring Lake
Other Studies	LLWFA Action Plan
MDNRE Surface Water Quality Assessment Surveys	25300, MI/DEQ/SWQ-00/096
MDNRE Hydrologic Studies	NA
Local Water Quality Monitoring / Inventories	None

WATERSHED PARTNERS:

Watershed Organization(s)	Spring Lake-Lake Board, Rein in the Runoff Committee, LGROW
NPDES Municipal Separate Storm Sewer System (MS4) Communities	Ferrysburg, Village of Spring Lake, Ottawa County Drain Commission, Ottawa County Road Commission

Last Update: 9/14/2010