



**Macatawa Watershed Voluntary Agreement  
2010 and 2011 Annual Report**

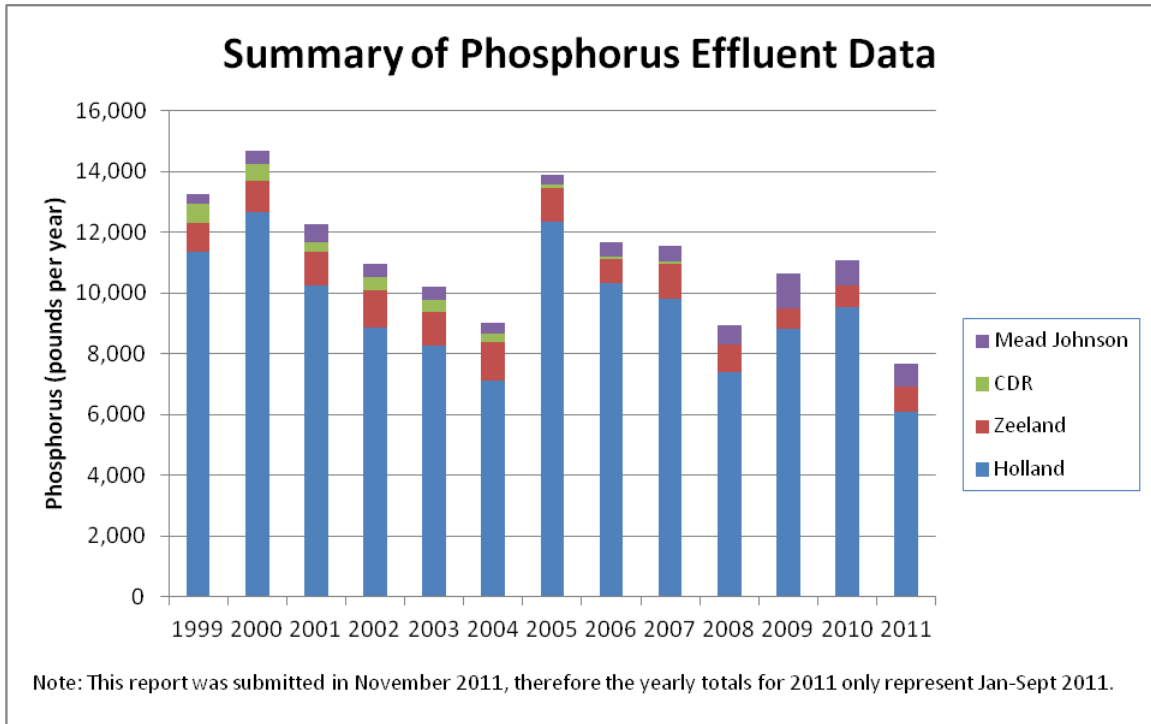
**October 1, 2009 – September 30, 2011**

This annual report was developed under the Macatawa Watershed Voluntary Agreement developed to show the commitment between the point and non-point sources to improve water quality in the Macatawa Watershed. The intent of the agreement is to outline the ways in which all parties will support reduction of phosphorus loading into Lake Macatawa as detailed in the Macatawa Watershed Plan.

FISCAL YEAR TOTALS

Point Source	Total pounds of Phosphorus	
	FY10 (Oct 1 2009-Sept 30-2010)	FY11 (Oct 1 2010-Sept 30-2011)
Holland BPW	10,006	8,383
Zeeland Clean Water Plant	756	944
Mead Johnson	968	951

Please note that this report covers two years worth of data and that the data shown in the graph and table below represent annual totals (calendar year) and are not reported based on the fiscal year as noted above.



Annual Phosphorus Load (lbs) from Point Sources in the Watershed

	<b>Holland</b>	<b>Zeeland</b>	<b>CDR</b>	<b>Mead Johnson</b>	<b>Totals</b>
1999	11352	941	640	335	<b>13268</b>
2000	12664	1042	522	467	<b>14695</b>
2001	10229	1108	339	592	<b>12268</b>
2002	8871	1195	464	423	<b>10953</b>
2003	8252	1135	370	433	<b>10190</b>
2004	7132	1265	267	369	<b>9033</b>
2005	12352	1098	107.56	317	<b>13875</b>
2006	10303	795	83.45	472	<b>11653</b>
2007	9817	1142	56.43	549	<b>11564</b>
2008	7373	940	0	628	<b>8941</b>
2009	8802	690	0	1138	<b>10630</b>
2010	9540	689	0	859	<b>11088</b>
2011*	6096	828	0	724	<b>7648</b>

\* 2011 totals only include January-September

## Point Source Updates:

All activity at the CDR facility has ceased. It is currently unoccupied.

The Zeeland Clean Water Plant, Holland Board of Public Works and Mead Johnson continue to reduce phosphorus loading when possible.

In September of 2011, Holland BPW received the Neighborhood Environmental Partners Program Award from the Michigan Department of Environmental Quality (see attached article).

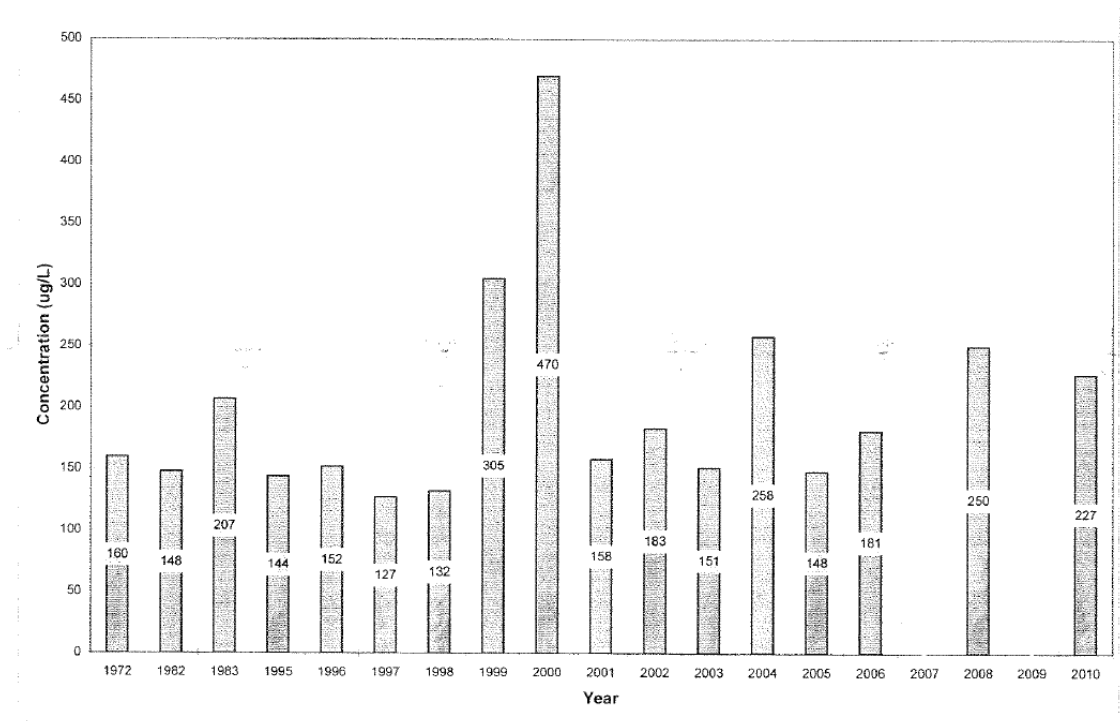


Figure 5. Average historic spring phosphorus concentrations at stations 1, 2, and 4 in Lake Macatawa, Ottawa County, Michigan.

\*The most recent monitoring results (conducted by State of Michigan, Department of Natural Resources and Environment during 2010) indicate that the average spring concentration of phosphorus in Lake Macatawa was approximately 227 ppb.

A TMDL meeting was held on January 14, 2010 at the MDEQ Grand Rapids District Office (a copy of the agenda is attached). The Voluntary Agreement expired in April of 2009 and was updated and then renewed by the MACC in July of 2010. The agreement was signed by MDEQ in September of 2010 (a copy of the signed agreement is attached).

The MACC continues to hold watershed planning meetings every other month. Representatives from all point sources are invited to attend. Copies of meeting agendas are attached (Oct 2009-Sept 2011).



## THIRTEEN ORGANIZATIONS HONORED

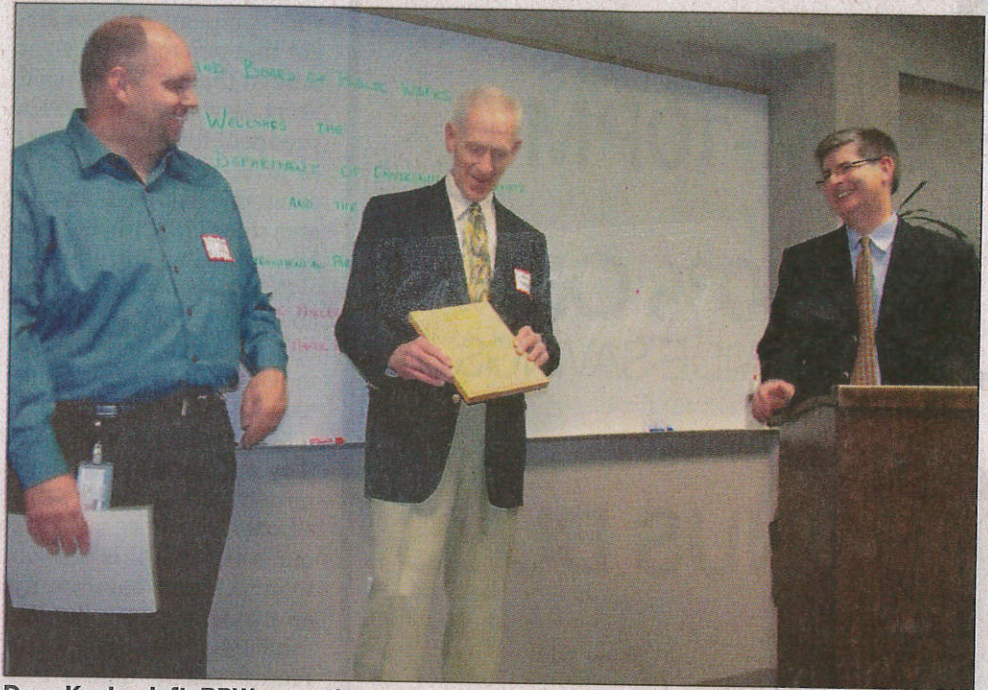
# DEQ honors businesses

The Holland Board of Public Works, Herman Miller Inc. and Pilgrim Manor Retirement Community were honored Thursday by the Michigan Department of Environmental Quality.

Thirteen organizations in the state were honored with what DEQ Director Dan Wyant called the group's highest honor, the Neighborhood Environmental Partners Program award.

"Working to comply with environmental law is tough enough," Wyant said. "These organizations went above and beyond."

Zeeland-based Herman Miller Inc. was honored for its partnership with Tri-Cities Area Habitat for Humanity for building a Leadership in Energy and Environmental Design-certified home. About 130 Herman Miller employees volunteered to



**Dave Koster, left, BPW operations manager, looks on as Loren Howard, BPW general manager, accepts a plaque from Michigan DEQ Director Dan Wyant. The Holland Board of Public Works was presented by the Michigan Department of Environmental Quality with the Neighborhood Environmental Partners Program award.** ANNETTE

MANWELL/SENTINEL STAFF

help with the build. Full-time employees may be paid for 16 hours of community service annually.

The BPW was honored for its partnership with the Ottawa County Health Department and the pharmaceutical col-

lection program hosted by the organizations. The BPW got involved with the program in an effort to keep medications out of the wastewater treatment facility.

Grand Rapids-based Pilgrim Manor was hon-

ored for a composting program, pharmaceutical take back, partnering with Comprenew for an electronic waste recycling program and a quarterly blood drive.

—ANNETTE MANWELL

H.S. 9/30/11