

**2009 ANNUAL REPORT
DEPARTMENT OF LAND AND WATER MANAGEMENT**

To the Honorable Board of Supervisors of Ozaukee County

The Land and Water Management Department partners with state, federal, and local organizations to protect, preserve, and enhance natural resources, local ecology, and the quality of life in Ozaukee County.

We strive to serve Ozaukee County taxpayers and other users of the department in a timely, efficient, and professional manner.

OVERVIEW OF MAJOR PROGRAMS

LAND AND WATER RESOURCE MANAGEMENT

2009 INSTALLATION OF CONSERVATION PRACTICES

Practice(s)	Unit
Grassed Waterway	8 waterways; total length 7,560 ft. = 5.74 acres
Heavy Use Area Protection	1 project = Approximately 0.1 acres
Waste Transfer	3 units
Manure Storage	1 unit (design only)
Stream Buffers	4.5 acres = 1,935 ft. of stream buffer
590 Nutrient Management Plans	1,480.7 acres installed; 3 new cost-share agreements = 164.3 acres planned
Access Road/Animal Walkways	1 project = 150 ft.
Roof Runoff System	3 systems installed; 9 systems designed
Underground Outlets/ Subsurface Drains	6 units = 2,080 ft.
Critical Area Stabilization	2 units = 0.5 acres
Wetland Enhancements	2 units = 0.6 acres
Livestock Fencing	1,110 ft. for animal exclusion
Well Decommissioning	1 well
Diversion	1 diversion; 50 ft = 0.04 acres

STATE COST-SHARING FUNDS EXPENDED: Soil and Water Resource Management Grant - \$39,585.56 for constructed practices, and \$41,459.20 for land applied practices; DNR Office of the Great Lakes - \$3,825.00.

FEDERAL FUNDS: USDA-Natural Resources Conservation Service provided more than \$60,000 to Ozaukee County landowners for the installation of soil and water conservation practices.

MANURE STORAGE PERMITS: No permits were issued for manure storage facilities.

USDA-NATURAL RESOURCES CONSERVATION SERVICE (NRCS) SUMMARY

Wendy Fiala is the acting USDA District Conservationist for Ozaukee and Washington County. She is stationed in the West Bend office and travels to Port Washington to assist Ozaukee County landowners.

Below are some of the tasks completed by the USDA-Natural Resources Conservation Service in 2009:

- Conservation plans were updated on numerous operator conservation farm plans. The updates evaluated HEL (Highly Erodible Land). All HEL fields were planned so the soil loss from the cropping systems meets “T,” the “tolerable” soil loss level.
- Assisted five landowners with planning or completing the following practices through the Environmental Quality Incentives Program (EQIP):
 - Grass waterways.
 - Planning three-stage manure storage facility; designing numerous conservation practices to be installed in 2010 through comprehensive nutrient management plans (CNMP).
 - Waste transfer system; silage leachate collection system.
 - Roof runoff management; underground outlet; sub-surface drain.
- Assisted in signing one Conservation Reserve Enhancement Program (CREP) contract and three CREP equivalent contracts.
- Contributed \$1,395.00 to Ozaukee County for technical assistance given by the Land and Water Management Department for design and construction oversight for USDA Environmental Quality Incentive Program.

WISCONSIN FARMLAND PRESERVATION PROGRAM

Conservation plans are on file for approximately 147 landowners who participated in the Farmland Preservation Program (FPP) in 2009. Conservation plan status reviews were done on seven landowners. Status reviews also include an evaluation of compliance with Wisconsin’s runoff rules.

WILDLIFE DAMAGE ABATEMENT AND CLAIMS

This program offers abatement and claims assistance to agricultural producers who suffer economic loss from crop damage by deer, geese, or turkeys. Through this 100% state-funded program, numerous agricultural crop fields were evaluated for damage. Two crop producers enrolled in the program, with another five to ten inquiring about program rules. A total of \$1,723.29 was spent on temporary electric fences and repellants for deer. Typically 20 to 50 calls are taken every year regarding damage complaints not covered by the program for cost sharing, but for which technical assistance is allowed. No claims for wildlife damage were made on commodity crops.

Deer Donation

Thirty deer were donated through the donation program. A total of 1,057 pounds of ground venison was distributed to Family Sharing in Grafton and Random Lake Area Interfaith Pantry. The program paid 100% of the processing cost of \$1,500.00. Saukville Meats and Schwai’s Meat & Sausage were the venison processors.

STORMWATER MANAGEMENT

A general permit under the Wisconsin Pollution Discharge Elimination System (WPDES) was issued to Ozaukee County to discharge stormwater from all portions of the municipal separate storm sewer system. The WPDES permit is effective from January 19, 2006, through December 31, 2010. The permit requires the implementation of the following programs: public education and outreach, illicit discharge detection and elimination, construction site pollutant control, post-construction stormwater management, and pollution prevention.

A stormwater education and outreach plan was developed with all county stormwater-permitted communities to meet the requirements of the stormwater permit and increase efficiencies of local government.

The Construction Site Erosion Control and Post-Construction Storm Water Management Ordinance was adopted by the Ozaukee County Board of Supervisors.

A pollutant-loading model analysis using the Source Loading and Management Model (SLAMM) was completed for county facilities within the “urbanized area.” For 2008, the permit required a 20% reduction of total suspended solids (TSS) discharging from county facilities to waters of the state when compared to no controls. The model indicates the county meets this 20% reduction of TSS, mainly due to the treatment provided by grass swales. The permit requires a 40% reduction in TSS by 2013. Our department will work with the county Highway Department to develop a strategy to meet the 40% reduction in TSS.

Stormwater pollution prevention plans are being prepared for the following county facilities in the urbanized area: Administration Center, Highway Department, Justice Center, Fairgrounds, County Garage-Cedarburg, Lasata Care Center & Lasata Heights, Mee-kwon Park & Golf Course, Lion’s Den Gorge Nature Preserve, Tendick Park, and Ehlers Park.

GYPSY MOTH SUPPRESSION PROGRAM

The Land and Water Management Department worked with local municipal gypsy moth coordinators to investigate and map potential spray blocks for 2008-09. No eligible treatment blocks were established for 2008-09. Gypsy moth populations have been low recently, but may rise dramatically in any given year.

EMERALD ASH BORER

The emerald ash borer was found for the first time in Wisconsin in August, 2008, near the Ozaukee County community of Newburg. The emerald ash borer is an invasive wood-boring beetle that feeds on the tissues under the bark of ash trees, thereby killing them. This metallic green beetle is native to East Asia and was accidentally imported to the United States within the wood of shipping crates from China. It was first discovered in North America in 2002, near Detroit, Michigan.

The LWM Department provided EAB information to county residents and assisted federal, state, and local officials as necessary. Several informational sessions regarding the emerald ash borer were held in 2009.

TREE, SHRUB, AND PRAIRIE SEED SALE

Approximately 32,775 trees and shrub plants were sold to approximately 342 landowners. The department tree planter was leased to three landowners who planted 10,000 trees. A total of 39 orders of prairie seed were sold to plant approximately 8.9 acres.

RAIN GARDEN DEMONSTRATION PROJECT

The Land and Water Management Department received a \$9,000.00 Wisconsin Coastal Management Program grant and worked with the Town of Cedarburg, Village of Saukville, and Village of Fredonia to install six rain garden demonstration sites. Public works department employees from each community assisted county staff with excavating and building the rain garden site. Plant materials were purchased through the Milwaukee Metropolitan Sewage District, and county staff planted the items appropriate for individual site conditions. Rain garden educational demonstration signs will be strategically placed to identify each site.

RE-ESTABLISHING FISH PASSAGE IN THE MILWAUKEE RIVER WATERSHED

The LWM Department is among several partners working to improve fish passage in the Milwaukee River. The department is assisting with implementing the \$4.7 million *Fish Passage in the Milwaukee River Watershed Project*, funded through the American Recovery and Investment Act.

ENVIRONMENTAL EDUCATION

Forty nine students from five Ozaukee County schools participated in a statewide environmental awareness poster contest. Zach Coutts from Northern Ozaukee High School was the first place winner in the county special needs division, as well as in the state contest. Award presentations were held at several schools.

The annual county fair display, department newsletter and web site, and various information sessions served to provide ongoing environmental education.

SANITATION

In 2009, the Land and Water Management Department issued **96** State of Wisconsin sanitary permits to allow the installation of Private Onsite Wastewater Treatment Systems (POWTS) within the county. The following table is an explanation of these permits.

System Type	Number of Permits Issued	New Construction POWTS	Replacement POWTS	Total Revenue
A+0 Mound	0	0	0	–
A+0 Mound with pretreatment	0	0	0	–
A+4 Mound	33	15 (45%)	18 (55%)	–
A+4 Mound with pretreatment	3	0 (0%)	3 (100%)	–
At-Grade	4	2 (50%)	2 (50%)	–
Conventional	3	1 (33%)	2 (67%)	–
Holding Tank	20	3 (15%)	17 (85%)	–
In-Ground Pressure	0	0	0	–
In-Ground Pressure with pretreatment	6	2 (33%)	4 (67%)	–
Mound	15	5 (33%)	10 (67%)	–
Mound with pretreatment	2	1 (50%)	1 (50%)	–
Modifications all system types*	5	N/A	5 (100%)	–
Total:	91	29 (32%)	62 (68%)	\$53,800.00
* Modifications include component replacements and/or additions to existing systems.				
Five additional state permits were issued as transfers and renewals (revenue \$400.00).				

The department also issued **nine** county permits for existing POWTS: **four** for system reconnections, **four** for system abandonments, and **one** for system repair. Application fees totaled **\$1,500.00**.

As a Wisconsin Department of Commerce agent for POWTS plan review, the LWM Department reviewed **87** plans. A total of **\$16,480.00** was paid in plan review fees.

Department inspectors performed **80** final inspections during the year. Other POWTS-related revenue totaled **\$2,500.00**. This includes fees for POWTS certifications, on-site soil evaluations, and Wisconsin Fund applications.

POWTS MAINTENANCE PROGRAM

Effective January 1, 2009, a new in-house maintenance program was launched, following discontinuation of the Carmody Data system. The department issued **2,320** notices for required routine maintenance on POWTS within the county. As of December 31, approximately **32 (1.38%)** of the POWTS involved were non-compliant. Total one-time maintenance reporting fees received by the department during the year amounted to **\$1,395.00** (*new construction* only). The new software is currently being marketed by Transcendent Technologies, with Ozaukee County receiving revenue from each sale.

WISCONSIN FUND

The department processed **three** applications for the Wisconsin Fund Private Sewerage System Replacement or Rehabilitation Grant Program. A total of **\$14,384.00** was distributed to these applicants.

SHORELAND AND FLOODPLAIN ZONING

The department issued **51** zoning and stipulated permits to allow the improvement of lands within the shoreland area of the county. The following table is an explanation of these permits:

Permit Type	Number of Permits Issued	Total Revenue
Principal Structure*	18	–
Accessory Structure*	13	–
Stipulated	12	–
General	8	–
Total:	51	\$9,576.80

*Includes modification and/or addition to existing structure.

The department presented **one** applicant requesting a conditional use permit to the Board of Adjustment. The application was approved. Application fees totaled **\$275.00**.

The department presented **three** applicants to the Environment and Land Use Committee for petitions to change zoning classification (rezoning). All three petitions were approved. Application fees amounted to **\$990.00**.

Community Rating System Participant

The county is a participant in the National Flood Insurance Community Rating System (CRS). As a result, flood insurance premiums in the unincorporated areas are reduced by 10%. The program rewards communities for activities which go beyond the minimum required by the national flood insurance program.

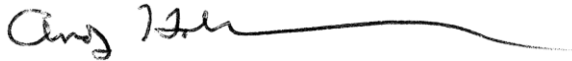
NONMETALLIC MINING RECLAMATION

The LWM Department is presently working with operators of four active sand/gravel pits in the Town of Fredonia to monitor implementation of their reclamation plans. All the mine operations are inspected on an annual basis and have approved reclamation plans and associated financial assurance. Three of the non-metallic mines are owned by Hartmann Sand & Gravel Co., Inc., and one is owned by Ozaukee County. The county-owned non-metallic mine is the Hetzel-Bee Keeper Bog pit. This was a new permit in 2009 and, although twelve acres are approved for mining, less than one acre is currently open and actively mined. The department oversees a total of 272 approved mining acres in the county, with 104.97 acres actively mined. To date, a total of 28.15 acres have been reclaimed, with release from financial assurance pending. Mining activity has ceased on eight acres that have been reclaimed and released.

Throughout the year, the department provided assistance to numerous landowners, realtors, and consultants regarding land and water issues, sanitation, POWTS maintenance, shoreland and floodplain zoning, non-metallic mining, and any other subjects on which we had information.

Thank you for your support of our many programs and initiatives.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Andy Holschbach", followed by a long, horizontal, wavy line that extends across the width of the signature.

Andy Holschbach, Director
Department of Land and Water Management