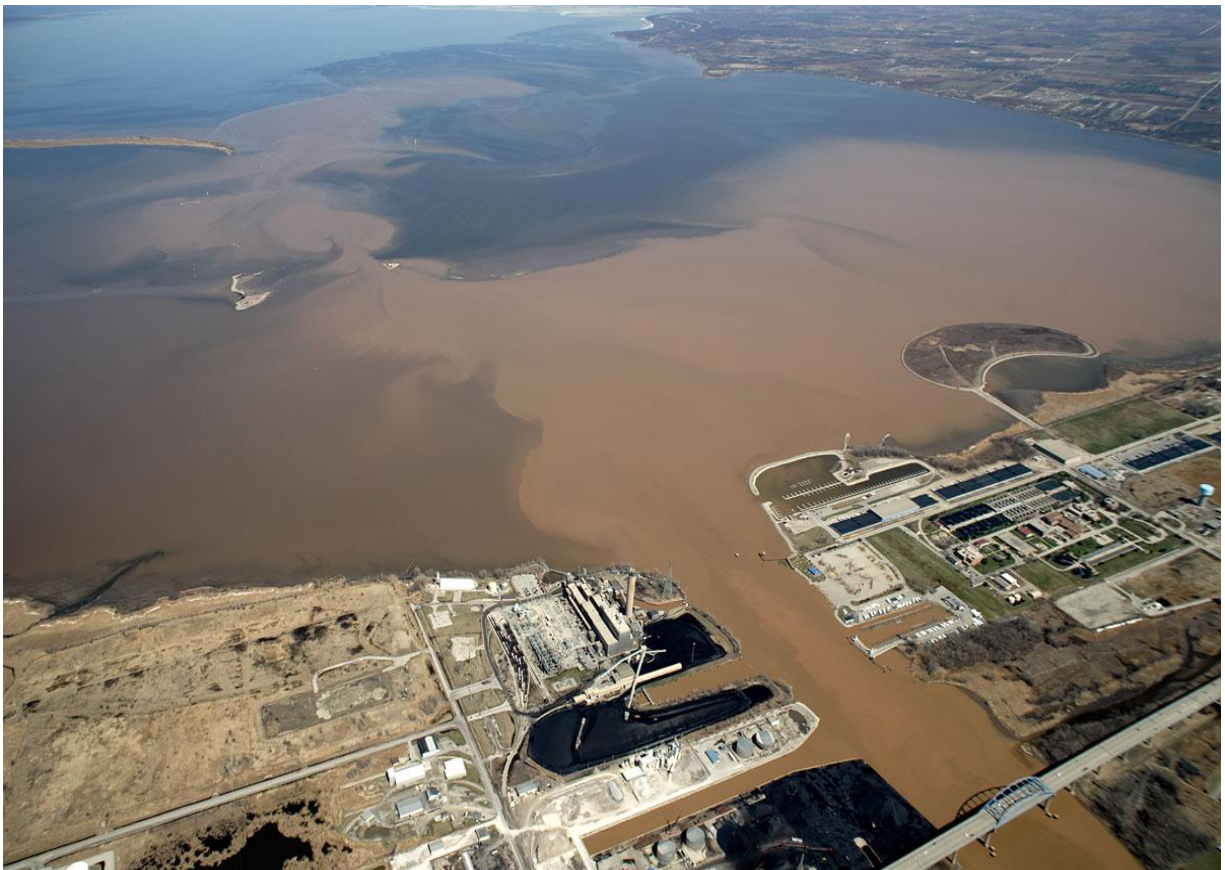




**BROWN COUNTY
LAND and WATER CONSERVATION DEPARTMENT**

**2011 Annual Report
And
2012 Work Plan**



**Photo of sediment plume at mouth of Fox River in April 2011.
Lower Fox and Green Bay TMDL identify 63% of Sediment and 47 % of Phosphorus
loading to Green Bay from Agriculture Sources.**

Land Conservation Committee

The Land Conservation Committee is a standing committee of the Brown County Board. County governments are authorized to create a committee that broadly represents local interests for the conservation of soil, water, and related natural resources in each county.

Section 92.06 of the Wisconsin State Statutes require that “each county board shall create a Land Conservation Committee” comprised of “at least two persons who are members of the Committee on Agriculture and Extension Education” of the County Board of Supervisors, the Chairperson “of the County Farm Services Agency Committee or another member of that committee as designated by its chairperson”. Any number of persons “who are also members of the County Board”, may also serve on the LCC.

2011 Land Conservation Committee Members

Norbert Dantine Jr., Chairperson
5250 Finger Rd
Green Bay, WI 54311
(920)863-6362

Dave Kaster, Vice Chairperson
3008 Monroe Rd.
De Pere, WI 54115
(920)336-0221

Bernie Erickson
868 Dousman St.
Green Bay, WI 54303
(920)497-9006

Daniel Haefs
1917 Smith Street
Green Bay, WI 54302
(920) 432-0069

Mike Fleck
1402 Charles St.
De Pere, WI 54115
(920)336-3776

Norbert Vande Hei, Farm Service
Agency (FSA)
5681 Glenmore Rd.
De Pere, WI 54115
(920)863-2869

2011 Land Conservation Department Staff

William Hafs, County Conservationist
Jim Jolly, Program Manager
Jon Bechle, Program Manager
Dave Wetenkamp, Technician-Engineering
Chris Flicek, Technician-Engineering
Paul Lemke, Technician-Agronomist
Brad Holtz, Technician-Agronomist

Brent Peterson, Technician-Agronomist
Rama Zenz, Technician
Mike Mushinski, Technician Pike Project
Rob Vesperman, Technician Baird Creek

Larry Kriese, LTE- Pike Habitat Project
Joe Baeten -Summer Intern Karst Mapping

ADOPTED RESOLUTIONS

- Brown County Land Conservation Committee formed (May 19, 1982).
- Specified powers and responsibilities of Land Conservation Committee enumerated in Section 92.07 of Wisconsin State Statutes (May 18, 1983).
- Designated the Land Conservation Department county agency to participate in NR243 Animal Waste Management Program (March 21, 1984).
- Farmland Preservation Plan for Brown County (June 20, 1985).
- Brown County Animal Waste Storage Facility Ordinance (April 16, 1986).
- Brown County Manure Management Water Pollution Control Plan (June 20, 1986).
- Wildlife Damage Abatement and Wildlife Damage Claim Program (September 17, 1987).
- Brown County Erosion Control Plan (March 18, 1988).
- East River Priority Watershed Plan (May 15, 1991).
- Streambank Protection Ordinance (October 18, 1991).
- Approved membership and participation in the Great Lakes Nonpoint Abatement Coalition (GLNAC) Wisconsin Chapter (July 26, 1993).
- Red River/Sturgeon Bay Priority Watershed Plan (September 20, 1996).
- Branch River Priority Watershed Plan (January 30, 1996).
- Duck, Apple/Ashwaubenon Creeks Priority Watershed Plan (May 21, 1997).
- Brown County Agricultural Shoreland Management Ordinance (June 12, 1998).
- Revised the Animal Waste Facility Ordinance (April 1986) to create Chapter 26 Animal Waste Management of the Brown County Code (January 20, 1999).
- Land and Water Resource Management Plan for Brown County (March 17, 1999).
- Approval of Conservation Reserve Enhancement Program (December 19, 2001).
- 2004 – 2008 Land and Water Resource Management Plan (January 21, 2004).
- Creation of Special Revenue fund of \$40,000 for groundwater contamination of wells through 2009 (October 18, 2006).
- Revised the Animal Waste Management Ordinance to include groundwater protection provisions including winter spreading plan requirements and unconfined manure pile definitions (November 13, 2006).
- Revised the Brown County Animal Waste Ordinance to clarify nutrient management plan requirements and add NRCS 313 language (June 27, 2007).
- Approval of 2009-2013 Brown County Land and Water Resource Management Plan (November 10, 2008).
- Resolution approving new positions for Great Lakes Restoration Initiative grants for West Shore Pike Habitat Restoration Project and Baird Creek Riparian Protection Project (November 8, 2010).
- Resolution Requesting Wisconsin DNR to set Reasonable Wolf Population Goals for the State of Wisconsin. (December 15, 2010).

2011 ANNUAL REPORT SUMMARY

2 miles of Buffer strips installed and **6.3** acres of wetland restoration projects in West Shore Pike Habitat Restoration Project.

\$133,471.07 in cost share for conservation practices distributed to West Shore Pike Habitat Restoration Project landowners.

2.7 Miles of buffer strips installed in Baird Creek: **22.9** Acres Buffers installed in Baird Creek.

\$10,060 GLRI Baird Creek Cost Share Dollars paid to landowners in 2011.

4.7 Total miles of buffer strips installed in Brown County.

115,000 acres of nutrient management plans (590) reviewed.

9 Unused wells were abandoned.

75 Winter spreading plans developed.

24 Animal waste permits issued. **4** Abandonments, **10** new permits or alterations, **10** feedlots.

33 Inspections of animal waste storage facilities with livestock greater than 500 animal units.

22 Facilities inspected not in compliance (fencing, runoff, and overflows) and required to take corrective actions to bring facility or feedlot into compliance.

3,879 Letters sent to all landowners informing them of state and county nutrient management planning (590) requirements and animal waste storage requirements per state statute and county ordinance.

\$108,866.61 State Land and Water Plan dollars provided to landowners in cost-share in 2011.

10 Wildlife Damage claim requests reviewed totaling approximately **\$50,000** from State funding. Issued **12** shooting permits (**6** deer, **6** turkey).

14 Deer were processed for Hunt for the Hungry.

16,525 Hardwood and evergreens sold through the annual tree sale.

370 Annual Conservation Compliance Certification forms received from landowners for Farmland Preservation/ Working Lands Initiative Program.

159 Annual Conservation Compliance Certification forms certified by Land and Water Conservation Department Staff for Farmland Preservation / Working Lands Initiative Tax Credits in 2011.

LAND & WATER CONSERVATION FUNDING HISTORY

Brown County Program History 1983-2009	Total Grant \$ 1983-2010 (a)	Grant \$ 2011 Spent (b)	Total Grant\$ 1983 – 2011 Spent (a+b)
West Shore Pike Restoration Project NRDA, GLRI	\$309,179	\$234,563	\$543,742
Baird Creek Buffer Project Great Lakes Restoration Project	\$12,099	\$89,297	\$101,396
Land and Water Resource Management	\$1,011,155	\$108,436	\$1,119,591
Technical Assistance Staff	\$11,416,303	\$146,948	\$11,563,251
Farmland Preservation	\$16,195,779	\$599,483	\$16,795,262
TRM Targeted Resource Management Grant DNR	\$362,520	0	\$362,520
Wildlife Damage Abatement Program	\$733,277	\$23,674	\$756,951
Branch River Priority Watershed	\$3,016,516	Project complete	\$3,016,516
East River Priority Watershed	\$2,729,332	Project complete	\$2,729,332
Duck, Apple/Ashwaubenon Creeks Priority Watershed	\$1,445,515	Project complete	\$1,445,515
Red River Priority Watershed	\$228,838	Project complete	\$228,838
Ag Shoreland Mgmt Program & Town Shoreland Management	\$630,476	Projects complete	\$790,301
Kewaunee River Priority Watershed	\$135,103	Project complete	\$135,103
Conservation Reserve Enhancement Program (CREP)	\$870,988	Project complete	\$870,988
Plum Creek (Fed Grant 2002-04)	\$24,998	Project complete	\$24,998
Baird Creek grants (EPA Grant 1999, DNR, 2002-3 buffer grant)	\$125,100	Project complete	\$125,100
National Fish and Wildlife Foundation	\$60,500	Project complete	\$60,500
MALWEG (Mul Agency L&W Ed Grant) ARRA	\$49,871	Project Complete	\$49,871
TOTAL GRANTS	\$39,357,549	\$1,202,401	\$40,559,950
BROWN COUNTY LEVY FOR LWCD	\$6,145,035	\$494,990	\$6,640,025

West Shore Pike Habitat Restoration Project (GLRI)

Achievements to date:

- 40.6 Acres – Buffers
- 28 Acres Wetland Restorations
- 5 Culvert Impediments replaced
- 17 Miles of new stream accessibility

Installation

St. Pats Creek 2007



St. Pats Rd (Post Construction)



Mercier project 2011



Culvert correction



Erosion netting for buffer seeding

Monitoring





Young of the year assessment trapping





Spawning pike in West Shore project area



46 inches, 25 pounds Green Bay April 2010



Great Lakes Restoration Initiative (GLRI)

BAIRD CREEK RIPARIAN PROTECTION PROJECT

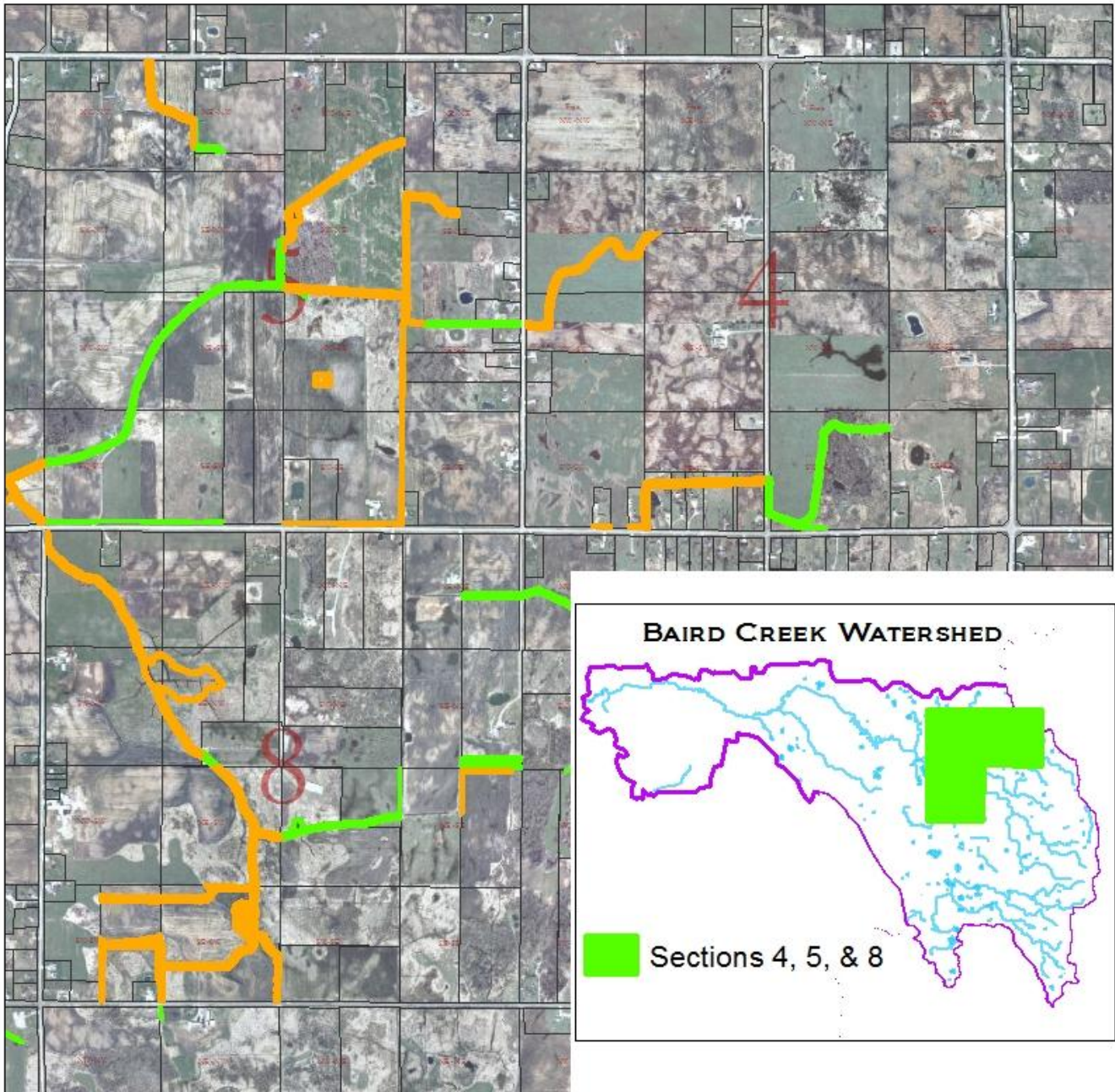
TARGET SECTIONS 4, 5, & 8

0 500 1,000 2,000 3,000 4,000 Feet



Legend

- Pre2011_Buffers
- Buffers_Installed 2.7 Miles



Before buffer installed top picture. After buffer installed bottom picture.



Before buffer installed top picture. After buffer installed bottom picture



Before buffer installed top picture. After buffer installed bottom picture



Before buffer installed top picture. After buffer installed bottom picture.



2011 ACCOMPLISHMENTS and 2012 GOALS LAND & WATER CONSERVATION DEPARTMENT

(From 2013 State and County Approved Land and Water Resources Management Plan)

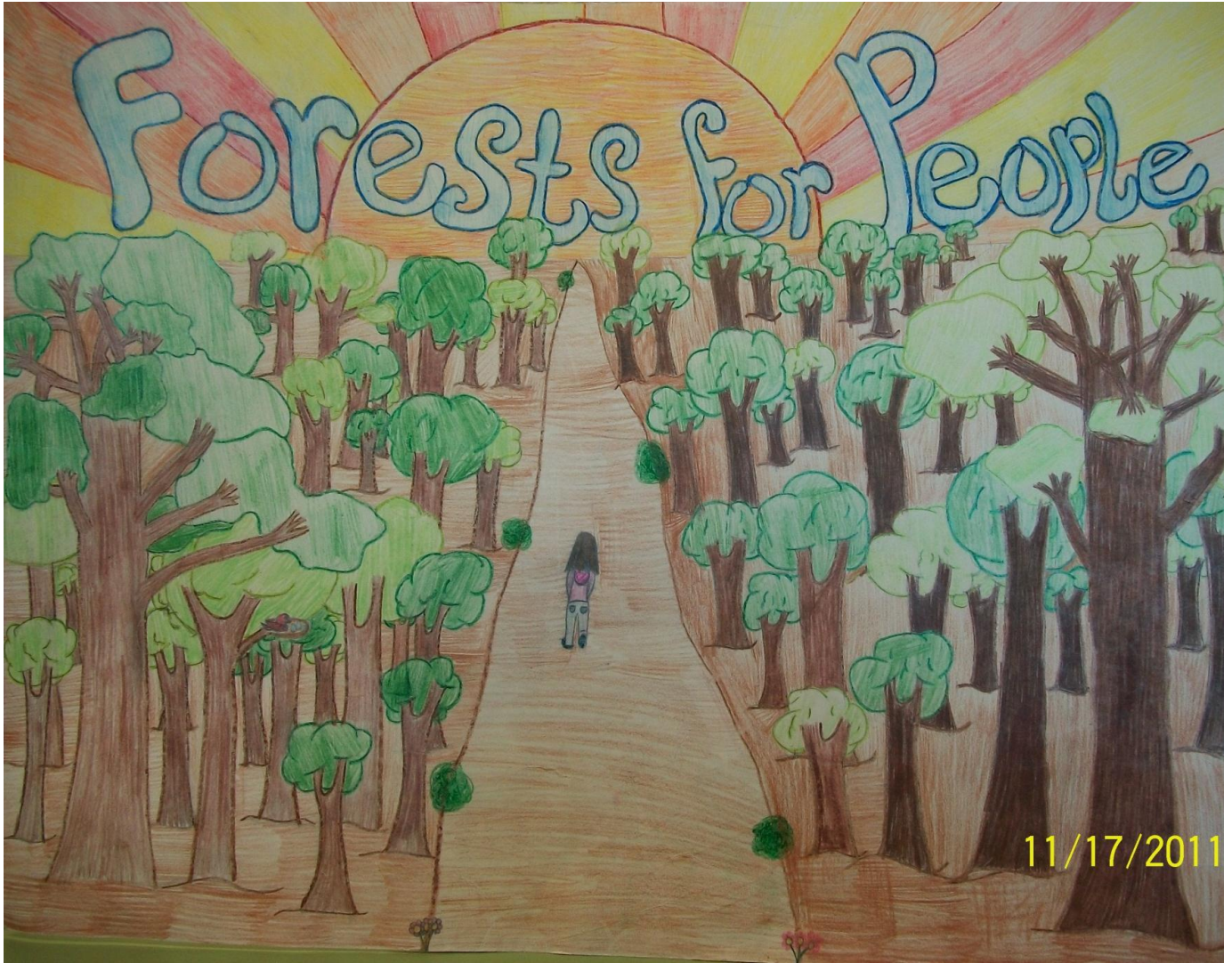
Priorities -Implementation schedule/ Work Plan Goal and Objective description	A. Total est. needs B. Yearly Rate C. 2009-2013 Goals	2009	2010	2011	2012	2013
Goal 1 - Identify priority farms						
1. Identify Ag operations with WPDES permit, ordinance permit, AGMZ, NR243	WPDES 15 Ord. permits 18	33	32	33		
2. Rank farms, high sediment fields, no 590 plan, other waste not on 590 plan, no winter spreading plan, no buffers	other waste buffers NOV no WSP	13	9	13		
3. Track implementation/ compliance	WPDES & Ord.	33	32	33		
4. Notify Priority farms/ needed actions. All landowners will be notified of state requirements and county ordinance requirements.	#1 + #2 3,805 landowners contacted by fee notice	46	41	46		
Goal 2- Implement Best Management Practices (BMP's) on Priority Farms						
1. Implement BMP's in Ag Groundwater Mgmt Zones						
Required activities:						
a. Require Buffers	A. 20 miles B. 2 mile/ yr C. 10 miles	0	4	0		
b. Prohibit unconfined manure piles 1000 feet of delivery systems	A. 5 B. 1/yr C. 5	8	8	8		
c. Prohibit winter spreading without winter spreading plan	A.10 B. 10/yr C. 50	20	25	25		
d. Yearly inspection of Animal Waste Storage Facilities (in AGMZ) see map page	A.15 B.15/yr C. 75	0	6	6		
Recommended activities:						
a. No discharge of untreated waste from feedlots or milk house	A. 5 B. 1/yr C. 5	0	2	3		
b. No diversion of surface runoff into sinkholes or bedrock openings	TBD	0	0	0		
c. No drain tile outlets to sinkholes or bedrock openings	TBD	3	0	0		
d. No row crops or chemicals within 100 feet of delivery systems	TBD	0	0	0		
e. Spill response plan for waste storage, transportation of waste	TBD	12	13	13		

Priorities -Implementation schedule/ Work Plan Goal and Objective description	A. Total est. needs B. Yearly Rate C. 2009-2013 Goals	2009	2010	2011	2012	2013
f. Immediate incorporation land applied waste	TBD	300 ac	0	0		
g. Maximum application rates 3,000 gallons or 6,000 gallons per year	TBD	6,000 ac	0	0		
h. No animal waste or feed storage built within 400 feet of conduits to groundwater	TBD	0	0	0		
2. Animal Waste Mgmt Ordinance Chapter 26 admin.						
a. Install nutrient management plans <u>new</u> acres (total Ag acres 164,237. 140,000 acres estimated to be achievable, 90,000 installed end of 2008)	A. 50,000 B. 5,000 ac/yr C. 25,000 ac	5,000 ac	6,000 ac	0		
b. Annually Review and certify existing 590 plans. 95,000 - 115,000 ac	A.140,000 B. 105,000 ac/yr C. 105,000 ac/yr	109,000 ac	115,000 ac	115,000 ac		
c. Annually review and approve 75 winter spreading plans	A. 75 B. 75/yr C. 375	100	83	75		
d. Install 5 State Manure Management Prohibitions per year	A. TBD B. 5/yr C. 25	4	7	7		
e. Annually inspect manure storage facilities 500au, over flows, liner failure	A. 38 B. 38/yr C. 190	31	30	33		
f. Upgrade non conforming animal waste storage facilities	A. 50 B. 1/yr C. 5	2	1	3		
g. Permitting and engineering for animal waste management ordinance	A.TBD B. 15/yr C. 75	30	20	24		
h. Notice of violations	A. TBD B. 3/yr C. 15	0	0	0		
i. Animal Waste complaint inspections (complaints from citizens – inspection)	A.TBD B. 20/yr C. 100	57	29	33		
J. Incorporate other waste into 590 plans (total 29,368.9 acres- DNR 2007)	A. 29,368 acres B. 2500 ac/yr C. 12,500 acres	3,000 ac	4,000 ac	1,500 ac		
3. Buffer installation Chapter 22,10, administration						
a. Install 5 miles of buffer strips per year (out side of AGMZ)	A. 350 miles B. 5 miles/yr C. 25 miles	6.35 mi	13.1 mi	4.7 mi		
4. Waste Transformation Project admin.						
a. Funding and grants administration	TBD	delayed	complete	complete		
b. Secure waste streams from industry and agriculture	TBD	delayed	complete	complete		

Priorities -Implementation schedule/ Work Plan Goal and Objective description	A. Total est. needs B. Yearly Rate C. 2009-2013 Goals	2009	2010	2011	2012	2013
c. Coordinate animal waste delivery and nutrient management plan	TBD	delayed	delayed	delayed		
d. Administration and coordination of project	TBD	delayed	delayed	delayed		
5. Groundwater Protection administration						
a. Town meetings	A. 11 B. 3/yr C. 15	5	3	0		
b. Well Testing	A. TBD B. 200/yr C.1000	45 UWGB	0	0		
c. Old well abandonment cost share and contracts	A. 980 B. 10/yr C. 50	8	3	9		
d. Field verification of karst features and add to AGMZ map	A. TBD B. 20 sites/yr C. 100	4 sites	1 site	Town of Morrison		
e. Proposed County Well abandonment ordinance (est. 980) abandonment	A. 980 B. 30/yr C. 150	delayed	delayed	delayed		
6. West Shore Pike Habitat Restoration Project admin. (contingent on funding)						
a. Buffer strip installation (included in objective 2)	A. 10 miles B. 2 miles/yr C. 10 miles	3	1	2		
b. Wetland restorations- acres of spawning marshes corrected	A. 100 acres B. 5ac/yr C. 25 acres	3.6	6.15	6.3		
c. Culvert corrections - replace perched culverts	A. 50 B. 2/yr C. 10	2	0	1		
d. Cost share administration - contracts per year	A.100 contracts B. 5/yr C. 25 contracts	7	5	7		
e. Grants reporting to granting agencies		5	5	5		
7. Total Maximum Daily Load (TMDL) admin. (contingent on funding)						
a. Planning meetings	TBD	15	8	10		
b. Contacts with landowners	TBD	0	0	0		
c. Implementation of work elements	TBD	delayed	delayed	delayed		
d. Administration and coordination of project	TBD	delayed	delayed	delayed		

Priorities -Implementation schedule/ Work Plan Goal and Objective description	A. Total est. needs B. Yearly Rate C. 2009-2013 Goals	2009	2010	2011	2012	2013
8. Windmill siting administration						
a. Site reviews for Towns	A. 100 B. 20/yr C. 100	delayed	delayed	cancel		
b. Drainage patterns, culvert sizing. Karst, bedrock protection.	TBD	delayed	delayed	cancel		
c. Access road layout	TBD	delayed	delayed	cancel		
Goal 3 LWCD and State programs						
1. LWCD Department Administration						
a. Budget development and monitoring	Monitoring 10/week	520	520	520		
b. LCC meetings		10	9	10		
c. Office support, phone calls, customer service, equipment mgmt	(100 per day ave.)	20,000	20,000	20,000		
d. Tree Program	A. TBD B. 10,000 sold/yr C. 50,000	19,550	18,000	16,525		
e. Annual Report, Annual work plan	state , county	2	2	2		
h. 50 cent per Ag acre fee notification	A. 3500 B. 3500 /yr C. 17,500	3,805	3,885	3,879		
i. Non Metallic Mining program technical assistance	A. 10 B. 2/yr C. 10	4	0	12		
2. Wildlife Damage Program Administration						
a. Technical support to landowners	A. TBD B. 15/ yr C. 75	20	21	20		
b. Cost share for abatement \$10,000 per year 2- 3 landowners / year	A. TBD B. 2/yr C. 10	2	2	2		
c. Claims \$40,000 per year - 8-10 landowners per year	A. TBD (\$35,000) B. 8/yr C. 40	9	9	10 (\$50,000)		
d. Hunt for hungry coordination	(deer processed)	56	31	14		
3. Install soil conservation practices						
a. Install conservation tillage through cost share on 136 acres per year	A. TBD B. 136 acres/yr C. 680 acres	0 no cost share	0 no cost share	0 No cost share		
4. Farmland Preservation Program Working Lands Initiative Administration						
a. Notification of 450 landowners per year	A. 450 B. 450/yr C. 2,250	767	787	3,879		
b. Annual Conservation Compliance Certification forms received from landowners for Farmland Preservation/ Working Lands Initiative Program. (added by state in 2011)				370		

Priorities -Implementation schedule/ Work Plan Goal and Objective description	A. Total est. needs B. Yearly Rate C. 2009-2013 Goals	2009	2010	2011	2012	2013
c. Monitoring of 450 landowners per year (modified by state in 2011) Annual Conservation Compliance Certification forms certified by Land and Water Conservation Department Staff for Farmland Preservation / Working Lands Initiative Tax Credits in 2011	A. 450 B. 450/yr (cert.) C. 2,250	528	470	450		
d. Compliance with State Standards (originally complaint based, modified by state in 2011) WLI schedules of compliance developed based upon on –site field investigations	A. 450 B. 5/yr C. 25	4	5	0		
e. Notice of non-compliance issued to state	A. 450 B. 10/yr C. 50	0	0	0		
5. Priority Watershed Program Administration						
a. Contract monitoring	A. 500 B. 500/yr C. 2500	51	100	495		
b. Operation and Maintenance compliance checks	A. 500 B. 10/yr C. 50	33	31	35		
Budget performance measures						
Winter spreading plans (per year)	A. 75	100	83	75		
Animal Waste						
• Ordinance permits	A. 25	30	20	24		
• Storage inspections	A. 35	31	32	33		
Miles of Buffer strips installed	A. 7	6.35	17.1	7.3		
Old wells properly abandoned	A. 10	8	2	9		






Kailyn Glinski, Red Smith School, Green Bay.
3rd Place at State Wisconsin Land and Water Conservation
Association Conservation Poster Contest.
1st Place Lake Michigan Area Land and Water Conservation
Association Poster Contest, 1st Place Brown County Conservation
Poster Contest
Contest division grade 7-9

Agriculture Groundwater Management Zones (AGMZ)

Town of Morrison

Field Classification

-  Not Classified as AGMZ
-  Agriculture Groundwater Management Zone (AGMZ)
-  Susceptible to Groundwater Contamination (NR 151)

A field classified as an AGMZ has soils proven to be less than 24 inches or has had fracture traces in the field (which also indicates shallow soils).

A field classified as Susceptible to Groundwater Contamination has a karst feature or conduit to groundwater either within 300 feet upslope or 100 feet down slope (NR 151).

A field which is not classified as an AGMZ means either no features in or near the field pose a threat to groundwater contamination or the field has yet to be checked for karst features. These fields may still be a threat to groundwater contamination (see Morrison Parcels Verified by LWCD map to see which areas have been checked for karst and other conduits to groundwater).



Fracture Traces in Field.

