

**Table 42. Site Specific Management Measures Action Plan.**

<b>KENOSHA</b>											
ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>STREAMBANK &amp; CHANNEL RESTORATION (see Figure 60)</b>											
<b>Technical and Financial Assistance Needs:</b> Stream restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with stream maintenance is generally low for minor tasks such as removing debris.											
Pike River Reach 16 (PR16)	Pike River within Carthage College boundaries	8,361 lf	Carthage College, Kenosha	8,361 lf of moderately channelized and moderately eroded stream with adjacent spoil piles/berms on both sides of channel; invasive shrubs and trees are abundant in immediate riparian corridor	Improve channel using riffles and grade controls. Design, permit, and construct breaks in spoil pile/berm in appropriate areas to allow for additional flood storage and water quality improvement. Remove invasive trees and shrubs.	TN = 665 lbs/yr, TP = 333 lbs/yr, TSS = 333 tons/yr	High	Campus (Carthage), Kenosha	USACE, Consultant, WDNR	Cost for breaking berms and connecting to floodplain areas is to be determined. \$25,000 to install 5 artificial riffles; \$45,000 invasive tree and shrub removal	10-25 Years (2024-2039)
South Branch Pike River Reach 4 (PC04)	South Branch Pike River from just north of State Highway 158 at junction of Airport Branch, north to junction of South Branch Pike River and Somers Branch	20,004 lf	Owners (mostly private)	20,004 lf of stream south of County Highway E to Airport Branch with highly channelized and moderately eroded streambanks, moderate debris jams and spoil piles/berms prevent floodplain connection	Design, permit, and construct breaks along west spoil pile/berm to allow for additional flood storage and water quality improvement. Note: these should be done in conjunction with adjacent recommended wetland restoration sites. Selectively restore highly eroded streambanks using combination of hard armoring and bioengineering techniques and improve channel using riffles; selectively remove invasive trees and shrubs from floodplain areas	TN = 2,387 lbs/yr, TP = 1,194 lbs/yr, TSS = 1,194 tons/yr	Critical Area	Owner, Somers, Kenosha	USACE, Consultant, WDNR, NRCS	Cost for breaking berms and connecting to wetland restoration areas is to be determined. \$100,000 design/permit; \$2,000,000 install and debris jam removal; \$100,000 tree removal	1-10 Years (2014-2024)
South Branch Pike River Reach 3 (PC03)	South Branch Pike River from County Trunk Highway K north to Airport Branch	4,245 lf	Owners (private)	4,245 lf of highly channelized and moderately eroded stream with many fallen trees in channel; spoil piles/berms present on both sides of channel, blocking floodplain connection	Improve channel using riffles and grade controls. Design, permit, and construct breaks in spoil pile/berm at upper end of reach to allow for additional flood storage and water quality improvement. Note: these should be done in conjunction with adjacent recommended wetland restoration site.	TN = 464 lbs/yr, TP = 232 lbs/yr, TSS = 232 tons/yr	High	Somers, Kenosha	USACE, Consultant, WDNR	Cost for breaking berms and connecting to wetland restoration areas is to be determined. \$15,000 to install 5 artificial riffles	25 Years + (2039+)
<b>DETENTION BASIN RETROFITS &amp; MAINTENANCE (see Figure 63)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical assistance needed to implement detention basin retrofits is relatively low while financial assistance needs are moderate. Private landowners will require the greatest assistance.											
56A	South of potential residential units on 20th Place	1.0 acres	Owner (private)	Existing detention basin servicing new/defunct subdivision to north; pond is buffered by mowed turf grass; pond is turbid due to lack of erosion control measures in development	Design and implement project to install a native prairie vegetation buffer and plant emergents along shoreline, and maintain for three years to establish	TN= 23 lbs/yr, TP = 6 lbs/yr, TSS = 3 tons/yr	Critical Area	Developer, Owner	Kenosha, Consultant	\$9,500 to design & install prairie buffer & emergent plants; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
57A	West of Wood Road and north of 34th Avenue	11.0 acres	Kenosha	Large regional detention area online with Tributary O; slopes are mowed turf grass	Design and implement project to install native prairie and wetland buffer and maintain for three years to establish	TN= 254 lbs/yr, TP = 64 lbs/yr, TSS = 32 tons/yr	Critical Area	Kenosha	Kenosha, Consultant	\$50,000 to design & install prairie and wetland buffer; \$5,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
57G	North west of the corner of 22nd St and 38th Ave.	7.0 acres	Kenosha	Large regional detention area with low-flow concrete channel; slopes are mowed turf grass	Design and implement project to alter concrete channel and install native prairie and maintain for three years to establish	TN= 161 lbs/yr, TP = 40 lbs/yr, TSS = 20 tons/yr	Critical Area	Kenosha	Kenosha, Consultant	\$70,000 to alter channel and design & install prairie; \$5,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

### WETLAND RESTORATION (see Figure 64)

**Technical and Financial Assistance Needs:** Wetland restoration projects are typically complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration.

W30	North of Co Hwy 158, west of railroad tracks and west of industrial development along Co Hwy H	127.8 acres	Owners (private)	127.8 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be industrial	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=1,732 lbs/yr, TP = 398 lbs/yr, TSS = 276 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$1,275,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W32	East of residential development along 82nd Avenue	31.0 acres	Owner (private), HOA	93.1 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be open space	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 420 lbs/yr, TP = 96 lbs/yr, TSS = 67 tons/yr	Critical Area	Owner, HOA, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$930,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W34	South of Co Hwy E, east of 30th Ave (Wood Rd) and west of 25th Ave	31.3 acres	Owners (private)	31.3 acres of drained wetland on private agricultural land along Kenosha Branch; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 108 lbs/yr, TP = 28 lbs/yr, TSS = 22 tons/yr	High	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$469,500 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes

### RIPARIAN AREA & AGRICULTURAL SWALE RESTORATION & MAINTENANCE (see Figure 65)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement riparian area restoration and maintenance is moderate at first because an environmental consultant is usually hired to complete a plan and implement the work. However, costs can be greatly reduced over time if municipal or park district staff complete some restoration and most of the long term maintenance in house. Private landowners will require the greatest assistance.

PC02	South Branch Pike River between County Hwy K and detention basin 67E	5.6 acres	Owners (private)	5.6 degraded riparian acres along both banks of South Branch Pike River Reach 2	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 10 lbs/yr, TP = 1 lbs/yr, TSS = 1 tons/yr	High	Owner	Consultant, WIN, Kenosha	\$16,800 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	25 Years + (2039+)
PCAB	Tributary to South Branch Pike River from Kenosha Regional Airport	3.7 acres	Kenosha County, Owners (private)	3.7 acres degraded riparian acres along both banks of lower third of Airport Branch of South Branch Pike River	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 38 lbs/yr, TP = 5 lbs/yr, TSS = 4 tons/yr	High	Kenosha County, Owner	Consultant, WIN, Kenosha	\$11,100 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	25 Years + (2039+)
PC03	South Branch Pike River from County Trunk Highway K north to Airport Branch	5.8 acres	Owners (private)	5.8 degraded riparian acres along both banks of South Branch Pike River Reach 3	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach; remove woodie invasives	TN= 6 lbs/yr, TP = 0 lbs/yr, TSS = 0 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN, Kenosha, Somers	\$34,800 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
PC04	South Branch Pike River from just north of State Highway 158 at junction of Airport Branch, north to junction of South Branch Pike River and Somers Branch	27.6 acres	Somers, Owners (private)	27.6 degraded riparian acres along both banks of South Branch Pike River Reach 4	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 29 lbs/yr, TP = 3 lbs/yr, TSS = 2 tons/yr	High	Somers, Owner, Farm	NRCS, Consultant, WIN, Kenosha, Somers	\$193,200 to expand and restore buffer; \$10,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
60B	Agricultural swale from pond 59A to Airport Branch	9.6 acres	Owner (private)	9.6 acres of non-existent riparian area along agricultural swale	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 9 lbs/yr, TP = 1 lbs/yr, TSS = 1 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN	\$29,000 to expand and restore buffer; \$5,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
<b>AGRICULTURAL LAND MANAGEMENT (see Figure 66)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical assistance needed to implement agricultural land management projects is moderate while existing financial incentives need to be leveraged. Farmers renting from absentee landlords will require the greatest assistance.											
AG44	north off of St Hwy 158 and west of Canadian Pacific North Railway	129.5 acres	Owner (Private)	129.5 acres of privately owned cropland located along Airport Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 510 lbs/yr, TP = 260 lbs/yr, TSS = 175 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
<b>PRIORITY GREEN INFRASTRUCTURE PROTECTION AREAS (see Figure 72)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to acquire open space or implement conservation design is high because of land, design/permitting, and construction costs.											
GI17	east of Kenosha Regional Airport and west of South Branch Pike River between Co Hwy S and K	532.1 acres	Owner (Private)	532.1 acres (7 parcels) of private cropland within Green Infrastructure Network along South Branch Pike River south of Cty Hwy S; future land use predicted to change to more intense land uses	Incorporate Conservation Design standards into future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Developer	Consultant, WDNR, Somers, Kenosha	10% less than traditional*	When development resumes
<b>OTHER MANAGEMENT MEASURES (see Figure 67)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to implement these projects varies depending on complexity.											
52A	1401 16th Ave, Kenosha	0.8 acres pond; 0.05 acres rain garden	Kenosha (public)	Sam Poerio Park - pond was recently filled, adjacent areas to west would be good rain garden site	Plant demonstration prairie where pond used to be located and a rain garden south of parking lot along swale	TN= 2 lbs/yr, TP = 2 lbs/yr, TSS = 0 tons/yr	High	Kenosha	Consultant, WIN	\$3,000 to design and install prairie; \$7,000 for rain garden design and install	1-10 Years (2014-2024)

# MOUNT PLEASANT

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
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## STREAMBANK & CHANNEL RESTORATION (see Figure 60)

**Technical and Financial Assistance Needs:** Stream restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with stream maintenance is generally low for minor tasks such as removing debris.

Pike River Trib. C (PRTC)	Tributary to Pike River that lies south of Oakes Rd.	2,473 lf	Owners (mostly private)	2,473 lf of stream that is highly channelized and moderately eroded with moderate sediment accumulation	Install grade controls	TN = 98 lbs/yr, TP = 49 lbs/yr, TSS = 49 tons/yr	High	Owner, MP	USACE, Consultant, WDNR, NRCS	\$10,000 to install 5 grade controls	25 Years + (2039+)
North Branch Reach 9 (PR09)	North Branch from just south of State Highway 11, south to State Highway 31	12,024 lf	Owners (mostly private)	12,024 lf of stream with moderate erosion, high channelization, and poor riparian area adjacent to cropland	Remeander stream channel where possible, restore streambanks using bioengineering techniques, improve channel using riffles, and restore existing riparian area	TN= 2,989 lbs/yr, TP = 1,495 lbs/yr, TSS = 1.495 tons/yr	Critical Area	MP, Somers, Farm, Owner	USACE, Consultant, WDNR, NRCS	\$180,000 design/permit; \$1,800,000 install; \$85,000 riparian area	25 Years + (2039+)
Chicory Creek (PRCC)	Tributary to North Branch north of Braun Road	5,517 lf	Owners (private), Sturtevant	5,517 lf of highly channelized and moderately eroded stream with no floodplain connection	Improve channel using riffles	TN = 192 lbs/yr, TP = 96 lbs/yr, TSS = 96 tons/yr	High	MP, Sturtevant	USACE, Consultant, WDNR, NRCS	\$15,000 to install 5 artificial riffles	25 Years + (2039+)
Waxdale Creek (PRWC)	Tributary to North Branch just north of State Highway 11	11,371 lf	Owners (private), Mount Pleasant, Sturtevant, SC Johnson	11,371 lf of moderately channelized and moderately eroded stream with abundant debris jams and no floodplain connection	Remove debris jams and improve channel using riffles at downstream half	TN = 396 lbs/yr, TP = 198 lbs/yr, TSS = 198 tons/yr	High	MP, Sturtevant	USACE, Consultant, WDNR, NRCS	\$10,000 to remove debris jams; \$15,000 to install 5 artificial riffles	10-25 Years (2024-2039)

## RAVINE RESTORATION (see Figure 61)

**Technical and Financial Assistance Needs:** Ravine restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with ravine maintenance is generally low for minor tasks such as removing debris.

Ravine just east of RCOE Park (32B)	east of RCOE Park and Sheridan Rd between Derby Ave and Chicory Rd	440 lf	Owners (Private)	440 lf of heavily eroded ravine east of RCOE Park and draining directly into Lake Michigan; ravine buffer is dominated by invasive shrubs	Design, permit, and implement ravine stabilization project	TN= 438 lbs/yr, TP = 219 lbs/yr, TSS = 219 tons/yr	Critical Area	Owner, MP	USACE, Consultant, WDNR	\$25,000 to design and permit; \$130,000 to install	10-25 Years (2024-2039)
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## BROWNFIELD RESTORATION (see Figure 61)

**Technical and Financial Assistance Needs:** Brownfield restorations are complex and require high technical and financial assistance needs to conduct feasibility studies, ecotoxicology studies, protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences.

Case Brownfield Site (25A)	east of Sheridan Rd and Durand Ave	97 acres	Business (Private, currently for sale)	97 acre former Case site located along Lake Michigan and draining approximately 500 acres; site covered in old paved surfaces	Conduct feasibility study to determine nature of contaminants in soil and water; if feasible, remove asphalt cap and contain underlying contaminated material; naturalize site and restore to native prairie	TN= 1,728 lbs/yr, TP = 235 lbs/yr, TSS = 112 tons/yr	Critical Area	Business, MP	USACE, WDNR, WIN, Consultant	\$100,000 to conduct feasibility study to determine necessary remediation and potential uses; Additional costs dependent on results of feasibility study	1-10 Years (2014-2024)
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## DETENTION BASIN & POND RETROFITS & MAINTENANCE (see Figure 63)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement detention basin retrofits is relatively low while financial assistance needs are moderate. Private landowners will require the greatest assistance.

21C	East of Oakes Road and West of Bradley Road	5.9 acres	Owner (private)	Planned but unbuilt detention basin at headwaters of Tributary C; area is currently dominated by invasive wetland species	Create wetland detention basin and maintain for three years to establish	TN= 298 lbs/yr, TP = 73 lbs/yr, TSS = 42 tons/yr	Critical Area	Owner, Mount Pleasant	Consultant	\$40,000 for design; \$200,000 to construct and plant; \$5,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)
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ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
29A	West of S. Green Bay Rd and South of Braun Road	0.3 acres	Owner (private)	Existing agricultural pond; ag swale flows north around pond and eventually to PR09	Design and implement project to reroute swale to ag pond as a sediment & nutrient trap	TN= 16 lbs/yr, TP = 4 lbs/yr, TSS = 2 tons/yr	Critical Area	Owner, Farm	NRCS	\$40,000 to design, install, and vegetate new swale	1-10 Years (2014-2024)
30A	East of Biscayne Avenue and Northwest of Royal Oaks Drive	1.8 acres	Mount Pleasant	Existing dry bottom detention basin with wetland area to south; dry area of basin is turf grass; turf swale enters from west side; basin services subdivision to north and ag area to south	Design and implement project to plant native prairie vegetation around existing wetland area and swale, then maintain for three years to establish	TN= 91 lbs/yr, TP = 22 lbs/yr, TSS = 13 tons/yr	Critical Area	Mount Pleasant, Owner	Consultant	\$35,000 to design and implement project to remove turf grass and revegetate with native prairie vegetation; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
4A	Northeast of intersection of Emmertsen Rd and Independence Rd	1.9 acres	Heritage Heights HOA	Existing wet bottom detention basin, mowed turf grass to edges	Design and implement project to install a native prairie vegetation buffer and plant emergents along shoreline, and maintain for three years to establish	TN= 48 lbs/yr, TP = 14 lbs/yr, TSS = 5 tons/yr	High	HOA	Mount Pleasant, Consultant	\$17,500 to design & install prairie buffer & emergent plants; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
38D	Northwest corner of Lathrop Ave. and County Line Road, west of Tributary N	2.3 acres	Owner (private)	Existing residential pond with rock toe and turf slopes adjacent to Nelson Creek	Design and implement project to extend green infrastructure adjacent to Nelson Creek by naturalizing the pond buffer	TN= 10 lbs/yr, TP = 2 lbs/yr, TSS = 1 tons/yr	High	Owner	Mount Pleasant, Consultant	\$9,000 to design & install prairie buffer; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

## WETLAND RESTORATION (see Figure 64)

**Technical and Financial Assistance Needs:** Wetland restoration projects are typically complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration.

W01	East of the intersection of Airline and Gittings Roads	22.3 acres	Owner (private)	22.3 acres of drained wetland on private agricultural land at headwaters of Pike River, draining roughly 78 acres; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 76 lbs/yr, TP = 19 lbs/yr, TSS = 13 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$334,500 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W02	Southwest of where Melanie Ln dead ends	23.2 acres	Mount Pleasant, Owners (private)	23.2 acres of drained wetland on agricultural land surrounding headwaters of Bartlett Branch, draining approximately 256 acres; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 130 lbs/yr, TP = 31 lbs/yr, TSS = 14 tons/yr	Critical Area	Mount Pleasant, Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$348,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W11	West of Co. Rd H and Braun Rd	50.3 acres	Owners (private)	50.3 acres of drained wetland on private agricultural land along Lamparek Ditch; future land use not predicted to change, therefore site could potentially be a wetland mitigation bank opportunity	Design, permit, and implement wetland mitigation bank	TN= 435 lbs/yr, TP = 78 lbs/yr, TSS = 50 tons/yr	Critical Area	Owner, MP	USACE, WDNR, Consultant	\$500,000 to design/permit/install/maintain wetland bank; fair market value for purchase land if required	10-25 Years (2024-2039)
W15	South of Hw 11 along Pike River to just south of Braun Rd	113.5 acres	Mount Pleasant, Owners (private)	113.5 acres of drained wetland on private agricultural along Pike River Reach 9; future land use not predicted to change, therefore site could potentially be acquired by the Village of Mount Pleasant in conjunction with ongoing restoration	Incorporate wetland restoration into future stream restoration work along Pike River	TN= 982 lbs/yr, TP = 175 lbs/yr, TSS = 113 tons/yr	Critical Area	Owner, MP	USACE, WDNR, NRCS, Consultant	\$900,000 to design/permit/install/maintain wetland bank; fair market value for purchase land if required	10-25 Years (2024-2039)

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W05	South of St Hwy 11, west of Co Rd. H	33.7 acres	Owners (private)	33.7 acres of drained wetlands on private agricultural land situated at headwaters of Chicory Creek; future land use predicted to be commercial/retail and industrial/business park	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 73 lbs/yr, TP = 12 lbs/yr, 9 tons/yr	High	Owner, Developer, Business	USACE, WDNR, NRCS, WIN, Consultant	\$505,000 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes
W06	Northwest corner of Braun Rd and 105th St.	39.2 acres	Owners (private)	39.2 acres of drained wetlands on private agricultural land situated at headwaters of Chicory Creek; future land use predicted to be industrial/business park	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 84 lbs/yr, TP = 14 lbs/yr, TSS = 10 tons/yr	High	Owner, Developer, Business	USACE, WDNR, NRCS, WIN, Consultant	\$588,000 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes
W08	Southeast of the intersection of Braun Rd and 105th St	44.2 acres	Owners (private)	44.2 acres of drained wetlands on private agricultural land at headwaters of Lamparek Ditch; future land use not predicted to change, therefore site could potentially be a wetland mitigation bank opportunity	Design, permit, and implement wetland mitigation bank	TN= 72 lbs/yr, TP = 12 lbs/yr, TSS = 9 tons/yr	High	Owner, MP	USACE, WDNR, Consultant	\$663,000 to design/permit/install/maintain wetland; fair market value for purchase land if required	25 Years + (2039+)
W10	Southwest of the intersection of Braun Rd and 105th St, north of Prairie View Dr	67.7 acres	Owners (private)	67.7 acres of drained wetlands on private agricultural land at headwaters of Lamparek Ditch; future land use not predicted to change, therefore site could potentially be a wetland mitigation bank opportunity	Design, permit, and implement wetland mitigation bank	TN= 111 lbs/yr, TP = 20 lbs/yr, TSS = 13 tons/yr	High	Owner, MP	USACE, WDNR, Consultant	\$677,000 to design/permit/install/maintain wetland; fair market value for purchase land if required	25 Years + (2039+)
W13	Northwest of the intersection of County Line Road and Co Hwy H	19.3 acres	Owner (private)	19.3 acres of drained wetlands on private agricultural land at headwaters of Lamparek Ditch; future land use not predicted to change, therefore site could potentially be a wetland mitigation bank opportunity	Design, permit, and implement wetland mitigation bank	TN= 32 lbs/yr, TP = 5 lbs/yr, TSS = 4 tons/yr	High	Owner, MP	USACE, WDNR, Consultant	\$289,500 to design/permit/install/maintain wetland; fair market value for purchase land if required	25 Years + (2039+)
W36	Northwest of County Line Rd and St Hwy 32	31.1 acres	Owners (private)	31.1 acres of drained wetlands on private agricultural land in the Direct Drainage area; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 78 lbs/yr, TP = 16 lbs/yr, TSS = 11 tons/yr	High	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$466,500 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes
W37	Southwest of Chicory Rd and St Hwy 33	61.0 acres	Owners (private)	61.0 acres of drained wetlands on private agricultural land in the Direct Drainage area; future land use predicted to be industrial	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 154 lbs/yr, TP = 30 lbs/yr, TSS = 22 tons/yr	High	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$610,000 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes

**RIPARIAN AREA & AGRICULTURAL SWALE RESTORATION & MAINTENANCE (see Figure 65)**

**Technical and Financial Assistance Needs:** Technical assistance needed to implement riparian area restoration and maintenance is moderate at first because an environmental consultant is usually hired to complete a plan and implement the work. However, costs can be greatly reduced over time if municipal or park district staff complete some restoration and most of the long term maintenance in house. Private landowners will require the greatest assistance.

PRTC	Tributary to Pike River from east, between State Hwy 11 and Braun Rd	3.4 acres	Owners (private)	3.4 degraded riparian acres along both banks of Pike River Tributary C (PRTC); buffer along agriculture is nonexistent, the other has riparian area dominated by invasive shrubs and trees	Remove invasive shrubs and trees from existing buffer; install 30 foot wide buffer minimum adjacent to ag field.	TN= 3 lbs/yr, TP = 0 lbs/yr, TSS = 0 tons/yr	Critical Area	Owner, MP	NRCS, Consultant	\$17,000 to remove invasive trees and shrubs and restore buffer; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
PRLD	Tributary to North Branch north of County Line Rd between County Trunk Hwy H and Pike River	19.9 acres	Mount Pleasant, Owners (private)	19.9 degraded riparian acres along both banks of Lamparek Ditch (PRLD)	Improve and expand buffer to 30 feet minimum in agricultural areas; restore degraded riparian area using a natural ecological restoration approach	TN= 19 lbs/yr, TP = 2 lbs/yr, TSS = 1 tons/yr	Critical Area	Owner, Farm	NRCS, Consultant, WIN, MP	\$100,000 to expand and restore buffer; \$7,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
29B	Agricultural swale from St Hwy 31 to pond 29A	3.4 acres	Owner (private)	3.4 acres of non-existent riparian area along agricultural swale	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 3 lbs/yr, TP = 0 lbs/yr, TSS = 0 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN	\$10,200 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
PRWC	Tributary to North Branch just north of State Highway 11	15.7 acres	Owners (private), Mount Pleasant, SC Johnson	15.7 degraded riparian acres along both banks of Waxdale Creek (PRWC)	Remove invasive shrubs and trees from existing buffer; restore degraded riparian area using a natural ecological restoration approach	TN= 13 lbs/yr, TP = 2 lbs/yr, TSS = 1 tons/yr	Critical Area	Owner, MP, Sturtevant	NRCS, Consultant	\$125,600 to install and restore buffer; \$7,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)
PRCC	Tributary to North Branch north of Braun Road	15.6 acres	Owners (private), Sturtevant	15.6 degraded riparian acres along both banks of Chicory Creek (PRCC)	Improve and expand buffer to 30 feet minimum in agricultural areas; restore degraded riparian area using a natural ecological restoration approach	TN= 22 lbs/yr, TP = 3 lbs/yr, TSS = 1 tons/yr	Critical Area	Owner, Farm, HOA	NRCS, Consultant, WIN, Sturtevant, MP	\$46,800 to expand and restore buffer; \$7,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)

### AGRICULTURAL LAND MANAGEMENT (see Figure 66)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement agricultural land management projects is moderate while existing financial incentives need to be leveraged. Farmers renting from absentee landlords will require the greatest assistance.

AG01	north of Braun Rd and west of Co Hwy H	71.6 acres	Owner (Private)	71.6 acres of privately owned cropland located at headwaters of Chicory Creek	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 365 lbs/yr, TP = 186 lbs/yr, TSS = 133 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG03	north of Braun Rd and south of end of Oakes Rd (east of Pike)	72.0 acres	Owner (Private)	72.0 acres of privately owned cropland located off of Pike River near junction of Chicory Creek	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 367 lbs/yr, TP = 187 lbs/yr, TSS = 134 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG04	south of Braun Rd and west of Co Hwy H	79.6 acres	Owner (Private)	79.6 acres of privately owned cropland located at headwaters of Lamparek Ditch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 405 lbs/yr, TP = 207 lbs/yr, TSS = 148 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG05	south of Braun Rd and east of Co Hwy H	76.2 acres	Owner (Private)	76.2 acres of privately owned cropland located at headwaters of Lamparek Ditch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 388 lbs/yr, TP = 198 lbs/yr, TSS = 142 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG06	south of Braun Rd and east of 90th St	75.5 acres	Owner (Private)	75.5 acres of privately owned cropland located along Lamparek Ditch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 384 lbs/yr, TP = 196 lbs/yr, TSS = 140 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG07	south of Braun Rd and east of Canadian Pacific North Railway	115.9 acres	Owner (Private)	115.9 acres of privately owned cropland located along Lamparek Ditch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 590 lbs/yr, TP = 301 lbs/yr, TSS = 216 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG08	north of Kr County Line Rd and west of Co Hwy H	81.2 acres	Owner (Private)	81.2 acres of privately owned cropland located at headwaters of Lamparek Ditch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 414 lbs/yr, TP = 211 lbs/yr, TSS = 151 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG09	north of intersection of Kr County Line Rd and 56th Ave	73.4 acres	Village of Mount Pleasant (Public)	73.4 acres of publicly owned cropland located along Lamparek Ditch	Utilize no-till soil conservation practice	TN= 374 lbs/yr, TP = 191 lbs/yr, TSS = 137 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
N/A	throughout the watershed	3109.9 acres	Owner (Private)	All other cropland parcels of 40 acres or larger in size (59 parcels) located throughout the watershed	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN=11,672 lbs/yr, TP = 5,950 lbs/yr, TSS = 3,953 tons/yr	High	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>PRIORITY GREEN INFRASTRUCTURE PROTECTION AREAS (see Figure 72)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to acquire open space or implement conservation design is high because of land, design/permitting, and construction costs.											
GI01	northeast of intersection of Airline Rd and Spring St	49.4 acres	Owner (Private)	49.4 acres of private cropland within unprotected Green Infrastructure Network	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	High	MP, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available for purchase
GI02	southeast of intersection of Old Spring Rd and Globe Heights Dr; adjacent to Smolenski Park	50.8 acres	Owner (Private)	50.8 acres (8 parcels) of mostly private cropland within unprotected Green Infrastructure Network	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	High	MP, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available for purchase
GI03	east of Sheridan Rd and Durand Ave	97 acres	Owner (Private)	(also, Brownfield 25A) 97 acre former Case site located along Lake Michigan and draining approximately 500 acres	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Owner, MP, Parks	USACE, WDNR, WIN, Consultant	Not Applicable	1-10 Years (2014-2024)
GI06	northwest of intersection of Old Green Bay Rd and Braun Rd	34.4 acres	Owner (Private)	34.4 acres currently in private use as cropland located northeast of the intersection of Old Green Bay Rd and County Highway X	Acquire and restore prairie with trails adjacent to James Turck Park and protect parcel as natural area/open space	Pollutant reduction cannot be assessed via modeling	Critical Area	Owner, MP, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available for purchase
GI07	east of Co Hwy H between Braun Rd and KR County Line Rd	284.2 acres	Owner (Private)	284.2 acres (5 parcels) of private cropland in unprotected Green Infrastructure Network	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	High	Owner, MP, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available for purchase



# RACINE

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>BROWNFIELD RESTORATION (see Figure 61)</b>											
<b>Technical and Financial Assistance Needs:</b> Stream restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with stream maintenance is generally low for minor tasks such as removing debris.											
Clark Street Brownfield (16A)	west side of Clark Street between 14th St and 15th St	2.3 acres	Business (private)	Vacant lot along west side of Clark Street between 14th St and 15th St in Racine; abuts railroad tracks and consists of spotty areas of turf grass and bare dirt	Enhance existing soil as needed; restore to native prairie	TN= 87 lbs/yr, TP = 8 lbs/yr, TSS = 6 tons/yr	High	Business, Racine	USACE, WDNR, WIN, Consultant	\$18,400 to amend and add to soil and restore to prairie	10-25 Years (2024-2039)
Phillips Ave Brownfield (16C)	intersection of 18th St and Phillips Ave	15.3 acres	Racine, Developer (Private)	At intersection of 18th St and Phillips Ave in Racine; spotty grass, bare dirt and depressional area	Enhance existing soil as needed; restore to native prairie	TN= 218 lbs/yr, TP = 27 lbs/yr, TSS = 16 tons/yr	High	Developer, Racine	USACE, WDNR, WIN, Consultant	\$122,400 to amend and add to soil and restore to prairie	1-10 Years (2014-2024)
18th Street Brownfield (16D)	Northeast of intersection of Taylor Ave and 18th St	1.7 acres	Racine County, Developer (Private)	Northeast of intersection of Taylor Ave and 18th St; bare grass and areas of old concrete	Enhance existing soil as needed; restore to native prairie	TN= 71 lbs/yr, TP = 9 lbs/yr, TSS = 6 tons/yr	High	Developer, Racine County	USACE, WDNR, WIN, Consultant	\$13,600 to amend and add to soil and restore to prairie	10-25 Years (2024-2039)
<b>DETENTION BASIN &amp; POND RETROFITS &amp; MAINTENANCE (see Figure 63)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical assistance needed to implement detention basin retrofits is relatively low while financial assistance needs are moderate. Private landowners will require the greatest assistance.											
32A	Stephen F Olsen Industrial Park	8.0 acres	Business (private)	Large industrial area lacking detention but with ample space to accommodate a large wetland detention basin	Create wetland detention basin and maintain for three years to establish	TN= 550 lbs/yr, TP = 130 lbs/yr, TSS = 94 tons/yr	Critical Area	Business, Developer	Racine, Consultant	\$30,000 for design; \$150,000 to construct and plant; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
23A	Southwest corner of Ohio St. and 21st St.	1.8 acres	Racine County	Existing wet bottom detention basin with gravel side slopes and no water quality function	Design and implement project to remove gravel install a native prairie vegetation buffer and plant emergents along shoreline, and maintain for three years to establish	TN= 29 lbs/yr, TP = 7 lbs/yr, TSS = 5 tons/yr	High	Racine County	Racine, Consultant	\$30,000 to design & install prairie buffer & emergent plants; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
<b>RIPARIAN AREA &amp; AGRICULTURAL SWALE RESTORATION &amp; MAINTENANCE (see Figure 65)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical assistance needed to implement riparian area restoration and maintenance is moderate at first because an environmental consultant is usually hired to complete a plan and implement the work. However, costs can be greatly reduced over time if municipal or park district staff complete some restoration and most of the long term maintenance in house. Private landowners will require the greatest assistance.											
PRTB	Tributary to Pike River, north of State Highway 11 and west of Oakes Rd	3.6 acres	American Transmission Co., Republic Services of WI	3.6 degraded riparian acres along both banks of Pike River Tributary B (PRTB)	Increase buffer to 30 feet where appropriate and restore degraded riparian area using a natural ecological restoration approach	TN= 9 lbs/yr, TP = 1 lbs/yr, TSS = 1 tons/yr	Critical Area	American Transmission Co., Republic Services of WI	NRCS	\$18,000 to install and restore buffer; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
<b>OTHER MANAGEMENT MEASURES (see Figure 67)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to implement these projects varies depending on complexity.											
24B	west of South Memorial Dr (and south of Sheridan Woods Park)	15.7 acres	Racine (public)	prairie restoration with inter-mixed wetland communities	Prepare monitoring, maintenance, and possible over-seeding plan	N/A	High	Racine	Consultant	\$20,000 for five year maintenance and monitoring plan and implementation	1-10 Years (2014-2024)
24A	Case-Harmon Field at intersection of James Blvd and Hamilton Ave	1.5 acres	Racine (public)	Park with unused depressional area on south end	Depressional area could potentially store stormwater runoff and be naturalized with prairie and wetland vegetation	TN= 1 lbs/yr, TP = 1 lbs/yr, TSS = 0 tons/yr	High	Racine	Consultant, WIN	\$8,000 to restore vegetation; \$2,000/yr maintenance for 3 years to establish	1-10 Years (2014-2024)

# SOMERS

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>STREAMBANK &amp; CHANNEL RESTORATION (see Figure 60)</b>											
<b>Technical and Financial Assistance Needs:</b> Stream restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with stream maintenance is generally low for minor tasks such as removing debris.											
North Branch Reach 10 (PR10)	North Branch from State Highway 31 to County Trunk Highway A	6,277 lf	Owners (private)	6,277 lf of stream with sporadic areas of highly eroded streambanks and heavy debris jams; riparian area is dominated by invasive trees	Selectively restore streambanks using bioengineering techniques and improve channel using riffles; remove problematic debris jams; selectively remove invasive trees	TN= 1,537 lbs/yr, TP = 768 lbs/yr, TSS = 768 tons/yr	Critical Area	Somers, Farm, Owner	USACE, Consultant, WDNR, NRCS	\$30,000 design/permit; \$160,000 install and debris jam removal; \$35,000 tree removal	10-25 Years (2024-2039)
Pike River Reach 11 (PR11)	Pike River within Petrifying Springs Park from County Trunk Highway A to park boundary or junction of Pike River Tributary D	8,154 lf	Petrifying Springs Park (public)	8,154 lf of stream with moderately eroded banks within Petrifying Springs Park; riparian area dominated by many invasive trees	Selectively restore streambanks using bioengineering techniques; remove problematic debris jams; selectively remove invasive trees	TN= 1,054 lbs/yr, TP = 527 lbs/yr, TSS = 527 tons/yr	Critical Area	Parks	USACE, Consultant, WDNR	\$35,000 design/permit; \$200,000 install and debris jam removal; \$30,000 tree removal	10-25 Years (2024-2039)
South Branch Pike River Reach 5 (PC05)	South Branch Pike River from junction of Somers Branch tributary north to boundary of Hawthorn Hollow	4,010 lf	Owners (private)	4,010 lf of stream just south of Hawthorn Hollow with isolated highly eroded streambanks, moderate debris jams and abundance of invasive trees in floodplain	Selectively restore highly eroded streambanks using combination of hard armoring and bioengineering techniques and improve channel using riffles; selectively remove invasive trees and shrubs from floodplain areas	TN= 859 lbs/yr, TP = 429 lbs/yr, TSS = 429 tons/yr	Critical Area	Somers, Owner	USACE, Consultant, WDNR	\$60,000 design/permit; \$400,000 install and debris jam removal; \$50,000 tree removal	10-25 Years (2024-2039)
South Branch Pike River Reach 6 (PC06)	South Branch Pike River from northern boundary to Hawthorn Hollow north to junction of South Branch Pike River and Pike River	2,843 lf	Owners (private)	2,843 lf of stream just north of Hawthorn Hollow with isolated highly eroded streambanks, moderate debris jams and abundance of invasive trees and shrubs in floodplain.	Selectively restore highly eroded streambanks using combination of hard armoring and bioengineering techniques; selectively remove invasive trees and shrubs from floodplain areas	TN= 532 lbs/yr, TP = 266 lbs/yr, TSS = 266 tons/yr	Critical Area	Owner, Hawthorn Hollow, Somers	USACE, Consultant, WDNR	\$30,000 design/permit; \$175,000 install and debris jam removal; \$35,000 tree removal	1-10 Years (2014-2024)
South Branch Pike River Hawthorn Hollow Reach (PCHH)	South Branch Pike River within Hawthorn Hollow Nature Sanctuary	2,276 lf	Hawthorn Hollow	2,276 lf of stream within Hawthorn Hollow with highly eroded streambanks, moderate debris jams and some floodplain connection	Selectively restore highly eroded streambanks using combination of hard armoring and bioengineering techniques and improve channel using riffles; selectively remove invasive trees and shrubs from floodplain areas	TN= 487 lbs/yr, TP = 244 lbs/yr, TSS = 244 tons/yr	Critical Area	Hawthorn Hollow, Somers	USACE, Consultant, WDNR	\$35,000 design/permit; \$250,000 install and debris jam removal; \$40,000 tree removal	1-10 Years (2014-2024)
Pike River Reach 12 (PR12)	Pike River from Petrifying Springs to 7th Street	5,557 lf	University of Wisconsin	5,557 lf of with isolated highly eroded streambanks; riparian area dominated by many invasive trees	Selectively restore streambanks using bioengineering techniques; selectively remove invasive trees	TN = 442 lbs/yr, TP = 221 lbs/yr, TSS = 221 tons/yr	High	University of Wisconsin, Somers	USACE, Consultant, WDNR, NRCS	\$30,000 design/permit; \$140,000 install; \$30,000 tree removal	25 Years + (2039+)
South Branch Pike River Reach 4 (PC04)	South Branch Pike River from just north of State Highway 158 at junction of Airport Branch, north to junction of South Branch Pike River and Somers Branch	20,004 lf	Owners (mostly private)	20,004 lf of stream south of County Highway E to Airport Branch with highly channelized and moderately eroded streambanks, moderate debris jams and spoil piles/berms prevent floodplain connection	Design, permit, and construct breaks along west spoil pile/berm to allow for additional flood storage and water quality improvement. Note: these should be done in conjunction with adjacent recommended wetland restoration sites. Selectively restore highly eroded streambanks using combination of hard armoring and bioengineering techniques and improve channel using riffles; selectively remove invasive trees and shrubs from floodplain areas	TN = 2,387 lbs/yr, TP = 1,194 lbs/yr, TSS = 1,194 tons/yr	Critical Area	Owner, Somers, Kenosha	USACE, Consultant, WDNR, NRCS	Cost for breaking berms and connecting to wetland restoration areas is to be determined. \$100,000 design/permit; \$2,000,000 install and debris jam removal; \$100,000 tree removal	1-10 Years (2014-2024)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
South Branch Pike River Reach 3 (PC03)	South Branch Pike River from County Trunk Highway K north to Airport Branch	4,245 lf	Owners (private)	4,245 lf of highly channelized and moderately eroded stream with many fallen trees in channel; spoil piles/berms present on both sides of channel, blocking floodplain connection	Improve channel using riffles and grade controls. Design, permit, and construct breaks in spoil pile/berm at upper end of reach to allow for additional flood storage and water quality improvement. Note: these should be done in conjunction with adjacent recommended wetland restoration site.	TN = 464 lbs/yr, TP = 232 lbs/yr, TSS = 232 tons/yr	High	Somers, Kenosha	USACE, Consultant, WDNR	Cost for breaking berms and connecting to wetland restoration areas is to be determined. \$15,000 to install 5 artificial riffles	25 Years + (2039+)
North Branch Reach 9 (PR09)	North Branch from just south of State Highway 11, south to State Highway 31	12,024 lf	Owners (mostly private)	12,024 lf of stream with moderate erosion, high channelization, and poor riparian area adjacent to cropland	Remeander stream channel where possible, restore streambanks using bioengineering techniques, improve channel using riffles, and restore existing riparian area	TN= 2,989 lbs/yr, TP = 1,495 lbs/yr, TSS = 1.495 tons/yr	Critical Area	MP, Somers, Farm, Owner	USACE, Consultant, WDNR, NRCS	\$180,000 design/permit; \$1,800,000 install; \$85,000 riparian area	25 Years + (2039+)
<b>RAVINE RESTORATION (see Figure 61)</b>											
<b>Technical and Financial Assistance Needs:</b> Ravine restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with ravine maintenance is generally low for minor tasks such as removing debris.											
Ravine east of Lakeshore Dr (39A)	southeast of County Line Rd and State Highway 32	1,359 lf	Owners (Private)	1,359 lf of heavily eroded ravine east of Lakeshore Dr and draining directly into Lake Michigan; ravine buffer is dominated by invasive shrubs	Design, permit, and implement ravine stabilization project	TN= 1,334 lbs/yr, TP = 667 lbs/yr, TSS = 667 tons/yr	Critical Area	Owner, Somers	USACE, Consultant, WDNR	\$50,000 to design and permit; \$350,000 to install	1-10 Years (2014-2024)
South Branch Pike River Reach 5 Ravine (42H)	south of Hawthorn Hollow Nature Sanctuary west of South Branch Pike River Reach 5	394 lf	Owner (Private)	394 lf of steep and heavily eroded ravine draining a wetland west of Hawthorn Hollow into South Branch Pike River	Design, permit, and implement ravine stabilization project	TN= 422 lbs/yr, TP = 211 lbs/yr, TSS = 211 tons/yr	Critical Area	Owner, Somers	USACE, Consultant, WDNR	\$15,000 to design and permit; \$75,000 to install	10-25 Years (2024-2039)
School Tributary Ravine (42G)	north of Hawthorn Hollow Nature Sanctuary west of the mouth of School Tributary	423 lf	Owners (Private)	423 lf of heavily eroded ravine north of Hawthorn Hollow draining cropland into School Tributary	Design, permit, and implement ravine stabilization project	TN= 324 lbs/yr, TP = 162 lbs/yr, TSS = 162 tons/yr	Critical Area	Owner, Somers	USACE, Consultant, WDNR	\$30,000 to design and permit; \$150,000 to install	25 Years + (2039+)
Hawthorn Hollow Ravine (42F)	within Hawthorn Hollow Nature Sanctuary west of PCHH	639 lf	Hawthorn Hollow	639 lf of moderately eroded ravine located off the west bank of South Branch Pike River Hawthorn Hollow reach (PCHH) and drains an adjacent agricultural field	Design, permit, and implement ravine stabilization project	TN = 109 lbs/yr, TP = 54 lbs/yr, TSS = 54 tons/yr	High	Hawthorn Hollow	USACE, Consultant, WDNR	\$15,000 to design and permit; \$70,000 to install	10-25 Years (2024-2039)
<b>DETENTION BASIN &amp; POND RETROFITS &amp; MAINTENANCE (see Figure 63)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical assistance needed to implement detention basin retrofits is relatively low while financial assistance needs are moderate. Private landowners will require the greatest assistance.											
37D	Northeast of 39th Avenue and South of 38th Avenue	5.0 acres	Owner (private)	Large residential pond that likely functions as a detention basin for surrounding upper-scale development; most of surrounding buffer is mowed turf	Design and implement project to install a native prairie vegetation buffer, and maintain for three years to establish	TN= 172 lbs/yr, TP = 50 lbs/yr, TSS = 18 tons/yr	Critical Area	Owner	Somers, Consultant	\$16,500 to design & install prairie buffer; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
51I	Corner of 22nd Avenue and Co. Hwy E	3.6 acres	Carrington Court HOA	Existing detention basin at headwaters of Tributary M; slopes are mowed turf grass; goose dropping abundant; erosion is beginning at toe of slope	Design and implement project to install a native prairie vegetation buffer, regrade eroded toe, and plant emergents along shoreline, and maintain for three years to establish	TN= 124 lbs/yr, TP = 36 lbs/yr, TSS = 13 tons/yr	Critical Area	HOA	Somers, Consultant	\$60,000 to design, regrade, install and vegetate; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
59A	Northeast of intersection of 38th St and 96th Ave	5.3 acres	Owner (private)	Large pond in cropland draining surrounding cropland and residential areas; non-existent buffer width and quality	Design and implement project to extend the buffer around the pond and surrounding swales	TN= 143 lbs/yr, TP = 26 lbs/yr, TSS = 17 tons/yr	Critical Area	Owner, Somers	NRCS	\$25,000 to design & install prairie buffers	10-25 Years (2024-2039)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
45A	Within defunct development Southeast of the intersection of Co. Hwy A and Co. Hwy Y	0.3 acres	Golf Glen Estates HOA	Existing wet bottom detention basin, mowed turf grass to edges; at headwater of Tributary J	Design and implement project to install a native prairie vegetation buffer and plant emergents along shoreline, and maintain for three years to establish	TN= 40 lbs/yr, TP = 12 lbs/yr, TSS = 4 tons/yr	High	HOA	Somers, Consultant	\$5,000 to design & install prairie buffer & emergent plants; \$1,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
50C, D	East of State Hwy 31 and at the end of 16th Place dead end road	2 @ 1.3 acres	Owner (private)	Existing ponds at headwater of Tributary D; buffer is mostly mowed turf grass	Design and implement project to extend green infrastructure by naturalizing the pond buffer and emergent areas	TN= 18 lbs/yr, TP = 5 lbs/yr, TSS = 2 tons/yr	High	Owner	Somers, Consultant	\$22,000 to design, install prairie buffer and emergents; \$2,000/year maintenance for 3 year establishment period	25 Years + (2039+)
50E	West of residential units along 48th Ct.	0.9 acres	Owner (private)	Existing wet bottom detention basin adjacent to oak woodland; some erosion at toe; slopes mowed turf grass	Design and implement project to extend green infrastructure by naturalizing the pond buffer and emergent areas	TN= 23 lbs/yr, TP = 7 lbs/yr, TSS = 2 tons/yr	High	Owner	Somers, Consultant	\$9,500 to design, install prairie buffer and emergents; \$2,000/year maintenance for 3 year establishment period	25 Years + (2039+)
<b>WETLAND RESTORATION (see Figure 64)</b>											
<b>Technical and Financial Assistance Needs:</b> Wetland restoration projects are typically complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration.											
W16	South of County Line Road, West of 100th Ave and north of Co. Hwy A	27.7 acres	Owners (private)	27.7 acres of drained wetland on private agricultural land at headwaters of School Tributary draining approximately 288 acres; future land use not predicted to change, therefore site could potentially be a wetland mitigation bank opportunity	Design, permit, and implement wetland mitigation bank	TN= 138 lbs/yr, TP = 23 lbs/yr, TSS = 17 tons/yr	Critical Area	Owner, Somers	USACE, WDNR, Consultant	\$415,500 to design/permit/install/maintain wetland; fair market value for purchase land if required	10-25 Years (2024-2039)
W17	South of Co. Hwy A, West of H and north of E	52.0 acres	Owners (private)	52.0 acres of drained wetland on private agricultural along Somers Branch Tributary A; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 203 lbs/yr, TP = 35 lbs/yr, TSS = 24 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$520,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W18	South of Co Hwy A and approximately 300' west of railroad tracks	29.9 acres	Owners (private)	29.9 acres of drained wetland on private agricultural along Somers Branch Tributary A; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 117 lbs/yr, TP = 20 lbs/yr, TSS = 14 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$300,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W19	East of railroad tracks, south of Co Hwy A and west of Co Hwy Ea (72nd Ave)	39.8 acres	Owners (private)	39.8 acres of drained wetland on private agricultural along Somers Branch Tributary A; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 156 lbs/yr, TP = 27 lbs/yr, TSS = 18 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$400,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W23	West of railroad tracks and south of Lichter Road (18th St)	38.7 acres	Owners (private)	38.7 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be residential and open space	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 524 lbs/yr, TP = 120 lbs/yr, TSS = 83 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$580,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W24	East of railroad tracks and south of Lichter Road (18th St), north of 31st St	93.1 acres	Owners (private)	93.1 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be open space and industrial/business park	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=1,264 lbs/yr, TP = 291 lbs/yr, TSS = 202 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$930,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W25	West of Highway H and North of St Hwy 142	21.0 acres	Owners (private)	21.0 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be industrial/business park	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=284 lbs/yr, TP = 65 lbs/yr, TSS = 45 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$315,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
W28	West of railroad tracks, north of St Hwy 142 and outh of 31st St	74.9 acres	Owners (private)	74.9 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be open space and industrial/business park	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=1,018 lbs/yr, TP = 234 lbs/yr, TSS = 162 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$750,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W29	On either side of railroad tracks south of St Hwy 142	27.0 acres	Owners (private), Kenosha	27.0 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be industrial	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=364 lbs/yr, TP = 83 lbs/yr, TSS = 58 tons/yr	Critical Area	Owner, Kenosha, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$405,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W31	North of St Hwy K, south of Co Hwy 158 and adjacent to South Branch Pike River	40.6 acres	Owner (private)	40.6 acres of drained wetland on private agricultural along South Branch Pike River; future land use predicted to be industrial	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=550 lbs/yr, TP = 126 lbs/yr, TSS = 87 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$609,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W26	Southwest of Lichter Rd and 100th Ave	24.5 acres	Owners (private)	24.5 acres of drained wetland on private agricultural land west of South Branch Pike River; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 120 lbs/yr, TP = 22 lbs/yr, TSS = 14 tons/yr	High	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$367,500 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes
W27	Northwest of the intersection of Co Hwy S and Co Hwy Ea	42.1 acres	Owners (private)	42.1 acres of drained wetland on private agricultural land west of South Branch Pike River; future land use predicted to be industrial	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 206 lbs/yr, TP = 37 lbs/yr, TSS = 25 tons/yr	High	Owner, Business	USACE, WDNR, NRCS, WIN, Consultant	\$631,500 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes

### RIPARIAN AREA & AGRICULTURAL SWALE RESTORATION & MAINTENANCE (see Figure 65)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement riparian area restoration and maintenance is moderate at first because an environmental consultant is usually hired to complete a plan and implement the work. However, costs can be greatly reduced over time if municipal or park district staff complete some restoration and most of the long term maintenance in house. Private landowners will require the greatest assistance.

PCST	Tributary to Pike River north of County Trunk Hwy A between County Trunk Hwy H and Pike River	25.0 acres	Owners (private)	25.0 degraded riparian acres along both banks of School Tributary (PCST)	Improve and expand buffer to 30 feet minimum in agricultural areas; restore degraded riparian area using a natural ecological restoration approach	TN= 23 lbs/yr, TP = 2 lbs/yr, TSS = 1 tons/yr	Critical Area	Owner, Farm	NRCS, Consultant, WIN, Somers	\$75,000 to expand and restore buffer; \$10,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)
PCTR	Tributary to South Branch Pike River from 100th Ave to County Trunk Hwy L	10.9 acres	Owners (private)	10.9 degraded riparian acres along both banks of South Branch Pike River Tributary R	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 11 lbs/yr, TP = 1 lbs/yr, TSS = 1 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN, Somers	\$33,000 to expand and restore buffer; \$7,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
PCTQ	Tributary to South Branch Pike River just south of intersection of County Trunk Hwy L and EA	6.4 acres	Owners (private)	6.4 degraded riparian acres along both banks of Pike River Tributary Q	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 6 lbs/yr, TP = 1 lbs/yr, TSS = 0 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN, Somers	\$20,000 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
PCSBA	Tributary to Somers Branch south of Co Hwy A between Co Hwy H and EA	8.7 acres	Owners (private)	8.7 degraded riparian acres along both banks of Somers Branch Tributary A	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 8 lbs/yr, TP = 1 lbs/yr, TSS = 1 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN, Somers	\$26,000 to expand and restore buffer; \$5,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
PC03	South Branch Pike River from County Trunk Highway K north to Airport Branch	5.8 acres	Owners (private)	5.8 degraded riparian acres along both banks of South Branch Pike River Reach 3	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach; remove woody invasives	TN= 6 lbs/yr, TP = 0 lbs/yr, TSS = 0 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN, Kenosha, Somers	\$34,800 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
PC04	South Branch Pike River from just north of State Highway 158 at junction of Airport Branch, north to junction of South Branch Pike River and Somers Branch	27.6 acres	Somers, Owners (private)	27.6 degraded riparian acres along both banks of South Branch Pike River Reach 4	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 29 lbs/yr, TP = 3 lbs/yr, TSS = 2 tons/yr	High	Somers, Owner, Farm	NRCS, Consultant, WIN, Kenosha, Somers	\$193,200 to expand and restore buffer; \$10,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)
60B	Agricultural swale from pond 59A to Airport Branch	9.6 acres	Owner (private)	9.6 acres of non-existent riparian area along agricultural swale	Improve and expand buffer to 30 feet minimum where possible; restore degraded riparian area using a natural ecological restoration approach	TN= 9 lbs/yr, TP = 1 lbs/yr, TSS = 1 tons/yr	High	Owner, Farm	NRCS, Consultant, WIN	\$29,000 to expand and restore buffer; \$5,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

### AGRICULTURAL LAND MANAGEMENT (see Figure 66)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement agricultural land management projects is moderate while existing financial incentives need to be leveraged. Farmers renting from absentee landlords will require the greatest assistance.

AG10	southeast of intersection of Kr County Line Rd and Co Hwy H	151.5 acres	Owner (Private)	151.5 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 647 lbs/yr, TP = 330 lbs/yr, TSS = 226 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG11	southwest of intersection of Kr County Line Rd and 72nd Ave	135.2 acres	Owner (Private)	135.2 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 577 lbs/yr, TP = 294 lbs/yr, TSS = 202 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG12	southwest of intersection of Kr County Line Rd and Canadian Pacific North Railway	74.3 acres	Owner (Private)	74.3 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 317 lbs/yr, TP = 162 lbs/yr, TSS = 111 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG13	southwest of intersection of Kr County Line Rd and 56th Ave	78.6 acres	Owner (Private)	78.6 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 336 lbs/yr, TP = 171 lbs/yr, TSS = 117 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG14	northeast of intersection of Co Hwy A and 100th Ave	84.3 acres	Owner (Private)	84.3 acres of privately owned cropland located at headwaters of School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 360 lbs/yr, TP = 184 lbs/yr, TSS = 126 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG15	northeast of intersection of Co Hwy A and 88th Ave	78.2 acres	Owner (Private)	78.2 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 334 lbs/yr, TP = 170 lbs/yr, TSS = 117 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG16	northwest of intersection of Co Hwy A and Canadian Pacific North Railway	74.4 acres	Owner (Private)	74.4 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 318 lbs/yr, TP = 162 lbs/yr, TSS = 111 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG17	northwest of intersection of Co Hwy A and EA	75.3 acres	Owner (Private)	75.3 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 321 lbs/yr, TP = 164 lbs/yr, TSS = 112 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG18	northeast of intersection of Co Hwy A and EA	99.5 acres	Owner (Private)	99.5 acres of privately owned cropland located along School Tributary	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 425 lbs/yr, TP = 217 lbs/yr, TSS = 149 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
AG19	southwest of intersection of Co Hwy A and H	98.5 acres	Owner (Private)	98.5 acres of privately owned cropland situated at headwaters of Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 428 lbs/yr, TP = 218 lbs/yr, TSS = 151 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG20	southwest of intersection of Co Hwy A and Canadian Pacific North Railway	77.7 acres	Owner (Private)	77.7 acres of privately owned cropland situated along Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 338 lbs/yr, TP = 172 lbs/yr, TSS = 119 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG21	southwest of intersection of Co Hwy A and 72nd Ave	154.7 acres	Owner (Private)	154.7 acres of privately owned cropland situated along Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 673 lbs/yr, TP = 343 lbs/yr, TSS = 236 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG22	off of Co Hwy EA, south of Co Hwy A	73.9 acres	Owner (Private)	73.9 acres of privately owned cropland situated along Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 322 lbs/yr, TP = 164 lbs/yr, TSS = 113 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG23	west of Union Pacific North Railway and north of Co Hwy E	89.4 acres	Owner (Private)	89.4 acres of privately owned cropland located east of the main stem of Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 479 lbs/yr, TP = 244 lbs/yr, TSS = 177 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG24	northeast of intersection of Co Hwy E and 100th Ave	140.3 acres	Owner (Private)	140.3 acres of privately owned cropland situated at headwaters of Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 611 lbs/yr, TP = 311 lbs/yr, TSS = 215 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG25	northwest of intersection of Co Hwy E and EA	77.5 acres	Owner (Private)	77.5 acres of privately owned cropland situated along Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 337 lbs/yr, TP = 172 lbs/yr, TSS = 118 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG26	northeast of intersection of Co Hwy E and EA	88.4 acres	Owner (Private)	88.4 acres of privately owned cropland situated along Somers Branch	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 385 lbs/yr, TP = 196 lbs/yr, TSS = 135 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG27	northeast of intersection of Lichter Rd and 100th Ave	75.6 acres	Owner (Private)	75.6 acres of privately owned cropland located at headwaters of South Branch Pike River Tributary R (PCTR)	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 298 lbs/yr, TP = 152 lbs/yr, TSS = 102 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG28	northeast of intersection of Lichter Rd and Co Hwy H	74.8 acres	Owner (Private)	74.8 acres of privately owned cropland located along South Branch Pike River Tributary R (PCTR)	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 295 lbs/yr, TP = 150 lbs/yr, TSS = 101 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG29	northwest of intersection of Lichter Rd and St Hwy 31	86.9 acres	Owner (Private)	86.9 acres of privately owned cropland located east of South Branch Pike River, near junction of South Branch Pike River Tributary S (PCTS)	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 342 lbs/yr, TP = 174 lbs/yr, TSS = 117 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG30	southeast of intersection of Lichter Rd and Co Hwy H	77.4 acres	Owner (Private)	77.4 acres of privately owned cropland located at headwaters of South Branch Pike River Tributary Q (PCTQ)	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 305 lbs/yr, TP = 155 lbs/yr, TSS = 104 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG31	southwest of intersection of Lichter Rd and Co Hwy EA	155.1 acres	Owner (Private)	155.1 acres of privately owned cropland located along South Branch Pike River Tributary Q (PCTQ)	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 610 lbs/yr, TP = 311 lbs/yr, TSS = 209 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
AG32	southeast of intersection of Lichter Rd and Canadian Pacific North Railway	100.0 acres	Owner (Private)	100.0 acres of privately owned cropland located east of South Branch Pike River, near junction of South Branch Pike River Tributary Q (PCTQ)	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 394 lbs/yr, TP = 201 lbs/yr, TSS = 135 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG33	south of Lichter Rd and east of 100th Ave	80.3 acres	Owner (Private)	80.3 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 316 lbs/yr, TP = 161 lbs/yr, TSS = 108 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG34	west off of Co Hwy H, south of Lichter Rd	83.8 acres	Owner (Private)	83.8 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 330 lbs/yr, TP = 168 lbs/yr, TSS = 113 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG35	east off of Co Hwy H, south of Lichter Rd	117.7 acres	Owner (Private)	117.7 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 463 lbs/yr, TP = 236 lbs/yr, TSS = 159 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG36	east off of Co Hwy EA, south of Lichter Rd	79.6 acres	Owner (Private)	79.6 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 313 lbs/yr, TP = 160 lbs/yr, TSS = 107 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG37	south of Lichter Rd, between 72nd Ave and St Hwy 31	75.3 acres	Owner (Private)	75.3 acres of privately owned cropland located mostly east of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 297 lbs/yr, TP = 151 lbs/yr, TSS = 102 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG38	south of Lichter Rd and east of 100th Ave	74.4 acres	Owner (Private)	74.4 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 293 lbs/yr, TP = 149 lbs/yr, TSS = 100 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG39	northeast of intersection of Co Hwy H and S	189.9 acres	Owner (Private)	189.9 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 748 lbs/yr, TP = 381 lbs/yr, TSS = 256 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG40	east off of Co Hwy EA, south of Lichter Rd	108.0 acres	Owner (Private)	108.0 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 425 lbs/yr, TP = 217 lbs/yr, TSS = 146 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG41	northwest of intersection Co Hwy S and EA	73.9 acres	Owner (Private)	73.9 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 291 lbs/yr, TP = 148 lbs/yr, TSS = 100 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG42	northeast of intersection Co Hwy S and EA	96.1 acres	Owner (Private)	96.1 acres of privately owned cropland located east of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 378 lbs/yr, TP = 193 lbs/yr, TSS = 130 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG43	southeast of intersection Co Hwy S and H	148.2 acres	Owner (Private)	148.2 acres of privately owned cropland located west of South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 583 lbs/yr, TP = 297 lbs/yr, TSS = 200 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG45	north off of Co Hwy K and west of Canadian Pacific North Railway	105.2 acres	Owner (Private)	105.2 acres of privately owned cropland located along South Branch Pike River	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 414 lbs/yr, TP = 211 lbs/yr, TSS = 142 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)



ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>PRIORITY GREEN INFRASTRUCTURE PROTECTION AREAS (see Figure 72)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to acquire open space or implement conservation design is high because of land, design/permitting, and construction costs.											
GI08	between KR County Line Rd and 7th St and from the western watershed border and South Branch Pike River	802 acres	Owner (Private)	802 acres (9 parcels) of private cropland within Green Infrastructure Network along School Tributary; future land use predicted to change to more intense land uses	Incorporate Conservation Design standards into future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Developer	Consultant, WDNR, Somers	10% less than traditional*	When development resumes
GI09	south of 7th St from the western watershed border and South Branch Pike River	668.9 acres	Owner (Private)	668.9 acres (13 parcels) of private cropland within Green Infrastructure Network along Somers Branch; future land use predicted to change to more intense land uses	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Developer	Consultant, WDNR, Somers	10% less than traditional*	When development resumes
GI10	southeast of intersection of 7th St and of Canadian Pacific North Railway	40.4 acres	Owner (Private)	40.4 acres of private cropland immediately west of Hawthorn Hollow	Acquire, naturalize, and protect parcel as natural area/open space	Pollutant reduction cannot be assessed via modeling	Critical Area	Owner, Hawthorn Hollow	Consultant, WDNR, Somers	Not Applicable	When parcel(s) become available for purchase
GI11	northeast of intersection of 7th St and 13th Ave	11.3 acres	Owner (Private)	11.3 acres of private land owned by the HoChunk Nation within the Green Infrastructure Network	Acquire (in process of being acquired and will be doing a wetland restoration and naturalize and and recreational trails etc)	Pollutant reduction cannot be assessed via modeling	High	Owner, Somers	Consultant, USACE, WDNR, Somers	Not Applicable	When parcel(s) become available for purchase
GI12	west of Union Pacific North Railway and north of Co Hwy E	255.4 acres	Owner (Private)	4 agricultural parcels to the east of the main branch of Pike River between County Highways A and E	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	High	Owner, Somers	Consultant, USACE, WDNR, Somers	Not Applicable	When parcel(s) become available for purchase
GI13	just north of intersection of Co Hwy E and 80th Ave	7.9 acres	Somers	Neumiller Woods - 7.9 acre site within the Green Infrastructure Network recently acquired by the Town of Somers	Naturalize and protect parcel as natural area/open space	Pollutant reduction cannot be assessed via modeling	High	Somers	Consultant, WDNR, Parks	Not Applicable	When parcel(s) become available for purchase
GI14	just northeast of intersection of Co Hwy E and 80th Ave	23.9 acres	Somers	Gitzlaff - 23.9 acre site within the Green Infrastructure Network recently acquired by the Town of Somers	Naturalize and protect parcel as natural area/open space	Pollutant reduction cannot be assessed via modeling	High	Somers	Consultant, WDNR, Parks	Not Applicable	When parcel(s) become available for purchase
GI15	roughly along Lichter Rd between the western watershed border and South Branch Pike River	669.7 acres	Owner (Private)	669.7 acres (13 parcels) of private cropland within Green Infrastructure Network along PCTR & PCTQ west of Cty Hwy EA; future land use predicted to change to more intense land uses	Incorporate Conservation Design standards into future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Developer	Consultant, WDNR, Somers	10% less than traditional*	When development resumes
GI116	east of South Branch Pike River between Lichter Rd and Co Hwy S	431.7 acres	Owner (Private)	431.7 acres (7 parcels) of private cropland within Green Infrastructure Network along South Branch between 18th St & Cty Hwy S; future land use predicted to change to more intense uses	Incorporate Conservation Design standards into future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Developer	Consultant, WDNR, Somers	10% less than traditional*	When development resumes
GI17	east of Kenosha Regional Airport and west of South Branch Pike River between Co Hwy S and K	532.1 acres	Owner (Private)	532.1 acres (7 parcels) of private cropland within Green Infrastructure Network along South Branch Pike River south of Cty Hwy S; future land use predicted to change to more intense land uses	Incorporate Conservation Design standards into future development plans	Pollutant reduction cannot be assessed via modeling	Critical Area	Developer	Consultant, WDNR, Somers, Kenosha	10% less than traditional*	When development resumes

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>OTHER MANAGEMENT MEASURES (see Figure 67)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to implement these projects varies depending on complexity.											
42I	southwest of Co Hwy A and St Hwy 31 (just north of Hawthorn Hollow)	11.0 acres	Owner (private)	Remnant but degraded oak savanna with abundance of young sugar maple	Restore savanna community by removing young maples and seeding understory	N/A	High	Owner	Consultant	\$66,000 to remove invasive trees; \$16,500 for seeding	1-10 Years (2014-2024)
41C	north of Co Hwy E at end of 10th Pl	3.4 acres	Owner (private)	Existing wetland in agricultural field that is draining adjacent non-sewered subdivision	Manage existing wetland and install buffer	TN= 26 lbs/yr, TP = 5 lbs/yr, TSS = 4 tons/yr	High	Owner	NRCS, Consultant	\$10,000 to expand and restore buffer; \$3,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

# STURTEVANT

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
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## DETENTION BASIN & POND RETROFITS & MAINTENANCE (see Figure 63)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement detention basin retrofits is relatively low while financial assistance needs are moderate. Private landowners will require the greatest assistance.

20C, 20D	South of residential units on Westminster Drive and North of Broadway	5.1 total acres	Sturtevant	Two existing wet bottom detention basins in Kirkoria Nature Preserve in Sturtevant; basin 20C is buffered by turf grass; basin 20D buffered by unkept turf/old field vegetation	Design and implement project to install a native prairie vegetation buffer, install native emergent plants along shoreline, and maintain for three years to establish	TN= 257 lbs/yr, TP = 63 lbs/yr, TSS = 36 tons/yr	Critical Area	Parks, Sturtevant	Consultant	\$42,300 to design & install prairie buffer & emergent plants; \$3,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)
28B	South of residential units on Majestic Hills Drive and West of Willow Road	0.9 acres	Sturtevant	Existing wet bottom detention basin adjacent to Chicory Creek servicing large residential area; most of buffer is unkept turf grass with heavy willow sprouting	Design and implement project to install a native prairie vegetation buffer, and maintain for three years to establish	TN= 45 lbs/yr, TP = 11 lbs/yr, TSS = 6 tons/yr	Critical Area	Sturtevant	Consultant	\$4,200 to design & install prairie buffer & emergent plants; \$2,000/year maintenance for 3 year establishment period	25 Years + (2039+)
11F	Adjacent to Industrial Building on Enterprise Drive	1.0 acres	Business (private)	Existing wet bottom detention basin, mowed turf grass and bare dirt to edges	Design and implement project to install a native prairie vegetation buffer and plant emegents along shoreline, and maintain for three years to establish	TN= 84 lbs/yr, TP = 20 lbs/yr, TSS = 14 tons/yr	High	Business	Sturtevant, Consultant	\$9,500 to design & install prairie buffer & emergent plants; \$2,000/year maintenance for 3 year establishment period	10-25 Years (2024-2039)

## WETLAND RESTORATION (see Figure 64)

**Technical and Financial Assistance Needs:** Wetland restoration projects are typically complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration.

W07	East of Co Rd H and South of State Hwy 11	21.3 acres	Owners (private)	21.3 acres of drained wetland on private agricultural land at headwaters of Chicory Creek; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 187 lbs/yr, TP = 33 lbs/yr, TSS = 22 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$320,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W09	Northwest of the interstecion of Braun Road and 90th St	60.9 acres	Owners (private)	60.9 acres of drained wetland on private agricultural along Chicory Creek; future land use predicted to be residential	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 526 lbs/yr, TP = 94 lbs/yr, TSS = 61 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	\$610,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes
W04	Northwest corner of Willow Rd and Durand Avenue	26.6 acres	SC Johnson, WE Energies	26.6 acres of drained wetland along Waxdale Creek, draining approximately 52 acres; future land use predicted to be commercial/retail	Incorporate wetland restoration into future development plans by using area as wetland detention	TN= 35 lbs/yr, TP = 7 lbs/yr, 5 tons/yr	High	SC Johnson, WE Energies	USACE, WDNR, NRCS, WIN, Consultant	\$400,000 to design/permit/install/maintain wetland	25 Years + (2039+), or as development resumes

## RIPARIAN AREA & AGRICULTURAL SWALE RESTORATION & MAINTENANCE (see Figure 65)

**Technical and Financial Assistance Needs:** Technical assistance needed to implement riparian area restoration and maintenance is moderate at first because an environmental consultant is usually hired to complete a plan and implement the work. However, costs can be greatly reduced over time if municipal or park district staff complete some restoration and most of the long term maintenance in house. Private landowners will require the greatest assistance.

PRWC	Tributary to North Branch just north of State Highway 11	15.7 acres	Owners (private), Mount Pleasant, Sturtevant, SC Johnson	15.7 degraded riparian acres along both banks of Waxdale Creek (PRWC)	Remove invasive shrubs and trees from existing buffer; restore degraded riparian area using a natural ecological restoration approach	TN= 13 lbs/yr, TP = 2 lbs/yr, TSS = 1 tons/yr	Critical Area	Owner, MP, Sturtevant	NRCS, Consultant	\$125,600 to install and restore buffer; \$7,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)
PRCC	Tributary to North Branch north of Braun Road	15.6 acres	Owners (private), Sturtevant	15.6 degraded riparian acres along both banks of Chicory Creek (PRCC)	Improve and expand buffer to 30 feet minimum in agricultural areas; restore degraded riparian area using a natural ecological restoration approach	TN= 22 lbs/yr, TP = 3 lbs/yr, 1 tons/yr	Critical Area	Owner, Farm, HOA	NRCS, Consultant, WIN, Sturtevant, MP	\$46,800 to expand and restore buffer; \$7,000/year maintenance for 3 year establishment period	1-10 Years (2014-2024)

ID#	Location	Units (size/length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
<b>AGRICULTURAL LAND MANAGEMENT (see Figure 66)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical assistance needed to implement agricultural land management projects is moderate while existing financial incentives need to be leveraged. Farmers renting from absentee landlords will require the greatest assistance.											
AG02	northwest of intersection of Braun Rd and 90th St	89.0 acres	Owner (Private)	89.0 acres of privately owned cropland located along Chicory Creek	Utilize no-till soil conservation practice and install agricultural filter strips on private cropland	TN= 453 lbs/yr, TP = 231 lbs/yr, TSS = 166 tons/yr	Critical Area	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
<b>PRIORITY GREEN INFRASTRUCTURE PROTECTION AREAS (see Figure 72)</b>											
<b>Technical and Financial Assistance Needs:</b> Technical and financial assistance needed to acquire open space or implement conservation design is high because of land, design/permitting, and construction costs.											
GI04	northeast of intersection of 105th St and Braun Rd	127.4 acres	Owner (Private)	127.4 acres (5 parcels) of private cropland in unprotected Green Infrastructure Network	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	High	Owner, Sturtevant, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available for purchase
GI05	northwest of intersection of 90th St and Braun Rd	91.7 acres	Owner (Private)	91.7 acres of private cropland in unprotected Green Infrastructure Network	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future development plans	Pollutant reduction cannot be assessed via modeling	High	Owner, Sturtevant, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available for purchase