Table 42.	 Site Specific Manag 	ement Me	easures Actio	on Plan.							
KEI	NOSHA										
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)
STRE	EAMBANK &	k CH	NNEI	L RESTORATION (see	Figure 60)						
				· · · · · · · · · · · · · · · · · · ·	and financial assistance needs to protect land, de	sion construct monit	or and mair	ntain the restorat	ion. The project be	ecomes more complex in areas th	at flow through
					ream maintenance is generally low for minor tasl			itani tile restorat	ion. The project b	ecomes more complex in areas th	at now unough
						_					
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 tress 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 restorationa 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 restorationa areas is to be determined. \$15,000 to install 5 artificial riffles	25 Years + (2039+)
DET	ENTION BA	ASIN I	RETRO	DFITS & MAINTENAN	NCE (see Figure 63)						
					etrofits is relatively low while financial assistance	needs are moderate. I	Private land	owners will requi	re the greatest assi	stance.	
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 emegents 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 implent 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 alther 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.

	North of Co Hwy 158, west of railroad										
	tracks and west of								USACE,		10-25 Years
	industrial			127.8 acres of dreained weltand on private	Incorporate wetland restoration into future	TN=1,732 lbs/yr,			WDNR,	\$1,275,000 to	(2024-2039), or as
	development alon Co	127.8	Owners	agricultural along South Branch Pike River;	development plans by using area as wetland	TP = 398 lbs/yr,	Critical	Owner,	NRCS, WIN,	design/permit/install/maintai	development
W30	Hwy H	acres	(private)	future land use predicted to be industrial	detention	TSS = 276 tons/yr	Area	Developer	Consultant	n wetland	resumes
									USACE,		10-25 Years
	East of residential		Owner	93.1 acres of dreained weltand on private	Incorporate wetland restoration into future	TN = 420 lbs/yr,		Owner,	WDNR,	\$930,000 to	(2024-2039), or as
	development along	31.0	(private),	agricultural along South Branch Pike River;	development plans by using area as wetland	TP = 96 lbs/yr,	Critical	НОА,	NRCS, WIN,	design/permit/install/maintai	development
W32	82nd Avenue	acres	HOA	future land use predicted to be open space	detention	TSS = 67 tons/yr	Area	Developer	Consultant	n wetland	resumes
	South of Co Hwy E,								USACE,		25 Years +
	east of 30th Ave			31.3 acres of drained wetland on private	Incorporate wetland restoration into future	TN = 108 lbs/yr,			WDNR,	\$469,500 to	(2039+), or as
	(Wood Rd) and west	31.3	Owners	agriculatural land along Kenosha Branch;	development plans by using area as wetland	TP = 28 lbs/yr,		Owner,	NRCS, WIN,	design/permit/install/maintai	development
W34	of 25th Ave	acres	(private)	future land use predicted to be residential	detention	TSS = 22 tons/yr	High	Developer	Consultant	n wetland	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+)
	Tributary to South		Kenosha		Improve and expand buffer to 30 feet					\$11,100 to expand and restore	
	Branch Pike River		County,	3.7 acres degraded riparian acres along	minimum where possible; restore degraded	TN = 38 lbs/yr,		Kenosha		buffer; \$3,000/year	
	from Kenosha		Owners	both banks of lower third of Airport	riparian area using a natural ecological	TP = 5 lbs/yr,		County,	Consultant,	maintenance for 3 year	25 Years +
PCAB	Regional Airport	3.7 acres	(private)	Branch of South Branch Pike River	restoration approach	TSS = 4 tons/yr	High	Owner	WIN, Kenosha	establishment period	(2039+)
	South Branch Pike				Improve and expand buffer to 30 feet				NRCS,		
	River from County				minimum where possible; restore degraded				Consultant,	\$34,800 to expand and restore	
	Trunk Highway K				riparian area using a natural ecological	TN = 6 lbs/yr,			WIN,	buffer; \$3,000/year	
	north to Airport		Owners	5.8 degraded riparian acres along both	restoration approach; remove woodie	TP = 0 lbs/yr,		Owner,	Kenosha,	maintenance for 3 year	10-25 Years
PC03	Branch	5.8 acres	(private)	banks of South Branch Pike River Reach 3	invasives	TSS = 0 tons/yr	High	Farm	Somers	establishment period	(2024-2039)
	South Branch Pike					•					
	River from just north										
	of State Highway 158										
	at junction of Airport								NRCS,		
	Branch, north to				Improve and expand buffer to 30 feet				Consultant,	\$193,200 to expand and	
	junction of South		Somers,		minimum where possible; restore degraded	TN = 29 lbs/yr,		Somers,	WIN,	restore buffer; \$10,000/year	
	Branch Pike River and	27.6	Owners	27.6 degraded riparian acres along both	riparian area using a natural ecological	TP = 3 lbs/yr,		Owner,	Kenosha,	maintenance for 3 year	10-25 Years
PC04	Somers Branch	acres	(private)	banks of South Branch Pike River Reach 4	restoration approach	TSS = 2 tons/yr	High	Farm	Somers	establishment period	(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)
AGRI	ICULTURA I	LAN	D MAI	NAGEMENT (see Figu	re 66)	·					, ,
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 TION AREAS (see Figu:	TN= 510 lbs/yr, TP = 260 lbs/yr, TSS = 175 tons/yr	Critical	Owner, Farm	NRCS, WIN	ntee landlords will require the grea	25 Years + (2039+)
					ace or implement conservation design is high b		/permitting,	, and construction	n 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
OTH	ER MANAG	EME	NT ME	EASURES (see Figure 6'	7)						
				financial assistance needed to implement these	,						
	1401 16th Ave,	0.8 acres pond; 0.05 acres rain	Kenosha	Sam Poerio Park - pond was recently filled, adjacent areas to west would be good rain	Plant demonstration prairie where pond used to be located and a rain garden south	TN= 2 lbs/yr, $TP = 2 lbs/yr,$			Consultant,	\$3,000 to design and install prairie; \$7,000 for rain garden	1-10 Years (2014-
52A	Kenosha	garden	(public)	garden site	of parking lot along swale	TSS = 0 tons/yr	High	Kenosha	WIN	design and install	2024)

MOU	U NT PL I	EASA	ANT								
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)
STRE	AMRANK	R CHA	NNFI	L RESTORATION (see	Figure 60)	j		·			
				,	and financial assistance needs to protect land, de	sign, construct, monit	or, and mai	ntain the restorat	tion. The project b	ecomes more complex in areas th	at flow through
several gover	rning bodies or multiple	e private resi	idences. Tech	nical and financial assistance associated with str	ream maintenance is generally low for minor task	ks such as removing d	lebris.		· F · ·) · · · · ·	r i i i i i i i i i i i i i i i i i i i	
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)
RAVIN	VE RESTO	RATI		e Figure 61)		į					
Technical a	nd Financial Assistar	nce Needs:	Ravine restor	rations are complex and require high technical	and financial assistance needs to protect land, de vine maintenance is generally low for minor task			intain the restora	tion. The project b	becomes more complex in areas th	nat flow through
Ravine just east of RCOC Park (32B)	east of RCOC Park and Sheridan Rd between Derby Ave and Chicory Rd	440 lf	Owners (Private)	440 lf of heavily eroded ravine east of RCOC 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)
BROW	NFIELD I	RESTO	ORATI	ON (see Figure 61)							
Technical a	nd Financial Assistar	nce Needs:	Brownfield re	estorations are complex and require high techni	cal and financial assistance needs to conduct fea	sibility studies, ecotox	cicology stu	dies, protect land	l, design, construct	, monitor, and maintain the restor	ration. The project
Case Brownfield	east of Sheridan Rd		Business (Private, currently	97 acre former Case site located along Lake Michigan and draining approximately 500	Conduct feasibility study to determine nature of contaminants in soil and water; if feasible, remove asphalt cap and contain underlying contaminated material; naturalize	TN= 1,728 lbs/yr, TP = 235 lbs/yr,	Critical	n · vm	USACE, WDNR, WIN,	\$100,000 to conduct feasibility study to determine necessary remediation and potential uses; Additional costs dependent on results of	1-10 Years (2014-
Site (25A)	and Durand Ave	97 acres	for sale)	acres; site covered in old paved surfaces	site and restore to native prairie	TSS = 112 tons/yr	Area	Business, MP	Consultant	feasibility study	2024)
					INTENANCE (see Figu	/					
Technical a	nd Financial Assistar	nce Needs:	Technical assi	istance needed to implement detention basin re	etrofits is relatively low while financial assistance	needs are moderate. I	Private land	owners will requ	ire the greatest assi	stance.	1
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)

		Units (size/	Owner (public or			Pollutant Reduction		Responsible	Sources of Technical		Implementation Schedule
ID#	Location	length)	private)	Existing Condition	Management Measure Recommendation	Efficiency	Priority	Entity	Assistance	Cost Estimate	(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 Biscanyne 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 prairire 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 emegents along shoreline, and maintain for three years to establish	TN= 48 lbs/yr, TP = 14 lbs/yr, TSS = 5 tons/yr	High	НОА	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)

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

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.

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)
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/maintai n 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/maintai n wetland	25 Years + (2039+), or as development resumes
W08	Southest of the intersection of Braun Rd and 105th	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/maintai n 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/maintai n 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/maintai n 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/maintai n 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/maintai n wetland	25 Years + (2039+), or as development resumes
Technical	and Financial Assistar	ce Needs:	Technical ass	istance needed to implement riparian area resto	TORATION & MAINT oration and maintenance is moderate at first becterm maintenance in house. Private landowners	ause an environmenta	l consultant	is usually hired to		and implement the work. Howeve	er, costs can be
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 minumum 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)

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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

Owner,

Farm

Critical

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)

PRLD

Tributary to North Branch north of County Line Rd

between County

Trunk Hwy H and

Pike River

19.9

Mount

Pleasant,

Owners

(private)

19.9 degraded riparian acres along both banks of Lamparek Ditch (PRLD)

		Units (size/	Owner (public or			Pollutant Reduction		Responsible	Sources of Technical		Implementation Schedule
ID#	Location	length)	private)	Existing Condition	Management Measure Recommendation	Efficiency	Priority	Entity	Assistance	Cost Estimate	(Years)
		,			Improve and expand buffer to 30 feet			•		\$10,200 to expand and restore	,
	Agricultural swale				minimum where possible; restore degraded	TN = 3 lbs/yr,			NRCS,	buffer; \$3,000/year	
	from St Hwy 31 to		Owner	3.4 acres of non-existent riparian area along	riparian area using a natural ecological	TP = 0 lbs/yr,		Owner,	Consultant,	maintenance for 3 year	10-25 Years
29B	pond 29A	3.4 acres	(private)	agricultural swale	restoration approach	TSS = 0 tons/yr	High	Farm	WIN	establishment period	(2024-2039)
			Owners								
			(private),								
			Mount								
			Pleasant,		Remove invasive shrubs and trees from					\$125,600 to install and restore	
	Tributary to North		Sturtevant,		existing buffer; restore degraded riparian	TN= 13 lbs/yr,				buffer; \$7,000/year	
	Branch just north of	15.7	SC	15.7 degraded riparian acres along both	area using a natural ecological restoration	TP = 2 lbs/yr,	Critical	Owner, MP,	NRCS,	maintenance for 3 year	1-10 Years (2014-
PRWC	State Highway 11	acres	Johnson	banks of Waxdale Creek (PRWC)	approach	TSS = 1 tons/yr	Area	Sturtevant	Consultant	establishment period	2024)
					Improve and expand buffer to 30 feet				NRCS,	\$46,800 to expand and restore	
	Tributary to North		Owners		minimum in agricultural areas; restore	TN = 22 lbs/yr,			Consultant,	buffer; \$7,000/year	
	Branch north of	15.6	(private),	15.6 degraded riparian acres along both	degraded riparian area using a natural	TP = 3 lbs/yr,	Critical	Owner,	WIN,	maintenance for 3 year	1-10 Years (2014-
PRCC	Braun Road	acres	Sturtevant	banks of Chicory Creek (PRCC)	ecological restoration approach	TSS = 1 tons/vr	Area	Farm, HOA	Sturtevant, MP	establishment period	2024)
				NAGEMEN'T (see Figu		voite, y-		,		1	

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	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)
PRIO	RITY GREE	EN IN	[FRAS]	TRUCTURE PROTECT	ΓΙΟΝ AREAS (see Figu	re 72)					
Technical a	and Financial Assistar	ce Needs:	Technical and	l financial assistance needed to acquire open sp	ace or implement conservation design is high b	ecause of land, design	/permitting,	and constructio	n costs.		
	northeast of intersection of Airline Rd and	49.4	Owner	49.4 acres of private cropland within	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future	Pollutant reduction cannot be assessed			WIN, Consultant,		When parcel(s) become available
GI01	Spring St southeast of intersection of Old Spring Rd and Globe Heights Dr; adjacent to	acres 50.8	(Private)	unprotected Green Infrastructure Network 50.8 acres (8 parcels) of mostly private cropland within unprotected Green	Acquire, naturalize, and protect parcel as natural area/open space or incorporate conservation design standards in future	via modeling Pollutant reduction cannot be assessed	High	MP, Parks	WDNR WIN, Consultant,	Not Applicable	When parcel(s)
GI02	Smolenski Park	acres	(Private)	Infrastructure Network (also, Brownfield 25A) 97 acre former Case	development plans Acquire, naturalize, and protect parcel as natural area/open space or incorporate	via modeling Pollutant reduction	High	MP, Parks	WDNR USACE,	Not Applicable	for purchase
GI03	east of Sheridan Rd and Durand Ave	97 acres	Owner (Private)	site located along Lake Michigan and draining approximately 500 acres	conservation design standards in future development plans	cannot be assessed via modeling	Critical Area	Owner, MP, Parks	WDNR, WIN, Consultant	Not Applicable	1-10 Years (2014- 2024)
GI06	northwest of intersection of Old Green Bay Rd and Braun Rd	34.4	Owner (Private)	34.4 acres currently in private use as cropland located northeast of the intersection of Old Green Bay Rd and	Aquire and restore prairire with trails adjacent to James Turck Park and protect	Pollutant reduction cannot be assessed	Critical	Owner, MP, Parks	WIN, Consultant, WDNR	Not Applicable	When parcel(s) become available
G106	east of Co Hwy H between Braun Rd and KR County Line Rd	284.2 acres	Owner (Private)	County Highway X 284.2 acres (5 parcels) of private cropland in unprotected Green Infrastructure Network	parcel as natural area/open space 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	Area High	Owner, MP, Parks	WIN, Consultant, WDNR	Not Applicable Not Applicable	When parcel(s) become available for purchase

D A O	TA IT										
RAC	INE										
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)
				ON (see Figure 61)	9	Ž	<u> </u>	· · · · · ·			
				`	and financial assistance needs to protect land, de	sion construct monite	or and mai	ntain the restorat	ion. The project h	ecomes more complex in areas the	at flow through
					ceam maintenance is generally low for minor tas			itain the restorat	ion. The project b	ecomes more complex in areas in	at now tinough
Clark				Vacant lot along west side of Clark Street							
Street	west side of Clark			between 14th St and 15th St in Racine;		TN = 87 lbs/yr,			USACE,		
Brownfield	Street between 14th		Business	abuts railroad tracks and consists of spotty	Enhance existing soil as needed; restore to	TP = 8 lbs/yr, TSS	77' 1	Business,	WDNR, WIN,	\$18,400 to amend and add to	10-25 Years
(16A)	St and 15th St	2.3 acres	(private)	areas of turf grass and bare dirt	native prairie	= 6 tons/yr	High	Racine	Consultant	soil and restore to prairie	(2024-2039)
Phillips Ave			Racine,	At intersection of 18th St and Phillips Ave		TN = 218 lbs/yr,			USACE,		
Brownfield	intersection of 18th	15.3	Developer	in Racine; spotty grass, bare dirt and	Enhance existing soil as needed; restore to	TP = 27 lbs/yr,		Developer,	WDNR, WIN,	\$122,400 to amend and add to	1-10 Years (2014-
(16C)	St and Phillips Ave	acres	(Private)	depressional area	native prairie	TSS = 16 tons/yr	High	Racine	Consultant	soil and restore to prairie	2024)
	Northeast of		Racine			. ,	V			·	,
18th Street	intersection of		County,	Northeast of intersection of Taylor Ave		TN = 71 lbs/yr,		Developer,	USACE,		
Brownfield	Taylor Ave and	4.5	Developer	and 18th St; bare grass and areas of old	Enhance existing soil as needed; restore to	TP = 9 lbs/yr, TSS	77' 1	Racine	WDNR, WIN,	\$13,600 to amend and add to	10-25 Years
(16D)	18th St	1.7 acres	(Private)	concrete	native prairie	= 6 tons/yr	High	County	Consultant	soil and restore to prairie	(2024-2039)
DETE	NTION BA	SIN 8	& PON	ID RETROFITS & MAI	INTENANCE (see Figu	re 63)					
					etrofits is relatively low while financial assistance		Drivata land	ovroce will rocui	re the greatest ass	istanca	
1 eciliicai a	ilu Filialiciai Assistali	ice riceus:	Technical ass	I	Hones is relatively low write initalicial assistance	needs are moderate. I	riivate land	owners will requi	ie tile greatest ass	\$30,000 for design; \$150,000	1
				Large industrial area lacking detention but		TN = 550 lbs/yr,				to construct and plant;	
	Stephen F Olsen		Business	with ample space to accommodate a large	Create wetland detention basin and maintain	TP = 130 lbs/yr,	Critical	Business,	Racine,	\$3,000/year maintenance for 3	10-25 Years
32A	Industrial Park	8.0 acres	(private)	wetland detention basin	for three years to establish	TSS = 94 tons/yr	Area	Developer	Consultant	year establishment period	(2024-2039)
										\$30,000 to design & install	
					Design and implement project to remove	FF 7 - 0 11 /				prairie buffer & emergent	
	Southwest corner of		ъ :	Existing wet bottom detention basin with	gravel install a native prairie vegetation	TN = 29 lbs/yr,		n ·	D '	plants; \$2,000/year	40.05.37
23A	Ohio St. and 21st	1 0 00000	Racine	gravel side slopes and no water quality function	buffer and plant emegents along shoreline, and maintain for three years to establish	TP = 7 lbs/yr, TSS	Lligh	Racine	Racine, Consultant	maintenance for 3 year establishment period	10-25 Years (2024-2039)
	St.	1.8 acres	County		j	= 5 tons/yr	High	County		establishment period	(2024-2039)
RIPAI	RIAN AREA	& A(GRICU	LTURAL SWALE RES'	TORATION & MAINT	ENANCE ((see F	igure 65)			
Technical a	nd Financial Assistan	ce Needs:	Technical ass	istance needed to implement riparian area resto	oration and maintenance is moderate at first because	ause an environmental	consultant	is usually hired to		and implement the work. Howeve	er, costs can be
greatly reduc	ed over time if municip	al or park d		implete some restoration and most of the long	term maintenance in house. Private landowners	will require the greater	st assistance			1	T
			American					American			
	Tributary to Pike		Transmissi on Co.,					Transmission Co.,		\$18,000 to install and restore	
	River, north of State		Republic		Increase buffer to 30 feet where appropriate	TN= 9 lbs/yr, TP		Republic		buffer; \$2,000/year	
	Highway 11 and		Services of	3.6 degraded riparian acres along both	and restore degraded riparian area using a	= 1 lbs/yr, TSS =	Critical	Services of		maintenance for 3 year	10-25 Years
PRTB	west of Oakes Rd	3.6 acres	WI	banks of Pike River Tributary B (PRTB)	natural ecological restoration approach	1 tons/yr	Area	WI	NRCS	establishment period	(2024-2039)
ОТНЕ		FMF	NT MI	EASURES (see Figure 6		. ,					
				<u> </u>	,						
1 ecnnical a	west of South	ice meeds:	recnnical and	d financial assistance needed to implement thes	e projects varies depending on complexity.						
	West of South Memorial Dr (and									\$20,000 for five year	
	south of Sheridan	15.7	Racine	prairie restoration with inter-mixed wetland	Prepare monitoring, maintenance, and					maintenance and monitoring	1-10 Years (2014-
24B	Woods Park)	acres	(public)	communities	possible over-seeding plan	N/A	High	Racine	Consultant	plan and implementation	2024)
	Case-Harmon Field		u/	222 2 22 2	1	',	0			T P P	/
	at intersection of				Depressional area could potentially store	TN= 1 lbs/yr, TP				\$8,000 to restore vegetation;	
	James Blvd and		Racine	Park with unused depressional area on	stormwater runoff and be naturalized with	= 1 lbs/yr, TSS =			Consultant,	\$2,000/yr maintenance for 3	1-10 Years (2014-
24A	Hamilton Ave	1.5 acres	(public)	south end	prairie and wetland vegetation	0 tons/yr	High	Racine	WIN	years to establish	2024)

Decision Control Con	SOM	ERS										
## Checked and Minimal Abstractions. Now. Prescriptions are compassed as prescriptions are co			(size/	(public or	Existing Condition	Management Measure Recommendation	Reduction	Priority		Technical	Cost Estimate	
Technical and Founcial Assistance Nords Scene recommends are complete and require high products and founcial Assistance Nords Scene recommends are complete in the new arrange in ground profession and commends are consorted official and additional are not arrange in ground place in an arrange in ground place in a management in product in the commends of the product	STRE	AMBANK	CHA						,			
Part							orion apparaturat monitor	on and mai	atain the mestanet	ion The musicat b	one many many as manday in a uses the	at flory the govern
North Brand Family South Brand Family									main the restorat	ion. The project b	ecomes more complex in areas in	at now infough
State Highway 10 Court Tenk			private resi	acrices. Teern				CD119.				
Back 10 County Yunth Consent of Mark County Yunth County							TNI_ 4 F27 II /		C	LICACE	#20,000 1 · / · ·	
Pick Recre within Principles of principles Principles of principles of principles Principles of principles of principles Principles of principles of principles of principles Principles of principl				Owners				Critical	· · · · · · · · · · · · · · · · · · ·			10.25 Voors
Pick Rever with Pick Rever			6 277 lf		, 1				,			
Penifying periods from Courty Truck Highway 1 Truck Highway 2 Truck Highway 2 Truck Highway 3 Program From Courty 1 Politics of the Minister Program From Pro	(11110)		0,27711	(private)	nivasive tiecs	debits jams, selectively remove invasive trees	100 700 tons, yr	Tirea	O WIICI	w Bivit, i vitos	removal, \$55,000 tree removal	(2021203))
South Ranch Ranc	Reach 11	Petrifying Springs Park from County Trunk Highway A to park boundary or junction of Pike	8,154 lf	Springs Park	eroded banks within Petrifying Springs Park; riparian area dominated by many	bioengineering techniques; remove problematic debris jams; selectively remove	TP = 527 lbs/yr,		Parks	Consultant,	\$200,000 install and debris jam	
Beach of Somes Berneth biles River (PCOS) Reach of Branch Pike River (PCOS) Reach of Branch Pike River (PCOS) South Branch Pike River (PCOS) Branch Branch (PCOS) South Branch Pike River (PCOS) Reach of Branch Pike River (PCOS) South Branch Pike Ri												
Fike Rever from northern boundary of Branch Fike Rever within Reach South Branch Fike Rever PRINC PRINCE PRINCE Reach South Branch Fike Rever Princip South Reach Fixe Reach 1 Petrifying Springs PRINC PRINCE PRINC												
Reach 3 boundary of (PCOS) Hawthorn Hollow (A100 if Parkhorn Hollow (private) Rough River from northern boundary to that Hawthorn Hollow with solated highly eroded streambanks, moderate debris jams and abundance of invasive trees and shrubs from floodplain areas Reach 3 South Harnch Pike River (PCOS) Reach 6 Branch Pike River (PCOS) Reach 7 Selectively restore highly eroded streambanks, moderate debris jams and abundance of invasive trees and shrubs from floodplain areas Reach 8 South Harnch Pike River (PCOS) Reach 12 Petrifying Springs to 7th Street 12 petrifying Springs to 7th Street 12 petrifying Springs north of State Highway 158 at South Branch Pike River (PRI2) Reach 4 South Branch Pike River (PRI2) Reach 5 South Branch Pike River (PRI2) Reach 6 South Branch Pike River (PCOS) Reach 7 South Branch Pike River (PRI2) Reach 12 Petrifying Springs to 7th Street (PRI2) Reach 13 South Branch Pike River (PRI2) Reach 14 South Branch Pike River (PRI2) Reach 15 South Branch Pike River (PRI2) Reach 15 South Branch Pike River (PRI2) Reach 16 South Branch Pike River (PRI2) Reach 17 South Branch Pike River (PRI2) Reach 18 South Branch Pike River (PRI2) Reach 19 South Branch Pike River (PRI2) Reach 19 South Branch Pike River (PRI2) Reach 10 South Branch Pike River (PRI2) Reach							/FD 1 050 11 /			LICA OF	#	
Area Owner Hawthorn Hollow April Franch Fanch Fa				Ozzan o na				Cultical	C 0 mm 0 m0			10.25 Voors
South Branch Pike River from just north of Pike River from [PC(HII)] South Branch Pike River Hawthorn Hollow with included highly eroded streambanks, moderate debris jams and abundance of invasive trees and shrubs from floodplain. Selectively restore highly eroded streambanks using combination of hard armoring and bioengineering techniques selectively remove invasive trees and shrubs from floodplain areas of provided streambanks using combination of hard armoring and bioengineering techniques and abundance of invasive trees and shrubs from floodplain areas seriously remove thanks the street of the province of the provinc			4.010.1f		,				· /			
River from northern boundary to Hawthorn Hollow meth to later debris jams and abundance of irravasive trees and shrubs from thoughtin areas Petrifying Springs (PKH2)	(FC03)		4,010 11	(private)	пооцыя	nivasive trees and shrubs from noodplain areas	133 – 429 tons/ yr	Alea	Owner	WDINK	removai, \$50,000 free removai	(2024-2039)
Branch Pike River Hawthorn Hollow Reach Hawthorn Hollow (PCHH) Nature Sanctuary Pike River (PR12) Pike River from (PR12) South Branch Pike River from Just north of State Highway 158 at Junction of Stoth Branch B	Branch Pike River Reach 6 (PC06)	northern boundary to Hawthorn Hollow north to junction of South Branch Pike River	2,843 lf		Hawthorn Hollow with isolated highly eroded streambanks, moderate debris jams and abundance of invasive trees and	using combination of hard armoring and bioengineering techniques; selectively remove	TP = 266 lbs/yr,		Hawthorn Hollow,	Consultant,	\$175,000 install and debris jam	1-10 Years (2014- 2024)
Pike River Hawthorn Hollow Hawthorn Hollow with highly croded streambanks using combination of hard armoring and bioengineering techniques and improve end of streambanks using combination of hard armoring and bioengineering techniques and improve end of streambanks using combination of hard armoring and bioengineering techniques and improve end of streambanks using combination of hard armoring and bioengineering techniques and improve end the provided streambanks using combination of hard armoring and bioengineering techniques and improve end the provided streambanks using combination of hard armoring and bioengineering techniques and improve channel using riffles; selectively remove invasive trees and shrubs from floodplain areas as is to be determined. \$2,276 lf of with highly croded streambanks, using combination of hard armoring and bioengineering techniques and moderately ended streambanks using combination of hard armoring and bioengineering techniques and shrubs from floodplain areas as is to be determined. \$1.00 \text{Verser from} Visconsin												
Reach 12 (PR12) Petrifying Springs (PR12) to 7th Street 5,557 lf Wisconsin Pranch Pike (PR12)	Pike River Hawthorn Hollow Reach	River within Hawthorn Hollow	2,276 lf		Hollow with highly eroded streambanks, moderate debris jams and some	using combination of hard armoring and bioengineering techniques and improve channel using riffles; selectively remove	TP = 244 lbs/yr,		Hollow,	Consultant,	\$250,000 install and debris jam	1-10 Years (2014- 2024)
(PR12) to 7th Street 5,557 lf Wisconsin many invasive trees in invasive trees inv				University					University of		0.1	
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 wethand restoration sites. Selectively restore highly eroded streambanks using combination of Branch, north to Branch Branch, north to Pike River Reach 4 Branch Pike River Reach 8 Branch Pike Riv									-			
South Branch Pike River from just north of State Highway 158 at junction of Airport Branch Br	(PR12)	to 7th Street	5,557 lf	Wisconsin	many invasive trees		TSS = 221 tons/yr	High	Somers	WDNR, NRCS	removal	(2039+)
Reach 4 Branch Pike River (mostly jams and spoil piles/berms prevent remove invasive trees and shrubs from TSS = 1,194 Critical Somers, Consultant, install and debris jam removal; 1-10 Years (201	Branch	River from just north of State Highway 158 at junction of Airport Branch, north to		0.000	Highway E to Airport Branch with highly channelized and moderately	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			Ower	LICACE	connecting to wetland restorationa areas is to be determined. \$100,000	
								Critical	,			1 10 Voors (2014
	(PC04)	and Somers Branch	20,004 lf	(mostly private)	floodplain connection	floodplain areas	1SS = 1,194 tons/yr	Critical Area	Somers, Kenosha	WDNR, NRCS	\$100,000 tree removal	1-10 Years (2014- 2024)

		Units (size/	Owner (public or			Pollutant Reduction		Responsible	Sources of Technical		Implementation Schedule
ID#	Location	length)	private)	Existing Condition	Management Measure Recommendation	Efficiency	Priority	Entity	Assistance	Cost Estimate	(Years)
					Improve channel using riffles and grade						
					controls. Design, permit, and construct breaks						
South	South Branch Pike			4,245 lf of highly channelized and	in spoil pile/berm at upper end of reach to					Cost for breaking berms and	
Branch	River from County			moderately eroded stream with many	allow for additional flood storage and water					connecting to wetland	
Pike River	Trunk Highway K			fallen trees in channel; spoil piles/berms	quality improvement. Note: these should be	TN = 464 lbs/yr,			USACE,	restorationa areas is to be	
Reach 3	north to Airport		Owners	present on both sides of channel,	done in conjunction with adjacent	TP = 232 lbs/yr,		Somers,	Consultant,	determined. \$15,000 to install	25 Years +
(PC03)	Branch	4,245 lf	(private)	blocking floodplain connection	recommended wetland restoration site.	TSS = 232 tons/yr	High	Kenosha	WDNR	5 artificial riffles	(2039+)
North	North Branch from				Remeander stream channel where possible,	TN= 2,989 lbs/yr,					
Branch	just south of State		Owners	12,024 lf of stream with moderate	restore streambanks using bioengineering	TP = 1,495 lbs/yr,		MP, Somers,	USACE,	\$180,000 design/permit;	
Reach 9	Highway 11, south		(mostly	erosion, high channelization, and poor	techniques, improve channel using riffles, and	TSS = 1.495	Critical	Farm,	Consultant,	\$1,800,000 install; \$85,000	25 Years +
(PR09)	to State Highway 31	12,024 lf	private)	riparian area adjacent to cropland	restore existing riparian area	tons/yr	Area	Owner	WDNR, NRCS	riparian area	(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 east				1,359 lf of heavily eroded ravine east of							
of	southeast of County			Lakeshore Dr and draining directly into		TN = 1,334 lbs/yr,			USACE,		
Lakeshore	Line Rd and State		Owners	Lake Michigan; ravine buffer is	Design, permit, and implement ravine	TP = 667 lbs/yr,	Critical	Owner,	Consultant,	\$50,000 to design and permit;	1-10 Years (2014-
Dr (39A)	Highway 32	1,359 lf	(Private)	dominated by invasive shrubs	stabilization project	TSS = 667 tons/yr	Area	Somers	WDNR	\$350,000 to install	2024)
South											
Branch	south of Hawthorn										
Pike River	Hollow Nature										
Reach 5	Sanctuary west of			394 lf of steep and heavily eroded ravine		TN = 422 lbs/yr,			USACE,		
Ravine	South Branch Pike		Owner	draining a wetland west of Hawthorn	Design, permit, and implement ravine	TP = 211 lbs/yr,	Critical	Owner,	Consultant,	\$15,000 to design and permit;	10-25 Years
(42H)	River Reach 5	394 lf	(Private)	Hollow into South Branch Pike River	stabilization project	TSS = 211 tons/yr	Area	Somers	WDNR	\$75,000 to install	(2024-2039)
	north of Hawthorn										
School	Hollow Nature										
Tributary	Sanctuary west of			423 lf of heavily eroded ravine north of		TN = 324 lbs/yr,			USACE,		
Ravine	the mouth of		Owners	Hawthorn Hollow draining cropland into	Design, permit, and implement ravine	TP = 162 lbs/yr,	Critical	Owner,	Consultant,	\$30,000 to design and permit;	25 Years +
(42G)	School Tributary	423 lf	(Private)	School Tributary	stabilization project	TSS = 162 tons/yr	Area	Somers	WDNR	\$150,000 to install	(2039+)
				639 lf of moderately eroded ravine							
Hawthorn	within Hawthorn			located off the west bank of South							
Hollow	Hollow Nature			Branch Pike River Hawthorn Hollow		TN = 109 lbs/yr,			USACE,		
Ravine	Sanctuary west of		Hawthorn	reach (PCHH) and drains an adjacent	Design, permit, and implement ravine	TP = 54 lbs/yr,		Hawthorn	Consultant,	\$15,000 to design and permit;	10-25 Years
(42F)	РСНН	639 lf	Hollow	agricultural field	stabilization project	TSS = 54 tons/yr	High	Hollow	WDNR	\$70,000 to install	(2024-2039)

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.

59A	St and 96th Ave	5.3 acres	(private)	quality	swales	TSS = 17 tons/yr	Area	Somers	NRCS	prairie buffers	(2024-2039)
	intersection of 38th		Owner	areas; non-existent buffer width and	buffer around the pond and surrounding	TP = 26 lbs/yr,	Critical	Owner,		\$25,000 to design & install	10-25 Years
	Northeast of			surrounding cropland and residential	Design and implement project to extend the	TN= 143 lbs/yr,					
				Large pond in cropland draining					•		_
51I	Hwy E	3.6 acres	HOA	is beginning at toe of slope	maintain for three years to establish	TSS = 13 tons/yr	Area	HOA	Consultant	year establishment period	(2024-2039)
	Avenue and Co.		Court	grass; goose dropping abundant; erosion	toe, and plant emegents along shoreline, and	TP = 36 lbs/yr,	Critical		Somers,	\$3,000/year maintenance for 3	10-25 Years
	Corner of 22nd		Carrington	Tributary M; slopes are mowed turf	native prairie vegetation buffer, regrade eroded					install and vegetate;	
				Existing detention basin at headwaters of	Design and implement project to install a					\$60,000 to design, regrade,	
37D	of 38th Avenue	5.0 acres	(private)	turf	for three years to establish	TSS = 18 tons/yr	Area	Owner	Consultant	establishment period	(2024-2039)
	Avenue and South		Owner	most of surrounding buffer is mowed	native prairie vegetation buffer, and maintain	TP = 50 lbs/yr,	Critical		Somers,	maintenance for 3 year	10-25 Years
	Northeast of 39th			surrounding upper-scale development;	Design and implement project to install a	TN= 172 lbs/yr,				prairie buffer; \$3,000/year	
				functions as a detention basin for						\$16,500 to design & install	
				Large residential pond that likely							

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 nad 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 emegents along shoreline, and maintain for three years to establish	TN= 40 lbs/yr, TP = 12 lbs/yr, TSS = 4 tons/yr	High	НОА	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+)
				(see Figure 64)		1 1 1 1					
Technical a	and Financial Assistan	ce Needs:	Wetland resto	oration projects are typically complex and rec 27.7 acres of drained wetland on private	uire high technical and financial assistance needs t	to protect land, design	, construct,	monitor, and ma	intain the restorat	aon.	
W16	South of County Line Road, West of 100th Ave and north of Co. Hwy A	27.7 acres	Owners (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/maintai n 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 weltand 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/maintai n wetland	10-25 Years (2024-2039), or as development resumes
W18	South of Co Hwy A and approximatey 300' west of railroad tracks	29.9 acres	Owners (private)	29.9 acres of drained weltand 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/maintai n 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 weltand 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/maintai n 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 weltand 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/maintai n 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 weltand 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/maintai n 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 weltand 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/maintai n 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 weltand 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/maintai n 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 weltand 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/maintai n 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 dreained weltand 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/maintai n 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 weltand 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/maintai n 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 weltand 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/maintai n 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.

greatly reduce	ted over time if municip	oai oi paik u	istrict starr co	implete some restoration and most of the for	ig term manitenance in nouse. Private fandowners	will require the greate	st assistance	•			
	Tributary to Pike										
	River north of										
	CountyTrunk Hwy				Improve and expand buffer to 30 feet					\$75,000 to expand and restore	
	A between County				minimum in agricultural areas; restore	TN = 23 lbs/yr,			NRCS,	buffer; \$10,000/year	
	Trunk Hwy H and	25.0	Owners	25.0 degraded riparian acres along both	degraded riparian area using a natural	TP = 2 lbs/yr,	Critical	Owner,	Consultant,	maintenance for 3 year	1-10 Years (2014-
PCST	Pike River	acres	(private)	banks of School Tributary (PCST)	ecological restoration approach	TSS = 1 tons/yr	Area	Farm	WIN, Somers	establishment period	2024)
	Tributary to South										
	Branch Pike River				Improve and expand buffer to 30 feet					\$33,000 to expand and restore	
	from 100th Ave to			10.9 degraded riparian acres along both	minimum where possible; restore degraded	TN = 11 lbs/yr,			NRCS,	buffer; \$7,000/year	
	County Trunk Hwy	10.9	Owners	banks of South Branch Pike River	riparian area using a natural ecological	TP = 1 lbs/yr,		Owner,	Consultant,	maintenance for 3 year	10-25 Years
PCTR	L	acres	(private)	Tributary R	restoration approach	TSS = 1 tons/yr	High	Farm	WIN, Somers	establishment period	(2024-2039)
	Tributary to South					•					
	Branch Pike River										
	just south of				Improve and expand buffer to 30 feet					\$20,000 to expand and restore	
	intersection of				minimum where possible; restore degraded	TN = 6 lbs/yr,			NRCS,	buffer; \$3,000/year	
	County Trunk Hwy		Owners	6.4 degraded riparian acres along both	riparian area using a natural ecological	TP = 1 lbs/yr,		Owner,	Consultant,	maintenance for 3 year	10-25 Years
PCTQ	L and EA	6.4 acres	(private)	banks of Pike River Tributary Q	restoration approach	TSS = 0 tons/yr	High	Farm	WIN, Somers	establishment period	(2024-2039)
	Tributary to Somers				Improve and expand buffer to 30 feet	•				\$26,000 to expand and restore	
	Branch south of Co				minimum where possible; restore degraded	TN = 8 lbs/yr,			NRCS,	buffer; \$5,000/year	
	Hwy A between Co		Owners	8.7 degraded riparian acres along both	riparian area using a natural ecological	TP = 1 lbs/yr,		Owner,	Consultant,	maintenance for 3 year	10-25 Years
PCSBA	Hwy H and EA	8.7 acres	(private)	banks of Somers Branch Tributary A	restoration approach	TSS = 1 tons/yr	High	Farm	WIN, Somers	establishment period	(2024-2039)
	South Branch Pike								NRCS,		
	River from County				Improve and expand buffer to 30 feet				Consultant,	\$34,800 to expand and restore	
	Trunk Highway K			5.8 degraded riparian acres along both	minimum where possible; restore degraded	TN = 6 lbs/yr			WIN,	buffer; \$3,000/year	
ı	north to Airport		Owners	banks of South Branch Pike River Reach	riparian area using a natural ecological	TP = 0 lbs/yr,		Owner,	Kenosha,	maintenance for 3 year	10-25 Years
PC03	Branch	5.8 acres	(private)	3	restoration approach; remove woodie invasives	TSS = 0 tons/yr	High	Farm	Somers	establishment period	(2024-2039)
			(2-1-1-10)		The production of the first term of the state of the stat	- 0 0 000/ 12	8		0.0111010		(=== : ====)

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	8 /	1 /	0	8	,	,	,			,
	River from just										
	north of State										
	Highway 158 at junction of Airport								NRCS,		
	Branch, north to				Improve and expand buffer to 30 feet				Consultant,	\$193,200 to expand and	
	junction of South		Somers,	27.6 degraded riparian acres along both	minimum where possible; restore degraded	TN = 29 lbs/yr,		Somers,	WIN,	restore buffer; \$10,000/year	
	Branch Pike River	27.6	Owners	banks of South Branch Pike River Reach	riparian area using a natural ecological	TP = 3 lbs/yr,		Owner,	Kenosha,	maintenance for 3 year	10-25 Years
PC04	and Somers Branch	acres	(private)	4	restoration approach	TSS = 2 tons/yr	High	Farm	Somers	establishment period	(2024-2039)
					Improve and expand buffer to 30 feet					\$29,000 to expand and restore	
	Agricultural swale		_		minimum where possible; restore degraded	TN = 9 lbs/yr,		_	NRCS,	buffer; \$5,000/year	
COD	from pond 59A to	0.6	Owner	9.6 acres of non-existent riparian area	riparian area using a natural ecological	TP = 1 lbs/yr,	TT' 1	Owner,	Consultant,	maintenance for 3 year	10-25 Years
60B	Airport Branch	9.6 acres	(private)	along agricultural swale	restoration approach	TSS = 1 tons/yr	High	Farm	WIN	establishment period	(2024-2039)
AGRI	CULTURAI	LAN	D MAI	NAGEMENT (see Fig	ure 66)						
echnical a	and Financial Assistan	ce Needs:	Technical assi	stance needed to implement agricultural land	l management projects is moderate while existing	financial incentives ne	ed to be lev	eraged. Farmers	renting from abser	ntee landlords will require the grea	test assistance.
	southeast of										
	intersection of Kr	4545		4545 6	Utilize no-till soil conservation practice and	TN = 647 lbs/yr,	0.11				25.37
AG10	County Line Rd and Co Hwy H	151.5	Owner (Private)	151.5 acres of privately owned cropland located along School Tributary	install agricultural filter strips on private	TP = 330 lbs/yr, $TSS = 326 to ps/yr$	Critical	Owner, Farm	NID CC WILNI	Niet Applieshie	25 Years + (2039+)
AGIU	southwest of	acres	(Private)	located along School Tributary	cropland	TSS = 226 tons/yr	Area	гапп	NRCS, WIN	Not Applicable	(2039+)
	intersection of Kr				Utilize no-till soil conservation practice and	TN = 577 lbs/yr,					
	County Line Rd and	135.2	Owner	135.2 acres of privately owned cropland	install agricultural filter strips on private	TP = 294 lbs/yr,	Critical	Owner,			25 Years +
AG11	72nd Ave	acres	(Private)	located along School Tributary	cropland	TSS = 202 tons/yr		Farm	NRCS, WIN	Not Applicable	(2039+)
	southwest of		,	·	*	,				•	
	intersection of Kr										
	County Line Rd and				Utilize no-till soil conservation practice and	TN = 317 lbs/yr,					
1.010	Canadian Pacific	74.3	Owner	74.3 acres of privately owned cropland	install agricultural filter strips on private	TP = 162 lbs/yr,	Critical	Owner,	NID CO. WILL	NT . A . P . 11	25 Years +
AG12	North Railway	acres	(Private)	located along School Tributary	cropland	TSS = 111 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	southwest of intersection of Kr				Utilize no-till soil conservation practice and	TN = 336 lbs/yr,					
	County Line Rd and	78.6	Owner	78.6 acres of privately owned cropland	install agricultural filter strips on private	TP = 171 lbs/yr,	Critical	Owner,			25 Years +
AG13	56th Ave	acres	(Private)	located along School Tributary	cropland	TSS = 117 tons/yr		Farm	NRCS, WIN	Not Applicable	(2039+)
	northeast of		()	,		, , ,				FF	(111)
	intersection of Co			84.3 acres of privately owned cropland	Utilize no-till soil conservation practice and	TN = 360 lbs/yr,					
	Hwy A and 100th	84.3	Owner	located at headwaters of School	install agricultural filter strips on private	TP = 184 lbs/yr,	Critical	Owner,			25 Years +
AG14	Ave	acres	(Private)	Tributary	cropland	TSS = 126 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	northeast of					// / A A A A A A A A A A A A A A A A A					
	intersection of Co	70.2	0	70.2	Utilize no-till soil conservation practice and	TN = 334 lbs/yr,	C :: 1				25.37
A C 1 E	Hwy A and 88th	78.2	Owner (Driverte)	78.2 acres of privately owned cropland	install agricultural filter strips on private cropland	TP = 170 lbs/yr, $TSS = 117 tops/yr$	Critical	Owner,	NIDCS WILNI	Not Applieshie	25 Years + (2039+)
AG15	Ave northwest of	acres	(Private)	located along School Tributary	сторіапа	TSS = 117 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	intersection of Co										
						FD 1 040 11 /					

Utilize no-till soil conservation practice and

install agricultural filter strips on private

cropland

Utilize no-till soil conservation practice and

install agricultural filter strips on private

cropland

Utilize no-till soil conservation practice and

install agricultural filter strips on private

cropland

Hwy A and

Canadian Pacific

North Railway

northwest of

intersection of Co

Hwy A and EA

northeast of

intersection of Co

Hwy A and EA

AG16

AG17

AG18

74.4

acres

75.3

acres

99.5

Owner

(Private)

Owner

(Private)

Owner

(Private)

74.4 acres of privately owned cropland

located along School Tributary

75.3 acres of privately owned cropland

located along School Tributary

99.5 acres of privately owned cropland

located along School Tributary

TN = 318 lbs/yr,

TP = 162 lbs/yr,

TSS = 111 tons/yr

TN= 321 lbs/yr, TP = 164 lbs/yr, TSS = 112 tons/yr

TN = 425 lbs/yr,

TP = 217 lbs/yr,

TSS = 149 tons/yr

Critical

Critical

Critical

Owner,

Farm

Owner,

Farm

Owner,

Farm

NRCS, WIN

NRCS, WIN

NRCS, WIN

Not Applicable

Not Applicable

Not Applicable

25 Years +

(2039+)

25 Years +

(2039+)

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)
	southwest of				Utilize no-till soil conservation practice and	TN = 428 lbs/yr,					
	intersection of Co	98.5	Owner	98.5 acres of privately owned cropland	install agricultural filter strips on private	TP = 218 lbs/yr,	Critical	Owner,			25 Years +
AG19	Hwy A and H	acres	(Private)	situated at headwaters of Somers Branch	cropland	TSS = 151 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	southwest of										
	intersection of Co										
	Hwy A and				Utilize no-till soil conservation practice and	TN = 338 lbs/yr,					
	Canadian Pacific	77.7	Owner	77.7 acres of privately owned cropland	install agricultural filter strips on private	TP = 172 lbs/yr,	Critical	Owner,			25 Years +
AG20	North Railway	acres	(Private)	situated along Somers Branch	cropland	TSS = 119 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	southwest of				TT.11 .11 11 .1 .1 .1 .1	77NI - 770 II /					
	intersection of Co	1547		4547 6	Utilize no-till soil conservation practice and	TN = 673 lbs/yr,	C '.' 1				25.37
A C 21	Hwy A and 72nd	154.7	Owner	154.7 acres of privately owned cropland	install agricultural filter strips on private	TP = 343 lbs/yr, $TSS = 226 tangeless$	Critical	Owner,	NID CC WILNI	NI-4 A1:1-1-	25 Years +
AG21	Ave	acres	(Private)	situated along Somers Branch	cropland	TSS = 236 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
i					Utilize no-till soil conservation practice and	TN=322 lbs/yr,					
	off of Co Hwy EA,	73.9	Owner	73.9 acres of privately owned cropland	install agricultural filter strips on private	TP = 164 lbs/yr,	Critical	Owner,			25 Years +
AG22	south of Co Hwy A	acres	(Private)	situated along Somers Branch	cropland	TSS = 113 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	west of Union										
	Pacific North	00.4		89.4 acres of privately owned cropland	Utilize no-till soil conservation practice and	TN = 479 lbs/yr,	0 1 1				25.37
4.632	Railway and north	89.4	Owner	located east of the main stem of Pike	install agricultural filter strips on private	TP = 244 lbs/yr,	Critical	Owner,	NID CC WIINI	NT . A . 1' . 1.1	25 Years +
AG23	of Co Hwy E	acres	(Private)	River	cropland	TSS = 177 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	northeast of intersection of Co				Utilize no-till soil conservation practice and	TN = 611 lbs/yr,					
	Hwy E and 100th	140.3	Owner	140.3 acres of privately owned cropland	install agricultural filter strips on private	TP = 311 lbs/yr,	Critical	Owner,			25 Years +
AG24	Ave	acres	(Private)	situated at headwaters of Somers Branch	cropland	TSS = 215 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
ПОДТ		acres	(1 Hvate)	situated at fleadwaters of Somers Branen	*	Í	Tirca	1 21111	TVRCS, WIIV	140t Applicable	(20371)
	northwest of				Utilize no-till soil conservation practice and	TN = 337 lbs/yr,	0 1				25.17
A.C.O.F	intersection of Co	77.5	Owner (Private)	77.5 acres of privately owned cropland	install agricultural filter strips on private	TP = 172 lbs/yr, TSS = 118 tons/yr	Critical	Owner,	NID CC WILNI	NI-4 A1:1-1-	25 Years + (2039+)
AG25	Hwy E and EA	acres	(Private)	situated along Somers Branch	cropland	•	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	northeast of				Utilize no-till soil conservation practice and	TN=385 lbs/yr,					
	intersection of Co	88.4	Owner	88.4 acres of privately owned cropland	install agricultural filter strips on private	TP = 196 lbs/yr,	Critical	Owner,			25 Years +
AG26	Hwy E and EA	acres	(Private)	situated along Somers Branch	cropland	TSS = 135 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	northeast of										
	intersection of	75 /		75.6 acres of privately owned cropland	Utilize no-till soil conservation practice and	TN = 298 lbs/yr,	0.11				25.37
AG27	Lichter Rd and 100th Ave	75.6	Owner (Private)	located at headwaters of South Branch Pike River Tributary R (PCTR)	install agricultural filter strips on private	TP = 152 lbs/yr, TSS = 102 tons/yr	Critical	Owner, Farm	NRCS, WIN	Not Applicable	25 Years + (2039+)
AG2/	northeast of	acres	(Private)	Pike River Tributary R (PCTR)	cropland	155 – 102 tons/yr	Area	гапп	INICS, WIIN	Not Applicable	(2039+)
	intersection of			74.8 acres of privately owned cropland	Utilize no-till soil conservation practice and	TN = 295 lbs/yr,					
	Lichter Rd and Co	74.8	Owner	located along South Branch Pike River	install agricultural filter strips on private	TP = 150 lbs/yr,	Critical	Owner,			25 Years +
AG28	Hwy H	acres	(Private)	Tributary R (PCTR)	cropland	TSS = 101 tons/yr		Farm	NRCS, WIN	Not Applicable	(2039+)
	northwest of		()	86.9 acres of privately owned cropland					, , , , , , , , , , , , , , , , , , , ,	FF 5333	(* 1 1)
	intersection of			located east of South Branch Pike River,	Utilize no-till soil conservation practice and	TN = 342 lbs/yr,					
	Lichter Rd and St	86.9	Owner	near junction of South Branch Pike River	install agricultural filter strips on private	TP = 174 lbs/yr,	Critical	Owner,			25 Years +
AG29	Hwy 31	acres	(Private)	Tributary S (PCTS)	cropland	TSS = 117 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	southeast of										
	intersection of			77.4 acres of privately owned cropland	Utilize no-till soil conservation practice and	TN = 305 lbs/yr,					
	Lichter Rd and Co	77.4	Owner	located at headwaters of South Branch	install agricultural filter strips on private	TP = 155 lbs/yr,	Critical	Owner,			25 Years +
AG30	Hwy H	acres	(Private)	Pike River Tributary Q (PCTQ)	cropland	TSS = 104 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)
	southwest of					FD 1 (40 " /					
	intersection of	455.4		155.1 acres of privately owned cropland	Utilize no-till soil conservation practice and	TN = 610 lbs/yr,	C : 1				25.37
A C 21	Lichter Rd and Co	155.1	Owner (Driverte)	located along South Branch Pike River	install agricultural filter strips on private	TP = 311 lbs/yr, $TSS = 200 tang/yr$	Critical	Owner,	NID CC WILNI	Not A1:1-1-	25 Years +
AG31	Hwy EA	acres	(Private)	Tributary Q (PCTQ)	cropland	TSS = 209 tons/yr	Area	Farm	NRCS, WIN	Not Applicable	(2039+)

ID#		Units (size/	Owner (public or		W W . D	Pollutant Reduction	n	Responsible	Sources of Technical	C .F.	Implementation Schedule
AG32	southeast of intersection of Lichter Rd and Canadian Pacific North Railway	100.0 acres	Owner (Private)	Existing Condition 100.0 acres of privately owned cropland located east of South Branch Pike River, near junction of South Branch Pike River Tributary Q (PCTQ)	Management Measure Recommendation 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	Priority Critical Area	Entity Owner, Farm	Assistance NRCS, WIN	Cost Estimate 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 north off of Co	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	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+)

		Units	Owner			Pollutant		D	Sources of		Implementation
ID#	Location	(size/ length)	(public or private)	Existing Condition	Management Measure Recommendation	Reduction Efficiency	Priority	Responsible Entity	Technical Assistance	Cost Estimate	Schedule (Years)
PRIO	RITY GREE	ENIN			CTION AREAS (see Figu	re 72)	<u> </u>	-			
					space or implement conservation design is high b		/permitting	and construction	n costs.		
	between KR										
	County Line Rd and 7th St and from the			802 acres (9 parcels) of private cropland within Green Infrastructure Network							
	western watershed			along School Tributary; future land use		Pollutant reduction			Consultant,		When
	border and South	802	Owner	predicted to change to more intense land	Incorporate Conservation Design standards	cannot be assessed	Critical		WDNR,		development
GI08	Branch Pike River	acres	(Private)	uses	into future development plans	via modeling	Area	Developer	Somers	10% less than traditional*	resumes
	south of 7th St			668.9 acres (13 parcels) of private		· ·					
	from the western			cropland within Green Infrastructure	Acquire, naturalize, and protect parcel as						
	watershed border			Network along Somers Branch; future	natural area/open space or incorporate	Pollutant reduction			Consultant,		When
GT00	and South Branch	668.9	Owner	land use predicted to change to more	conservation design standards in future	cannot be assessed	Critical	D 1	WDNR,	40071	development
GI09	Pike River	acres	(Private)	intense land uses	development plans	via modeling	Area	Developer	Somers	10% less than traditional*	resumes
	southeast of intersection of 7th										
	St and of Canadian					Pollutant reduction		Owner,	Consultant,		When parcel(s)
	Pacific North	40.4	Owner	40.4 acres of private cropland	Acquire, naturalize, and protect parcel as	cannot be assessed	Critical	Hawthorn	WDNR,		become available
GI10	Railway	acres	(Private)	immediately west of Hawthorn Hollow	natural area/open space	via modeling	Area	Hollow	Somers	Not Applicable	for purchase
	j		,						Consultant,	**	•
	northeast of			11.3 acres of private land owned by the	Acquire (in process of being acquired and will	Pollutant reduction			USACE,		When parcel(s)
	intersection of 7th	11.3	Owner	HoChunk Nation within the Green	be doing a wetland restoration and naturalize	cannot be assessed		Owner,	WDNR,		become available
GI11	St and 13th Ave	acres	(Private)	Infrastructure Network	and and recreational trails etc)	via modeling	High	Somers	Somers	Not Applicable	for purchase
	west of Union				Ailil	· ·			C = ===1t===t	•	
	Pacific North			4 agricultural parcels to the east of the	Acquire, naturalize, and protect parcel as natural area/open space or incorporate	Pollutant reduction			Consultant, USACE,		When parcel(s)
	Railway and north	255.4	Owner	main branch of Pike River between	conservation design standards in future	cannot be assessed		Owner,	WDNR,		become available
GI12	of Co Hwy E	acres	(Private)	County Highways A and E	development plans	via modeling	High	Somers	Somers	Not Applicable	for purchase
	just north of		(, , , , , , , , , , , , , , , , , , ,	and application of the second					The state of the s	I I I
	intersection of Co			Neumiller Woods - 7.9 acre site within		Pollutant reduction					When parcel(s)
	Hwy E and 80th			the Green Infrastructure Network	Naturalize and protect parcel as natural	cannot be assessed			Consultant,		become available
GI13	Ave	7.9 acres	Somers	recently acquired by the Town of Somers	area/open space	via modeling	High	Somers	WDNR, Parks	Not Applicable	for purchase
	just northeast of					D. II 1					W 1()
	intersection of Co Hwy E and 80th	23.9		Gitzlaff - 23.9 acre site within the Green Infrastructure Network recently acquired	Naturalize and protect parcel as natural	Pollutant reduction cannot be assessed			Consultant,		When parcel(s) become available
GI14	Ave	acres	Somers	by the Town of Somers	area/open space	via modeling	High	Somers	WDNR, Parks	Not Applicable	for purchase
5111	roughly along	20100	Comers	by the Town of Joiners	шей, орен орисс	via modelling	111811	Comers		1 tot 11ppicable	Tot parenase
	Lichter Rd between			669.7 acres (13 parcels) of private							
	the western			cropland within Green Infrastructure							
	watershed border			Network along PCTR & PCTQ west of		Pollutant reduction			Consultant,		When
0-:-	and South Branch	669.7	Owner	Cty Hwy EA; future land use predicted	Incorporate Conservation Design standards	cannot be assessed	Critical		WDNR,		development
GI15	Pike River	acres	(Private)	to change to more intense land uses	into future development plans	via modeling	Area	Developer	Somers	10% less than traditional*	resumes
	east of South			431.7 acres (7 parcels) of private cropland within Green Infrastructure							
	Branch Pike River			Network along South Branch between		Pollutant reduction			Consultant,		When
	between Lichter Rd	431.7	Owner	18th St & Cty Hwy S; future land use	Incorporate Conservation Design standards	cannot be assessed	Critical		WDNR,		development
GI116	and Co Hwy S	acres	(Private)	predicted to change to more intense uses	into future development plans	via modeling	Area	Developer	Somers	10% less than traditional*	resumes
	east of Kenosha		, ,	532.1 acres (7 parcels) of private	*	Ĭ		•			
	Regional Airport			cropland within Green Infrastructure							
	and west of South			Network along South Branch Pike River					Consultant,		
	Branch Pike River	F20.4	0	south of Cty Hwy S; future land use		Pollutant reduction	0 1		WDNR,		When
GI17	between Co Hwy S and K	532.1	Owner (Private)	predicted to change to more intense land	Incorporate Conservation Design standards into future development plans	cannot be assessed via modeling	Critical Area	Developer	Somers, Kenosha	10% less than traditional*	development
G11/	and K	acres	(1 Hvate)	uses	into ruture development pians	via inodelling	Mied	Developer	IXCHOSHA	1070 iess man tradiuonai	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)
				EASURES (see Figure 6							
Technical a	ınd Financial Assistar	ice Needs:	Technical and	l financial assistance needed to implement the	ese projects varies depending on complexity.						
	southwest of Co Hwy A and St Hwy										
	31 (just north of	11.0	Owner	Remnant but degraded oak savanna with	Restore savanna community by removing					\$66,000 to remove invasive	1-10 Years (2014-
42I	Hawthorn Hollow)	acres	(private)	abundance of young sugar maple	young maples and seeding understory	N/A	High	Owner	Consultant	trees; \$16,500 for seeding	2024)
			,							\$10,000 to expand and restore	,
				Existing wetland in agricultural field that		TN = 26 lbs/yr,				buffer; \$3,000/year	
	north of Co Hwy E		Owner	is draining adjacent non-sewered		TP = 5 lbs/yr,			NRCS,	maintenance for 3 year	10-25 Years
41C	at end of 10th Pl	3.4 acres	(private)	subdivision	Manage existing wetland and install buffer	TSS = 4 tons/yr	High	Owner	Consultant	establishment period	(2024-2039)

STURTEVANT											
ID#		Units (size/	Owner (public or	Existing Condition	Management Measure Recommendation	Pollutant Reduction	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule
	Location	length)	private)			Efficiency	Priority	Entity	Assistance	Cost Estimate	(Years)
DETH	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.											
	South of residential			Two existing wet bottom detention						\$42,300 to design & install	
	units on			basins in Kirkoria Nature Preserve in	Design and implement project to install a					prairie buffer & emergent	
	Westminster Drive			Sturtevant; basin 20C is buffered by turf	native prairie vegetation buffer, install native	TN = 257 lbs/yr,				plants; \$3,000/year	
	and North of	5.1 total		grass; basin 20D buffered by unkept	emergent plants along shoreline, and maintain	TP = 63 lbs/yr,	Critical	Parks,		maintenance for 3 year	1-10 Years (2014-
20C, 20D	Broadway	acres	Sturtevant	turf/old field vegetation	for three years to establish	TSS = 36 tons/yr	Area	Sturtevant	Consultant	establishment period	2024)
	South of residential units on Majestic Hills Drive and West			Existing wet bottom detention basin adjacent to Chicory Creek servicing large residential area; most of buffer is unkept	Design and implement project to install a native prairie vegetation buffer, and maintain	TN= 45 lbs/yr, TP = 11 lbs/yr,	Critical			\$4,200 to design & install prairie buffer & emergent plants; \$2,000/year maintenance for 3 year	25 Years +
28B	of Willow Road	0.9 acres	Sturtevant	turf grass with heavy willow sprouting	for three years to establish	TSS = 6 tons/yr	Area	Sturtevant	Consultant	establishment period	(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)
	·				tiffee years to combining	100 110010/ 91	111811	Business	Consultant	establishment period	(2021 2037)
WETI	WETLAND RESTORATION (see Figure 64)										
Technical	and Financial Assista	nce Needs:	Wetland resto	pration projects are typically complex and rec	quire high technical and financial assistance needs	to protect land, design	, construct,	monitor, and ma	intain the restorati	ion.	
	East of Co Rd H and South of State Hwy	21.3	Owners	21.3 acres of drained wetland on private agricultural land at headwaters of Chicory Creek; future land use predicted	Incorporate wetland restoration into future development plans by using area as wetland	TN= 187 lbs/yr, TP = 33 lbs/yr,	Critical	Owner,	USACE, WDNR, NRCS, WIN,	\$320,000 to design/permit/install/maintai	10-25 Years (2024-2039), or as development
W07	11	acres	(private)	to be residential	detention	TSS = 22 tons/yr	Area	Developer	Consultant	n wetland	resumes
*****	Northwest of the	ucres .	(privace)	to be residential	determen	22 tono, ji	11100	Beveloper	USACE,	n wedana	10-25 Years
	interstection of			60.9 acres of drained wetland on private	Incorporate wetland restoration into future	TN = 526 lbs/yr,			WDNR,	\$610,000 to	(2024-2039), or as
	Braun Road and	60.9	Owners	agricultural along Chicory Creek; future	development plans by using area as wetland	TP = 94 lbs/yr,	Critical	Owner,	NRCS, WIN,	design/permit/install/maintai	development
W09	90th St	acres	(private)	land use predicted to be residential	detention	TSS = 61 tons/yr	Area	Developer	Consultant	n wetland	resumes
			SC	26.6 acres of drained wetland along					USACE,		25 Years +
	Northwest corner of		Johnson,	Waxdale Creek, draining approximately	Incorporate wetland restoration into future	TN = 35 lbs/yr,			WDNR,	\$400,000 to	(2039+), or as
	Willow Rd and	26.6	WE	52 acres; future land use predicted to be	development plans by using area as wetland	TP = 7 lbs/yr, 5		SC Johnson,	NRCS, WIN,	design/permit/install/maintai	development
W04	Durand Avenue	acres	Energies	commercial/retail	detention	tons/yr	High	WE Energies	Consultant	n wetland	resumes
RIPA	RIAN AREA	1 & A (GRICU	LTURAL SWALE RE	STORATION & MAINT	ENANCE	(see F	igure 65)			
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.										er, costs can be	
		1	Owners								
			(private),								
			Mount								
			Pleasant,							\$125,600 to install and restore	
	Tributary to North		Sturtevant,		Remove invasive shrubs and trees from	TN = 13 lbs/yr,				buffer; \$7,000/year	
	Branch just north of	15.7	SC	15.7 degraded riparian acres along both	existing buffer; restore degraded riparian area	TP = 2 lbs/yr, TSS	Critical	Owner, MP,	NRCS,	maintenance for 3 year	1-10 Years (2014-
PRWC	State Highway 11	acres	Johnson	banks of Waxdale Creek (PRWC)	using a natural ecological restoration approach	= 1 tons/yr	Area	Sturtevant	Consultant	establishment period	2024)
	Tributary to North Branch north of	15.6	Owners (private),	15.6 degraded riparian acres along both	Improve and expand buffer to 30 feet minimum in agricultural areas; restore degraded riparian area using a natural	TN= 22 lbs/yr, TP = 3 lbs/yr, 1	Critical	Owner,	NRCS, Consultant, WIN,	\$46,800 to expand and restore buffer; \$7,000/year maintenance for 3 year	1-10 Years (2014-
PRCC	Braun Road	acres	Sturtevant	banks of Chicory Creek (PRCC)	ecological restoration approach	tons/yr	Area	Farm, HOA	Sturtevant, MP	establishment period	2024)
	2.14411 1044	acres	C COST CC + MIII	Summer of Sincory Greek (Fixed)		10110/ y1	rirea	, 110/11	J 1011 10 1 1111 1 1111	combininini period	

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)
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.											
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+)
PRIORITY GREEN INFRASTRUCTURE PROTECTION AREAS (see Figure 72)											
Technical and Financial Assistance Needs: 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