MOUNT PLEASANT

ID#	Location	Units (size/ length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
STREAMBANK & CHANNEL RESTORATION											
Technical and Financial Assistance Needs: Stream restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with stream maintenance is generally low for minor tasks such as removing debris.											
Pike River Reach 9 (PR09)	Pike River from just south of State Highway 11, south to State Highway 31	12,024 lf	Owners (mostly private)	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+)
RAVINE RESTORATION											
Technical and Financial Assistance Needs: Ravine restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with ravine maintenance is generally low for minor tasks such as removing debris.											
Ravine just east of RCOC Park (32B)	east of RCOC Park and Sheridan Rd between Derby Ave and Chicory Rd	440 lf	Owners (Private)	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)
BROWNFIELD RESTORATION											
Technical and Financial Assistance Needs: Brownfield restorations are complex and require high technical and financial assistance needs to conduct feasibility studies, ecotoxicology studies, protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences.											
Case Brownfield Site (25A)	east of Sheridan Rd and Durand Ave	97 acres	Business (Private, currently for sale)	97 acre former Case site located along Lake Michigan and draining approximately 500 acres; site covered in old paved surfaces	Conduct feasibility study to determine nature of contaminants in soil and water; if feasible, remove asphalt cap and contain underlying contaminated material; naturalize site and restore to native prairie	TN= 1,728 lbs/yr, TP = 235 lbs/yr, TSS = 112 tons/yr	Critical Area	Business, MP	USACE, WDNR, WIN, Consultant	$100,000 to conduct feasibility study to determine necessary remediation and potential uses; Additional costs dependent on results of feasibility study	1-10 Years (2014-2024)
DETENTION BASIN & POND RETROFITS & MAINTENANCE											
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.											
21D	Southwest of Loni Lane	9.7 acres	Mount Pleasant	Existing dry bottom detention basin with newly planted turf grass; some areas are inundated with water; very little vegetation present	Design for retrofit completed, implement project to install native prairie and wetland vegetation within basin and buffer and maintain for three years to establish	TN= 490 lbs/yr, TP = 120 lbs/yr, TSS = 68 tons/yr	Critical Area	Mount Pleasant	Consultant	$97,500 to design and implement project to remove turf grass and revegetate with native prairie vegetation; $5,000/year maintenance for 3 year establishment period	25 Years + (2039+)
W15	South of Hw 11 along Pike River to just south of Braun Rd	113.5 acres	Mount Pleasant, Owners (private)	Drained wetland on private agricultural along Pike River Reach 9; future land use not predicted to change, therefore site could potentially be acquired by the Village of Mount Pleasant in conjunction with ongoing restoration	Incorporate wetland restoration into furture stream restoration work along Pike River	TN= 982 lbs/yr, TP = 175 lbs/yr, TSS = 113 tons/yr	Critical Area	Owner, MP	USACE, WDNR, NRCS, Consultant	$900,000 to design/permit/install/maintain wetland bank; fair market value for purchase land if required	10-25 Years (2024-2039)

SOMERS

ID#	Location	Units (size/ length)	Owner (public or private)	Existing Condition	Management Measure Recommendation	Pollutant Reduction Efficiency	Priority	Responsible Entity	Sources of Technical Assistance	Cost Estimate	Implementation Schedule (Years)
STREAMBANK & CHANNEL RESTORATION											
Technical and Financial Assistance Needs: Stream restorations are complex and require high technical and financial assistance needs to protect land, design, construct, monitor, and maintain the restoration. The project becomes more complex in areas that flow through several governing bodies or multiple private residences. Technical and financial assistance associated with stream maintenance is generally low for minor tasks such as removing debris.											
Pike River Reach 10 (PR10)	Pike River from State Highway 31 to County Trunk Highway A	6,277 lf	Owners (private)	6,277 lf of stream with sporadic areas of highly eroded streambanks and heavy debris jams; riparian area is dominated by invasive trees	Selectively restore streambanks using bioengineering techniques and improve channel using riffles; remove problematic debris jams; selectively remove invasive trees	TN= 1,537 lbs/yr, TP = 768 lbs/yr, TSS = 768 tons/yr	Critical Area	Somers, Farm, Owner	USACE, Consultant, WDNR, NRCS	$30,000 design/permit; $160,000 install and debris jam removal; $35,000 tree removal	10-25 Years (2024-2039)
Pike River Reach 11 (PR11)	Pike River within Petrifying Springs Park from County Trunk Highway A to park boundary or junction of Pike River Tributary D	8,154 lf	Petrifying Springs Park (public)	8,154 lf of stream with moderately eroded banks within Petrifying Springs Park; riparian area dominated by many invasive trees	Selectively restore streambanks using bioengineering techniques; remove problematic debris jams; selectively remove invasive trees	TN= 1,054 lbs/yr, TP = 527 lbs/yr, TSS = 527 tons/yr	Critical Area	Parks	USACE, Consultant, WDNR	$35,000 design/permit; $200,000 install and debris jam removal; $30,000 tree removal	10-25 Years (2024-2039)
Pike Creek Reach 4 (PC04)	Pike Creek from just north of State Highway 158 at junction of Airport Branch, north to junction of Pike Creek and Somers Branch	20,004 lf	Owners (mostly private)	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)
RAVINE RESTORATION											
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 of Lakeshore Dr (39A)	southeast of County Line Rd and State Highway 32	1,359 lf	Owners (Private)	1,359 lf of heavily eroded ravine east of Lakeshore Dr and draining directly into Lake Michigan; ravine buffer is dominated by invasive shrubs	Design, permit, and implement ravine stabilization project	TN= 1,334 lbs/yr, TP = 667 lbs/yr, TSS = 667 tons/yr	Critical Area	Owner, Somers	USACE, Consultant, WDNR	$50,000 to design and permit; $350,000 to install	1-10 Years (2014-2024)
WETLAND RESTORATION											
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.											
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 Pike Creek; future land use predicted to be open space and industrial/business park	Incorporate wetland restoration into future development plans by using area as wetland detention	TN=1,264 lbs/yr, TP = 291 lbs/yr, TSS = 202 tons/yr	Critical Area	Owner, Developer	USACE, WDNR, NRCS, WIN, Consultant	$930,000 to design/permit/install/maintain wetland	10-25 Years (2024-2039), or as development resumes