

Appendix A: Implementation Schedule

Goal/Task	Milestone	Desired Outcome	Phase 1 1 to 5 Years	Phase 1 Cost	Phase 2 6 to 10 Years	Phase 2 Cost	Phase 3 11 to 20 Years	Phase 3 Cost	Funding Source	Responsible Party
Goal 1: Work to Develop Consistent Policies										
Objective 1: Identify Land Uses										
Task 1: Assign a responsible party to identify land uses	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 2: Meet with city and county planning staff for land use policy review on an annual basis	Existing land use summary from the region.	This will be used to ensure consistent policy building throughout the region	Complete land use review annually	N/A	Review current and future land use annually	N/A	Review current and future land use annually	N/A	N/A	WMA/Jurisdictions
Objective 2: Utilize Comprehensive Plans as a Tool										
Task 1: Assign a responsible party to compile comprehensive plan information	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 2: Use comprehensive plans to create development standards	Development standards for the watersheds.	This will be used to ensure consistent policy building throughout the region	Complete policy review, ordinance adoption	N/A	Adjust policies as needed	N/A	Adjust policies as needed	N/A	N/A	WMA/Jurisdictions
Task 3: Meet with city and county planning staff for comprehensive plan review on an annual basis	Existing comprehensive plan summary from the region.	This will be used to ensure consistent policy building throughout the region	Complete comprehensive plan review annually	N/A	Complete comprehensive plan review annually	N/A	Complete comprehensive plan review annually	N/A	N/A	WMA/Jurisdictions
Objective 3: Encourage Development Which Protects the Watershed										
Task 1A: Stormwater management requirements	100% Adoption	All eligible jurisdictions adopt stormwater management requirements	100% of Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	N/A	WMA/Jurisdictions
Task 1B: Require infiltration of water quality volume	100% Adoption	Up to 100% sediment reduction: filter bacteria, phosphorus, and hydrocarbons	50% Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	N/A	WMA/Jurisdictions
Task 1C: Require extended detention of channel protection volume	100% Adoption	Reduction of channel erosion, increased filtration and infiltration	50% Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	N/A	WMA/Jurisdictions
Task 2: Promote construction of regional detention basins	300 ac-ft total detention from regional projects	Reduce flooding more effectively, reduce maintenance costs, recreational opportunities	100 ac-ft of storage	\$2,000,000	100 ac-ft of storage	\$2,000,000	100 ac-ft of storage	\$2,000,000	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 3: Develop and promote consistent standards for development	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 4: Prairie pothole preservation during development	50 ac-ft	Up to 100% sediment reduction: Mitigate flooding, channel erosion, and increase infiltration	10 ac-ft	No funding needed	20 ac-ft	No funding needed	20 ac-ft	No funding needed	N/A	WMA/Jurisdictions
Task 5: Adopt unified sizing criteria	100% Adoption	All eligible jurisdictions adopt unified sizing criteria	100% of Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	25% Jurisdictions Adopt	No funding needed	N/A	WMA/Jurisdictions
Objective 4: Adopt Unified Philosophy Targeted Towards Development										
Task 1: Develop and promote consistent implementation of regional guidelines and standards	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 2: Develop an incentives program for installing/retrofitting for green street infrastructure	6,000 Linear Feet of permeable pavers, back of curb infiltration, etc.	Coordinate with MPO on Tomorrow Plan, Reduction of channel erosion and urban sediment transport	1,000 linear feet	\$100,000	2,500 linear feet	\$250,000	2,500 linear feet	\$250,000	Implementation Grants/Jurisdictions/SW Utility/Streetscape Funding	WMA/Jurisdictions
Objective 5: Develop "Checklist" for Use When Approving Developments										
Task 1: Create and implement a smart growth checklist	Smart Growth Checklist	Provide a smart growth checklist for development within the watershed	Develop and implement smart growth checklist	N/A	Continue to promote and update checklist	N/A	Continue to promote and update checklist	N/A	N/A	WMA/Jurisdictions
Task 2: Review outcomes from Objectives 3 and 4 to help refine the checklist	Updated and refined checklist	Frequently update the checklist, as needed, to provide the best resources for development	Monitor results from Objectives 3 and 4 and modify the checklist accordingly	N/A	Monitor results from Objectives 3 and 4 and modify the checklist accordingly	N/A	Monitor results from Objectives 3 and 4 and modify the checklist accordingly	N/A	N/A	WMA/Jurisdictions
Goal 2: Increase community support and awareness										
Objective 1: Generate Opportunities for Citizen Participation and Support										
Task 1: Develop a website and engage schools	Website	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Enhance website presence	\$20,000, \$5,000/yr maintenance	Website maintenance	\$5,000/yr	Website maintenance	\$5,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 2: Launch and maintain a stream cleanup	Stream Cleanup Program	Get watershed residents out to get a hands on experience within the creeks and watershed	Develop and promote program, as well as incorporate feedback from each event	\$10,000, \$1000/yr	Continue to gather feedback and improve program	\$1000/yr	Continue to gather feedback and improve program	\$1000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Objective 2: Develop and Promote Educational Programs										
Task 1: Conduct and promote several types of educational programs	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below
Task 1A: Implementation	Work Sessions	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Visit council and board work sessions to educate and inform	N/A	Visit council and board work sessions to educate and inform	N/A	Visit council and board work sessions to educate and inform	N/A	N/A	WMA/Jurisdictions
Task 1B: Implementation	Field Days	Inform watershed residents of the WMA, its plan, and ways they can contribute.	1 Urban Field Day per year 1 Ag Field Day per year	\$1000/yr	1 Urban Field Day per year 1 Ag Field Day per year	\$1000/yr	1 Urban Field Day per year 1 Ag Field Day per year	\$1000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1C: Implementation	Speaker Series	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Speakers in conjunction with one of the other activities (Field Days, Workshops, etc.)	N/A	Speakers in conjunction with one of the other activities (Field Days, Workshops, etc.)	N/A	Speakers in conjunction with one of the other activities (Field Days, Workshops, etc.)	N/A	N/A	WMA/Jurisdictions

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Task 1D: Implementation	"Speed Dating" Sessions	Inform watershed residents of the WMA, its plan, and ways they can contribute.	1 Session every 5 years	\$500	1 Session every 5 years	\$500	1 Session every 5 years	\$1,000	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1E: Implementation	Current Staff Utilization	Inform watershed residents of the WMA, its plan, and ways they can contribute.	WMA members should establish relationships with city and county staff	N/A	WMA members should establish relationships with city and county staff as they turn over	N/A	WMA members should establish relationships with city and county staff as they turn over	N/A	N/A	WMA/Jurisdictions
Task 1F: Implementation	Local Media/TV	To promote accomplishments in a light worthy for a human interest story for media realtions	1 Feature every 2 years	N/A	1 Feature every 2 years	N/A	1 Feature every 2 years	N/A	N/A	WMA/Jurisdictions
Task 1G: Implementation	Panel of Experts	Experts to guide and inform from the field regarding the effectiveness of practices.	Coordinate with work session, field day, and "Speed Dating" tasks	N/A	Coordinate with work session, field day, and "Speed Dating" tasks	N/A	Coordinate with work session, field day, and "Speed Dating" tasks	N/A	N/A	WMA/Jurisdictions
Task 1H: Implementation	Direct Mail Campaign	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Direct mail campaign for 1 practice a year	\$5,000/yr	Direct mail campaign for 1 practice a year	\$5,000/yr	Direct mail campaign for 1 practice a year	\$5,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1I: Implementation	Information Meetings	Inform watershed residents of the WMA, its plan, and ways they can contribute.	1 information meeting per year	\$1,000/yr	1 information meeting per year	\$1,000/yr	1 information meeting per year	\$1,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1J: Implementation	Focus Groups	Inform watershed residents of the WMA, its plan, and ways they can contribute.	1 focus group meeting every year	\$1,000/yr	1 focus group meeting every year	\$1,000/yr	1 focus group meeting every year	\$1,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1K: Implementation	Agricultural Retail Outreach	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Provide information from direct mail campaign at this locations	\$500/yr	Provide information from direct mail campaign at this locations	\$500/yr	Provide information from direct mail campaign at this locations	\$500/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1L: Implementation	Surveys	Inform watershed residents and the members of the WMA through feedback.	1 online survey per year	\$1,000/yr	1 online survey per year	\$1,000/yr	1 online survey per year	\$1,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1M: Implementation	Workshops	Inform watershed residents of the WMA, its plan, and ways they can contribute.	1 practitioner type workshop per year	\$1,000/yr	1 practitioner type workshop per year	\$1,000/yr	1 practitioner type workshop per year	\$1,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1N: Implementation	On Farm Learning Network	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Develop a network of farms as learning farms for potential adopters	N/A	Revisit network of farms to remove or add	N/A	Revisit network of farms to remove or add	N/A	N/A	WMA/Jurisdictions
Task 1O: Implementation	SWCD Awards	SWCD will give awards at the local level prior to going to the State Fair WMA Day	Conduct award program for County WMA winners	N/A	Continue to conduct award program for County WMA winners	N/A	Continue to conduct award program for County WMA winners	N/A	N/A	County SWCD and WMAs/Jurisdictions
Task 1P: Implementation	State Fair WMA Day	Inform watershed residents of the WMA, its plan, other regional WMAs, and ways they can contribute.	Conduct WMA Days at the State Fairgrounds and Obtain Feedback	N/A	Continue to hold WMA days and review feedback for changes	N/A	Continue to hold WMA days and review feedback for changes	N/A	N/A	WMA/Jurisdictions
Task 2: Designate Outdoor Teaching Facilities	Designate Outdoor Teaching Facilities for all 4 Goals	Coordinate outdoor teaching facilities with goal champions so potential adopters can see practices in action	4 outdoor facilities	N/A	Revisit teaching facilities every year for removal or additions	N/A	Revisit teaching facilities every year for removal or additions	N/A	N/A	Goal Champions
Objective 3: Coordinate Community Outreach Programs and Events										
Task 1: Assign a responsible party for community outreach programs	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 2: Seek additional partnerships to support community outreach programs	Enhanced Partnerships	Successful Community Outreach Programs	Build partnerships, as well as develop and implement community outreach programs	N/A	Continue to maintain and seek partnerships, in addition to improving community outreach programs	N/A	Continue to maintain and seek partnerships, in addition to improving community outreach programs	N/A	N/A	WMA/Jurisdictions
Objective 4: Support Programs that Encourage Conservation Practices										
Task 1: Identify funding needs to support conservation practices	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below	See Tasks Below
Task 1A: Pooled Resources	Enhance or provide pooled resources for WMA.	Utilize pooled resources for implementing priority tasks	Pooled Resources	As available	Pooled Resources	As available	Pooled Resources	As available	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 1B: Legislative Funding	State Land & Water Legacy Funding	Develop alternative funding sources for priority projects.	Legislative direct mail campaign, Capital Visit Day	\$1,000/yr	Reassess need	N/A	Reassess need	N/A	N/A	WMA/Jurisdictions
Task 1C: Grants	Identify grants that align with the WMA goals and objectives.	Obtain grant funding to support the implementation of the plan	Apply for Applicable Grants	As available	Apply for Applicable Grants	As available	Apply for Applicable Grants	As available	N/A	WMA/Jurisdictions
Task 2: Develop incentives program for conservation practices	Enhance or provide incentives programs at \$50,000/yr	Approve incentives for best management practices with an emphasis on pollutant reductions and water quality improvement.	Incentives Program - reduce pollutants depending on practices employed	\$50,000/yr	Incentives Program - reduce pollutants depending on practices employed	\$50,000/yr	Incentives Program - reduce pollutants depending on practices employed	\$50,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 2A: Cover Crops	4,000 acres (10% of ag watershed)	Reduction in sediment transport, up to 31% N reduction, up to 31% reduction in P on treated fields.	1,000 acres	\$30,000/yr	1,000 acres	add'l \$30,000/yr	2,000 acres	add'l \$60,000/yr	USDA/Implementation Grants/Jurisdictions/State/Land Owners	WMA/Jurisdictions
Task 2B: Grassed waterways	10 stream miles	Reduction in sediment transport, up to 43% N reduction, up to 58% reduction in P on treated fields.	2.5 stream miles	\$15,000	2.5 stream miles	\$15,000	5 stream miles	\$30,000	USDA/Implementation Grants/Jurisdictions/State/Land Owners	WMA/Jurisdictions
Task 2C: Stream Buffers	10 stream miles (steep side slope + 50 ft on each side)	Reduction in sediment transport, up to 43% N reduction, up to 58% reduction in P on treated stream segements.	2.5 stream miles	\$30,000	2.5 stream miles	\$30,000	5 stream miles	\$60,000	USDA/Implementation Grants/Jurisdictions/State/Land Owners	WMA/Jurisdictions
Task 2D: Strip Tillage	Reduce Conventional tillage to strip till by 2000 acres in corn	Reduction in sediment transport, up to 33% reduction in P compared to chisel plow on affected field.	500 acres	Owner Adoption	500 acres	Owner Adoption	1000 acres	Owner Adoption	UDSA, PSWCD, WMA education	WMA/Jurisdictions

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Task 2E: No Tillage	Increase no till by 200 acres in soybeans	Reduction in sediment transport, up to 90% reduction in P compared to chisel plow on affected field.	50 acres	Owner Adoption	50 acres	Owner Adoption	100 acres	Owner Adoption	USDA, PSWCD, WMA education	WMA/Jurisdictions
Task 2F: Edge of Field/Tile Treatments	Install bioreactors, saturated buffers, etc. at 100 (or 10%) of outlets	Reduction in sediment transport, up to 52% N reduction, up to 85% reduction in P upstream of treatment.	20 outlets	\$200,000	20 outlets	\$200,000	60 outlets	\$600,000	USDA/Implementation Grants/Jurisdictions/State/Land Owners	WMA/Jurisdictions
Objective 5: Showcase the Efforts of Property Owners Who Demonstrate Conservation Leadership										
Task 1: Develop and implement an award/recognition program	Incentives for watershed residents to implement practices personally	This will give the individuals a chance to try practices and personally promote them	Incentives program of \$10,000 over a 5 year period	\$10,000	Incentives program of \$10,000 over a 5 year period	\$10,000	Incentives program of \$10,000 over a 5 year period	\$20,000	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 2: Develop incentives program for conservation practices	Consult Goal 2, Objective 4, Task 2	Consult Goal 2, Objective 4, Task 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 3: Develop BMP Database/Documentation	Develop BMP Database	Publish BMP practices on Mud, Camp, and Spring Creek Watershed website	Develop database and publish	\$10,000, \$3,000/yr maintenance	Database monitoring and maintenance	\$3,000/yr	Database monitoring and maintenance	\$3,000/yr	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Goal 3: Enhance natural resources character and function										
Objective 1: Develop Incentives Programs										
Task 1: Convene with partners to assess how to structure the incentives program and future enhancements	Structured Incentives/Enhancement Programs	A comprehensive incentives program will be developed and successfully utilized.	Hold meetings with partners to evaluate incentives and implement an incentives program	N/A	Continue to implement the incentives program and make changes as needed	N/A	Continue to implement the incentives program and make changes as needed	N/A	N/A	WMA/Jurisdictions
Task 2: Develop partnership board with various organizations to conduct assessments and gain support	Establish a Partnership Board	A partnership board will be developed and gaining ongoing support towards incentives.	Form partnership board and hold meetings	N/A	Continue to gain support via the partnership board	N/A	Continue to gain support via the partnership board	N/A	N/A	WMA/Jurisdictions
Objective 2: Promote Conservation of Open Space										
Task 1: Assign a responsible party to identify areas likely for easement/buy-out	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Task 2: Review completed watershed assessment work to assess possible conservation open space areas	Complete review of watershed assessment work already completed to determine potential open space areas	Potential conservation open space areas will be identified	Review completed watershed assessment work and identify potential sites	N/A	Implement conservation of open space areas and continue to review any potential sites	N/A	Implement conservation of open space areas and continue to review any potential sites	N/A	N/A	WMA/Jurisdictions
Objective 3: Promote Thoughtful Consideration of Land Use Planning										
Task 1: Determine policy modifications or additions for potential broad-based adoption	Collectively review and identify policy modifications	Potential broad-based adoption of policies	Review policies that apply to the watershed for modifications or improvements and promote implementation	N/A	Review policies that apply to the watershed for modifications or improvements and promote implementation	N/A	Review policies that apply to the watershed for modifications or improvements and promote implementation	N/A	N/A	WMA/Jurisdictions
Task 2: Assess developer ownership and the impact on future soil and water health	Complete assessment of developer ownership and possible impacts to the watershed	Identify any future actions that need to be taken to protect future soil and water health	Conduct assessments of developer ownership and impacts and next steps	N/A	Continue to conduct assessments of developer ownership and impacts and next steps	N/A	Continue to conduct assessments of developer ownership and impacts and next steps	N/A	N/A	WMA/Jurisdictions
Task 3: Natural Resources Overlay District	Natural Resources Overlay District for Planning Purposes	This will be used to ensure consistent implementation throughout the region	N/A	N/A	Establish Natural Resources Overlay District	\$50,000	Update to Natural Resources Overlay District	\$10,000	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Objective 4: Develop and Preserve Open Space Areas to Serve as Buffers and Habitat Protection										
Task 1: Identify sites and determine minimum buffer and/or setback limits unique to each site	Identify sites to establish buffer/setback limits	For each applicable site, minimum buffers/setback limits will be determined	Identify sites and establish limits for each	N/A	Continue to identify sites and establish limits	N/A	Continue to identify sites and establish limits	N/A	N/A	WMA/Jurisdictions
Task 2: Assign a responsible party to determine if conservation easements are needed	Consult Overall Tasks Section	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Objective 5: Utilize Recreational Opportunities to Promote Conservation and Greenway Preservation/Adoption										
Task 1: Improve the understanding of recreational opportunities	Educate Watershed Residents	An improved understanding of recreational opportunities within the watershed	Develop educational program and promote	N/A	Continue to promote and improve program	N/A	Continue to promote and improve program	N/A	N/A	WMA/Jurisdictions
Task 2: Main Channel Greenway	Reserve the 0.2% Floodplain (500 Year), Purchase, easement, or dedication	Stream stability, reduce streambank erosion, flood loss mitigation, habitat restoration	0.2% floodplain on 5% of area (applies to Mud and Spring Creeks, due to Camp not currently being mapped)	\$2M if all land has to be purchased (Approx. 100 acres at \$20K/ac)	0.2% floodplain on 5% of area (applies to Mud and Spring Creeks, due to Camp not currently being mapped)	\$2M if all land has to be purchased (Approx. 100 acres at \$20K/ac)	0.2% floodplain on 10% of area (applies to Mud and Spring Creeks, due to Camp not currently being mapped)	\$4M if all land has to be purchased (Approx. 200 acres at \$20K/ac)	When needed: WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions

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Task 3: Tributary Greenway Network	Reserve the 0.2% Floodplain (500 Year) on main tributaries, Purchase or dedication	Stream stability, reduce streambank erosion, flood loss mitigation, habitat restoration	Map 0.2% Floodplain on large tributaries up to 1 sq mi. of drainage area	\$100,000	Reserve 0.2% floodplain on main tributary area as available	\$1M if all land has to be purchased (Approx. 50 acres at \$20K/ac)	Reserve 0.2% floodplain on main tributary area as available	\$1M if all land has to be purchased (Approx. 50 acres at \$20K/ac)	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 4: Stream Corridor	Continue to buy parcels located in the mapped floodplain	Stream stability, reduce streambank erosion, flood loss mitigation, habitat restoration	Purchase properties as funding is available and owners are willing	\$875,000 (Approx. 5 properties)	Purchase properties as funding is available and owners are willing	\$875,000 (Approx. 5 properties)	Purchase properties as funding is available and owners are willing	\$1,750,000 (Approx. 10 properties)	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Goal 4: Identify and address soil and water issues										
Objective 1: Establish Monitoring Programs										
Task 1: Review PCCB's water quality monitoring plan	Monitoring Protocol for Mud, Camp, and Spring Creeks	Align and coordinate Mud, Camp, and Spring Creeks monitoring protocol with regional & state standards	Develop Monitoring Protocol for Mud, Camp, and Spring Creeks	N/A	Revisit Monitoring Protocol for Mud, Camp, and Spring Creeks for new priorities and monitoring data	N/A	Revisit Monitoring Protocol for Mud, Camp, and Spring Creeks for new priorities and monitoring data	N/A	N/A	WMA/Jurisdictions
Task 2: Partner with PCCB, DNR, and Polk SWCD to identify water monitoring sampling locations and protocols	Operational monitoring program	Total Suspended Solids, Nitrate+Nitrite as N, Total Phosphate as P, DO, Chloride, pH, Temperature	Designate record keeper, investigate continuous monitoring at sites	N/A	Continue implementation of monitoring program	N/A	Continue implementation of monitoring program	N/A	WMA Members, Grants, Donors, Agriculture Group Partnering	Polk County Conservation
Task 3: Habitat Assessment Methodology	Habitat Assessment Methodology for Mud, Camp, and Spring Creeks	Align and coordinate Mud, Camp, and Spring Creek Habitat Assessment methodology with regional & state standards	Develop Habitat Assessment Methodology for Mud, Camp, and Spring Creek	N/A	Revisit Habitat Assessment Methodology for Mud, Camp, and Spring Creek for new priorities and monitoring data	N/A	Revisit Habitat Assessment Methodology for Mud, Camp, and Spring Creek for new priorities and monitoring data	N/A	N/A	WMA/Jurisdictions
Task 3A: Conduct Annual Biological Assessments	Biological Assessment completed in May, July, or September at each monitoring location	Watershed Coordinator coordinate with Polk County Conservation	Assessment every May, July, or September	N/A	Assessment every May, July, or September	N/A	Assessment every May, July, or September	N/A	N/A	Polk County Conservation
Task 4: Compile past information completed in the watershed and monitoring data	Evaluate established information available in the watershed	Collect established water quality monitoring results and other watershed assessments	Conduct water quality monitoring and establish data, as well as conduct necessary watershed assessments	N/A	Continue to collect and gather data and conduct watershed assessments	N/A	Continue to collect and gather data and conduct watershed assessments	N/A	N/A	WMA/Jurisdictions
Task 5: Identify funding alternatives to conduct additional water quality monitoring	Consult Goal 2, Objective 4, Task 1	Consult Goal 2, Objective 4, Task 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Objective 2: Develop Water Quality Improvement Strategies										
Task 1: Modify Approaches based on Monitoring Data	Revised Watershed Plan	To ensure the practices being implemented throughout the watershed are meeting goals	N/A	N/A	Modify Management Plan based on monitoring data	\$40,000	2nd & 3rd Modifications to Management Plan based on monitoring data	\$80,000	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	WMA/Jurisdictions
Task 2: Constituent Reduction Emphasis	Prioritize practices that will reduce sediment and bacteria	This will ensure Mud, Camp, and Spring Creeks are not impaired based on designated use	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WMA/Jurisdictions
Task 3: Secondary Reduction Emphasis	If funding is advantageous, target practices that will reduce N and P	This will allow the priority constituents to be reduced and go above and beyond the main mission	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WMA/Jurisdictions
Task 4A: Bacteria Sources	Investigate and inspect systems to locate source problems throughout watershed.	100% reduction of bacteria from those systems, Develop GIS Database, Coordinate Education Meetings with Sanitarian Trainings, Test for caffeine to determine human vs. animal.	25 inspections per year. Start GIS Database.	Owner	25 inspections per year.	Owner	25 inspections per year.	Owner	Owner, Iowa DNR, Polk County	Polk County
Task 4B: Bacteria Sources	Reduce bacteria input from pasture land. Offer incentive to 3 landowners for creating and implementing conservation plans.	100% reduction of bacteria from this source	3 property owners (125 acres)	\$9,000/year	3 property owners (125 acres)	\$9,000/year	3 property owners (125 acres)	\$9,000/year	Cost Share: WMA, Grants, Donors, Agriculture Group Partnering	WMA/Jurisdictions
Task 5: Wetland Mitigation Bank	Establish wetland banking sites utilizing coordination with other regional WMAs	Reduce sediment transport, bacteria, up to 52% reduction in N, up to 85% reduction in P for the portion of watershed upstream of wetland site	Complete site assessments to determine sites, Complete Corps permitting, set mitigation cost	\$100,000	1 - 50 ac wetland site	\$2,000,000	1 - 50 ac wetland site	\$2,500,000	Initially: WMA, Grants, Donors, Agriculture Group Partnering, Long Term: Wetland Banking Fees, Long Term Maintenance: Jurisdictions/Polk County Conservation	WMA/Jurisdictions
Task 6: Native Prairie Plantings	Establish or require 100 acres of native plantings	Create promotional material on native plantings, watershed coordinator & jurisdictions work with owners to integrate into properties and crops. Surface reduction of sediment (95%), P (90%), N (84%) from treated fields.	10 acres	\$10,000	20 acres	\$20,000	70 acres	\$70,000	WMA, Grants, Donors, Agriculture Group Partnering, Property Owners	STRIPS Program - Jennifer Welch
Task 7A: Streambank Restoration (Mud, Camp, and Spring Creeks)	Restore/Stabilize (see report) priority stream miles of the main channel (approx 10 miles)	Reduction of sediment loading by 0.25 ton/year/ft of channel. Total for 10 miles = 11,000-12,000 ton/year	5 stream miles	\$5,000,000 (estimate for rural - both banks)	5 stream miles	\$5,000,000 (estimate for rural - both banks)	Reassess need	\$30,000	WMA, Grants, Donors, Agriculture Group Partnering, Developers	WMA/Jurisdictions

Goal/Task	Milestone	Desired Outcome	Phase 1 1 to 5 Years	Phase 1 Cost	Phase 2 6 to 10 Years	Phase 2 Cost	Phase 3 11 to 20 Years	Phase 3 Cost	Funding Source	Responsible Party
Task 7B: Streambank Restoration (Tributaries)	Restore/Stabilize priority stream miles of tributary channels (approx 10 miles)	Reduction of sediment loading by 0.25 ton/year/ft of channel. Total for 10 miles = 11,000-12,000 ton/year	2 stream miles	\$2,000,000 (estimate for rural - both banks)	2 stream miles	\$2,000,000 (estimate for rural - both banks)	6 stream miles	\$6,000,000 (estimate for rural - both banks)	WMA, Grants, Donors, Agriculture Group Partnering, Developers	WMA/Jurisdictions
Objective 3: Develop Water Quality and Quantity Models										
Task 1: Assign a responsible party to develop and store base water quantity and quantity models	Complete water quality and quantity models for all three watersheds	Five year water quality and water quantity model updates for all three watersheds	Designate responsible party, Establish water quality monitoring data and develop water quantity models	Water Quality: N/A Water Quantity: \$152,250	Develop water quality model	Water Quality: \$60,000 Water Quantity: N/A	Update water quality and quantity models	Water Quality: \$70,000 Water Quantity: \$60,000	WMA, Grants, Donors, Agriculture Group Partnering, Developers	WMA/Jurisdictions
Task 2: Analyze results of models for strategy development	Next steps for developing strategies identified	All water quality and quantity models will be analyzed for the watershed and strategies will be developed that will provide the most benefit to the watersheds	Information will be gathered for the models and water quantity models developed	N/A	Water quality model will be developed, Evaluate water quantity models and develop strategies	N/A	Analyze water quality and quantity models, based on updates and develop strategies	N/A	WMA, Grants, Donors	WMA/Jurisdictions
Objective 4: Identify High Priority Areas for Flood Management										
Task 1: Compile previously completed models to identify high priority areas	Identify flood management high priority areas	High priority areas will be identified for further evaluation for best management for the watersheds	Compile available models	N/A	Compile any updated or new models	N/A	Compile any updated or new models	N/A	N/A	WMA/Jurisdictions
Task 2: Meet with city and county planning staff to discuss future flood loss mitigation	Next steps for future flood loss mitigation are determined	The Watershed Coordinator will work with the jurisdictions to determine the best course of action for future flood loss mitigation	Hold meetings with city and county planning staff	N/A	Continue to hold meetings with city and county planning staff, as needed	N/A	Continue to hold meetings with city and county planning staff, as needed	N/A	N/A	WMA/Jurisdictions
Objective 5: Use Data to Develop Policies and Make Decisions										
Task 1: Develop partnerships to define and compile relevant information	Develop Partnerships with Various Groups	Evaluate established information available in the watershed to make informed decisions	Collect established data available to develop policies	N/A	Continue to collect established data available to develop policies	N/A	Continue to collect established data available to develop policies	N/A	N/A	WMA/Jurisdictions
Task 2: Develop an education plan regarding development impacts and policies	Education Plan	Inform watershed residents of the WMA, its plan, and ways they can contribute.	Develop tailored education plan	N/A	Refine education plan based on feedback, new priorities, and monitoring data	N/A	Refine education plan based on feedback, new priorities, and monitoring data	N/A	N/A	WMA/Jurisdictions
Overall Tasks That Fall Under Multiple Objectives										
Task 1: Hire a Watershed Coordinator	Designate Watershed Coordinator	Hire full-time employee to oversee implementation plan.	Develop 28E for Funding split, Hire Coordinator	\$50,000/yr plus benefits	Maintain full-time employee	\$60,000/yr plus benefits	Maintain full-time employee	\$70,000/yr plus benefits	WMA, Grants, Donors, Agriculture Group Partnering	WMA/Jurisdictions
Task 2: Identify Strategy Champions	Identify Champion for each of the 4 Goals and Objectives, as appropriate	To ensure efficient and sustained implementation of management plan	Create an organization of champions for each goal	N/A	Maintain List or designate new as needed	N/A	Maintain List or designate new as needed	N/A	N/A	WMA/Jurisdictions
Task 3: Regional Collaboration Mechanism	Regional WMA Collaboration Committee	This will be used to ensure consistent implementation throughout the region	Establish Regional WMA Collaboration Committee	N/A	Maintain Regional WMA Collaboration Committee	N/A	Maintain Regional WMA Collaboration Committee	N/A	N/A	WMA/Jurisdictions
Task 4: Develop Model Ordinance	Review Existing Model Ordinances for Incorporation Into Watershed	Develop Model Ordinance	Form subcommittee to review existing model ordinances, draft and adopt final ordinance	N/A	Continue to review and update ordinance as needed	N/A	Continue to review and update ordinance as needed	N/A	N/A	WMA/Jurisdictions
ESTIMATED COST										
Total Estimated Cost				\$13,430,250		\$16,393,000		\$20,616,000		
Average Cost Per Year - By Phase				\$2,686,050		\$3,278,600		\$2,061,600		
Average Cost Per Year - Entire Plan								\$2,521,963		