

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Funding; Non-Phase II)	
Plans & Policies								
1. Identify facilitating body, organizational structure, and decision-making mechanism for the subwatershed group.	Minimal; costs to host meetings can be shared by communities; communication can be primarily via email. \$40-\$60/hour/representative; \$100-\$150/hour consultant. Approximately \$2,000 per meeting. (Subwatershed Representatives; CRWC; and Consultant Assistance)	Documentation of progress, including formalization of the group, meeting minutes.	100					Attendance at meetings and participation by Stony/Paint Subwatershed Group; Meet at least four (4) time per year.
2. Obtain community commitments of support for operation of and participation in subwatershed group.	Minimal; costs can be shared by participating entities. \$40-\$60/hour/representative; \$100-\$150/hour consultant. Approximately \$1,000 per permittee. (Individual Subwatershed Representatives)	Resolutions of support from governing bodies.	100					100% of representatives support ongoing participation in subwatershed group. Mechanism established in first year.

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3. Establish a mechanism for the subwatershed group to research, report on, and pursue financing options.	Minimal; costs can be shared by participating entities. \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representatives; CRWC; and Consultant Assistance)	Documentation of efforts in meeting minutes, including number of grants pursued.	88	6	6			Staff and CRWC send emails on grant notifications; provide handouts at meetings
4. Foster relationships and coordinate efforts with other subwatershed groups.	Minimal; costs can be shared by participating entities. \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representatives; CRWC; and Consultant Assistance)	Documentation of efforts in meeting minutes.	100					Staff across subwatersheds attend meetings of different groups, including other Clinton River subwatershed groups(Upper Clinton, Clinton Main, Red Run, North Branch, Clinton River East).
5. Participate in regional planning efforts.	Minimal; costs can be shared by participating entities. \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representatives; CRWC; and Consultant Assistance)	Documentation of efforts in meeting minutes.	94		6			Attendance at meetings and participation by Stony/Paint Subwatershed Group.

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6. Collaborate with the Clinton River Area of Concern Public Advisory Council (PAC) and participate in Remedial Action Plan updates.	Minimal; costs can be shared by participating entities. \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representatives; CRWC; and Consultant Assistance)	Documentation of efforts in meeting minutes.	94			6		Attendance at regional meetings and participation by Stony/Paint Subwatershed Group; Coordinate at least one presentation annually on status of PAC and RAP at Stony/Paint meeting by 2006.
14. Develop comprehensive sanitary sewer infrastructure plans.	\$5,000-\$20,000 Master Plan (Subwatershed Representative and Consultant Assistance)	Completed Master Plan	31	6	31	32		37% have completed master plans within the first 5-years of implementation.
15. Develop and implement local Storm Water Master Plans, including stormwater management ordinances and maintenance programs (see also Action 15 under Development / Redevelopment Regulations and Design Standards & Maintenance Practices).	Using existing templates tailor to individual community needs. \$2,000 - \$12,000 depending on level of detail. Implementation of BMPs listed in Table 5.3 and C.5 range from \$10,000 - \$200,000+/BMP. (Subwatershed Representative and Consultant)	Completed ordinance / design standards.	38	38	6	12	6	76% of permittees have updated storm water ordinances within the first 5-years of implementation.

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22. Develop and implement a long-term monitoring strategy. (2-part program consisting of using volunteer monitoring and long-term sampling programs).	Volunteer monitoring \$15,000 annually; long-term water quality sampling program \$200,000; long-term modeling efforts \$150,000. (CRWC Assistance)	Volunteer monitoring ongoing-track progress; long-term dependent on funding availability.	34	10		3	16	44% provide support or participate in CRWC ongoing volunteer monitoring program.
28. Inventory natural features and develop Natural Resource Protection Plans.	~\$15,000-\$50,000 per community depending on size and whether field surveys are utilized. (Subwatershed Representative and Consultant Assistance)	Plan is prepared and utilized during site planning review processes. Oakland Township has completed this process. Rochester has virtually no remaining natural areas that are not already under protection.	6	6		19	69	12% permittees complete in first 5-years. Of the 12%, inventory completed within first 3-years. Plan developed by fifth year.
36. Develop a Stony/Paint Green Infrastructure Plan	Staff time from Oakland County and community participation. \$100/hour with approximately 80 hours/community. (Subwatershed Representatives and Assistance from Counties)	Overall map is created as a guiding document for long-term planning efforts.	31	31		19	19	Underway with three permittees in first 2-years; completion with remaining permittees in 5-years.

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37. Participate in and promote the Southeast Michigan Greenways Network and related county trail and greenway development projects.	Staff time to attend meetings regarding potential projects. \$40-\$60/hour/representative; \$100-\$150/hour consultant.	Documentation of efforts in meeting minutes, including grants pursued.	75		6	13	6	All communities supporting these efforts by providing comments/input on proposed projects on an as-needed basis. Obtain 75% participation for input when requested.
40. Review existing data regarding the presence of PCBs and mercury in Stony Creek Lake, Lake Orion and Lakeville Lake and develop Total Maximum Daily Load plans to restore as required under Clean Water Act Section 303(d).	Costs have not been developed.	TMDL plans developed and implemented					100	Not yet determined

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			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
41. Gather and evaluate current and historic fisheries data and establish fisheries restoration targets.	Staff time to attend meetings regarding potential projects, commenting on studies and surveys. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$1,000-\$5,000 per community. (CRWC, Subwatershed Representatives and Consultant Assistance)	Data is collected and restoration targets/potential actions are implemented. Completed MDNR report reviewed	43		6	38	13	Studies ongoing by MDNR, Trout Unlimited, CRWC. Completed MDNR Report. 50% review within first 5-years.
42. Encourage communities and county agencies to incorporate fisheries restoration measures into local plans, ordinances, and standards.	\$3,000-\$8,000 per community. (Subwatershed Representatives and Consultant Assistance)	Reference to fisheries incorporated into other documents	13	19	6	38	24	32% of permittees incorporate information as applicable within first 5-years.
44. Inventory existing access points and recreation opportunities to identify gaps and needed improvements.	Cost based on preparation of recreation master plan. \$10,000-\$30,000. (Subwatershed Representatives and Consultant Assistance)	Plan includes recreational opportunities and amenities in master plan.	62		6	19	13	62% of permittees have existing plans; 68% will have plans within 10-years.

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45. Evaluate opportunities to expand recreation access through acquisition and conservation easements and integrate these opportunities into local recreation plans.	Cost associated with time to identify parcels and incorporate on overall subshed map (\$10,000-\$20,000); property acquisition variable costs. (Subwatershed Representatives and Consultant Assistance)	Communities/counties incorporate into local plans; funding opportunities identified and procured for property acquisition.	44		6	25	25	44% have ongoing programs to evaluate these opportunities.
47. Identify and prioritize prime farmland for protection.	Review agricultural lands; draft and finalize recommendations. 80-120 hours @ \$100-\$150/hour (consultant). Costs are per community, but could be reduced through joint effort. (Subwatershed Representatives)	Prioritized list is developed. Communities/counties develop recommendations to protect farmland.	13	13		74		26% of permittees will develop prioritized list within first 5-years.

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48. Integrate farmland protection priorities into community master plans and ordinances.	Review agricultural lands; draft and finalize recommendations. 80-120 hours @ \$100-\$150/hour (consultant). Costs are per community, but could be reduced through joint effort. (Subwatershed Representatives and Consultant Assistance)	Priorities are integrated into plans/ordinances.	19		6	75		19% have ongoing programs
49. Support farmland preservation programs.	Cost associated with supporting current preservation programs by providing comment/input. \$40-\$60/hour/representative; \$100-\$150/hour consultant. Approximately \$2,000 annually. (Subwatershed Representatives)	Communities pass resolutions and/or incorporate support for farmland preservation into local plans.	6	13		75	6	19% will pass resolutions and/or incorporate into local plans within first 5-years.

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52. Integrate historic preservation goals into community master plans.	Review agricultural lands; draft and finalize recommendations. 80-120 hours @ \$100-\$150/hour (consultant). Costs are per community, but could be reduced through joint effort. (Subwatershd Representatives and Consultant Assistance)	Historic preservation goals are integrated into master plans.	31	6		38	25	37% will incorporate into local planning efforts within first 5-years.
52B. Explore opportunities to develop historic preservation ordinances.	\$5,000 per community. (Subwatershed Representative)	Communities develop ordinance.	13	6		38	43	19% will develop ordinance or have completed evaluation and determined not to develop ordinance within first 5-years.
Development / Redevelopment Regulations								

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			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
12. Review land use planning and management practices to promote Low Impact Development (LID).	Research planning and management practices; review local plans; draft and finalize recommendations. 80-120 hours @ \$100-\$150/hour. Costs are per community. Implementation costs associated with LID BMPs (Table 5.3 and C.4) vary depending on BMP. (Subwatershed Representative and Consultant Assistance)	Communities incorporate LID practices into the site plan planning process; maintain current level of imperviousness.	38	13	13	23	13	51% will have incorporated LID practices within first 5-years.
13. Reduce directly connected impervious surfaces through the implementation of Low Impact Development Plans.	Costs associated with staff/consultant review of site plans, storm water plans and engineering plans. \$40-\$60/hour/representative; \$100-\$150/hour consultant. Costs for implementation see Action 12. (Subwatershed Representative and Consultant Assistance)	Implementation of ordinances that impact directly connected impervious surfaces.	33	23	6	19	19	56% implement ordinances that impact directly connected impervious surfaces within first 5-years.

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15. Develop and implement local Storm Water Master Plans, including stormwater management ordinances and maintenance programs (see also Action 15 under Plans/Policies and Design Standards & Maintenance Practices).	Using existing templates tailor to individual community needs. \$2,000 - \$12,000 depending on level of detail. Implementation of BMPs listed in Table 5.3 and C.5 range from \$10,000 - \$200,000+/BMP. (Subwatershed Representative and Consultant Assistance)	Completed ordinance / design standards.	38	38	6	12	6	76% of permittees have updated storm water ordinances within the first 5-years of implementation.
54. Implement soil erosion and sedimentation control (SESC) ordinances or standards.	\$2,000 - \$10,000 cost to review/update/prepare ordinance. (Subwatershed Representative and Consultant Assistance)	Counties and selected communities implementing ordinance.	19			81		19% have ongoing programs; remaining do not have SESC authority
55. Develop or modify private road ordinances or standards to incorporate impervious surface reduction techniques.	\$2,000 - \$10,000 cost to review/update/prepare ordinance. (Subwatershed Representative and Consultant Assistance)	Counties and selected communities implementing ordinance,	25			62	13	25% have ongoing private road ordinances

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25. Implement local fertilizer ordinances, standards, or guidelines.	\$2,000-\$5,000 cost to review/draft ordinance. (Subwatershed Representative and Consultant Assistance)	Adoption of ordinance/guidelines.		25	6	6	63	25% of permittees will adopt ordinance within first 5-years.
27. Implement on-site sewage disposal system ordinances and/or maintenance programs.	Research and develop rules and technical guidelines for property owners. 80-120 hours @ \$100-\$150/hour (consultant). \$3,000 legal review and \$10,000 per year for coordination of program. (Subwatershed Representative and Consultant Assistance)	Counties initiate development of the ordinance and adopts. Macomb County has adopted a time-of-sale ordinance.	13			87		Applicable to Counties only. Counties have ongoing programs.
29. Develop water resource and natural feature protection ordinances (includes Natural Features Setback Ordinance, Resource Protection Overlay District, Wetlands Ordinance, Tree/Woodland Preservation Ordinance, Steep Slope Ordinance, Weed Ordinance).	Using existing templates tailor to individual community needs. \$2,000-\$12,000per ordinance depending on level of detail. (Subwatershed Representative and Consultant Assistance)	Municipalities are in various stages of adopting/updating these types of ordinances.	30	9	4	37	20	39% will have adopted/updated water resources ordinances within first 5-years.

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Design Standards and Maintenance Practices								
15. Develop and implement local Storm Water Master Plans, including stormwater management ordinances and maintenance programs (see also Action 15 under Plans/Policies and Development/Redevelopment Regulations).	Using existing templates tailor to individual community needs. \$2,000 - \$12,000 depending on level of detail. Implementation of BMPs listed in Table 5.3 and C.5 range from \$10,000 - \$200,000+/BMP. (Subwatershed Representative and Consultant Assistance)	Completed ordinance / design standards.	38	38	6	12	6	76% of permittees have updated storm water ordinances within the first 5-years of implementation.

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16. Establish detention basin maintenance programs.	Incorporate maintenance requirements into ordinance and/or standards; actual maintenance varies; \$1,000 - \$50,000 depending on maintenance needs(erosion repair, riprap repair, dredging, buffer construction, native plant enhancement, outlet repair, embankment repair, unclogging of structures) (Subwatershed Representative and Consultant Assistance)	Community includes a section within the Stormwater Management Ordinance that requires detention basin maintenance both during construction and after appropriate long-term owners take over responsibility for the basin; creates a final draft through a series of input meetings, and adopts it.	50	19	19		12	69% will incorporate maintenance requirements into ordinances within first 5-years.
17. Establish detention basin retrofit and enhancement programs.	Costs variable depending on work involved. \$5,000-\$100,000+ per basin. (Subwatershed Representative; Consultant; and Private Property Owners)	Number of basins enhanced; pollutants addressed and quantity.					100	Identify basins in need of retrofitting in developed areas. Identify funding mechanisms. Presently Section 319 Grant Application under review by MDEQ.

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18. Develop and implement native vegetation guidelines.	\$2,000-\$5,000 per community; may be incorporated into landscape or storm water ordinance. Implementation \$15,000-\$50,000 per acre. (Subwatershed Representative and Consultant Assistance)	Community implements guidelines into storm water BMP review process and other areas as feasible.	13	13	13	6	55	26% of permittees will implement native vegetation guidelines within first 5-years.
19. Establish street sweeping and catch basin cleaning programs.	\$50,000 Per year lease; \$30\$40/hour operator for 150 days/year; Mechanical broom sweeper \$100k; Vacuum Sweeper \$150k - \$250k; \$250 - \$1000 per catch basin insert. (Subwatershed Representative)	Miles of streets swept or parking lot areas; # of catch basins cleaned; lbs/tons material captured; or number of truckloads.	55			45		55% have ongoing programs.

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20. Identify and eliminate illicit discharges.	Approximately \$1,000 per streammile for investigation; correction varies dramatically depending on nature of problem. Communities should coordinate efforts with counties and/or may wish to contract with counties. \$40-\$60/hour/representative for outfall surveys; \$100-\$150/hour consultant for outfall surveys. (Subwatershed Representative and Consultant Assistance)	Community/county implements IDEPs	81	13		6		94% of permittees identify and eliminate illicit discharges.
57. Improve soil erosion inspection and enforcement practices.	Increased staffing and enforcement - approximately \$50,000 per year. (Subwatershed Representative)	Community/county expands inspection/enforcement program. Track number of complaints/violations and enforcement actions.	19			81		Ongoing programs through Counties.

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58. Work with county road commissions to improve maintenance of unpaved roads.	\$10,000-\$20,000 to research, conduct meetings and evaluate BMP alternatives. Prepare guidance for implementation by counties and communities as applicable. (Subwatershed Representative and Consultant)	List of practices reviewed within first 2-years. Road commissions review and revise practices. Coordinate with local communities on road improvements. Sensitive areas are targeted for special consideration.			69	31		Counties/communities initially convene in meetings; 3 initial meetings within first 2-years. Alternatives reviewed and evaluated within first 6 years; Long-term feasible alternatives begin implementation within 10-years.
59. Prioritize and implement streambank stabilization projects. (See 5.4b for breakdown of 3 specific tasks)	Bioengineering costs range from \$20 - \$120 per lineal foot; road crossings may require structural improvements at higher costs; additional stream surveys at \$3,000 per stream mile. (Subwatershed Representative; Consultant; CRWC and Volunteers)	Road crossings ranked thru existing surveys; other areas to survey; document lineal footage of streambank stabilized and address flow reduction upstream; lbs of sediment reduced from stabilization.	15	15		6	79	3 high priority road crossing areas within 5 years.

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50. Identify applicable Generally Accepted Agricultural Management Practices (GAAMPs) and develop a dissemination plan to distribute this information to local farmers.	Review practices and develop recommendations. 80-120 hours @ \$100-\$150/hr (consultant). (Subwatershed Representative and Consultant Assistance)	GAAMPs are identified and disseminated to farmers; number of farmers reached; monitoring results.		25		69	6	25% of permittees disseminate information to farmers within first 5-years.
24. Encourage golf course management programs that protect water quality.	Varies depending on activity (may include workshops, mailings, site visits). \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representative and Consultant Assistance)	Golf courses develop and implement management programs.	25	6	19	50		31% target golf course management within first 5-years.
31. Prevent and remove stream obstructions utilizing appropriate management techniques.	Community staff at \$60/hour; equipment costs range from \$80 - \$150/hour. Some projects may also be completed by volunteers with community oversight. (Subwatershed Representative and Consultant Assistance)	Project sites are prioritized and projects completed. Measure: number of sites restored, monitoring results.	6	13	6	13	62	19% of permittees prioritize sites within first 5-years.

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30. Identify, prioritize and implement projects to construct, restore, protect and enhance wetlands.	Prioritize based on Stony Creek RAM; conduct RAM in Paint Creek; \$50,000. Implement wetland construction/restoration \$80k/acre. (Subwatershed Representative and Consultant Assistance)	Wetland maps with priority areas; Measure acres of wetlands enhanced/constructed/protected or restored				6	94	Paint Creek subshed wide ~ 70 sq. miles to conduct RAM; prepare priority map for both
32. Identify, prioritize & implement projects to restore and enhance instream habitat.	Costs may be incorporated into the streambank stabilization activities; vary depending on type and size of project. \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representative; CRWC; Consultant and Volunteers)	Sites are identified and prioritized; number of sites/amount of stream habitat restored; monitoring results		38		13	49	Set priorities within 2 years; determine number of projects to implement in 5-yr time frame and construct. Coordinate with streambank priorities.
36. Develop a Stony/Paint Green Infrastructure Plan.	Costs associated with staff meetings and map preparation by county. \$5k per community. (Subwatershed Representative)	Plan is prepared	25	37	6	19	13	Underway with three permittees in first 2-years; completion with remaining permittees in 5-years.

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38. Develop and implement household hazardous waste collection programs.	Costs vary depending on whether municipalities are participating in a partnership or establishing their own program. \$5k - \$50k per year. (Subwatershed Representative)	Community develops and implements the program.	81		6	13		Reference ongoing Public Education Programs
39. Work with local and/or county agencies to research and implement BMP road de-icing techniques.	Requires adjustment of application rates and recalibration of equipment. Calcium chloride \$20/land mile extra, CMA \$65 / lane mile extra compared with salt. \$40-\$60/hour/representative; \$100-\$150/hour consultant. (Subwatershed Representative and Consultant Assistance)	Community / county reviews and modifies practices.	13		74	13		Counties/communities initially convene in meetings; 3 initial meetings within first 2-years. Alternatives reviewed and evaluated within first 6 years; Long-term feasible alternatives begin implementation within 10-years.

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43. Work with local, regional, and state organizations and agencies to implement fishery restoration projects.	Costs vary depending on type of project. Labor and materials may be donated. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; Consultant; CRWC and Volunteers)	Number of restoration projects completed.	25	13		37	25	38% will support/participate in restoration activities within first 5-years.
EDUCATION AND STEWARDSHIP								
7. Promote and/or participate in existing watershed education and outreach events, such as River Day and Clinton Clean-Up.	Costs vary depending on the type of activity; material donations can often be obtained from local businesses for special events. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of events; number of participants; outcome of stewardship project (e.g. quantity of trash collected, miles of stream cleaned).	100					Increase participation each year (through number of volunteers/participants or sites) by 5%.

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

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			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
8. Promote and/or participate in the watershed education and outreach activities of local organizations as outlined in community and county Public Education Plans.	Costs vary depending on the type of activity. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of events; number of participants; for workshops, pre-/post-surveys can be used to evaluate learning.	94			6		Increase promotion/participation in events by 5% annually.
9. Promote and participate in the Clinton River Watershed Council's stormwater education program, as outlined in community Public Education Plans.	\$10,000-\$11,000 per year for entire subwatershed; cost for each community is based on land area and population size. Additional in-kind services to be provided by communities, such as newsletters, cable TV coverage, etc. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of events; number of participants; pre-/post-surveys; monitoring results.	87			13		Promote on at least 50% of websites annually.

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
10. Develop and/or implement an education strategy targeted at riparian landowners.	~3,000 riparian parcels in the Stony Creek subwatershed; costs may include mailings (\$500-\$1000), workshops, stewardship projects, etc. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of activities; number of participants; pre-/post-surveys; monitoring of riparian areas.	19	19	37	19	6	Reference ongoing Public Education Programs
11. Promote and/or participate in education opportunities for land use decision-makers offered by the organizations identified in Action 8.	Varies by activity. Costs may be offset by attendance fees. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of activities; number of participants; pre-/post-surveys.	69		13	18		Reference ongoing Public Education Programs

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
21. Educate staff and contractors on "good housekeeping" practices, including proper fleet and service yard maintenance practices and landscaping activities.	Varies by activity; may include workshops, brochures, etc. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number / type of programs / materials distributed; documentation of changes in practices.	57	31	6	6		Reference ongoing Public Education Programs
56. Implement soil erosion and sedimentation control education programs.	Varies by type of education activity. Training - 40-80 hours at \$100/hr to prepare and coordinate workshop. Brochure printing - \$0.25 - \$1 each. (Subwatershed Representative and Consultant Assistance)	Number of activities; number of individuals reached; quantify of materials distributed.	13	6		81		Reference ongoing Public Education Programs
23. Implement lawn care education programs for residents and businesses.	Varies by type of education activity. Training - 40-80 hours at \$100/hr to prepare and coordinate workshop. Brochure printing - \$0.25 - \$1 each. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of activities; number of individuals reached; quantify of materials distributed; pre-/post-survey results; monitoring results.	68	13	6	13		Reference ongoing Public Education Programs

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
26. Implement an animal and pet waste management program.	Brochure printing: \$0.25 - \$1 each. Border Collie program - 80-120 hours @ \$100-\$150/hr to develop. Once in place requires 20-40 hrs/month. Park / common area signage additional. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of individuals reached / personal observation; quantity of materials distributed; pre- / post-survey results; monitoring results.	48	13	13	13	13	Reference ongoing Public Education Programs
33. Continue and expand litter and debris cleanup efforts.	Volunteer labor and donated materials and supplies can keep costs to a minimum. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer.	Number of sites / length of stream cleaned; number of participants; quantify of debris removed.	75	6		6	13	Reference ongoing Public Education Programs

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
34. Promote and participate in stewardship efforts coordinated by local organizations such as those listed in Action 8.	Volunteer labor and donated materials and supplies can keep costs to a minimum. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of activities; number of participants	87	13				Reference ongoing Public Education Programs
35. Encourage residential stormwater management practices.	Examples include rain barrels (\$100-250 each) and raingardens (\$250 - \$1,000). \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of residents implementing practices; survey results.	55	19	13	13		55% of permittees encouraging these practices within first year and total 74% within first 5-years.

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
46. Enhance recreational opportunities by coordinating with local and regional agencies, offering interpretive and educational programs and events.	Varies by activity. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of activities / participants; type of improvements.	16	6	10	13	55	16% identify opportunities within first year and another 6% within first 5-years.
51. Create an information clearinghouse and distribute information on historic sites in the watershed.	Costs can be minimal if conducted by volunteers. Brochures - \$0.25 - \$1 each. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Clearinghouse is developed and information distributed. Rochester Hills Museum at Van Hoosen Farms offers extensive materials.	31	6		44	19	37% have completed in first 5-years.

Table 5.4a Stony/Paint Creek Action Matrix Details (Cost, Evaluation, Level of Effort and Interim Milestones)

Watershed Management Alternatives/Actions/Best Management Practices	Estimated Cost and Technical/Financial Assistance*	Methods of Evaluation	Level of Effort (Number below Indicates Percent (%) of Total Representatives)					Interim Milestones
			Ongoing Activity	Completed in < 5 years	Completed in > 5 years	Not Applicable or County Standard	Wish List (Eligible for Grant Fundings; Non-Phase II)	
53. Coordinate with local volunteer organizations to promote preservation and interpretation of historic resources.	Costs for programming can be minimal if conducted by volunteers. Brochures - \$0.25 - \$1 each. \$40-\$60/hour/representative; \$100-\$150/hour consultant. \$10/hour volunteer. (Subwatershed Representative; CRWC and Consultant Assistance)	Number of activities, number of participants, quantity of materials distributed. Rochester Hills Museum at Van Hoosen Farm and Rochester-Avon Historical Society offer a variety of programs.	25	6		44	25	31% completed in first 5-years.

* Sources of Cost Estimates include the Middle One Rouge River Subwatershed Management Plan (2001); Mill Creek Watershed Management Plan; Kent Lake/Upper Huron River Watershed Management Plan; Cost Estimating Guidelines, Rouge River National Wet Weather Demonstration Project (1998).