

River Raisin Watershed Management Plan

FY05 Clean Water Act Section 319 Grant Proposal



Submitted By:
River Raisin Watershed Management Council
April 7, 2005
Revised August 12, 2005



Michigan Department of Environmental Quality
<http://www.michigan.gov/deq>

Environmental Science and Services Division

Appendix A
River Raisin Watershed Management Plan
Project Description

A. Statement of Water Quality Concerns/Issues

The River Raisin watershed covers roughly 1,072 square miles and contains approximately 429 lakes and ponds, more than 3,000 miles of artificial drainage systems, and 60 dams. Located in southeast Michigan, the River Raisin flows through northeast Hillsdale County, southeast Jackson County, southwest Washtenaw County, eastern Lenawee County, northern Fulton County in Ohio and mid-Monroe County before emptying into Lake Erie.

Several natural areas in the River Raisin have regional ecological significance. The mainstem of the river above Adrian has some of the richest mussel beds in the state of Michigan. Twenty-one species of mussels have been identified along with eighty species of fish----most of the original fishery. There are also several high quality, mesic hardwood forests, riparian and floodplain forests, prairie fens and remnant oak barrens in the upper watershed that support rare species such as the eastern massassauga rattlesnake, Blanchard's cricket frog, Indiana Bat and spotted turtle.

The lower 2.6 miles of the River Raisin has been identified by the International Joint Commission as one of Michigan's fourteen Areas of Concern (AOC) due to PCB and heavy metal contamination of fish and sediments. In addition, the Detroit Edison Monroe Power Plant at the mouth of the River Raisin remains a significant obstacle for fish migration, typically using the entire river's flow as cooling water.

In 2000, agriculture accounted for 65% of the watershed's land use; urbanized areas represented 11%, wetlands 8% and forested and grassland areas 7% each. There are 41 NPDES point-source dischargers and 13 public water supply systems in the watershed. During low flow periods most of the river and its tributary flow can be removed for consumptive uses. Some urbanizing areas are experiencing explosive growth pressures. Recently, massive 1,000+ unit single-family housing developments have been proposed for Milan and Saline. These watershed pressures have created sediment, nutrient, pesticide, pathogen and heavy metals loads, flow instability and habitat impairments. But one of, "...the greatest impediment[s] to beneficial change in the River Raisin is the poor public image of the river and its tributaries," (MDNR, 1998).

Currently there are 12 separate 303D water-quality impaired reaches and lakes along the Raisin River and its tributaries. Four reaches have TMDLs for untreated sewage discharge, pathogens, and PCBs. Other water quality impairments include pesticides, metals and turbidity. Fish consumption advisories due to PCBs have also been issued for three locations on the river.

B. Project Goals and Objectives

The overall goal of this project is to create a "living" document that promotes broad cooperation, provides ideas and momentum, prioritizes problems and opportunities, helps achieve the Total Maximum Daily Loads (TMDLs) and improves water-quality impairments.

The planning effort will engage a broad and diverse group of stakeholders over a two-year period. River Raisin watershed advocacy has now matured to the extent that stakeholders are clearly poised to take this next step. During this planning effort the momentum of the group's collective resources, ideas, and energy will be used to attract new stakeholders. The River Raisin watershed Project Team will try implementing improvement activities as part of the

planning process. Field trips, assessment training, and stream evaluations will get volunteers to stand knee deep in water, sifting river sediment through their fingers. Plan development will be led by a stakeholder advisory group (SAG) and technical review committee (TRC) comprised of the major stakeholders, including federal, state, county and local government organizations, non-profit groups, development interests, citizen watershed representatives and technical experts. The plan will focus on achieving five main objectives:

1. Better stakeholder coordination and dissemination of information to support resource planning and watershed improvement efforts
2. Identification of watershed-wide and subwatershed priorities
3. Improvement of the public education and public involvement process
4. Qualifying the watershed for implementation grant funding
5. Creation of an “implementable” and sustainable plan

1. Stakeholder Coordination and Information Dissemination

Better stakeholder data sharing will be achieved by improving the centralized “clearinghouse” of data and resources at the River Raisin Watershed Council. As part of the project, an expandable and exportable GIS-based watershed database will be built. The database will include all previous significant data-gathering efforts, as well as the data and results of the analyses developed during this project. Coordination will be enhanced with the use of an updated River Raisin watershed website that includes a watershed directory and interactive calendar of activities.

2. Identification of watershed-wide and subwatershed priorities

The SAG, TRC as well as communities, organizations and the public will be asked to develop a vision of the future watershed and identify sources and causes of impairments, goals and improvement ideas. A process for developing subwatershed priorities will be developed by the SAG and TRC and used for prioritizing problems and opportunities. Existing information and proposed activities will be collated and related spatially and temporally with the project GIS and quantitative tools. Potential inter-governmental conflicts will be identified. The quantitative tools will include hydrologic, hydraulic and water quality models of the mainstem and main tributaries. A gap analysis will identify critical missing data. The technical review subcommittee will provide scientific guidance and quality assurance oversight.

The water quality evaluation will include synoptic water quality and flow surveys to reflect relative conditions by subwatershed and systematically identify problems. Water quality data will also be gathered in TMDL reaches where new remediation activities are being implemented. Consumptive use data will be compiled and related to critical water quality issues (such as NPDES discharges during low flows). The assessment will include identification of priority improvement activities and areas, including landscape conservation and restoration opportunities, ordinances and BMP, and recreational opportunities at the subwatershed scale.

3. Improve public education and involvement process

The aims of improving the public education and involvement process are to 1) build a broader and more deeply educated stakeholder base 2) improve the river’s image 3) foster stewardship and 4) build a stronger, more extensive monitoring program. More importantly, this educated, energized group will provide a stronger political constituency to influence land use, conservation and restoration policies.

Improvement of the public education and involvement process will be accomplished by creating subwatershed groups; developing new educational materials and partnerships, and emphasizing hands-on river projects. Creation of the subwatershed groups will be opportunistic as the steering committee finds and develops local leaders for each subwatershed. This effort will benefit from the expansion of the Adopt-A-Stream Program initiated as part of this project. The program's expansion will include a Steward Education Program and a move to include volunteers of all ages. More primary and secondary school partnerships will be pursued. The RRWC will work with the River Raisin Stewardship Cluster to develop additional field work days, such as invasives removal and planting days.

4. Qualify the watershed for implementation funding

The RRWMP will address all the elements of the MDEQ CMI and USEPA-required elements for a WMP. These are a broad range of project elements that will make the plan eligible for funding both from the state of Michigan and the federal government.

5. Creation of an "implementable" and sustainable plan

The RRWMP will create a framework of realistic implementation activities and measurable goals. A long-term monitoring plan along with interim measurable milestones will be created to judge improvement success. The plan will use adaptive management techniques to provide flexibility for changing the implementation activities and, if necessary, changing the goals themselves. The River Raisin communities will also consider creation of a Cooperative Agreement, in the same manner as the Middle Huron Initiative, to cooperatively and voluntarily address TMDLs.

C. Organization Information

The lead organization for the RR WMP will be the River Raisin Watershed Council. The RRWC is dedicated to inspiring behaviors that promote stewardship to protect, preserve and enhance the River Raisin Watershed basin; its wetlands, lakes and tributaries for all living creatures through classroom and public education, water quality monitoring, river clean ups and encouragement of recreation activities. The RRWC's accomplishments include water quality monitoring, a new Adopt-A-Stream program, public education and outreach, and influencing change for the protection and preservation of the river and its tributaries. The River Raisin has administered the River Raisin Volunteer Clean-up grant (2000-01111), while the Lenawee Conservation District has administered six watershed grants from 1991 to present.

D. Partners and Related Funding

The RRWC will subcontract with 1) the Lenawee Conservation District for education program assistance; 2) the University of Michigan (led by Dr. David Allan) for natural resource assessments and technical evaluation and with 3) Ayres, Lewis, Norris & May, Inc. for plan coordination, quantitative assessments and technical assistance. To date, thirty partners have stepped forward to assist in plan development, technical review; to donate services and supplies and/or share data (see appendix). Most of the project partners will be volunteer members of the Stakeholder Advisory Group and/or the Technical Advisory Subcommittee. We expect the partner list to continue to grow.

Important partnerships and existing data sources that deserve more attention include:

1. Existing University of Michigan water quality, macroinvertebrate, fish and mussel database

2. The LSCD will be providing the education and information materials developed as part of the River Raisin Initiative
3. Lenawee County will be providing a 2005 county aerial that includes topography at 2-foot intervals
4. The Hydrologic Studies Group of the MDEQ will be providing hydrologic analysis assistance
5. The National Weather Service will be providing the River Raisin hydraulic model input files and stage and weather data
6. The United States Geological Survey will be providing River Raisin hydrologic and water quality data

In addition, the MDEQ Water Bureau is currently performing water quality analysis to examine the potential impacts of the use of agriculture buffer programs on the River Raisin. At least four Master's level research projects will be developed in conjunction with this project. The City of Monroe is working with a \$25,000 MDEQ Coastal Management Program grant for development of a City of Monroe Pilot Watershed Improvement project that will begin this month and conclude in October 2005. Two important federal agricultural water quality programs, the Conservation Security Program (CSP) and Conservation Reserve Program (CRP), are specifically targeting the River Raisin watershed. Both the CSP and CRP originate with the USDA and are voluntary conservation programs that provide funding for conserving, enhancing or restoring natural resources on private agricultural land. The WMP project partners hope to facilitate information sharing between the planning process and these other efforts.

E. Project Sustainability

By the time of plan completion, the SAG and TRC will have grown in size and influence. The planning effort will create a coordinated and focused core group with a clear agenda, including adaptive management techniques based on a long-term monitoring plan. In addition, subwatershed planning efforts will also be underway. As part of the planning effort the RRWC and the steering committee will work to establish permanent Environmental, Water Quality and Public Education/Involvement Tasks Forces to evaluate, recommend and assist with implementation of the RRWMP. The River Raisin Cooperative Agreement, if signed, will provide a strong public endorsement of the goals of the plan. In addition, the group will seek to develop creative public-private partnerships and sponsorships to develop additional implementation funding sources.

A strong emphasis will be placed on advocating and increasing recreational opportunities on and along the river. Trail, boat and fishing access in many areas of the river are poor. Despite some good fisheries, fishing pressures on the river are low. Increasing visibility, interaction and understanding of the river will be the most essential step to creating a sustainable plan. The River Raisin Assessment (MDNR, 1998) noted that, "An improved public image of the river would serve to foster an ethic of public stewardship that would act to drive all other beneficial changes."

F. Evaluation

For the WMP there will be several levels and instruments for accessing the success of the program. On the public side, there will be a before and after attitudes survey sent out to selected residents in the watershed to assess the impact of the public education/public involvement component of this project. In addition, as part of this project, a long-term plan for assessing public attitudes will be developed.

For water quality and hydrology, a long-term evaluation plan will be prepared (See Work Plan for details). The plan will include the macroinvertebrate surveys, as well as hydrologic and water quality indicators. There are several existing, long-term water quality and flow monitoring sites in the watershed. As part of this project a set of at least 16 coincident hydrologic, water quality and macroinvertebrate sites will be established. The long-term monitoring plan will rely on these sites to track long-term water quality and hydrology trends. Other measures to assess plan success will include the number of public meetings held, number and quality of survey responses, numbers of volunteer participants at plan activities, and the creation of any explicit planning or coordinating instruments (such as the Middle Huron Cooperative Agreement).

G. Project Summary

This is a Watershed Management Plan for the River Raisin Watershed in southeast Michigan. The River Raisin Watershed contains approximately 1,070 square miles of land in southeastern Michigan and a small portion of northwestern Ohio. Land use in the watershed is primarily agricultural (approximately 65% in 2000). Agricultural and urban non-point source pollution is causing excess erosion and siltation in the watershed. In addition, the watershed is beginning to experience extreme development pressures. Growth must be planned and developed in a manner that promotes a healthy economy and a healthy environment. The goals of this plan are to:

- Coordinate, inform and improve planning and implementation activities
- Establish eligibility for state and federal grant funds
- Increase stakeholder participation
- Foster stewardship
- Improve river image
- Improve impairments, both 303D listed and TMDL reaches

Work Plan for the River Raisin Watershed Management Plan

TASK 1. PLAN DEVELOPMENT FACILITATION

Estimated Percentage of Time: 15%

Staff Person or Agency Responsible: RRWC – G. Mitchell; SAG, TAC, ALNM

Development of the watershed plan will be led by a stakeholder advisory group (SAG). There will also be a technical review committee (TRC) that includes planners, engineers, biologists, hydrologists, developers, etc., to help interpret and guide technical aspects of the project. Over 30 organizations, including village, township, county, state and federal organizations have expressed interest in being involved. The SAG will be charged with overseeing plan preparation, and tasked to develop a mission statement, future vision statement, planning objectives and goals and to create a permanent implementation committee(s). Subtasks include:

- a. Initiation Meeting – Develop a list of expectations; develop a stakeholder mission statement and project success criteria
- b. River Raisin Stakeholder Advisory Group Meetings
- c. Technical Review Committee Meetings
- d. Create permanent implementation committee(s)
- e. Prepare agendas, minutes, and notices

Deliverables:

1. *Stakeholder Meeting minutes*
2. *Monthly Progress Reports*

TASK 2. PUBLIC EDUCATION/PUBLIC INVOLVEMENT PROGRAM

Estimated Percentage of Time: 30%

Staff Person or Agency Responsible: RRWC – G. Mitchell/LSCD

Two key aspects to developing an effective River Raisin watershed management plan will be to educate the public about local watershed issues and inspire them to get involved in plan development and implementation. An effort will be made to engage all stakeholders in the planning process, including those who do not see themselves as aligned with the perceived purpose of the group. Fostering cooperation and stewardship for residents and local officials through education outreach and training opportunities will result in a plan with broad support. Subtasks include:

- a. Identify all watershed stakeholders and determine target audiences.
- b. Plan, publicize and host up to six (6) public meetings and or workshops and
- c. Plan, publicize and host up to three (3) field trips.
- d. Prepare social survey Quality Assurance Project Plan (QAPP)
- e. Solicit and compile public opinion of the Raisin River watershed
- f. Update/revise RRWC project website regularly and post relevant information

Deliverables

1. *Press releases*
2. *Social Survey QAPP*
3. *Attitudes questionnaire*
4. *Summary of public input and summary of survey results*
5. *Website*

TASK 3. DEVELOPMENT OF WATERSHED DATABASE

Estimated Percentage of Time: 5%

Staff Person or Agency Responsible: ALNM, UM, RRWC – G. Mitchell

Contact all relevant local, state and federal agencies for insight into the watershed and collect all applicable data. Interview agencies and organizations as needed. Compile all existing infrastructure, land use, land cover, sensitive/critical upland, wetland and riparian areas, water quality, hydrology, geology, planning data, etc., to the extent possible into a Geographic Information System (GIS) database. All data collected during this project will also be captured in the GIS. Subtasks include:

- a. Compile existing data/coverages
- b. Prepare new coverages

Deliverables:

1. GIS database, including metadata and instructions for database use

TASK 4. ASSESSMENT OF RIVER CONDITIONS

Estimated Percentage of Time: 20%

Staff Person or Agency Responsible: UM, ALNM, RRWC

The objectives of the assessment will be to 1) evaluate the quantity and quality of natural stream, wetland, riparian, wetland and watershed resources and 2) identify and prioritize problems in the watershed. At least two more locations will be added to the sites already monitored by the RRWC Adopt-A-Stream program. With these additional sites each of the River Raisin's 10 major subwatersheds will be isolated by at least one monitoring station. At each of these sites stage, velocity, water quality, macroinvertebrate diversity, and in-stream and riparian habitat quality will be assessed. Individual hydrologic, water quality and macroinvertebrate Quality Assurance Project Plans (QAPPs) will be prepared before conducting the field evaluations. Using the United Stream Assessment protocol developed by the Center for Watershed Protection, a stream walk/crossing survey will be conducted over at least 20 miles of the river mainstem to identify problem areas.

Flow and water quality data collected in the field will be used to support model development and validation. All field data, including flow, water quality, habitat and riparian area evaluations and the macroinvertebrate surveys along with historical data and the 303D listings and TMDLs will be used to prioritize subwatershed problem-areas. As resources and time permit, up to four prioritized problem-subwatersheds will receive additional monitoring attention, including at least one round of water quality monitoring and macroinvertebrate sampling to isolate tributary areas within the prioritized subwatersheds. The hydrology and water quality models will also be used to assess effectiveness of watershed management practices. Subtasks include:

- a. PREPARATION OF MONITORING QAPPs – This includes preparation of individual QAPPs for the hydrologic, water quality and macroinvertebrate monitoring.
- b. HYDROLOGIC MONITORING –Obtain real time flow and rainfall data. Install staff gages at all water quality stations as feasible. Validate hydrologic model.
- c. SENSITIVE NATURAL AREAS/NATURAL FEATURE SURVEY - Utilize existing data sets, planning documents and local opinion to map and rank existing sensitive and critical natural areas, including upland, wetland and riparian areas.
- d. MACROINVERTEBRATE AND HABITAT EVALUATION –Perform at least two annual macroinvertebrate surveys (Spring and Fall); in-stream habitat evaluations (using MDEQ GLEAS 51 procedure). The surveys will be conducted at all the

existing Adopt-A-Stream sites, along with a sufficient number of additional sites to isolate each of the River Raisin's 10 major subwatersheds. At least one of the macroinvertebrate surveys will include up to six additional sites within the tributary areas of the four prioritized problem watersheds.

- e. STREAM WALK SURVEY – Perform stream problem evaluations 500-feet upstream and downstream at all sampling stations and at 34 additional road crossings (10 miles of stream evaluations). As feasible, portions of the mainstem will be canoed and evaluated. Ten additional miles will be targeted for evaluation by trained volunteers.
- f. WATER QUALITY MONITORING - Perform at least two synoptic (snapshot) water quality monitoring events at all the macroinvertebrate sampling stations. Two of these surveys will be performed with at least three previous days of dry weather. A third event will focus the water quality sampling within the four prioritized problem subwatersheds. At least six additional sites within these subwatersheds will be selected to further isolate tributary areas within these priority subwatersheds. Water quality parameters for sampling will include: temperature, pH, dissolved oxygen, conductivity, total suspended solids, nitrate, ammonia, total phosphorus, orthophosphate and *E. coli*. In addition, stage and velocity (as feasible) will be measured at each sampling station during each sampling event.
- g. WATER QUALITY ANALYSIS - A simple water quality model (the Generalized Watershed Loading Function (GWLFF)) of the watershed will be created to both estimate existing loads, project future loads and estimate BMP performance.

Deliverables:

1. *Hydrologic data, analysis and model*
2. *Natural features survey*
3. *Macroinvertebrate and habitat results and analysis*
4. *Road Crossings Evaluation*
5. *Water Quality Monitoring Quality Assurance Project Plan*
6. *Water quality sampling results, analysis and model*

TASK 5. PREPARATION OF THE WATERSHED MANAGEMENT PLAN

Estimated Percentage of Time: 25%

Staff Person or Agency Responsible: RRWC – G. Mitchell, ALNM, UM

Plan preparation will be guided by the SAG and TRC. The plan will be based on a shared future vision that includes explicit goals and objectives. Critical elements of the plan will include:

1. Identification of causes and sources that will need to be controlled to achieve load reductions or other watershed management goals;
2. Load reduction (or improvement measure) estimates;
3. Descriptions of management measures to achieve load reductions and identification of critical areas for implementation of those measures---this will include identification of critical resource areas, such as upland, wetland and riparian areas that should either be conserved or restored;
4. Estimates of the amount of technical and financial assistance needed, and an implementation plan, including cost estimates;
5. A long-term information/education plan component to encourage early and continued public participation;
6. A schedule for implementing the recommended management measures;
7. A description of interim measurable milestones;

8. A set of criteria to determine load reduction (or other management measure) success and criteria to determine whether the plan itself needs to be revised, and
9. A monitoring plan to evaluate implementation effectiveness.

Deliverables:

1. *Draft plan for review*
2. *Final plan, including 1-2 page executive summary for wide distribution*

TASK 6: GRANT ADMINISTRATION AND CLOSE-OUT

Estimated Percentage of Time: 5%

Staff Person or Agency Responsible: ALNM, RRWC, UM

This task includes all the work necessary to manage the resources of this project. This task also includes two public meetings: one to introduce the project and understand homeowner concerns and the second meeting to present the final design and talk about construction impacts. This includes monthly project team progress meetings, meeting minutes, miscellaneous project management tasks as well as producing the quarterly project progress reports, and the draft and final project reports. A minimum of five (5) hard copies and an electronic copy of all draft and final products submitted to the DEQ. The RRWC will prepare a draft and final report. This will include a brief description of the overall project and recommendations to help future grantees with similar projects. All quarterly status reports, draft and final reports will follow ESSD guidance. A release of claims and project fact sheet (in electronic and hard copy formats) will also be provided at the conclusion of the project.

Subtasks include:

- a. Project Progress Meetings
- b. Hold two public meetings
- c. Quarterly progress reports
- d. Draft and Final Project Reports
- e. Final Project Report and Final Project Documentation

Deliverables:

1. *Quarterly progress reports*
2. *Draft and Final Project Report (electronic copy and five (5) hard copies)*
3. *Final Project Report (electronic copy and five (5) hard copies)*
4. *Project Fact Sheet (electronic copy and five (5) hard copies)*
5. *Release of Claims Statement*

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SCIENCE & SERVICES DIVISION**

**FY05 PROPOSAL BUDGET FORM
(Authorized by 1994 P.A. 451)**

Applicant Name: River Raisin Watershed Council
Project Name: River Raisin Watershed Management Plan

STAFFING

NAME & TITLE	HOURS	RATE	GRANT AMOUNT	LOCAL MATCH AMOUNT	TOTAL
River Raisin Watershed Council Staff					\$ -
Executive Director - Year 1	780.00	\$ 22.00	17,160	0	17,160
Executive Director - Year 2	780.00	\$ 23.00	17,940	0	17,940
		\$ -	0	0	0
Office Manager - Year 1	520.00	\$ 11.00	5,720	0	5,720
Office Manager - Year 2	520.00	\$ 12.00	6,240	0	6,240
		\$ -	0	0	0
		\$ -	0	0	0
		\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
STAFFING Subtotal			\$ 47,060	\$ -	\$ 47,060

FRINGE BENEFITS (not to exceed 40%)

NAME & TITLE	RATE				
River Raisin Watershed Council Staff		\$ -	\$ -	\$ -	
Executive Director - Year 1	40%	\$ 6,864	\$ -	\$ 6,864	
Executive Director - Year 2	40%	\$ 7,176	\$ -	\$ 7,176	
		\$ -	\$ -	\$ -	
Office Manager - Year 1	40%	\$ 2,288	\$ -	\$ 2,288	
Office Manager - Year 2	40%	\$ 2,496	\$ -	\$ 2,496	
		\$ -	\$ -	\$ -	
		\$ -	\$ -	\$ -	
		\$ -	\$ -	\$ -	
		\$ -	\$ -	\$ -	
FRINGE BENEFITS Subtotal		\$ 18,824	\$ -	\$ 18,824	
STAFFING AND FRINGE BENEFITS Subtotal			\$ 65,884	\$ -	\$ 65,884

CONTRACTUAL SERVICES

NAME	HOURS or UNITS	RATE or TOTAL			
Ayres, Lewis, Norris & May, Inc. (ALNM)	LS	\$ 157,000.00	\$ 157,000.00	\$ -	\$ 157,000.00
University of Michigan	LS	\$ 36,000.00	\$ 36,000.00	\$ -	\$ 36,000.00
- Plan Development Facilitation					
- Assist with Public Education/Public Information					
-Undertake assessment of River Conditions					
Lenawee Soil Conservation District	LS	\$ 15,000.00	\$ 15,000.00		\$ 15,000.00
-Assist with public information and education program					
Local Match Support	LS	\$ 141,169.48	\$ -	\$ 141,169.48	\$ 141,169.48
- Admin. Support for Education and Public Involvement					
- Support Writing of Management Plan					
		\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
CONTRACTUAL SERVICES Subtotal			\$ 208,000	\$ 141,169	\$ 349,169

SUPPLIES, MATERIALS AND EQUIPMENT

SUPPLIES & MATERIALS (itemize)	QUANTITY	COST			
Staff Gages	16.00	\$ 200.00	\$ 3,200.00	\$ -	\$ 3,200.00
		\$ -	\$ -	\$ -	\$ -
SUPPLIES AND MATERIALS Subtotal			\$ 3,200	\$ -	\$ 3,200
EQUIPMENT (any item over \$1000)					
Color Copy Machine, paper and toner		\$ 5,000.00	\$ -	\$ 5,000.00	\$ 5,000.00
for pamphlets and mailers		\$ -		\$ -	\$ -
EQUIPMENT Subtotal				\$ 5,000	\$ 5,000
SUPPLIES, MATERIALS AND EQUIPMENT Subtotal			\$ 3,200	\$ 5,000	\$ 8,200

TRAVEL		MILES	RATE			
MILEAGE (not to exceed \$.35/mile)			\$ -	\$ -	\$ -	\$ -
		NIGHTS	RATE			
LODGING			\$ -	\$ -	\$ -	\$ -
		QUANTITY	RATE			
MEALS			\$ -	\$ -	\$ -	\$ -
OTHER (itemize)		QUANTITY	RATE			
			\$ -	\$ -	\$ -	\$ -
			\$ -	\$ -	\$ -	\$ -
TRAVEL Subtotal			\$ -	\$ -	\$ -	\$ -
COST-SHARE Subtotal: (NPS Grants Only)			\$ -	\$ -	\$ -	\$ -
PROJECT Subtotal			\$ 277,084	\$ 146,169	\$ 423,253	
Project Subtotal Percentage Split			65.47%	34.53%		
INDIRECT RATE (not to exceed 20% Staffing and Fringe Benefits)		0.00%	RATE			
INDIRECT COSTS (Summarize Below)			\$ -	\$ -	\$ -	
TOTAL GRANT AND MATCH BUDGET			\$ 277,084	\$ 146,169	\$ 423,253	

SOURCES OF MATCH:		DOLLAR VALUE COMMITTED:		
Organization		In Kind	Cash	Total
Pittsfield Charter Township		\$ 5,250.00	\$ -	\$ 5,250.00
Jackson Community College		\$ 3,000.00	\$ -	\$ 3,000.00
Charter Township of York		\$ 5,250.00	\$ -	\$ 5,250.00
City of Monroe		\$ 5,250.00	\$ -	\$ 5,250.00
Lenawee Soil Conservation District		\$ 542.60	\$ -	\$ 542.60
Raisin Valley Land Trust		\$ 3,250.00	\$ -	\$ 3,250.00
The Nature Conservancy		\$ 6,000.00	\$ -	\$ 6,000.00
Monroe Charter Township		\$ 5,250.00	\$ -	\$ 5,250.00
Monroe County Drain Commissioner		\$ 7,250.00	\$ -	\$ 7,250.00
Township of Somerset		\$ 5,275.00	\$ -	\$ 5,275.00
City of Adrian		\$ 4,000.00	\$ -	\$ 4,000.00
Raisinville Township		\$ 5,250.00	\$ -	\$ 5,250.00
Village of Dundee		\$ 5,250.00	\$ -	\$ 5,250.00
Rollin Township		\$ 3,240.00	\$ -	\$ 3,240.00
Cambridge Township		\$ 5,250.00	\$ -	\$ 5,250.00
City of Saline		\$ 5,000.00	\$ -	\$ 5,000.00
Bridgewater Township		\$ 5,250.00	\$ -	\$ 5,250.00
Washtenaw County Drain Commission		\$ 5,250.00	\$ -	\$ 5,250.00
Frenchtown Charter Township		\$ 5,250.00	\$ -	\$ 5,250.00
Lenawee County Health Department		\$ 3,311.88	\$ -	\$ 3,311.88
Lenawee County Drain Commission		\$ 5,250.00	\$ -	\$ 5,250.00
Dr. David Allen		\$ 20,000.00	\$ -	\$ 20,000.00
City of Tecumseh		\$ 22,550.00	\$ -	\$ 22,550.00
Subtotal		\$ 141,169	\$ -	\$ 141,169.48
Total Match Must Equal Amount in Budget Sheet Above				\$ 141,169.48

SOURCE OF O&M:

SUMMARY OF INDIRECT CHARGES: