

**Alliance of Downriver Watersheds
Technical Committee and Public Education Committee**

**Grow Zone Grant
Scope & Budget Revision Proposal**

April 2007

Background

Wayne County was awarded a Clean Michigan Initiative (CMI) grant to implement “Grow Zones” across the Combined Downriver Watershed (CMI Non-Point Source Grow Zone Project #2006-0137). The grant amount awarded is \$163,196 for a total project cost of \$326,392. In the grant award letter it was noted that in lieu of a multi-faceted project involving stream banks and LID and Grow Zones MDEQ wanted us to focus on the Grow Zone Initiatives and embellish the public education effort to make the Grow Zone effort a success. The Alliance of Downriver Watersheds (ADW) was just recently formed under Public Act No. 517 of 2004. The ADW established two subcommittees to develop budget recommendations for the full ADW committee to consider. The first committee was a Technical Committee whose charge was to develop budget recommendations for the Illicit Discharge Elimination Program (IDEP) activities and the Progress Evaluation Monitoring. The second committee was the Public Education Committee whose charge was to develop budget recommendations for the Public Education Plan (PEP) activities. As a result of the committee deliberations, the following recommendations were developed and were approved by the ADW at their March 22, 2007 meeting.

General Recommendations:

- 1) The ADW’s first budget should be approved and implemented as a 2 - year scope of work. Budget time frame is approximately May 1, 2007 – May 1, 2009 (see Attachment 1).
- 2) ADW should take advantage of Wayne County’s CMI grants and leverage ADW budget activities with the scope of work and budget available through the CMI grants.

Activity Recommendations (specific to CMI Grow Zone grant):

Public Education Program – PEP1-11:

- 1) Budget as presented should be approved.
- 2) Wayne County should be authorized to proceed with CMI Grow Zone grant negotiations with MDEQ to accommodate ADW involvement.
- 3) Authorization is conditioned upon the ADW Public Education Committee being involved in the final planning and implementation of each funded PEP line item activity.

Progress Evaluation Monitoring - Monitoring 1 – 6:

- 1) Budget as presented should be approved and Wayne County should be authorized to proceed with CMI Grow Zone grant negotiations with MDEQ to accomplish ADW budget activities and financial involvement.
- 2) Authorization is contingent upon ADW Technical Committee being involved and accepting final monitoring activities.

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- 3) Monitoring Planning funds (Monitoring 6) should be combined with Watershed Facilitation funding for purposes of the facilitation services request for proposal (RFP) and the RFP committee should be formed as quickly as possible.
- 4) The monitoring program should consist of an annual base program and a rotating roving program that each watershed advisory group can customize (within budget limitations) to meet their progress evaluation objectives.

Grant Scope and Budget Revisions

In partnership with Wayne County the ADW proposes and urges the MDEQ to approve the following grant revisions:

- 1) Add the ADW as a financial project partner and expand the geographic extent of the grant to include the Ecorse Creek and Lower Huron River watershed areas.
- 2) Add the Huron River Watershed Council and the Friends of Detroit River as financial project partners.
- 3) Expand the “Grow Zone Initiative” educational effort to promote the importance of “Green Infrastructure” – native plants, grow zones and tree canopy.
- 4) Establish a Grow Zone mini-grant program encouraging schoolyard habitats, riparian buffer expansions, and public land demonstration areas.
- 5) Allow the Project Evaluation to include:
 - Green Infrastructure (Urban Ecosystem) Analysis,
 - Stream flow
 - Temperature
 - Dissolved Oxygen
 - Macroinvertebrates

Rationale

Integrating the CMI Grow Zone grant into the first 2-year budget of the ADW and adding HRWC and FODR as financial partners will significantly increase the short and long-term success of the grant project as well as the long-term success of the watershed management effort. As reported in the July/August 2006 Storm Water Journal:

The Natural Resources Conservation Service, historically, and the Center for Watershed Protection, more recently, have deemed forest cover to be the best use of land for water storage, recharge, runoff reduction, pollutant reduction, and habitat. Tom Schuler, Director of Watershed Research and Practice for the Center, sees percent forest cover – rather than impervious surface – as a leading indicator of watershed health.

While we realize that we cannot reforest our watersheds we (the members of the ADW Public Education and Technical Committees) recognize that the largest threat and/or challenge for our watersheds is the loss, or restoration, of “green infrastructure” and that the preservation, protection and restoration of “Green Infrastructure” is critical to the restoration and protection of the Ecorse Creek, Combined Downriver and Lower Huron River Watersheds. We further believe that preserving, protecting and restoring “Green Infrastructure” is arguably the simplest, most cost efficient and effective method of addressing and ultimately realizing the goals and

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objectives of the Ecorse Creek, Combined Downriver and Lower Huron River watershed management plans. The budget revisions as proposed will jump start the short-term physical restoration effort and launch the long-term managerial effort on a scientifically solid and fiscally responsible foundation.

Geographically many of the communities that are within the Combined Downriver watershed also have land area in either or both the Ecorse Creek and Lower Huron watersheds. Therefore, expanding the scope geographically is logistically feasible, rewards these communities for proactively pursuing the collaborative watershed based permit approach and will allow for the expansion of the effort financially (more local funds will be leveraged against the state funds). This in turn increases the positive impact the grant funding has in short-term physical improvement.

Allowing the project evaluation to include the desktop Green Infrastructure Analysis will lay the foundation of the public education effort and provide the baseline for evaluating the project's success both environmentally and economically. Access to the Green Infrastructure Analysis tool will establish the long-term managerial resource restoration/protection capabilities of the ADW. Storm water coordinators and partners will have the capability of communicating both the environmental and economic benefits that existing and/or new vegetative best management practices will have. Municipal planners will have the ability to assess the environmental and economic costs and benefits of future development projects.

Creating a mini-grant program for establishing the grow zones will increase the public awareness and educational impact of the project (as requested by MDEQ) as well as potentially expand the overall area (number of acres) and most definitely the number of sites where Grow Zones are installed. Mini-grant criteria will be developed to maximize the positive impact the grow zones sites will have on water quality, water quantity, riparian corridor expansion and public education.

Attachment 2 includes the revised scope of work and budget by CMI budget category. The ADW committees respectfully request MDEQ review and approve these revised grant documents and enter into the contract with Wayne County as expeditiously as possible so that work can begin.

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ATTACHMENT 1:

**Alliance of Downriver Watersheds
Approved 2- Year Budget**

**ALLIANCE OF DOWNRIVER WATERSHEDS
2 - Year Budget
May 2007 - May 2009**

SWPPI Activity	Total Cost	CMI Grants	Wayne County Permit Compliance Funds*	Alliance Cost Local Match
IDEP				
IDEP 1: Staff Training	\$ 5,800	\$ -	\$ -	\$ 5,800
IDEP 2: County-Based Complaint Response		\$ -		\$ -
IDEP 3: Problem Area Identification *	95,294	41,294		54,000
IDEP 4: Advanced Investigations		\$ -		\$ -
IDEP 5: Onsite Sewage Disposal System		\$ -		\$ -
Activity Category Subtotals	\$ 101,094	\$ 41,294	\$ -	\$ 59,800
PEP				
PEP 1: Distribute pollution prevention literature	\$ 12,250	\$ 5,000	\$ 2,250	\$ 5,000
PEP 2: Displays - Events & Static		\$ -		\$ -
PEP 3: Environmental Hotline Promotion		\$ -		\$ -
PEP 4: Advertisements - GreenInfrastructure Marketing		\$ -		\$ -
PEP 5: Fertilizer Point of Sale		\$ -		\$ -
PEP 6: Workshops & Projects - GZ Sites	91,100	48,000	21,600	21,500
PEP 7: Technical Advisory Committees	6,125	2,500	1,125	2,500
PEP 8: River Day		\$ -		\$ -
PEP 9: Volunteer Monitoring		See Monit 1, 2, 5, 6		\$ -
PEP 10: System Labelling/Signage	9,800	4,000	1,800	4,000
PEP 11: SE Michigan Partners Coordination		\$ -		\$ -
Activity Category Subtotals	\$ 119,275	\$ 59,500	\$ 26,775	\$ 33,000
Progress Evaluation Monitoring				
Monit 1: Physical	\$ 160,350	\$ 43,000	\$ 19,350	\$ 98,000
Monit 2: Biological	\$ 49,000	\$ 20,000	\$ 9,000	\$ 20,000
Monit 3: Water Chemistry				
Monit 4: Social Survey	Not in 1st year			\$ -
Monit 5: Data Handling & Analysis	\$ 52,200	\$ 20,000	\$ 9,000	\$ 23,200
Monit 6: Monitoring Planning	\$ 50,600	\$ 20,000	\$ 9,000	\$ 21,600
Activity Category Subtotals	\$ 312,150	\$ 103,000	\$ 46,350	\$ 162,800
Planning & Reporting (Watershed Facilitation)				
WF 1: General Facilitation	\$ 29,800	\$ -		\$ 29,800
WF 2: Website maintenance	\$ 1,310	\$ -		\$ 1,310
WF 3: Watershed Data maintenance		\$ -		\$ -
WF 4: Annual Report Sections	\$ 5,180	\$ -		\$ 5,180
WF 5: Grant Application Writing	\$ 18,180	\$ -		\$ 18,180
Activity Category Subtotals	\$ 54,470	\$ -	\$ -	\$ 54,470
Pollution Prevention/Watershed Management Activities				
Funds for Watershed-specific activities	\$ 20,288			\$ 20,288
Post Construction SW Mgt - New and Redevelopment		\$ -	WC permit compliance	\$ -
Soil Erosion Sedimentation Control		\$ -	WC permit compliance	\$ -
Activity Category Subtotals				\$ 20,288
Grand Total	\$ 586,989	\$ 203,794	\$ 73,125	\$ 330,358

* Only identifies Wayne County funds required to match Clean Michigan Initiative grants being leveraged by ADW funds and implemented as ADW budget activities.

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ATTACHMENT 2:

Proposed Grow Zones Across the Downriver Watersheds Project Description, Budget and Timeline

Appendix A
Grow Zones Across the Alliance of Downriver Watersheds
Tracking Code # 2006-0137
Project Description

Project Name

The proposed project, *Grow Zones Across the Alliance of Downriver Watersheds*, is being funded under Michigan’s Nonpoint Source Program, Implementing Approved Watershed Management Plans under Watershed Based Municipal Storm Water Permit, administered by the Michigan Department of Environmental Quality (MDEQ), Water Division. The grant applicant is the County of Wayne, Department of Environment (WCDOE) Water Quality Division (WQD).

Project Description

A. Statement of Water Quality Concerns / Issues

The watersheds within the Alliance of Downriver Watersheds (ADW) include Ecorse Creek, Combined Downriver and the Lower Huron River watersheds. Ecorse Creek and Combined Downriver are relatively urban watersheds within Wayne County. The Lower Huron River watershed is more rural but under heavy development pressure and includes the southeastern corner of Wayne County and northern portion of Monroe County. Much of the surface water within these watersheds is designated county drain originally designed to accept agricultural flows. As these watersheds urbanize, the ability of these small drains to handle the new, higher peak flows is insufficient resulting in flashy flows, erosion, nutrient loading and sedimentation. The largest threat and/or challenge for these watersheds is the loss, and/or restoration of “green infrastructure”. Preservation, protection and restoration of Green Infrastructure is critical to the restoration and protection of the Ecorse Creek, Combined Downriver and Lower Huron River watersheds.

Current Water Quality Conditions:

As identified in the Watershed Management Plans, the current condition of the Alliance of Downriver Watersheds was determined through a review of existing reports, water quality sampling data and field investigations. Specific water quality indicators and a summary of the rating/observation for each are listed below:

Combined Downriver

Water Quality Indicator	Rating/Observation
Biological Communities	Fair to Poor
Sedimentation/Total Suspended Solids	Significant sedimentation generally in a range that would reduce fish populations
Hydrology	Flashy flows/extremely unstable hydrology
Imperviousness	Frank & Poet Drain: ex 30.2%, future 49.6% Blakely Drain: ex 21.4%, future 46.6% Detroit River South: ex 26.9%, future 45.1%
Phosphorus	2 to 4 times the recommended value of 0.05 mg/L TP
Dissolved Oxygen	3 mg/L to 12 mg/L, recommended min value is 5 mg/L
Conductivity	200 µS/cm to 3,500 µS/cm, recommended value <800
Pathogens (<i>E.coli</i>)	1.5 to 6 times the recommended max. of 130 cts/100 mL

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Ecorse Creek

Water Quality Indicator	Rating/Observation
Biological Communities	Fair to Poor
Sedimentation/Total Suspended Solids	Highly turbid flows even in dry weather
Hydrology	Flashy flows/extremely unstable hydrology
Imperviousness	North Branch: ex 26.4%, future 41.7% LeBlanc: ex 27.8%, future 46.2% Sexton-Kilfoil: ex 30.6%, future 46.2%
Phosphorus	2 to 4 times the recommended value of 0.05 mg/L TP
Dissolved Oxygen	1 mg/L to 5 mg/L, recommended min value is 5 mg/L
Conductivity	As high as 5,887 µS/cm, recommended value <800
Pathogens (<i>E.coli</i>)	3 to 8 times the recommended max. of 130 cts/100 mL

Lower Huron River impairments in priority order were identified in the Watershed Management Plan as Altered Hydrology, Sediment, Excess Nutrients, Pathogens, Organic Compounds and Heavy Metals, Elevated Temperatures, and Debris/Litter.

Field surveys were performed by the management plan consultants in 2004. General findings revealed minimal riparian buffers, significant sedimentation and turbid water, evidence of flashy flows, eroded banks and debris piles. This project will help address the problems of minimal riparian buffers, sedimentation and total suspended solids, unstable flashy flows, eroding stream banks, and nutrient (phosphorus) loadings. This project will continue to expand the partnership that has been developing between the WCDOE, the Friends of Detroit River/Riverkeeper, the Downriver Stream Team, the Huron River Watershed Council and will facilitate the growing cooperation between the County Drain maintenance division (the Facilities Management Division) and the local communities.

B. Project Goals and Objectives

This project is consistent with the watershed management plans developed for the Alliance of Downriver Watersheds by Huron River Watershed Council, Wayne County, local communities, citizens, and other stakeholders. The project will address the following goals and objectives from the watershed plan:

Goals	Objectives
Reduce Stream Flow Variability	Preserve and restore wetlands & open space
Reduce Flooding	Reduce runoff volume/rate
Increase Public Education, Understanding, and Participation Regarding Watershed Issues	Create partnerships with institutions, schools, and the private sector
Improve Water Quality	Foster relationships with the County and neighboring communities
Preserve, Increase and Enhance Recreational Opportunities	Protect, expand and restore the riparian corridor
Protect, Enhance, and Restore Riparian Habitat	Improve erosion and sedimentation controls
	Protect and improve riparian corridor aesthetics

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The specific **GOALS** of this project are:

- To prevent non-point source pollution by reducing storm water runoff, sedimentation and nutrient pollution within the Alliance of Downriver Watersheds;
- To establish and/or expand riparian buffers and no mow zones (Grow Zones) that will increase infiltration, storm water retention and evapotranspiration;
- To provide improved terrestrial, riparian and aquatic habitat;
- To compliment other activities being implemented consistent with the Watershed Management Plans, such as construction of detention basins, bioswales, rain gardens, and other storm water management BMPs;
- To build support and capacity within the local communities, local schools and the County drain maintenance staff to manage and expand the use of “Grow Zones” along the riparian corridor within the County Drain easement, on public parklands and public school properties.
- To document and communicate measurable improvements to the condition of the river, the river corridor and the watershed .

These **GOALS** will be achieved through the realization of the following **OBJECTIVES**:

- Expand riparian buffers and Grow Zones at a minimum of 10 sites to increase infiltration and minimize stream bank erosion.
- To provide approximately 25 acres of new/improved riparian/aquatic habitat within the Combined Downriver Watershed.
- Utilize woody debris management as appropriate within riparian buffer Grow Zone project sites to protect stream banks.
- Involve approximately 20 Wayne County field and maintenance personnel, 10 Stream Team teachers, and over 50 students and additional volunteers in the planning and hands-on implementation and construction of these projects. The number of staff involved is important to ensure long-term sustainability and future widespread application of these BMPs in the Combined Downriver watershed. Involvement of volunteers will also help ensure sustainability and application of these BMPs throughout the region.
- Establish and implement a project evaluation and monitoring strategy that characterizes and communicates the before and after as well as the watershed impacts of green infrastructure and the grow zone projects. Elements of the evaluation strategy anticipated to be included are:
 1. Before and after storm water storage volumes and economic benefits of the ADW green infrastructure.
 2. Before and after in stream physical (flow, temperature), biological (macroinvertebrates, amphibians and other wildlife) and chemical improvements (dissolved oxygen).
 3. Documentation that stream bank erosion has been minimized or eliminated at riparian grow zone sites.
 4. Documentation that plant communities have been established and the capacity of these sites to manage storm water and prevent pollution is increasing.
 5. Site Integrity Plant Surveys.

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The project goals and objectives described above are consistent with and support the following recommended actions identified in the watershed management plan:

<ul style="list-style-type: none"> ● Install & Maintain Riparian Buffers ● Construct Bioretention areas, where feasible ● Use fallen woody debris for bank stabilization and habitat, ● Install vegetative buffer around impoundments, where feasible, ● Rain gardens and Bioretention 	<ul style="list-style-type: none"> ● Benthic Monitoring ● Physical Stream Survey ● Establish Monitoring Program ● Construct Infiltration basins/trenches at strategic locations ● Stream bank stabilization sites ● Provide watershed education
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Excessive flow and imperviousness is a major challenge for restoring and protecting watershed health. Re-vegetation with more complex and diverse native vegetation including trees, shrubs, grasses and wildflowers (Green Infrastructure - Grow Zones) is arguably the simplest, most cost efficient and effective short and long-term BMP to reduce flow and mitigate imperviousness and ultimately realize the goals and objectives of the watershed management plans.

C. Organizational Information

This project will be administered by the WCDOE-WQD, whose mission is to:

Provide a leadership role in the protection, restoration and stewardship of streams, rivers, lakes, ponds, wetlands and groundwater in Wayne County through the advancement of a holistic watershed management approach.

Since 1992, the WQD staff has administered the Rouge River National Wet Weather Demonstration Project, a U.S. Environmental Protection Agency (EPA) sponsored demonstration of the watershed management approach. The WCDOE - Facilities Management Division (FMD) manages and maintains the County drainage system, which makes up the majority of the watercourses in these southern Wayne County watersheds. The WQD initiated and coordinates, through the County Permit Office, the County’s recently promulgated Storm Water Management Ordinance to ensure the management of both the quantity and quality of storm water discharges from new and major re-developments in the County. With these roles, WCDOE is the largest single riparian land area manager and is in a unique position to be the lead agent in the implementation and promotion of Green Infrastructure, Grow Zones, riparian corridor management (RCM), woody debris management (WDM) and LID BMPs in the Alliance of Downriver Watershed.. The project will be managed by a combination of talents within the WCDOE in cooperation and consultation with the ADW, the Stream Team leaders (Mr. Bruce Szczechowski and Mr. John Nasarzewski), Friends of Detroit River (Mr. Charlie Bristol and Mr. Robert Burns, Detroit River Keeper) and the Huron River Watershed Council (Ric Lawson, et. Al.). Construction plans will be submitted for MDEQ approval and to appropriate permitting agencies to obtain any necessary permits for these projects prior to implementation. A contractor may be hired to do some of the construction/site preparation work. Any contracted services will be secured through a competitive bid procedure outlined by the Wayne County Purchasing Ordinance.

- Project Sponsors: Kurt Heise, Director, Wayne County Department of Environment
Kerreen Conley, Director, Wayne County Facilities Management Division
Kelly A. Cave, Director, Wayne County Watershed Management Division
- Grant Administrator: Razik Alsaigh, P.E., Grant Administrator, Wayne County Watershed Management Division
- Project Coordinator: Noel Mullett, Wayne County Watershed Management Division

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Evaluation/Monitoring

Coordinator: Dean Tuomari, Wayne County Watershed Management Division

Field Coordinator: Matthew R. Best, Wayne County Watershed Management Division

Previous MDEQ grants awarded to Wayne County include:

Illicit Connection Elimination in Ecorse Creek	#2001-0078
Illicit Connection Elimination for the Rouge River	#2002-0240
Illicit Connection Elimination Project for Lake St. Clair	#2002-0226
Rouge Watershed Nutrient Reduction Program	#2002-221
Middle Rouge Riparian Corridor Management Project	#2004-0150

D. Partners

Alliance of Downriver Watersheds

Friends of the Detroit River/Detroit River Keeper

Huron River Watershed Council

Stream Teams/ Downriver Citizens for a Safe Environment

Riparian Corridor Management Technical Advisory Committee (RCMTAC)

The role and responsibility of all partners will be to assist in the planning, volunteer recruitment, project evaluation and construction.

E. Project Sustainability

WCDOE, the Alliance of Downriver Watersheds, the Friends of the Detroit River, the Huron River Watershed Council and the Stream Teams have a great interest in the restoration and protection of the watersheds. Over the past two years, they have been working collectively on development of the watershed management plan and the institutional arrangements to implement that plan. All partners listed here have made a commitment to addressing the previously mentioned surface water quality concerns outlined in Section A. It is the goal of all involved to create programs that will sustain the watershed's recovery indefinitely. Using volunteers, having multiple staff involved and installing grow zone boundary markers are critical elements of sustaining and institutionalizing these best management practices.

F. Project Evaluation

Project evaluation is recognized as a critical element of our project and has been identified and described as a specific goal and objective (see section B above). Through implementation of this grant project, the single largest riparian landowner/manager (Wayne County FMD in the Combined Downriver Watershed is significantly changing their managerial practices to include implementation of infiltration techniques such as grow zones, potentially rain gardens and bioretention swales. Because of the significance of this effort to watershed management in the region, we believe it crucial that significant resources and talent be involved in planning, collecting, managing, assessing and ultimately communicating the results and accomplishments of this project. To this end, a combination of staff, consultant resources and project partners will be utilized to develop and implement the project evaluation strategy and quality assurance project plan (QAPP). It is recognized that MDEQ must review and approve the strategy and QAPP before any monitoring can begin. It is anticipated that evaluation will vary based on the type of BMP. For each BMP type, however, it is expected that a mixture of desk top analysis, field physical measurements, photo documentation and biological indicator monitoring will be used to evaluate the effectiveness of each type of BMP and each individual site. A significant component of the evaluation of the project's effectiveness will be to establish baseline site conditions and perform periodic inspections based on the final site plans, as constructed, and based on the individual BMPs implemented. These

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inspections will be important to the determination the success or failure and will be summarized in our quarterly status reports and our final Project Evaluation/Assessment Report.

G. Project Summary

The primary purpose of the *Grow Zones Across the Alliance of Downriver Watersheds* is to implement Green Infrastructure improvement projects riparian corridor and low impact development best management practices (BMPs) at project sites along the waterways within the Alliance of Downriver Watersheds a Phase 2 storm water area. The watershed are is 203 square miles. The predominant land use is single-family residential . Woodland and wetland areas comprise the second largest category . The project goals are to reduce nutrient loading and sedimentation by increasing infiltration, filtration and evapo-transpiration. Objectives include construction of 10 projects sites creating up to 25 areas of new grow zone area including two bioretention swales and stream bank protection at up to 75 feet.

**Grow Zones Across the Combined Downriver Watershed
Tracking Code #2006-0137**

Work Plan

Task/SubTask	Responsible Agency	% of Time	Products
1. Obtain, Finalize & Sign CMI Contract	WQD/ADW	0%	- Signed CMI Project Contract
2. Planning and Design		10%	Products
a. Procure Consultants to assist with design and development of evaluation strategy b. Develop Evaluation/Project Assessment Strategy including QAPP c. Develop Grow Zone Mini-Grant Program including promotional effort and proposal evaluation criteria d. Complete landscaping plan for each site, including construction documents (if needed). e. Submit construction documents for sites as required (sealed by professional engineer) to MDEQ Funding: CMI and local match.	a. WMD/ADW b. WQD/ADW/HRWC RCMTAC and Consultant c. WQD/ADW/HRWC/ST and FODR d. WQD/FODR/ST/HRWC e. WQD		- Evaluation Strategy Contract - Written Long-term Evaluation Strategy and approved grant QAPP - Grow Zone mini grant awards and publicity - Landscaping plans and construction documents sealed by professional engineer, as appropriate -
3. Implementation*		60%	Products
a. Procure contractor for Green Infrastructure Imagery processing b. Award Grow Zone mini grants c. Conduct Grow Zones plantings and woody debris management training workshop and events Funding: CMI and local match.	WQD ADW WQD/HRWC/FODR/ST Mini grant recipients (schools & local communities)		- Green Infrastructure Contractor Contract and Green Infrastructure Analysis report and data - MDEQ permits - Minimum of 10 grow zone sites along the riparian corridor with bioretention swales and/or woody debris log revetments, as appropriate. - Minimum of 25 acres of grow zone area (includes areas allowed to naturalize without re-plantings)

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Task/SubTask	Responsible Agency	% of Time	Products
4. Evaluation/Assessment		15%	
a. Create Survey Tools based on Evaluation metrics	WQD/HRWC		- Data sheets and photo documentation
b. Perform desktop analysis, fieldwork and photo documentation	WQD/Consultant/HRWC		- Project Evaluation/Assessment Report
c. Hold Project Evaluation coordination meetings with RCMTAC & other Partners	WQD/ADW		
d. Create Project Evaluation/Assessment Report	WQD/HRWC/ADW		
Funding: CMI and local match.			
5. Project Administration			Products
a. Submit Quarterly Status Reports	WQD	15%	- Quarterly Status Reports
b. Submit engineering plans for MDEQ review and approval	WQD		- Engineering Plans, if required
c. Submit CMI Post-Audit documentation	WQD		- Post-Audit documentation
d. Submit before and after photos of BMP sites	WQD		- Before & After Photos
e. Submit Final Project Report; 45 days prior to end of project incorporate MDEQ comments and submit final report.	WQD		- Final Project Close-out Report
f. Submit Project Summary Fact Sheet per MDEQ guidance	WQD		- Project Summary Fact Sheet
g. Submit any data collected in hard copy and electronic copy	WQD		- Data
h. Submit "Release of Claims Form"	WQD		- Release of Claims Form
Funding: CMI and local match.			

WQD – Wayne County Water Quality Division. ADW – Alliance of Downriver Watersheds, HRWC - Huron River Watershed Council, ST – Stream Team, FODR – Friends of Detroit River

**GROW ZONES ACROSS THE ALLIANCE OF DOWNRIVER WATERSHEDS
TRACKING CODE #2006-0137
PROJECT TIMELINE**

Task Name	2007									
	March	April	May	June	July	August	September	October	November	December
1. Obtain, Finalize & Sign CMI Contract										
2. Project Design										
Procure Consultant to assist with design and development of evaluation strategy										
Develop Evaluation/Project Assessment Strategy and MDEQ Approved QAPP										
Develop Mini Grant Program										
Complete Landscaping plans, including construction documents (if needed)										
Submit construction documents to MDEQ, if needed										
3. Construction/Implementation										
Procure Contractor for Green Infrastructure Imagery Processing										
Award Grow Zone Mini Grants										
Construct/Plant Grow Zone Areas										
4. Evaluation/Assessment										
Create Survey Tools based on Evaluation metrics										
Perform desktop analysis, field work and photo documentation										
Hold Project Evaluation Coordination Meetings										
Create Project Evaluation/Assessment Report										
5. Project Administration										
Submit Quarterly Status Reports										
Submit Engineering Plans for MDEQ review and approval										
Submit CMI Post-Audit Documentation										
Submit before and after photos of BMP sites										
Submit draft Final Project Report										
Submit Project Summary Fact Sheet										
Submit data collected in hard copy and electronic copy										
Submi "Release of Claims Form"										

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**GROW ZONES ACROSS THE ALLIANCE OF DOWNRIVER WATERSHEDS
TRACKING CODE #2006-0137
PROJECT TIMELINE**

Task Name	2008										
	January	February	March	April	May	June	July	August	September	October	November
1. Obtain, Finalize & Sign CMI Contract											
2. Project Design											
Procure Consultant to assist with design and development of evaluation strategy											
Develop Evaluation/Project Assessment Strategy and MDEQ Approved QAPP											
Develop Mini Grant Program											
Complete Landscaping plans, including construction documents (if needed)											
Submit construction documents to MDEQ, if needed											
3. Construction/Implementation											
Procure Contractor for Green Infrastructure Imagery Processing											
Award Grow Zone Mini Grants											
Construct/Plant Grow Zone Areas											
4. Evaluation/Assessment											
Create Survey Tools based on Evaluation metrics											
Perform desktop analysis, field work and photo documentation											
Hold Project Evaluation Coordination Meetings											
Create Project Evaluation/Assessment Report											
5. Project Administration											
Submit Quarterly Status Reports											
Submit Engineering Plans for MDEQ review and approval											
Submit CMI Post-Audit Documentation											
Submit before and after photos of BMP sites											
Submit draft Final Project Report											
Submit Project Summary Fact Sheet											
Submit data collected in hard copy and electronic copy											
Submi "Release of Claims Form"											

Timeline Page 2

**GROW ZONES ACROSS THE ALLIANCE OF DOWNRIVER WATERSHEDS
TRACKING CODE #2006-0137
PROJECT TIMELINE**

Task Name	2009							
	January	February	March	April	May	June	July	August
1. Obtain, Finalize & Sign CMI Contract								
2. Project Design								
Procure Consultant to assist with design and development of evaluation strategy								
Develop Evaluation/Project Assessment Strategy and MDEQ Approved QAPP								
Develop Mini Grant Program								
Complete Landscaping plans, including construction documents (if needed)								
Submit construction documents to MDEQ, if needed								
3. Construction/Implementation								
Procure Contractor for Green Infrastructure Imagery Processing								
Award Grow Zone Mini Grants								
Construct/Plant Grow Zone Areas								
4. Evaluation/Assessment								
Create Survey Tools based on Evaluation metrics								
Perform desktop analysis, field work and photo documentation								
Hold Project Evaluation Coordination Meetings								
Create Project Evaluation/Assessment Report								
5. Project Administration								
Submit Quarterly Status Reports								
Submit Engineering Plans for MDEQ review and approval								
Submit CMI Post-Audit Documentation								
Submit before and after photos of BMP sites								
Submit draft Final Project Report								
Submit Project Summary Fact Sheet								
Submit data collected in hard copy and electronic copy								
Submi "Release of Claims Form"								

DRAFT – GROW ZONES ACROSS THE DOWNRIVER WATERSHEDS

	Grant Amount	Contract Local Match	Contract Total	Additional Local Match*	ADW Total
Staffing Subtotal	\$41,895	\$41,895	\$83,790		\$83,790
Fringe Benefits Subtotal	\$16,758	\$16,758	\$33,516		\$33,516
Staff & Fringe Subtotal	\$58,653	\$58,653	\$117,306	\$97,783	\$215,089
Contractual Services					
Project Design Consultant	\$15,701	\$23,701	\$39,402		\$39,402
Imagery Contractor	\$16,000	\$14,000	\$30,000	\$ 7,250	\$37,250
Friends of Detroit River**	\$3,000	\$1,000	\$4,000		\$4,000
Huron River Watershed Council**	\$9,000	\$7,000	\$16,000		\$16,000
Stream Team/Volunteers**	\$6,000	\$4,000	\$10,000		\$10,000
Contractual Services Subtotal	\$49,701	\$49,701	\$99,402	\$ 7,250	\$106,652
Supplies & Materials and Equipment					
Pollution Prevention Literature	\$5,000	\$5,000	\$10,000		\$10,000
Plant & Landscaping Materials	\$20,000	\$20,000	\$40,000		\$40,000
System Labelling/Boundary Markers	\$3,000	\$3,000	\$6,000		\$6,000
Project Evaluation Equipment	\$12,500	\$12,500	\$25,000		\$25,000
Supplies & Materials Subtotal	\$40,500	\$40,500	\$81,000	\$0	\$81,000
Travel					
Mileage	\$2,612	\$2,612	\$5,224		\$5,224
Project Subtotal	\$151,466	\$151,466	\$302,932	\$ 105,033	\$407,965
Indirect Costs	\$11,730	\$11,730	\$23,460	0	\$23,460
Total Budget	\$163,196	\$163,196	\$326,392	\$	\$ 431,425
	163196.1	163196.1	326392.2		
	\$0	(\$0)	\$0		

* Nearly 70% (\$73,125) of this amount is Wayne County Permit Compliance funding.

** Interagency agreements will be executed for full contract amount but to the extent local match via volunteer time can be documented ADW funds can be preserved for future partnership/work activities.

FOR DISCUSSION PURPOSES ONLY