



Alliance  
of Rouge  
Communities

**OURS TO PROTECT**

*Working together, restoring the river*

# Executive Director 2009 Annual Report



**E. L. Johnson Nature Center**



**Bingham Farms**



**Carpenter Lake Green Roof**



**Lawrence Tech University**



**Parkland Park**

WASHTENAW  
COUNTY

- Project Locations
- Municipal Boundary
- Water Course
- County Boundary
- Watershed Boundary

Data Provided by Rouge Project & State of Michigan

## 2009 ARC Green Infrastructure Projects

Submitted by:

**ECT**  
Environmental Consulting & Technology, Inc.

719 Griswold, Suite 1040, Detroit, MI 48226

March 2009



*Working together, restoring the river*

*James W. Ridgway, P.E.  
Executive Director*

March 2, 2010

Mr. Tim Faas  
Chairman  
Alliance of Rouge Communities  
c/o ECT  
719 Griswold, Suite 1040  
Detroit, MI 48226

Dear Mr. Faas :

I am pleased to submit to you the Executive Director's 2009 Annual Report for the Alliance of Rouge Communities. As you will see when you read this report, the ARC accomplished many goals in 2009.

In addition to documenting some of the more mundane details of the support services to the ARC, this report highlights the major initiatives accomplished by ARC and our member communities and staff. These initiatives are:

**Web-based Reporting System:** ARC staff developed a web-based Rouge River Storm Water Reporting System in 2009 which will streamline the reporting requirements for the ARC communities. The tool is a web-based template for Phase II permit reporting to the Michigan Department of Natural Resources and Environment (formerly MDEQ). The system is being tested and refined using actual reporting data from four ARC members. By late 2010 it will be fully functional for community-specific reporting. The watershed-wide reporting feature will be functional in 2011. This tool is being designed to complement the proposed permit and greatly reduce the time required for compliance by ARC communities. ARC staff will conduct a training session in 2010 during SWAG meetings to demonstrate how to use the system.

**Rouge River Watershed Land Cover Inventory:** The ARC staff and the ARC Technical Committee is assembling a land cover inventory for the Rouge River Watershed that allows for an analysis of aerial photography to determine the extent of pervious (green) and impervious (gray) land cover across the watershed. This information will allow the ARC to better quantify and communicate the economic and environmental benefits of using green infrastructure in the watershed. This will also provide the ARC a method to evaluate the impact of future development using traditional engineering methods versus more "green" engineering methods. This type of land cover analysis will also be used to determine the impact of restoration efforts in the watershed. All ARC members will be given access to the datasets being developed for use in forecasting and/or evaluating the impacts of new development projects. Work began in 2009 and is expected to be completed in 2010.

Allen Park  
Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oakland County  
Oak Park  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Southfield  
Troy  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
Westland  
Wixom

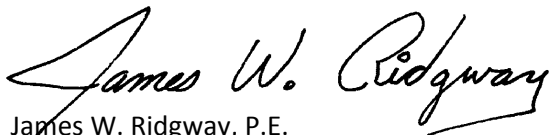
2009 Green Infrastructure Projects: The ARC Public Involvement and Education Committee (PIE) developed an RFP for communities and organizations to submit proposals for the 2009 Green Infrastructure (Grow Zone) Program. The Green Infrastructure Subcommittee received 17 proposals and funded 13 projects. ARC staff provided design and specifications for plant material and signage for the approved projects. The projects, all located on public land, are located in Bloomfield Hills, University of Michigan-Dearborn, Plymouth Township, E.L. Johnson Nature Center in Bloomfield Township. Bingham Farms, Heritage Park in Farmington Hills, Parkland Park in Dearborn Heights, the Canton Public Library in Canton Township, Lawrence Technological University in Southfield, Carpenter Lake in Southfield, the City of Melvindale, Miller Elementary School in Canton Township and Lathers Elementary School in Garden City.

The ARC also provided technical support as required including septic system maintenance workshops, green infrastructure workshops and bus tours and continued monitoring of the storm water permit contested case.

Please feel free to contact me if you have any questions or comments regarding the attached report.

Sincerely,

**ALLIANCE OF ROUGE COMMUNITIES**

A handwritten signature in black ink that reads "James W. Ridgway". The signature is fluid and cursive, with a large initial "J" and a stylized "R".

James W. Ridgway, P.E.  
Executive Director



# EXECUTIVE DIRECTOR 2009 ANNUAL REPORT

## TASK 1: MEETINGS

### **A. FULL ALLIANCE MEETINGS**

Staff support was provided for each meeting, including preparation of the agenda (under the direction of the Chair), distribution of the materials prior to the three (3) full ARC meetings, facilitation of the meetings (including note-taking and tallying of votes at the meeting), and preparation/distribution of meeting summaries to members and other interested parties. Alliance of Rouge Communities meetings were held on:

- ◆ *May 5, 2009 in Troy:* The ARC approved revised bylaws to provide for the ARC creating a 501(c)(3) to accept donations. Funding for Friends of the Rouge in the amount of \$38,600 was approved. Funding of \$12,500 was approved by the ARC to support Detroit Public Televisions MiEarth website. PIE budget amendments 1 and 2 were approved. Technical Committee Budget Amendments 1 and 2 were approved. The Executive Committee Conflict of Interest Policy was adopted. The Contract Approval Procedure was adopted.
- ◆ *August 6, 2009 in Southfield:* The attorneys involved in the Michigan Department of Natural Resources and Environment (formerly Michigan Department of Environmental Quality) permit contested case gave an update to the ARC.
- ◆ *October 21, 2009 in Canton:* The 2010 ARC budget of \$735,741 was discussed and approved, as were the 2009 Budget Amendments (FC1- 501(c)(3) application; OC2-WMP Revisions and TC4-Land Cover Inventory). Additionally, the following actions were approved:
  - The Organizational Committee will review the grants procedure and will incorporate the Executive Director into performing Grant Committee activities;
  - ARC members are to review the ARC-drafted alternative permit and provide comments to ECT;
  - Executive Director staff is to draft changes to the purchasing policy to include outside funding requests and present to the Organizational Committee for review;
  - ARC Executive Director staff is to continue discussions with the Michigan Department of Natural Resources and Environment (MDNRE) regarding a watershed permit for the ARC;
  - The filing of Form 1023 to establish a separate charitable organization named the ARC Foundation;
  - ARC Staff to contact a lawyer regarding the ARC Foundation having a minimum fundraising amount;
  - ARC Members to forward their 2009 success stories to Wayne County;
  - Recognition of Jim Zoumbaris for his service to the ARC upon his retirement from the City of Livonia.

## **B. EXECUTIVE COMMITTEE**

Staff support was provided for four (4) Executive Committee meetings. Staff support for each meeting included (under the direction of the ARC Officers), preparation of the agenda, distribution of the materials prior to the meetings, facilitation of the meetings (including note-taking and documenting recommendations considered and actions taken), and meeting summary preparation and distribution. This subtask also included ongoing support services for the committee outside of the regular meetings.

The Executive Committee discusses and approves items in advance of full ARC meetings. Agendas and meeting summaries are available on [www.allianceofrougecommunities.com](http://www.allianceofrougecommunities.com). ARC Executive Committee Meetings were held on the following dates:

- ◆ March 18, 2009 in Northville
- ◆ April 22, 2009 in Livonia
- ◆ June 10, 2009 in Canton Township
- ◆ October 6, 2009 in Canton Township

## **C. ORGANIZATIONAL COMMITTEE**

An Organizational Committee Meeting was held on August 10, 2009 in Bloomfield Township to discuss the contested case and ARC membership.

## **D. PUBLIC INVOLVEMENT AND EDUCATION (PIE) COMMITTEE**

Staff support was provided for four (4) regular meetings, including preparation of the agenda (under the direction of the PIE Committee Chair), distribution of the materials prior to the meetings, facilitation of the meetings (including note-taking and record of actions taken), and preparation/distribution of meeting summaries to members and other interested parties. Staff provided ongoing support services for the committee outside of regular meetings. PIE meetings were held on the following dates:

- ◆ January 15, 2009 in Canton Twp.
- ◆ March 12, 2009 in Northville Twp.
- ◆ July 9, 2009 in Beverly Hills
- ◆ October 15, 2009 at the UM-D EIC in Dearborn

A PIE (2010 Budget) Planning Meeting was held on July 16, 2009 in Southfield.

Specific PIE activities are listed under Task 3.

## **E. TECHNICAL COMMITTEE**

Staff support was provided for three (3) regular committee meetings and three (3) subcommittee meetings. Activities included preparation of the agenda (under the direction of the Technical Committee Chair), distribution of the materials prior to the meetings, facilitation of the meetings (including note-taking and record of actions taken), and preparation/distribution of meeting summaries to members and other interested parties. Ongoing committee support services was also provided.

Technical Committee Meetings were held on the following dates:

- ◆ February 19, 2009 Farmington Hills
- ◆ July 15, 2009, Northville Twp.
- ◆ August 20, 2009, Northville Twp.

Additional special subcommittee meetings were held. They were:

- ◆ ARC Permit Subcommittee: February 3, 2009 in Farmington Hills
- ◆ IDEP TMDL Subcommittee: May 29, 2009 in Farmington Hills
- ◆ Grants Subcommittee: September 17, 2009 in Bloomfield Township

Specific Technical Committee activities are listed under Task 4.

#### **F. SUBWATERSHED ADVISORY GROUPS (SWAGS)**

Staff support was provided for one (1) meeting each for the three combined SWAGs. Staff support included preparation of the agenda (under direction of each SWAG Chair), distribution of materials prior to the meetings, facilitation of the meetings (including note-taking and record of actions taken), and preparation/distribution of meeting summaries to members and other interested parties. ECT provided technical assistance to members in meeting their Watershed Based Storm Water NPDES permit requirements. Staff also provided ongoing support services for the committee outside of the regular meetings.

SWAG meetings were held on the dates listed below:

- ◆ Lower 1/Middle 1 SWAG: May 19, 2009 in Northville Township
- ◆ Middle 3/Lower 2 and Main 3-4 SWAG: May 19, 2009 in Livonia
- ◆ Main 1-2/Upper SWAG: May 20, 2009 in Farmington Hills

Remaining budget for 2009 SWAG meetings was allocated for Watershed Management Plan Revisions based on MDNRE comment to the 2008 Draft Rouge River Watershed Management Plan.

#### **G. FINANCE COMMITTEE**

ECT worked with the Finance Committee to develop and administer the annual budget and work plan. ECT prepared monthly financial reports, mailed dues invoices to members, collected dues and paid the ARC's bills. ECT facilitated four (4) Finance Committee meetings by preparing the agenda, distributing materials prior to the meetings, and preparing/distributing meeting summaries to appropriate parties.

Finance Committee meetings were held at Wayne County's Commerce Court office in Wayne on the following dates except were indicated:

- ◆ February 10, 2009
- ◆ April 22, 2009
- ◆ August 12, 2009
- ◆ September 8, 2009 (Bloomfield Twp.)

## **H. ONGOING SUPPORT SERVICES**

ECT provided ongoing support services to the above committees and SWAGs on an as-needed basis.

## **TASK 2: ADVOCACY AND ADMINISTRATION**

### **A. FREEDOM OF INFORMATION ACT (FOIA) AND OPEN MEETINGS ACT – STATE LAW REQUIREMENTS**

The ARC received three FOIA requests in 2009. They were:

- A FOIA request from Eastern Michigan University to review proposals for the Land Cover Inventory RFP.
- Two FOIA requests from Joel Thurtell regarding compensation of employees of the ARC and Rouge River water quality sampling data.

### **B. ROUTINE DISTRIBUTION OF MATERIALS**

Materials distributed in 2009 included all meeting materials for the ARC Executive Committee, the ARC, the PIE, Technical, Organizational, and Finance committees and all special meetings. Staff also distributed materials related to permit discussions with MDNRE, watershed management planning documents and flyers for upcoming events.

### **C. ARC WEBSITE MAINTENANCE**

(Please see PIE Committee Tasks, 3.e., below)

### **D. ADVOCATE FOR ROUGE RIVER WATERSHED & PRIMARY LIAISON**

ECT promoted the ARC as the advocate for the Rouge River Watershed, served as the primary spokesperson for the ARC, responded to requests for information and sought opportunities to promote ARC awareness. ECT served as the ARC primary liaison to all members, including both formal and informal interaction with government officials, legislators and staff on a regular basis. The Executive Director participated in the following activities:

#### **St. Clair County**

In January, 2009, Executive Director Jim Ridgway met with St. Clair County regarding formation of the ARC.

#### **Funding Opportunities**

The Executive Director met with the ARC Chair, Wayne County and US Army Corps of Engineers to discuss possible funding opportunities in February, 2009.

The Executive Director participated in a conference call to discuss the National Oceanographic and Atmospheric Administration (NOAA) grant on March 23, 2009 and made various phone calls to stakeholders regarding the ARC NOAA grant application.

The Executive Director and staff met with Wayne County in June, 2009 to discuss possible Rouge projects in conjunction with the Army Corps of Engineers.

Staff met with Wayne County and the University of Michigan on November 13, 2009 to discuss future activities related to the removal of the Henry Ford Estate dam.

More information about 2009 ARC grant submittals is located under Technical Committee Tasks, 4.d., of this report.

#### Storm Water Permit Contested Case

The Executive Director attended a hearing on the contested case in Lansing on May 20, 2009 and periodically met with attorneys to get updates.

#### Watershed Management Plan Update

The Executive Director and staff met with MDNRE staff in Warren on August 28, 2009 to discuss issues involving the MDNRE-requested revisions to the WMP and possible alternative approaches to the storm water permit. ARC staff continues to revise the draft 2008 Rouge River Watershed Management Plan for approval by MDNRE.

#### EPA/NOAA Bus Tour

Staff made arrangements for an ARC-sponsored bus tour to educate EPA and NOAA officials about habitat restoration activities already conducted in the Rouge River Watershed and those planned for the future. The purpose of the tour was showcase areas that would be the basis of grant requests to various federal agencies. Staff also prepared handouts for the bus tour and facilitated the bus tour on November 12, 2009. Tour locations were: the Wayne Road dam; Hines Drive grow zones; Henry Ford Estate dam; the Oxbow at The Henry Ford; Evans Creek and rain gardens at Lawrence Technological University and Valley Woods at the City of Southfield.



#### ARC Foundation

In 2009 The ARC Foundation, a 501(c)(3) non-profit organization was created to accept grants and to further the mission and goals of the ARC.

### **E. QUICK BOOKS SETUP AND MONTHLY TRACKING**

In 2008, ECT created a reporting and tracking system in consultation with Wayne County to use when the ARC took over financial tracking from Wayne County, which had served as the ARC's fiduciary. The ARC ED staff completed the transition of taking over the ARC's financial responsibilities, including dues collection, bill payments, and other financial activities from Wayne County.



## F. ADMINISTRATIVE OVERSIGHT & CONTRACTOR MANAGEMENT

ECT provided administrative oversight of the ARC day-to-day activities, staff, consultants and contractors, and external relationships with other agencies, organizations, and individuals to meet the goals of the ARC. Specific activities were discussed in monthly invoice summaries.

## G. ARC MARKETING & COMMUNICATIONS STRATEGY

### MiEarth

Staff met with University of Michigan Dearborn and Detroit Public TV on February 20, 2009 to discuss ARC participation in MiEarth website. (Additional information about MiEarth is discussed under PIE Committee Tasks, 3.g)

### Erb Foundation

Staff attended a meeting regarding watershed groups and their needs sponsored by the Erb Foundation at the Kresge Foundation offices in Troy on April 23, 2009. The Executive Director attended a follow-up meeting with the Erb Foundation staff in Birmingham on September 29, 2009 to discuss possible funding opportunities.

### ARCommunications newsletter

The ARCommunications newsletter was written and sent to members in March, 2009 and June, 2009.

## H. ANNUAL REPORT

The 2008 ARC annual report was completed and submitted to the ARC in March, 2009.

## TASK 3: PIE COMMITTEE TASKS

### A. GREEN INFRASTRUCTURE CAMPAIGN

#### Grow Zone Projects

The ARC PIE Committee developed a Request for Proposals (RFP) for communities and organizations to submit project sites for the 2009 Green Infrastructure (Grow Zone) projects. ARC staff provided design, plant material and signage for the approved projects. The Grow Zone Subcommittee received 17 proposals and funded 13 projects. They are:

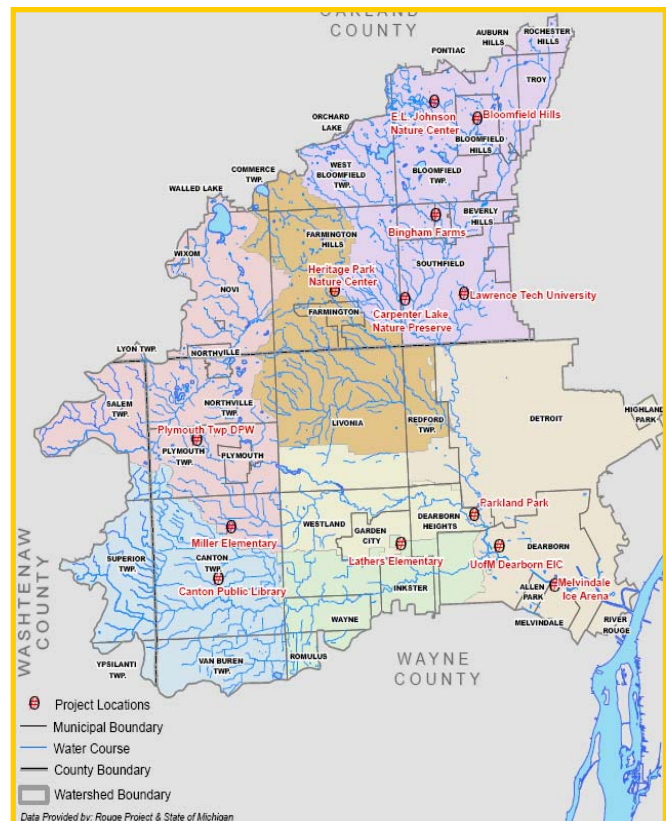
1. Bloomfield Hills: Three rain gardens were installed in place of existing asphalt in subdivision near a school with mix of native and non-native species.
2. U-M Dearborn: Native plant area to replace existing turf and collect water from downspouts.
3. Plymouth Township: Native plants/rain garden located adjacent to DPW storage yard.



4. EL Johnson Nature Center -Bloomfield Schools/Bloomfield Twp: Native plants to replace turf grass adjacent to nature center to slow runoff to pond.



5. Bingham Farms: Native plants for road median.
6. Farmington Hills: Native plants at Heritage Nature Center entrance and native prairie seeding in large lawn area adjacent to Nature Center.
7. Dearborn Heights: Native plants installed adjacent to drain outfall to the Rouge River in Parkland Park.
8. Canton Township: Riparian buffer and detention basin edge native planting at Canton Public Library.
9. Lawrence Technological University, Southfield: Riparian Buffer at Evan's Drain to replace turf grass.
10. Melvindale Boat Ramp: Riparian buffer/native plants behind ice arena and adjacent to the Rouge River.
11. Miller Elementary, Canton (Plymouth/Canton Schools): Native plant restoration for schoolyard habitat.
12. Lathers Elementary School, Garden City: Schoolyard habitat/native plants and tree planting to replace mowed turf near school.
13. City of Southfield: Green Roof for boat storage facility at Carpenter Lake nature preserve.



### Green Infrastructure Workshops and Bus Tours

The PIE Committee and ARC staff planned three workshops and corresponding bus tours spotlighting three areas of the Rouge River Watershed.

The workshops were:

- ◆ Lower 1/Middle 1: August 11, 2009 in Canton Township
- ◆ Middle 3/Lower 2/Main3-4: August 20, 2009 at the University of Michigan - Dearborn (UM-D)
- ◆ Main 1-2/Upper: August 25, 2009 in Southfield.

To access agendas, presentations and handouts, please go to the ARC website at:  
<http://www.allianceofrougecommunities.com/contact/growinggreen.html>.

The bus tours were:

- ◆ Lower 1/Middle 1: August 15, 2009, left from Canton Township.
- ◆ Middle 3/Lower 2/Main 3-4: August 22, 2009, left from UM-D EIC
- ◆ Main 1-2/Upper: August 29, 2009, left from the Lathrup Village offices

To access tour maps and site information, please go to the ARC website at:

<http://www.allianceofrougecommunities.com/contact/growinggreen.html>.



### Septic System Maintenance Workshops

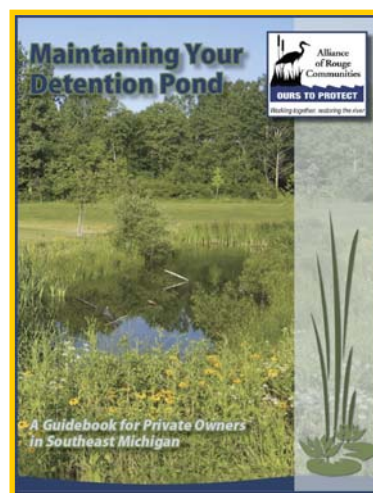
The ARC sponsored septic system maintenance workshops on May 13, 2009 in Southfield and May 20, 2009 in Livonia.

#### **B. DETENTION POND MAINTENANCE MANUAL**

The existing Detention Pond Maintenance Manual for homeowners was revised in 2009. This manual was distributed to communities and can be accessed at:  
<http://www.allianceofrougecommunities.com/PDFs/PI/detention%20pond%20manual%2081-2%20x%2011.pdf>.

#### **C. PUBLIC ED MATERIALS**

Staff ordered 16 CDs/VHS Tapes on Municipal Storm Water BMP Training at a reduced rate from SEMCOG.



Staff mailed the Rouge Watershed video developed by the City of Farmington Hills in 2008 to all ARC members for presentation on local cable stations.



The Detention Pond Maintenance Manual was printed (4,000 copies) for distribution to ARC members.

#### **D. COLLABORATIVE PEP**

The task was not completed due to the storm water permit contested case activities. Budget was re-allocated to pay for MiEarth activities.

#### **E. WEBSITE MAINTENANCE**

Staff performed design, writing, editing and general maintenance of the ARC website ([www.allianceofrougecommunities.com](http://www.allianceofrougecommunities.com))

#### **F. ROUGE 2009**

Staff assisted with a Rouge 2009 presentation that was made to the Friends of the Rouge Annual Meeting in December, 2009. This presentation will be updated for presentation to the full ARC in 2010.

#### **G. MIEARTH**

Staff researched and transmitted Rouge River photos to MiEarth staff for the cover of Signal magazine. In March, 2009, staff developed an ARC print ad for Channel 56 (WTVS) Signal Magazine which is sent to 90,000 contributors to local public television. Additionally, staff compiled and sent various ARC, Rouge Project and local community video to Channel 56 (WTVS) for use on the MiEarth website.

Staff also developed an ARC promotional ad that was run after regular Channel 56 programs to publicize the ARC.

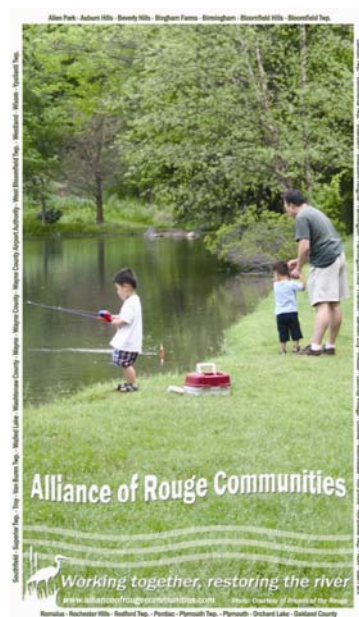
#### **H. FRIENDS OF THE ROUGE**

##### Local & Regional Outreach

In the course of its work, FOTR promotes activities and attends a variety of local and regional meetings to build partnerships and promote Rouge River activities. FOTR staff attended the following meetings and conferences to provide FOTR and ARC information to establish and enhance local & regional outreach with communities, other non-profits and governmental agencies:

Display at Eco Village at DTE Music Theatre (7/28)

- ◆ Soil and Water Conservation Conference, Dearborn (7/12-14)
- ◆ Canoe Trip down the Lower 2 Rouge (9/19)
- ◆ Kayak Trip from Melvindale to River Rouge (9/26)
- ◆ Blue Water Economy conference, Dearborn (11/10)
- ◆ Rouge Green Corridor meetings
- ◆ Southeast Michigan Land Conservancy collaboration meetings
- ◆ Fordson Island restoration project meetings
- ◆ SEMCOG Partners for Clean Water meetings





### Annual Report

The Friends of the Rouge developed and generated an annual report of the activities it conducted in 2009 that help ARC members fulfill the requirements of the storm water permit. The report includes the Frog and Toad Survey, Benthics Monitoring, Schoolyard Habitat, Rouge Education Project (REP), River Restoration, and Rouge Rescue. Information includes meeting or event dates; workshop dates; number of volunteers attending each event; Residency of volunteers, Rouge Rescue locations and number of volunteers; REP Schools, number of students per school, number of teachers per school, monitoring locations for each school; a list of dates, locations for REP workshops and a list of schools that participated. This report is attached as Appendix A.

### Program Reviews

The Friends of the Rouge performed program reviews, including a survey of ARC members, of the REP, River Restoration, Volunteer Monitoring, and Rouge Rescue to ensure each program is aligned with community needs/desires and is providing information valuable to the communities it serves. Upon the outcome of the reviews, Friends of the Rouge developed a 2009/2010 combined Calendar of Events which is posted on the FOTR website ([www.therouge.org](http://www.therouge.org)) so it is available to the public. This review will assist in ensuring viability of each program and appropriate event coverage throughout the watershed communities. The program review survey is attached as Appendix B.

## **TASK 4: TECHNICAL COMMITTEE TASKS**

### **A. ROUGE RIVER WATERSHED MONITORING ACTIVITIES**

Friends of the Rouge coordinated volunteers in monitoring wadeable Rouge streams for benthic macroinvertebrates from January-December, 2009. Activities include training team leaders and organizing sampling events twice a year (spring and fall) and an additional sampling event for winter stoneflies only in January, 2009. A minimum of 20-24 sites at each event were sampled with the potential for additional sites dependent on available team leaders. The spring and fall events include a habitat survey and identification of any outfalls. Each event included field identification backed by specimen collection at each site, verification in the lab, and a data report covering number of volunteers involved, sites sampled and monitoring results. Reports for the 2009 Winter Stonefly Search, the 2009 Spring Bug Hunt and the 2009 Fall Bug hunt are available at [www.allianceofrougecommunities](http://www.allianceofrougecommunities) and [www.therouge.org](http://www.therouge.org).

### **B. ARC COLLABORATIVE IDEP AND E. COLI TMDL PLAN**

ARC staff developed a draft web-based Rouge River Storm Water Reporting System in 2009 which will offer ARC members a web-based template for Phase II permit reporting to the MDNRE. Prior to the development of the web-based interface, the ARC developed a reporting template upon which the reporting system would be based. Various annual reports were reviewed to develop a template that could be used by all ARC members. The ARC selected the minimum number of activities that we believe, the MDNRE will accept in an annual report and the associated reporting measures (ex: tons of street sweeping debris, number of illicit

connections identified, etc.) for each activity. Multiple reporting measures were listed (ex: tons or cubic yards of debris removed from catch basins or number of catch basins cleaned) for some activities to allow members flexibility in how they report. A draft reporting template was distributed to the Technical Committee and to the full ARC and comments were incorporated before the template was forwarded to the computer programmers/web designers.

The reporting system allows for comments on each entry and for back-up files to the uploaded report, which will be beneficial during an audit. Reporting will be available on an individual member basis and on a watershed-wide basis. However, before the watershed-wide reporting option can be functional, ARC members need to potentially revise their SWPPIs so they are consistent with the template and their reporting dates so all members have the same reporting dates. The system will be tested and refined in early 2010 using actual reporting data from four ARC members (two counties, a township and a city) with the goal that it will be operational for member-specific reporting by late 2010. The watershed-wide reporting feature will be functional by the end of 2011 based on the settlement of the contested case and MDNRE approval. ARC staff will conduct a training session during at each SWAG meeting to demonstrate how to use the system in 2010. The draft reporting system can be found at <http://www.arcswppli.com>.



### C. GREEN INFRASTRUCTURE AND IMPERVIOUS COVER MAPPING

Work began in 2009 to create a land cover inventory for the Rouge River Watershed. A land cover inventory allows for an analysis of aerial photography to determine the extent of pervious (green) and impervious (gray) land cover across the watershed. This information will allow the ARC to better quantify and communicate the economic and environmental benefits of using green infrastructure in the watershed. This will also provide the ARC a method to evaluate the impact of future development using traditional engineering methods versus more “green” engineering methods. This type of land cover analysis will also be used to determine the impact of restoration efforts in the watershed. All ARC members will be given access to the datasets being developed for use in forecasting and/or evaluating the impacts of new development projects.

An Request for Proposal (RFP) was developed and contractor was selected to perform the analysis. The first contractor selected to perform this work was terminated once it was determined that they were not able to perform the work. The second highest ranked



contractor was hired in late 2009 and a land cover classification was complete in a pilot area to the ARC's satisfaction. Draft datasets are being delivered in early 2010 and the work will be complete by mid-2010.

The ARC's role for this activity included RFP development, bidder ranking, bidder interviews, contract development and negotiation, and contract administration. Technical oversight was provided by Wayne County.

#### **D. PURSUING GRANT OPPORTUNITIES**

In 2009, ARC staff prepared the following grants:

- ◆ Clean Michigan Initiative: A state CMI grant application for \$50,000 to conduct monitoring in the Rouge. The monitoring would aid IDEP investigations in previously determined priority areas.
- ◆ National Oceanographic and Atmospheric Administration (NOAA): A NOAA grant application for \$2,526,812 was submitted to complete multiple habitat projects identified in the Rouge AOC delisting document in partnership with the Great Lakes Commission. The projects included in the submittal were Danvers Pond, Evans Creek and Green Corridors (Wayne County Parks and Beechwood Park in Southfield).
- ◆ MDEQ Water Bureau TMDL: The Rouge River *E. coli* TMDL Plan Implementation grant application for \$71,222 was submitted. The goal of this project was to develop and implement a framework for reducing *E. coli* associated with municipal separate storm sewer systems (MS4s).
- ◆ National Fish and Wildlife Foundation - Sustain Our Great Lakes Stewardship Grants: The ARC submitted a habitat restoration grant pre-proposal for \$1,250,000 to restore habitat in the Rouge Green Corridor Communities of Birmingham, Beverly Hills and Southfield, the City of Detroit Eliza Howell and Rouge parks and Wayne County Parks.

#### **E. NPDES PHASE II WORK GROUP**

The purpose of this task was to develop watershed-wide strategies that could be used by members to fulfill their increased obligations under the new permit. However, since the contested case was not resolved in 2009, this work was put on hold. The only effort accomplished under this task was that ARC staff attended and prepared for a conference call in early 2009 hosted by members' attorneys. The ARC created an agenda for the meeting and distributed a meeting summary to members.

The remainder of budget associated with this scope of work was transferred to the Land Cover Inventory task to provide contractor administration services as described in item c above.

**APPENDIX A**  
**Friends of the Rouge 2009 Annual Report**



**Friends of the Rouge  
2009 Annual Report for ARC  
ROUGE RESCUE**

**Rouge Rescue**

**Site Coordinator Events**

Event	Location	City	Attendance
Rouge Rescue Kick-off Training	Southfield Public Library	Southfield	19
Rouge Rescue Wrap-up Meeting	Environmental Interpretive Center, University of Michigan-Dearborn	Dearborn	9

**Rouge Rescue Event**

Rouge Rescue Site	Sponsoring Community or Organization	City	2009 participation
Douglas Evans Nature Preserve and Riverside Park	Beverly Hills Resident	Beverly Hills	25
Green Gardening for the Rouge River	SOCWA	Beverly Hills	N/A
Linden Park	City of Birmingham	Birmingham	30
Cranbrook Institute of Science	Cranbrook Institute of Science	Bloomfield Hills	30
EL Johnson Nature Center	Bloomfield Township/ EL Johnson Nature Center	Bloomfield Hills	30
Roeper School	Roeper School	Bloomfield Hills	14
Canton Recreation Trail	City of Canton	Canton	369
Meadows of Canton	Wayne County Department of Environment	Canton	135
Dearborn Greenway Trail	Christ Episcopal Church	Dearborn	39
Henry Ford Community College	HFCC Student Environmental Association	Dearborn	4
Henry Ford Estate	Henry Ford Estate	Dearborn	14
University of Michigan-Dearborn	Friends of the Rouge Volunteer	Dearborn	69
Parkland Park	Dearborn Heights Watershed Stewards	Dearborn Heights	18
Eliza Howell Park	Friends of the Rouge	Detroit	13
Fordson Island	Southwest Detroit Environmental Vision	Detroit	25
Rouge Park	Friends of Rouge Park, City of Detroit	Detroit	210
Shiawassee Park	Friends of the Rouge	Farmington	38
Heritage Park	Farmington Hills	Farmington Hills	39
Oakland Community College	Oakland Community College	Farmington Hills	25
Lower Rouge, Inkster	City of Inkster	Inkster	43
Beverly Park	City of Livonia	Livonia	48
Botsford Park (Moelke Park)	Trinity Church	Livonia	46
Coventry Gardens Improvement Association	Coventry Gardens Improvement Association	Livonia	10
Allen Drive Park	Northville resident	Northville	6
Fish Hatchery Park	Northville Twp	Northville Twp	121
Rotary Park	City of Novi	Novi	84
Woods Drive	City of Plymouth	Plymouth	23
Plymouth Twp Park	Plymouth Township	Plymouth Twp	63
Lola Valley Park	Redford Twp	Redford Twp	66
Beech Woods Recreation Center/ DENSO	City of Southfield	Southfield	206
Berberian Woods	Six Rivers Regional Land Conservancy	Southfield	12
DENSO International America	DENSO International America	Southfield	143
Kosch Headwaters Preserve	Southeast Michigan Land Conservancy	Superior Twp	5
Stage Nature Center	City of Troy	Troy	160
Walled Lake Historic Lakefront	City of Walled Lake	Walled Lake	6
Dynamite Park	Kurt Kuban	Wayne	51
Holliday Nature Preserve	City of Westland & the Holiday Nature Preserve Association	Westland	68

**Friends of the Rouge  
2009 Annual Report for ARC  
ROUGE RESCUE**

**Total Participation**

**2288**

**Volunteer Residency**

City/Township	Households participating
Allen Park	2
Ann Arbor	3
Auburn Hills	2
Belleville	2
Berkley	1
Beverly Hills	13
Birmingham	14
Bloomfield Twp	3
Bloomfield Hills	9
Brighton	3
Brownstown	2
Canton	219
Clarkston	4
Clinton	1
Commerce Twp.	1
Dearborn	50
Dearborn Heights	24
Detroit	81
East Lansing	2
Farmington	5
Farmington Hills	40
Fenton	1
Ferndale	4
Garden City	5
Grand Rapids	1
Gregory	1
Grosse Pointe Woods	1
Harrison Township	2
Highland	2
Inkster	24
Keego Harbor	1
Lake Orion	3
Lansing	1
Livonia	28
Macomb	2
Madison Heights	2
Milford	3
Monroe	1
Northville/Northville Twp.	36
Novi	57
Oak Park	1
Orchard Lake	2
Ortonville	1
Paw Paw	1
Pickney	1
Plymouth/Plymouth Twp.	52
Pontiac	2
Portage	1
Redford	49

**Friends of the Rouge  
2009 Annual Report for ARC  
ROUGE RESCUE**

Riverview	1
Rochester	5
Rochester Hillis	7
City/Township	Households participating
Romulus	3
Roseville	1
Royal Oak	14
Shelby Township	4
South Lyon	5
South Rockwood	1
Southfield	9
Southgate	1
Sterling Heights	3
Superior Township	2
Taylor	6
Troy	48
Walled Lake	5
Warren	4
Washington	2
Waterford	2
Wayne	2
West Bloomfield	2
Westland	45
White Lake	1
Woodhaven	1
Wyandotte	1
Ypsilanti	2
<b>Total Households</b>	<b>943</b>

**Friends of the Rouge  
2009 Annual Report for ARC  
RIVER RESTORATION**

**River Restoration Program**

Date	Event	Location	City	Attendance
4/2/2009	WSU Student Workday	UM-D Natural Area	Dearborn	5
5/16/2009	Trinity Church Native Planting	Trinity Church	Livonia	17
5/23/2009	Native Planting and Trail Maintenance Eagle Scout Project	Rotary Park	Livonia	n/a
6/20/2009	Kosch Headwaters Preserve Native Pollinator Planting	Kosch Headwaters Preserve	Superior Twp	16
8/22/2009	Rouge Friendly Landscaping: Native Plants for Better Water Quality Workshop w/ ARC	University of Michigan-Dearborn	Dearborn	22
8/25/2009	Rouge Friendly Landscaping: Native Plants for Better Water Quality Bus Tour w/ ARC	University of Michigan-Dearborn	Dearborn	25
8/29/2009	Shiawassee Park Woody Debris Management Eagle Scout Project	Shiawassee Park	Farmington	20
9/12/2009	Fish Hatchery Park Native Planting and Garden Maintenance Project	Fish Hatchery Park	Northville	4
9/26/2009	Rain Garden Planting	Leo Snage Public Service Building	Redford	22
10/26/2009	Lower Rouge Streambank Stabilization Eagle Scout Project	Lower Rouge Trail	Canton	19
11/13/2009	Buckthorn Removal Workday	UM-D Natural Area	Dearborn	6

156

**Volunteer Residency**

WSU Workday

# Volunteers	City/Twp
1	Carlton
1	Croswell
1	Hamtramck
1	Harper Woods
1	Sterling Heights

Trinity Church Native Planting

# Volunteers	City/Twp
1	Commerce Twp
2	Detroit
1	Farmington
3	Ferndale
4	Livonia
3	Redford
1	Southfield

Native Planting and Trail Maintenance Eagle Scout Project

# Volunteers	City/Twp
N/A	N/A

Kosch Headwaters Preserve Native Pollinator Planting

# Volunteers	City/Twp
2	Canton
4	Dearborn
1	Dearborn Heights
2	Detroit
1	Northville/Northville Twp.
3	Westland
1	Ypsilanti



**Friends of the Rouge  
2009 Annual Report for ARC  
RIVER RESTORATION**

Shiawassee Park Woody Debris Management Eagle Scout Project

# Volunteers	City/Twp
1	Commerce
1	Farmington
12	Farmington Hills
5	Northville/Northville Twp.
1	Wixom

Fish Hatchery Park Native Planting and Garden Maintenance Project

# Volunteers	City/Twp
1	Livonia
2	Northville/Northville Twp.
1	Novi

Rain Garden Planting, Redford

# Volunteers	City/Twp
1	Dearborn
2	Detroit
1	Farmington
2	Farmington Hills
1	Livonia
2	Northville/Northville Twp.
4	Plymouth/Plymouth Twp.
5	Redford
1	Southfield
2	Sterling Heights
1	Westland

Lower Rouge Streambank Stabilization Eagle Scout Project

# Volunteers	City/Twp
n/a	

Buckthorn Removal Workday

# Volunteers	City/Twp
3	Dearborn
2	Southfield
1	Woodhaven

**Friends of the Rouge  
2009 Annual Report for ARC  
ROUGE EDUCATION PROJECT**

**Rouge Education Project**

<b>Schools - Spring Monitoring 09</b>			
	<b># Teachers</b>	<b># Students</b>	<b>Monitoring Location</b>
1 <b>Beverly Hills</b>			
Detroit Country Day School	6	380	On school grounds-Beverly Hills
2 <b>Birmingham</b>			
Lincoln Street Alternative High School	1	25	Douglas Evans Nature Preserve-Beverly Hills
3 <b>Bloomfield Hills</b>			
Birmingham Covington School	4	260	Linden Park-Birmingham
Marian High School	1	13	Firefighters Park-Troy
4 <b>Canton</b>			
Plymouth-Canton High School	1	55	School grounds-Plymouth
Tonda Elementary School	1	30	School grounds-Canton
5 <b>Clawson</b>			
Clawson Middle School	2	120	Linden Park-Birmingham
6 <b>Dearborn</b>			
Dearborn High School	1	6	School grounds-Dearborn
Divine Child High School	2	35	Gulley Road Overpass-Dearborn
Henry Ford Academy	1	50	Greenfield Village Oxbow-Dearborn
Long Elementary School	2	11	Valley View Recreation Area-Westland
Unis Middle School	2	70	Parkland Park-Dearborn Heights
7 <b>Dearborn Heights</b>			
Crestwood High School	1	30	Parr Recreation Area, Hines Park-Dearborn Heights
Riverside Middle School	2	300	Wallaceville Soccer Field, Hines Park-Dearborn Heights
8 <b>Detroit</b>			
Cesar Chavez Academy High School	2	20	Wayne Country Dept. Public Services Office-Wayne
Joyce Elementary School	1	50	Plymouth Riverside, Hines Park- Plymouth
Logan Elementary School	1	30	Superior Twp. Park-Superior Twp.
OW Holmes Elementary School	5	60	Ford Field- Dearborn
9 <b>Farmington Hills</b>			
Mercy High School	2	25	School grounds-Farmington Hills
Steppingstone School	7	65	Shiawassee Park-Farmington
10 <b>Garden City</b>			
Garden City High School	1	90	Inkster Wetlands-Inkster
11 <b>Harper Woods</b>			
Chandler Park Academy	3	60	Lola Valley Park-Redford
12 <b>Inkster</b>			
Thomas Gist Academy	4	25	Colonial Park-Inkster
13 <b>Keego Harbor</b>			
Roosevelt Elementary School	1	40	West Bloomfield Nature Preserve
14 <b>Livonia</b>			
Franklin High School	4	44	Plymouth Twp. Park-Plymouth
Frost Middle School	1	100	Bicentennial Park-Livonia
Ladywood High School	1	50	Between Newburgh Lake and I-275 in Hines Park-Plymouth
15 <b>Melvindale</b>			
Strong Middle School	2	210	Melvindale Civic Center Ice Arena (Concrete Channel)-Melvindale
16 <b>Northville</b>			
Amerman Elementary School	1	47	Ford Field-Northville
17 <b>Novi</b>			
Novi Meadows	7	120	Lakeshore Park-Nov
18 <b>Oak Park</b>			
Center for Advanced Studies and the Arts	1	20	Brookfarm Park-Nov
19 <b>Redford</b>			
St. Valentine School	1	22	Lola Valley Park-Redford
20 <b>Riverview</b>			
Riverview High School	1	15	Northville Recreation Area, Hines Park-Northville
21 <b>Romulus</b>			
Romulus Middle School	1	30	Heritage Park-Canton
22 <b>Royal Oak</b>			
Oakland Schools Technical Campus Southeast	2	12	OCC Orchard Ridge Campus
23 <b>Salem Twp.</b>			
Salem Elementary School	2	60	Johnson Creek (on school grounds)-Salem Twp.
24 <b>Southfield</b>			
Morris Adler Elementary School	1	60	Douglas Evans Nature Preserve-Beverly Hills
Brace Lederle K-8 School	2	60	Douglas Evans Nature Preserve-Beverly Hills
Birney Middle School	1	30	Civic Center Park-Southfield
Bradford Academy	4	75	Lola Valley Park-Redford
Southfield High School	1	20	Civic Center Park-Southfield
Southfield Regional Academic Campus	2	40	Lola Valley Park-Redford
25 <b>Troy</b>			
Smith Middle School	1	30	Quarton Lake Park-Birmingham
Troy High School	1	120	Coolidge Road, on Coolidge north of Long Lake -Troy

**Friends of the Rouge  
2009 Annual Report for ARC  
ROUGE EDUCATION PROJECT**

26	<b>West Bloomfield</b>			
	Doherty Elementary School	2	102	On school grounds-West Bloomfield
	Ealy Elementary School	3	70	West Bloomfield Nature Preserve
	Green Elementary School	2	100	West Bloomfield Nature Preserve
	West Hills Middle School	1	20	B/C Johnson Nature Center-Bloomfield Hills
27	<b>Westland</b>			
	Cooper Upper Elementary School	1	29	Private Residence-Livonia
	Huron Valley Lutheran School	1	16	Nankin Mills, Hines Park-Westland
28	<b>Wyandotte</b>			
	Roosevelt High School	2	40	Hix Park-Westland
	Wilson Middle School	1	35	Holiday Nature Preserve-Westland
	<b>Totals:</b>	104	3427	

**REP Workshops**

1	<b>Teacher LaMotte Water Quality Monitoring Workshop</b> - April 4th, 2009 - 8:30am-5pm - Dunckel Middle School, Farmington Hills			
	<b>Schools Attended:</b>			
	Morris Adler Elementary	Henry Ford Academy	Thomas Gist Academy North	
	Brace Lederle K-8 School	Joyce Elementary School	Unis Middle School	
	Bradford Academy	Long Elementary School		
	Birmingham Covington School	OW Holmes Elementary School		
	Center for Advanced Studies and the Arts	Roosevelt High School		
	Cesar Chavex Academy High School	Romulus Middle School		
	Chandler Park Academy	Smith Middle School		
	Clawson Middle School	St. Valentine School		
	Franklin High School	Steppingstone School		

2	<b>Teacher Hach Water Quality Monitoring Workshop</b> - April 4th, 2009 - 8:30am-5pm - Dunckel Middle School, Farmington Hills			
	<b>Schools Attended:</b>			
	Birney Middle School	Mercy High School		
	Divine Child High School	Salem Elementary School		
	Garden City High School	Southfield Regional Academic Campus		
	Lincoln Street Alternative High School			

3	<b>Student Congress-Middle/High Schools-</b> May 21, 2009 - 10am to 1:30pm- Livonia Civic Center Library, Livonia			
	<b>Schools Attended:</b>			
	Brace Lederle K-8 School			
	Clawson Middle School			
	Southfield Regional Academic Campus			

4	<b>Schoolyard Habitat Kick-Off Meeting</b> -November 4th, 2009-6pm-9:00pm- Environmental Interpretive Center, Dearborn			
	<b>Schools Attended:</b>			
	Allendale Elementary School	Howe School		
	Berkshire Middle School	Jefferson Elementary School		
	Birney Middle School	Logan Elementary School		
	Blair Moody ES	MacArthur Outdoor Learning Center		
	Bradford Academy	Memorial Elementary		
	Bryant Middle School	Novi Middle School		
	Chandler Park Academy	Rosedale Elementary School		
	Coffey Elementary/Middle School	St. Valentine School		
	Cranbrook Elementary School	Thurston HS		
	Dearborn Public Schools			

**Schools - Fall Monitoring 09**

		# Teachers	# Students	Monitoring Location
1	<b>Bloomfield Hills</b>			
	Birmingham Covington School	3	220	Linden Park-Birmingham
2	<b>Dearborn Heights</b>			
	Crestwood High School	1	28	Parr Recreation Area, Hines Park-Dearborn Heights
3	<b>Detroit</b>			
	Logan Elementary School	1	15	Superior Twp. Park-Superior Twp.
4	<b>Farmington Hills</b>			
	Steppingstone School	5	65	Shiawassee Park-Farmington
5	<b>Livonia</b>			
	Ladywood High School	1	45	Between Newburgh Lake and I-275 in Hines Park-Plymouth
6	<b>Northville</b>			
	Amerman Elementary School	1	53	Ford Field-Northville
7	<b>Oak Park</b>			
	Center for Advanced Studies and the Arts	1	30	Brookfarm Park-Nov
8	<b>Redford</b>			
	Thurston High School	2	30	Nankin Mills, Hines Park-Westland
9	<b>Riverview</b>			
	Riverview High School	1	25	Northville Recreation Area, Hines Park-Northville
10	<b>Royal Oak</b>			
	Oakland Schools Technical Campus Southeast	3	60	OCC Orchard Ridge Campus
11	<b>Troy</b>			
	Troy High School	1	80	Coolidge Road, on Coolidge north of Long Lake -Troy
	<b>Totals:</b>	20	651	

**Friends of the Rouge  
2009 Annual Report for ARC  
SCHOOLYARD HABITAT**

**Schoolyard Habitat**

<b>SYH Program 2009</b>	<b>Number of Student Participants</b>	<b>Number of Teachers</b>	<b>Number of Plant Species</b>	<b>Number of Plugs Planted</b>	<b>Size of habitat</b>
Berger School for Children With Autism Garden City Planting Day: <b>06/1/2009</b>	5	2	25	156	N/A
Smith Elementary School Plymouth Planting Day: <b>05/29/2009</b>	136	1	14	514	780 sq/ft
OW Holmes Elementary School Detroit Planting Day: <b>05/28/2009</b>	40	1	13	450	729 sq/ft
<b>Totals:</b>	<b>181</b>	<b>4</b>		<b>1120</b>	<b>1509 sq/ft</b>



# Friends of the Rouge

## 2009 Annual Report for ARC

### FROG TOAD SURVEY

#### 2009 Training Workshops

<u>date</u>	14-Feb	4-Mar	14-Mar	21-Mar		
<u>time</u>	10am-12pm	7-9pm	10am-12pm	10am-12pm		
<u>city/twp</u>	Southfield	Canton	Farmington Hills	Plymouth	Total Workshop Attendance	Submitted data
<u>location</u>	Parks and Recreation	Summit on the Park	Council Chambers	Township Hall		
<b><u>Attendee Residency</u></b>						
Ann Arbor		1			1	
Belleville		2			2	1
Beverly Hills						1
Birmingham	3		2	1	6	12
Bloomfield Hills			1			
Bloomfield Twp	2	1		2	5	13
Brighton				1	1	
Canton	4	30	1	10	45	48
Commerce Twp			1		1	1
Dearborn	1	2		1	4	10
Dearborn Heights	1	4		4	9	7
Detroit		1	2		3	6
Farmington			4		4	4
Farmington Hills	3	1	29	4	37	34
Franklin						1
Garden City	2			4	6	2
Grosse Pointe Woods	3				3	
Highland			2		2	
Huntington Woods		1			1	
Lake Orion			1		1	1
Lathrup Village	7		1		8	5
Lincoln Park				1	1	
Livonia	1	7	19	17	44	44
Melvindale						2
Northville/Northville Twp.	2	5	6	10	23	33
Novi	1				1	5
Oak Park	1				1	2
Plymouth/Plymouth Twp.	1	5	4	15	25	31
Redford	4	4	6	7	21	18
Rochester Hills	1				1	3
Romulus						1
Royal Oak	11	1	2		14	5
Saline				3	3	3
Southfield	13	1	3	1	18	12
Sterling Heights			1		1	2
Sylvan Lake	1		1		2	3
Taylor				1	1	
Troy	4			2	6	22
Wayne		1			1	3
West Bloomfield				1	1	2
Westland		4	4	8	16	9
Wixom			4	1	5	1
Wolverine Lake				1	1	
Ypsilanti		1			1	
unknown		1	2	7	10	
	<b>66</b>	<b>73</b>	<b>96</b>	<b>102</b>	<b>336</b>	<b>347</b>

#### 2009 Blocks Surveyed

Subwatershed	# blocks surveyed
Main 1-2	57
Upper	33
Middle 1	52
Lower 1	33
Lower 2	11
Middle 3	6
Main 3-4	6
<b>Total</b>	<b>198</b>

# Friends of the Rouge

## 2009 Annual Report for ARC

### BENTHIC MACROINVERTEBRATE MONITORING

#### 2009 Benthic Monitoring Sampling Days

<u>event</u>	Winter Stonefly Search	Spring Team Leader Training	Spring Bug Hunt	Spring Bug Identification	Fall Team Leader Training	Fall Bug Hunt	Fall Bug Identification
<u>date</u>	24-Jan	5-Apr	25-Apr	7-May	27-Sep	17-Oct	29-Oct
<u>time</u>	9am-3pm	1-5 pm	9am-4pm	5-7 pm	12-5pm	9am-4pm	5-7:30 pm
<u>city/twp</u>	Dearborn EIC	Troy Nature Center	Dearborn EIC	Dearborn EIC	Troy Nature Center	Livonia Schoolcraft College	Dearborn EIC
<u>Attendee Residency</u>							
Ann Arbor	6		1			1	
Belleville							
Beverly Hills			9			5	
Birmingham	3		3				
Bloomfield Hills						1	
Bloomfield Twp					1	1	
Brighton						1	
Brownstown Twp					1		
Canton	2	2	4	1		10	1
Commerce Twp							
Dearborn	1		1			1	2
Dearborn Heights	1						
Detroit	7		5	1		2	1
Dryden	1						
Farmington							
Farmington Hills	5		1	1		4	
Franklin							
Garden City						1	
Grosse Pointe Woods							
Highland	2		1				
Huntington Woods			2				
Inkster	1					2	1
Lake Orion							
Lathrup Village							
Lincoln Park							
Livonia	8		7	2	2	12	3
Luna Pier						1	
Melvindale							
Northville/Northville Twp.	4	4	2		1	3	1
Novi	3		3	1		4	1
Oak Park	3						
Pinckney			3			3	
Plymouth/Plymouth Twp.	1		7	1	1	13	
Redford	2		4		1	8	1
Riverview						2	

# Friends of the Rouge

## 2009 Annual Report for ARC

### BENTHIC MACROINVERTEBRATE MONITORING

#### 2009 Benthic Monitoring Sampling Days

	Winter Stonefly Search	Spring Team Leader Training	Spring Bug Hunt	Spring Bug Identification	Fall Team Leader Training	Fall Bug Hunt	Fall Bug Identification
<u>event</u>	24-Jan	5-Apr	25-Apr	7-May	27-Sep	17-Oct	29-Oct
<u>date</u>	9am-3pm	1-5 pm	9am-4pm	5-7 pm	12-5pm	9am-4pm	5-7:30 pm
<u>time</u>	Dearborn EIC	Troy Nature Center	Dearborn EIC	Dearborn EIC	Troy Nature Center	Livonia Schoolcraft College	Dearborn EIC
<u>city/twp</u>							
<u>Attendee</u>							
<u>Residency</u>							
Rochester Hills	1						
Romulus	3		3				
Royal Oak	1					1	
Saline							
South Lyon	1		1				
Southfield		1	4	1		2	
Sterling Heights							
Sylvan Lake							
Taylor	1		1			2	
Troy	1	1	2	1		1	
Wayne	3		1	1			
West Bloomfield	1						
Westland	7	1	2			4	
White Lake						1	
Wixom	1						
Wolverine Lake							
Woodhaven	1					2	
Ypsilanti	5						
Belle River, ON						1	
Greenville, OH	1						
Marion, OH	1						
unknown						2	
	<b>78</b>	<b>9</b>	<b>67</b>	<b>10</b>	<b>7</b>	<b>91</b>	<b>11</b>

**Friends of the Rouge**  
**2009 Annual Report for ARC**  
**LOCAL AND REGIONAL OUTREACH**

<b>Event/Meeting Name</b>	<b>Location</b>	<b>FOTR Staff</b>	<b>display?</b>	<b>presentation?</b>
Stewardship Network Lakeplain Cluster meeting	Dearborn	Ross		
Earth Force Annual Meeting	Charleston, S.C.	Hughes		
WHC Committee Meeting	Detroit	Ross		
Stewardship Network Conference	Lansing	Ross		
Stewardship Network Conference	Lansing	Ross		
SEMCOG meeting on E. coli & Phosphorous	Detroit	Petrella		
WHC Habitat Celebration Event	Warren	Ross		
Detroit Recreation Department meeting about park management	Detroit	Petrella		
Trinity Church Green Teams committee meeting	Livonia	Ross		
Rouge Park Nursery Meeting	Detroit	Petrella		
WSU student - water quality	Dearborn	Petrella/Ross		
Divine Child High School - provided information and support to students to generate ideas science fair projects	Dearborn Heights	Ross		
Quiet Water Symposium	Lansing	McKenzie	yes	yes
Wildflower Association of Michigan Conference	East Lansing	Ross		
Wildflower Association of Michigan Conference	East Lansing	Ross		
WHC planning committee	Detroit	Ross		
Taylor Garden Club	Taylor	Hughes	yes	yes
Wayne Road Dam meeting	Wayne	Petrella		
Rouge Park mowing meeting	Detroit	Petrella		
Speaking engagement for the American Association of Educated Women at Oakwood Commons	Dearborn	Ross		yes
Dave Dempsey talk on water	Dearborn	Petrella	yes	yes
Doc Fletcher canoe book signing	Westland	Petrella		
Stewardship Network Lakeplain Cluster committee meeting	FOTR host, Dearborn	Ross		
Conservation Stewards volunteer night	Pontiac	Petrella	yes	
Cranbrook Great Lakes Ecology week	Cranbrook Institute, Bloomfi	Ross	yes	yes
ERB Foundation/Kresge watershed partnerships	Troy	McKenzie/Petrella		
Madison Elementary School SPARK Day	Westland	Hughes		yes
Roeper school Green Expo	Bloomfield Hills	Petrella	yes	
State of the Strait conference	Windsor	Ross/Hughes		
Water Festival	UM-D	Petrella/Ross		yes
Greening of Detroit-SE Michigan Land Conservation discussion	Detroit	Petrella		
Went to the Detroit Science Center to meet about Display	Detroit	McKenzie/Hughes		
Detroit Public TV - MiEarth discussion with Rich Hornberg	Wixom	McKenzie/Petrella		
Interview for DWSD educational show	Dearborn	Ross		yes
Oakland Plus Duck Regata	Cranbrook Institute, Bloomfi	Knoppow	yes	
Detroit River Days	Detroit	Ross/Hughes/Petrella/Marvin	yes	yes
Cranbrook Great Lakes Teacher Training Presentation	Bloomfield Hills	Hughes	yes	yes
Soil and Water Conservation Association Conference	Dearborn	Hughes		
Public education station at DTE Music Theater	Clarkston	Ross/ Hughes/ Volunteers	yes	
Friends of the Rouge Boat Tour	Detroit	All Staff	Yes	Yes
UM-D environmental education course	Plymouth Twp	Petrella/Ross		yes
Stewardship Network Lakeplain Cluster committee meeting	FOTR host, Dearborn	Ross		
Meeting at the Rose Lake Plant Research Center	Lansing	Hughes		
Rouge Tree Planting campaign meeting, Hank Murawski	Dearborn	Petrella		
Rotary Club Meeting	Novi	Ross		yes
Schoolcraft Fall Festival	Livonia	Hughes	yes	
SE Michigan Land Conservation Roundtable	Detroit	Petrella		
Cranbrook Water Festival	Bloomfield Hills	Hughes		yes
Lower Rouge Logjam work	Wayne	Petrella		
Lower Rouge Canoe Trip	Wayne	Petrella/Hughes/Ross		
Lower Rouge Kayak Tour	Melvindale to River Rouge	Petrella		
Michigan Association of Environmental Outdoor Educators	Dearborn	Hughes	yes	yes
Fordson Island meeting	Detroit	Petrella		
Stewardship Network Lakeplain Cluster committee meeting	FOTR host, Dearborn	Ross		

**Friends of the Rouge**  
**2009 Annual Report for ARC**  
**LOCAL AND REGIONAL OUTREACH**

<b>Event/Meeting Name</b>	<b>Location</b>	<b>FOTR Staff</b>	<b>display?</b>	<b>presentation?</b>
WHC Committee Meeting	Novi	Ross		
REI Northville Volunteer recruitment event	Northville	Ross	yes	
UM-D Sustainability Day	Dearborn	Hanna/Fires		
Metro Detroit Science Teachers Association	Southfield	Hughes	yes	yes
Stewardship Network Lakeplain Cluster committee meeting	FOTR host, Dearborn	Ross		
SEMCOG Partners for Clean Water	Detroit	Petrella		
WHC Creating habitat for migrating birds	conf call	Ross		
Stewardship Network Lakeplain Cluster workshop planning sub	conf call	Ross		
MAEP - Paddling the Rouge Presentation	Ann Arbor	Petrella		yes
Jeff Vallender - Rouge paddling	Dearborn	Petrella/Ross		
Interview for show on Radio Disney	conf call	Ross		

**APPENDIX B**  
**Friends of the Rouge 2009 Program Review Survey**



## Friends of the Rouge Program Review ARC Feedback Survey

December 2009



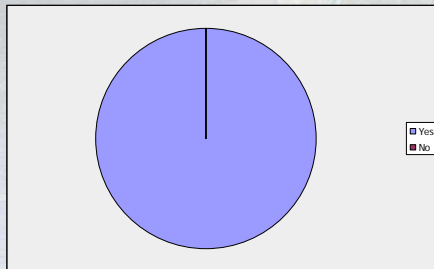
## Survey Details

Used Survey Monkey (web-based)

19 respondents  
(24% of ARC Communities)

32 questions

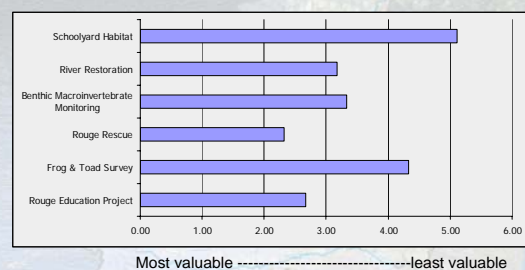
**Question 1: Are you satisfied with the programs provided by Friends of the Rouge?**



**Comment:** Enjoy a great working relationship with FOTR staff. Many of their programs support our MS4 permitting Public Education activities.

Answered question	19
Skipped question	0

**Question 2: Please rate Friends of the Rouge's six programs on how valuable they are to the watershed.**



Most valuable ----- least valuable

Answered question	19
Skipped question	0

**Question 2: Please rate Friends of the Rouge's six programs on how valuable they are to the watershed.**

**Comments:**

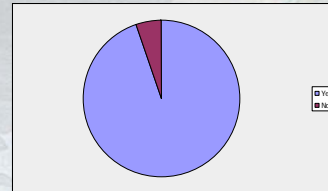
I think it all comes down to the number of individuals participating in a certain program.

I'm assuming you wanted them ranked most to least valuable; really they are all "most valuable" in my eyes.

FOTR brings a great educational component to the MS-4 Programs

Answered question	19
Skipped question	0

**Question 3: Do you use the public participation and/or data collected by FOTR in your Storm Water Reports?**

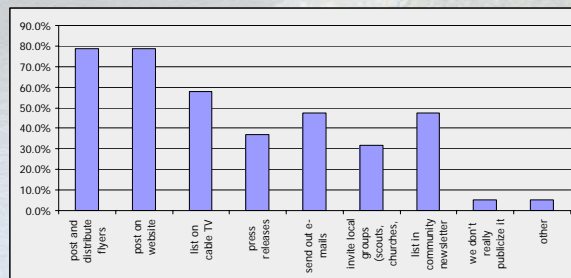


**If no, why not?**

1. Focus is on County-implemented programs only.
2. Sometimes. I do not have to use it for my report.

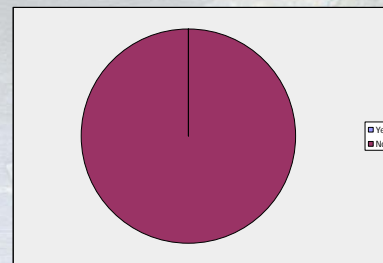
Answered question	19
Skipped question	0

**Question 4: How do you publicize Rouge Rescue?**



Answered question	19
Skipped question	0

**Question 5: If you do not publicize Rouge Rescue, would you be willing to publicize it?**

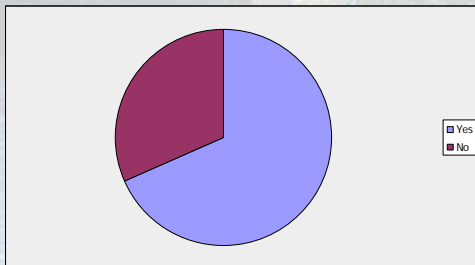


**Comment:**

No budget or method for advertising

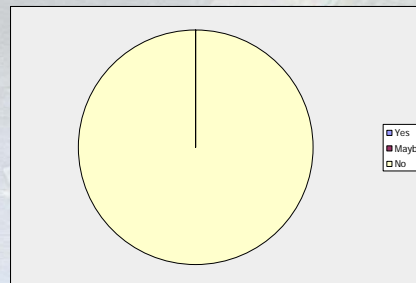
Answered question	1
Skipped question	18

**Question 6: Do you host a Rouge Rescue site?**



Answered question	19
Skipped question	0

**Question 7: If you do NOT host a site, are you willing to?**



Answered question	6
Skipped question	13

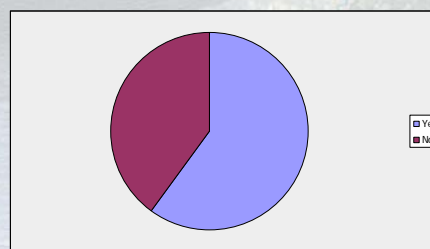
**Question 7: If you do NOT host a site, are you willing to?**

**If MAYBE, what would convince you to do this? If NO, why not?**

1. In the past, our event is outside of the Rouge, but it was still publicized by FOTR
2. We used to, not a glorious location no budget for overtime for employees to assist.

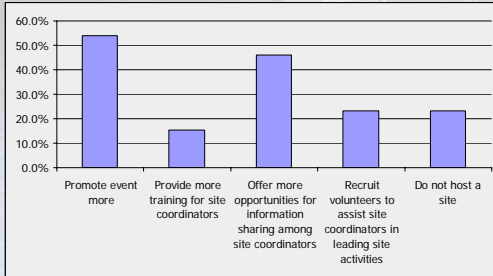
Answered question	6
Skipped question	13

**Question 8: If you DO host a site, could FOTR help you improve it?**



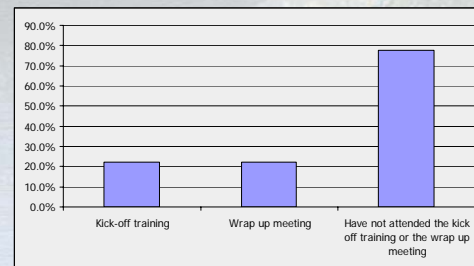
Answered question	10
Skipped question	9

**Question 9: What can FOTR do to help improve your Rouge Rescue site?**



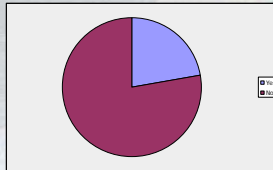
Answered question	13
Skipped question	6

**Question 10: Have you attended the kick-off training and/or the wrap up meeting for site coordinators?**



Answered question	18
Skipped question	1

**Question 11: Do you have a list of neighborhood association contacts in your community that you could provide to Friends of the Rouge?**

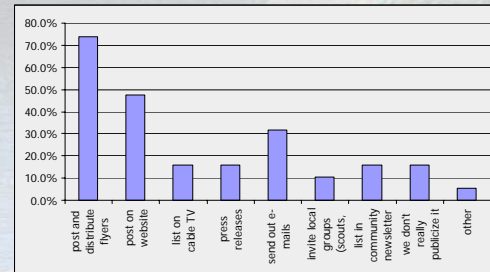


**If yes, who should we contact?**

1. Better to work through the community.
2. We cannot give out lists
3. The list is ever-evolving, but could supply the latest.
4. Forward information to Storm water contacts from communities. Do not have Community based lists.

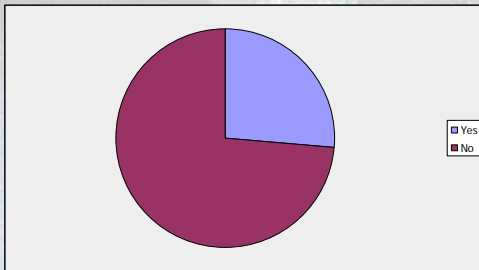
Answered question	18
Skipped question	1

**Question 12: How do you publicize River Restoration (formerly called Riparian Corridor Management)?**



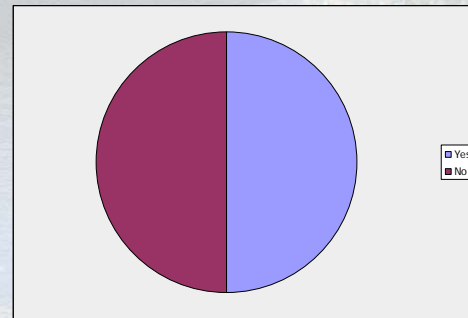
Answered question	19
Skipped question	0

**Question 13: If you do not publicize River Restoration, would you be willing to publicize it?**



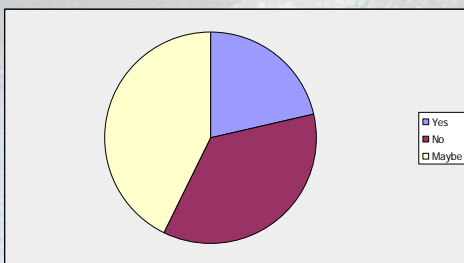
Answered question	4
Skipped question	15

**Question 14: Have you partnered with Friends of the Rouge to install a River Restoration project in your community?**



Answered question	19
Skipped question	0

**Question 15: If you have NOT partnered on a project, would you be interested in partnering on a project?**



Answered question	14
Skipped question	5

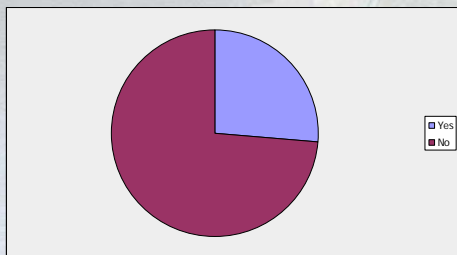
**Question 15: If you have NOT partnered on a project, would you be interested in partnering on a project?**

**If yes, how?**

1. Looking at doing it spring 2010
2. We did an ARC native planting project. The ground is terrible and full of unsuitable materials.
3. Help in coordinating the event.
4. Have partnered with Communities and FOTR to projects on several County Drains

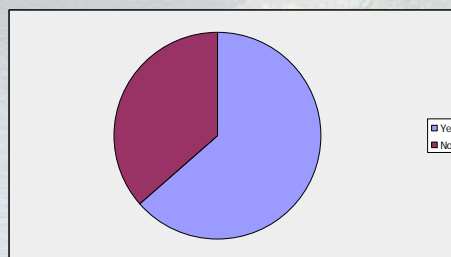
Answered question	14
Skipped question	5

**Question 16: Have you held a River Restoration workshop with FOTR in your community?**



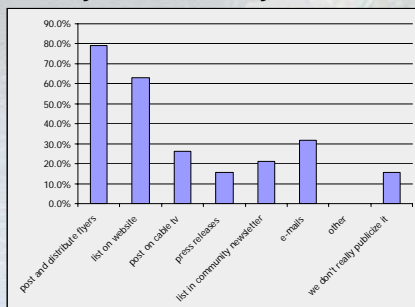
Answered question	19
Skipped question	0

**Question 17: If you have NOT held a public education event or workshop would you be willing to?**



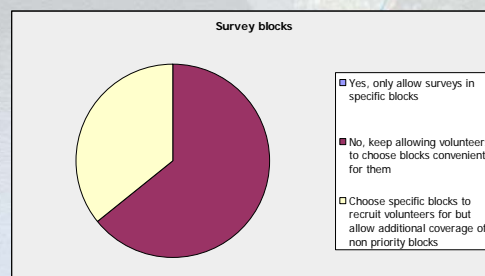
Answered question	11
Skipped question	8

**Question 18: How do you publicize the Frog & Toad Survey training workshops held every year in February and March?**



Answered question	19
Skipped question	0

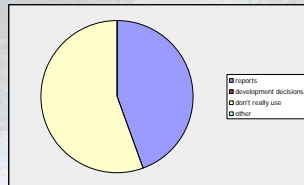
**Question 19: Would you prefer that FOTR only assign specific quarter sections in your community of your choosing (must have wetlands and be accessible)?**



Answered question	14
Skipped question	5



**Question 20: How have you used the data from the Frog & Toad Survey?**

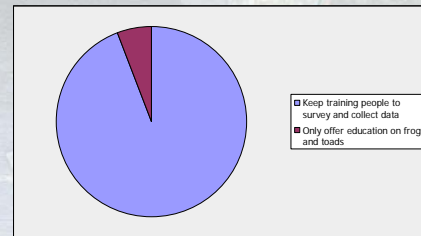


**List other ways you use the data:**

1. Useful for developing/assessing progress for watershed management program and watershed management plans
2. Storm water annual report and monitoring
3. Data reported in Annual Stormwater Report to MDEQ

Answered question	14
Skipped question	5

**Question 21: Would you prefer that FOTR stop training volunteers to collect data but just offer an educational program on frogs and toads?**

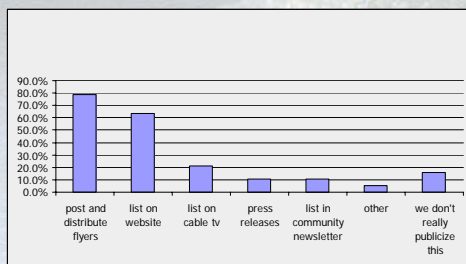


**Comment:**

Provided there is sufficient interest and the data is helpful for trend and condition analysis

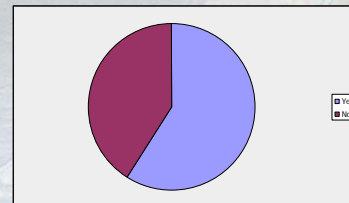
Answered question	17
Skipped question	2

**Question 22: How do you publicize the events (Spring and Fall Bug Hunt and Winter Stonefly Search)?**



Answered question	19
Skipped question	0

**Question 23: Do you use the data on macroinvertebrates provided by FOTR after each sampling event?**

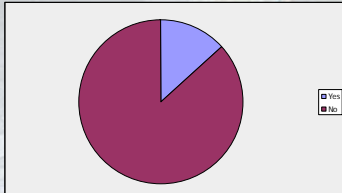


**If not, why not?**

1. Again, we only report on County-specific programs. But, this info is very useful for assessing progress as part of the watershed management plans and programs
2. Unsure if it is included in our annual report
3. Included In Annual Reports

Answered question	17
Skipped question	2

**Question 24: Do you have any specific sites that you would be interested in FOTR volunteers sampling for benthic macroinvertebrates?**

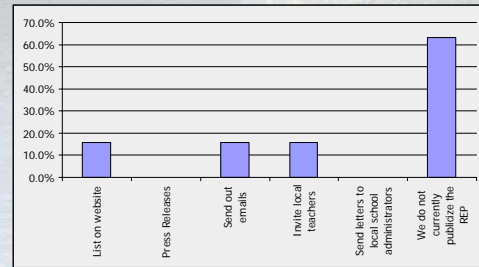


**Please list sites**

1. Coordinate with AOC list from DEQ
2. Downstream From Retention Basin Discharge points for Acacia Park, Bloomfield, Beverly Hills Village as part of TMDL monitoring requirements

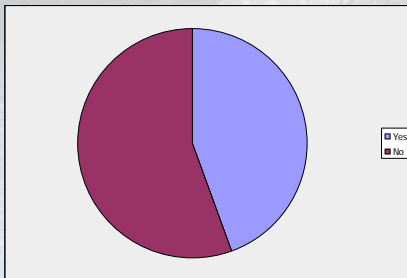
Answered question	15
Skipped question	4

**Question 25: How do you publicize the Rouge Education Project?**



Answered question	19
Skipped question	4

**Question 26: If you do not currently publicize the REP, would you be willing to?**



Answered question	9
Skipped question	10

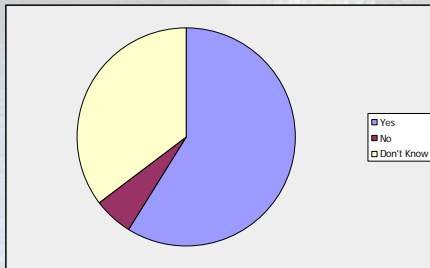
**Question 26: If you do not currently publicize the REP, would you be willing to?**

**If yes, please list person to contact (name and phone)**

1. Willing to pass along to others who are responsible for determining participation
2. Difficult for a local government to do.
3. We assisted in making the initial contact to a local teacher, and we provide facilitation for this annual event.

Answered question	9
Skipped question	10

**Question 27: Does your community currently have schools participating in the REP?**



Answered question	17
Skipped question	2

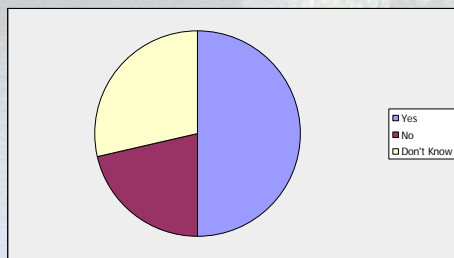
**Question 27: Does your community currently have schools participating in the REP?**

**If yes, please list the schools**

1. Taft-Galloway Elem.
2. West Hills Middle School
3. Offered to pay for a school to get involved - they rejected.
4. Amerman
5. Strong Jr. High School
6. This is an individual Community component not really applicable to County Stormwater reporting.

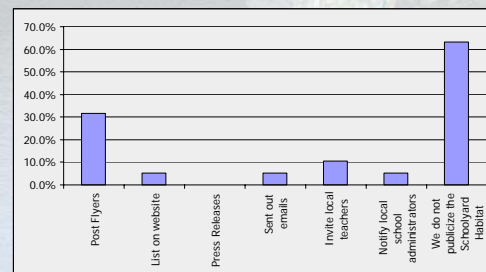
Answered question	9
Skipped question	10

**Question 28: If you do have schools participating, do you utilize the REP as a public education component in your communities Storm Water Permit reports?**



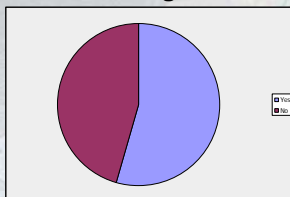
Answered question	14
Skipped question	5

**Question 29: How do you currently publicize the Schoolyard Habitat Program?**



Answered question	19
Skipped question	0

**Question 30: If you do not currently publicize the Schoolyard Habitat Program, would you be willing to?**

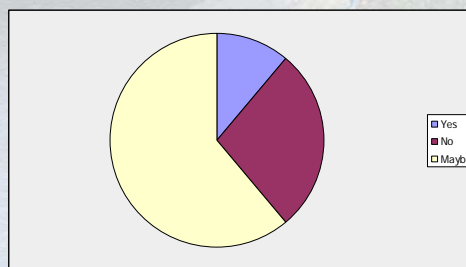


**If yes, please list person to contact (name and phone)**

- Willing to pass along to others who are responsible for determining participation
- Not sure how I would do so.
- We could help make the initial contact to the proper school administrators

Answered question	11
Skipped question	8

**Question 31: Would you take advantage of a fee based service provided by Friends of the Rouge to write and manage grants for projects in your community?**



Answered question	18
Skipped question	1

**Question 32: Please list any services that you would like to see provided by Friends of the Rouge in the future.**

1. Would depend on the project and scope.
2. I believe you will need to start doing your monitoring on a bi-annual cycle. Possibly even every 5 years. Cost constraints are going to have to be a consideration. Rouge Rescue - appears to be the largest public outreach. I would continue to concentrate on this until the communities budgets rebound.
3. Educational booths at community events such as "Melvindale Days" hosted annually on the banks of the Rouge River and attracting over 8000 visitors each year.
4. Possibly TMDL benthic Monitoring requirements
5. Illicit Discharge Education Program

Answered question	4
Skipped question	15