



Working together, restoring the river

James W. Ridgway, P.E.
Executive Director

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

Cooperating Partners:

Cranbrook Institute of Science
Friends of the Rouge
Rouge River Advisory Council
Southeastern Oakland County Water Authority
The Henry Ford
Wayne State University

DRAFT AGENDA

EXECUTIVE COMMITTEE MEETING

August, 10, 2015, 1:30 p.m.
Southfield Parks & Recreation, Room 220/221
26000 Evergreen Rd.

1. **Welcome** – Brandy Siedlaczek, Chair
2. **Roll Call of Members** (ECT) and record of others present

<i>Alliance of Rouge Communities</i> <i>Executive Committee</i>		
Officers		
Chair	Brandy Siedlaczek	Southfield
Vice-Chair (and Past Chair)	Jill Rickard	Northville Twp.
Treasurer	Bob Belair	Canton
Counties		
Oakland Co. – Rep.	Jim Nash	OCWRC
Oakland Co. – Alt.	Jim Wineka, Jacy Garrison	OCWRC
Washtenaw Co.- Rep.	Evan Pratt	WCWRC
Washtenaw Co.- Alt.	Heather Rice	WCWRC
Wayne Co. - Rep.	Kelly Cave	WCDPS
Wayne Co. - Alt.	Noel Mullett, Razik Alsaigh	WCDPS
SWAGs		
Main 1 & 2 - Rep.	Wayne Domine	Bloomfield Township
Main 1 & 2 - Alt.	Charles Markus	Bloomfield Township
Main 3 & 4 - Rep.	Vacant	
Main 3 & 4 - Alt.	Vacant	
Upper - Rep.	Karen Mondora	Farmington Hills
Upper - Alt.	Don Rohraff	Livonia
Middle 1 - Rep.	Tom Casari	Northville Twp.
Middle 1 - Alt.	Adam Wayne	Novi
Middle 3 - Rep.	Kevin Roney	Garden City
Middle 3 - Alt.	Vacant	
Lower 1 - Rep.	Tim Faas	Canton Township
Lower 1 – Alt.	Vacant	
Lower 2 - Rep.	Ramzi El-Gharib, Mike Buiten	Wayne
Lower 2 - Alt.	Roberto Scappaticci	Romulus

- 3. Additions or Changes to Draft Agenda**
- 4. Summary of May 6, 2015, Executive Committee Meeting** Action 3
- 5. Executive Director Report (ARC Staff)**
- a. Grant Status Report Information 12
 - b. Call for Projects Discussion
 - c. Status of ARC/FOTR Reorganization Investigation Discussion
 - d. MS4 Permit and SAW Grant Update Information
- 6. Standing Committee Reports (Belair)**
- a. Finance Committee (Belair, Treasurer/O’Meara)
 - i. 2014 Audit/A133 Information
 - ii. 2015 Membership Dues Information
 - iii. 2015 A/R and A/P Reports Information 13
 - iv. 2015 Budget Amendments Action 17
 - 1. Finance Committee FC4: NOAA3 Henry Ford Estate Dam Fish Passage and Habitat Restoration Design (upon grant award)
 - v. 2013 ECT Contract
 - 1. Appendix J - NOAA3 HFE Dam Fish Passage and Habitat Restoration Design (upon grant award) Action 20
 - 2. Letter request from ECT to extend 2013 contract Action 25
 - b. Organization Committee (Cave, Co-Chair) Information
 - c. PIE (Public Involvement and Education) Committee (Markus, Chair)
 - i. Status Report Information
 - d. Technical Committee (Mondora, Chair)
 - i. Status Report Information
- 7. Report from Counties**
- a. Status Report Information
- 8. Other Business**
- 9. Summary of Executive Committee Actions (O’Meara)**
- 10. Upcoming Meetings**
 Full ARC Meeting, 1:00 p.m., August 26, 2015, at the University of Michigan-Dearborn Environmental Interpretive Center
- 11. Adjourn**



James W. Ridgway, P.E.
Executive Director

DRAFT EXECUTIVE COMMITTEE MEETING SUMMARY

May 6, 2015, 1:30 p.m.
Southfield Parks & Recreation

1. Welcome – Brandy Siedlaczek, Chair

2. Roll Call of Members

ECT took roll call of members and others in attendance. A quorum was present.

ARC Executive Committee			Attended Meeting
Officers			
Chair	Brandy Siedlaczek	Southfield	Y
Vice-Chair	Jill Rickard	Northville Twp.	Y
Treasurer	Bob Belair	Canton	Y
Past Chair	Gary Mekjian	Farmington Hills	Y
Counties			
Oakland Co. – Rep.	Jim Nash	OCWRC	N
Oakland Co. – Alt.	Jim Wineka, Jacy Garrison	OCWRC	Y
Washtenaw Co.- Rep.	Evan Pratt	WCWRC	N
Washtenaw Co.- Alt.	Heather Rice	WCWRC	Y
Wayne Co. - Rep.	Kelly Cave	WCDPS	N
Wayne Co. - Alt.	Noel Mullett/Razik Alsaigh	WCDPS	Y
SWAGs			
Main 1 & 2 - Rep.	Wayne Domine	Bloomfield Township	Y
Main 1 & 2 - Alt.	Charles Markus	Bloomfield Township	Y
Main 3 & 4 - Rep.	VACANT		
Main 3 & 4 - Alt.	VACANT		
Upper - Rep.	Karen Mondora	Farmington Hills	Y
Upper - Alt.	Don Rohraff	Livonia	N
Middle 1 - Rep.	Tom Casari	Northville Township	N
Middle 1 - Alt.	Adam Wayne	Novi	Y
Middle 3 - Rep.	Kevin Roney	Garden City	N
Middle 3 - Alt.	VACANT		
Lower 1 - Rep.	Tim Faas	Canton Township	N
Lower 1 - Alt.	VACANT		
Lower 2 - Rep.	Ramzi El-Gharib/Mike Buiten	Wayne	Y
Lower 2 - Alt.	Roberto Scappaticci	Romulus	N

Others Present: Jim Ridgway, Annette DeMaria, John O’Meara, and Chris O’Meara, ECT Staff

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

Cooperating Partners:
Cranbrook Institute of Science
Friends of the Rouge
Rouge River Advisory Council
Southeastern Oakland County Water Authority
The Henry Ford
Wayne State University

3. Additions or Changes to Draft Agenda

There were no additions or changes to the agenda.

4. Summary of November 5, 2014 Executive Committee Meeting

The motion was made by Jacy Garrison, Oakland County, to accept the November 5, 2014 meeting summary. The motion was seconded by Karen Mondora, Farmington Hills. Motion passed.

5. Executive Director Report

a. Grant Projects Status

Annette DeMaria and John O'Meara, ARC Staff, gave the grant project status report.

ONGOING GRANTS

NOAA Habitat Restoration Grant – Oxbow Phase III Design

Grant is complete. The MDEQ permit was received and the final report developed and submitted.

Emerald Ash Borer U.S. Forestry/GLRI 2011

Complete, final report accepted.

2014 Area of Concern/Public Advisory Committee Grant

ARC staff and Wayne County staff are in the final stages of completing a list of projects needed to remove the Habitat Beneficial Use Impairments. Currently, there are 20 projects totaling \$20 Million. A few more projects will be added. Project descriptions need to be submitted by May 29th for potential inclusion on the list. Once finalized, the list and descriptions will be provided to MDEQ and EPA to aid with prioritizing funding in the Great Lakes.

HOW Federal Grant Writing (Freshwater Futures)

Grant is complete. ARC needs to notify HOW on the outcome of the NOAA Oxbow grant submitted when notified.

FOTR-ARC Merger Investigation

FOTR was awarded a grant from the Erb Family Foundation in the amount of \$110,000 to explore merging with the ARC. This award was \$35,000 less than the request. The ARC is a partner on this project and is receiving \$23,560 from the grant. The goal of this exploratory action is to determine and implement the necessary steps to either a) merge FOTR and ARC into a new nonprofit organization or b) merge services in a manner that will serve both the local municipalities and watershed residents on the matters of storm water permit compliance, watershed restoration, environmental education, and public outreach. A Reorganization Investigation Committee (RIC) was formed by members of the ARC and FOTR and three meetings have taken place.

Collaborative Invasive Species Control in Rouge and Detroit River AOC

Wayne County was awarded an EPA for a grant in the amount of \$634,736 to establish and begin implementing an effective management program to address invasive species in the Rouge River and Detroit River Areas of Concern. Containment, eradication, control and mitigation will occur at priority locations. Multi-species assessment and mapping of invasive species will be performed, prioritization tools and criteria used and action taken to control invasive species. Wayne County is currently developing the QAPP and IAAs with the ARC and other partners.

OUTSTANDING GRANT APPLICATIONS

SAW Grant: Monitoring and Stormwater Management Planning

The ARC is on track to receive SAW funding in October 2015. The grant totaled \$1,741,667 plus \$358,333 in match. About 27% of the match has already been earned or is in the 2014 budget. The grant covers collaborative plan development and ecosystem monitoring to support to reapplication of the MS4 permits. More specifically, the grant covers:

- Development of a collaborative Public participation plan,
- Development of a collaborative Public education plan,
- Development and implementation of a public attitudes survey,
- Development of a collaborative illicit discharge elimination plan,
- Community specific ordinance review for compliance with the IDEP Ordinance requirements,
- Development of a collaborative total maximum daily load plan,
- Ecosystem monitoring including water quality (dissolved oxygen, E. coli, phosphorus and sediment), macroinvertebrates, and flow,
- Site-specific standard operating procedures (SOPs) development for municipal facilities that impact stormwater quality, and
- Development of a stormwater funding framework in collaboration with the Alliance of Downriver Watersheds.

NOAA GLRI Habitat Restoration: Henry Ford Estate Dam Fish Passage (Design)

The ARC submitted a design grant to NOAA in February 2015 and anticipates hearing on potential funding in June 2015.

NOAA GLRI Habitat Restoration: Oxbow Implementation

The ARC submitted a construction grant to NOAA in February 2015 and anticipates hearing on potential funding in June 2015. This project would implement the designs developed under the NOAA design grant.

US Forestry Service 2014 Tree Grant

The ARC received award of a \$100,000 grant from the US Forestry Service to purchase and plant an estimated 680 trees. No match is required. ARC Staff are in the process of starting up the grant with IAA for interested communities. The following eleven (11) members expressed interest in participating in this grant (no specific trees numbers designated): Wayne County, Bingham Farms, Bloomfield Twp., Canton, Farmington Hills, Inkster, Livonia, Oak Park, Plymouth, Plymouth Twp., and Southfield. ARC staff will email members to verify that there are no other communities interested in participating in the grant.

OTHER GRANTS WITH ARC INVOLVEMENT, BUT LEAD BY OTHERS

Collaborative GI Retrofits in the Watershed

Wayne County was not awarded this grant to construct green infrastructure best management practices at over 60 project sites within the Rouge River watershed.

b. Status of ARC/FOTR Reorganization Investigation

Annette DeMaria gave a brief presentation of the progress to date of the reorganization investigation. Because of the sensitive subject and because it is still in the investigation stage, the Executive Committee requested that the discussion be kept confidential and not recorded in the meeting summary.

c. MS4 Permit and SAW Grant Update

These items were discussed under the grant update and the committee reports.

d. USFS 2014 Grant Administrative Process

John O'Meara reviewed the process developed for the second forest service grant that the ARC received. 15 members expressed interest in receiving trees through the grant. If other communities would like trees, they need to inform ARC staff by June 5, 2015. Communities will be polled as to how many trees they would like. ARC staff will attempt to fill all requests, otherwise, the 680 trees will be divided amongst the communities showing interest.

The process for this Tree Grant will be as follows:

- The ARC member will enter into IAA with ARC for a specified number of trees.
- Trees selected should be native to the Michigan region. A list of the communities' selected tree types shall be submitted to ARC staff for approval prior to purchase.
- Trees are to be 1.5-2.5" caliper for native deciduous trees and 6'-8' B&B tall for Evergreens
- Trees must have at least a one year warranty.
- A community will be reimbursed for each tree at \$125/tree. Example: total community trees 10 x \$125= \$1,250 reimbursed.
- Trees can be purchased and installed on ARC Member's own schedule.
- The ARC member will select, order, plant, and care the trees. Community will also be required to locate trees, provide a GIS map of tree locations and provide a short one page summary of their tree "project" to the ARC. The summary shall include the total number and type of trees actually planted. Community can either use their own contactor or contract for the services.
- All member work needs to be completed no later than June 30, 2016.
- The ARC member will be reimbursed by the ARC 50% of their contract amount upon delivery of trees and the remaining amount upon the ARC's confirmation of the tree installations based on the provided map.
- ARC staff will spot check maps, provide grant coordination, and prepare the final report to the US Forestry Service.

The process is simple, straight forward and will eliminate the confusion that developed under the last tree grant. Members will sign up for a certain amount of trees, know how much money they will get, handle the work themselves (hopefully with their existing nursery contractors), turn in a map/one page summary and be done.

6. Standing Committee Reports

a. Finance Committee (B. Belair, Treasurer)

2014 Audit

Chris O'Meara reported that the auditors have begun reviewing the ARC's finances and files for the 2014 audit.

2015 Dues

Chris O'Meara, ARC Staff, reported that the first round of invoices went out in February and the second round will be going out within the next few weeks.

A/R and A/P Reports

Bob Belair, Treasurer, reviewed the accounts receivable and accounts payables reports.

2015 Budget Amendment 1, 2 and 3

FC1 - FOTR/ARC Merger

Annette DeMaria reviewed the budget amendment FC1 which adds \$23,560 in grant funds which Friends of the Rouge received from the ERB Family Foundation and Community Foundation for Southeast Michigan to investigate the reorganization of FOTR and the ARC. ARC officers and staff will participate in meetings and assist FOTR in the recommendation and approval for or against merging services based on mission alignment and the results of facilitated process. A merger committee will work with a third-party consultant to explore the options via facilitated meetings over the course of approximately six months. If merger is approved, this outcome will also include identification of programs, organizational structure (i.e. board and staff), staffing needs of new organization, and funding sources.

FC2 – SAW Grant (Pending Grant Award)

Annette DeMaria reviewed amendment FC2. The ARC is expected to receive a SAW grant in late 2015 to support development of member stormwater permit applications, as well as conduct ecosystem monitoring and develop a framework to finance stormwater projects at the local level. Twenty-nine ARC members need to reapply for stormwater permit coverage by April 1, 2016. An additional nine members have already applied for permit coverage because their primary watershed is outside of the Rouge River. Given the time it will take to complete the permit applications, the ED proposes to begin development of ARC members' stormwater permit applications in May 2015. Given that the ARC is not yet in contract with MDEQ, this work will be done by the responsible parties (ECT, Wayne County and FOTR) at the risk of non-payment if the grant funding does not come to fruition.

The ecosystem monitoring and financing framework tasks will also assist members with permit compliance. The monitoring data will be used to 1) direct IDEP efforts, and 2) demonstrate effectiveness of permit activities. The financing task will set up communities so they can pursue a stormwater utility to funding permit-required activities.

Annette informed the committee that Tasks 1-4 will be started now and Tasks 5-6 will be done next year.

FC3 – Wayne County GL Invasive Species Collaboration

Wayne County received an EPA GLRI Grant for invasive species control. The Alliance of Rouge Communities (ARC) was a partner entity in the grant application. The ARC will participate as a member of a Project Coordination Committee (PCC) with a total award of \$20,165. The ARC will review and provide comment and/or content as required. The ARC will provide the training materials, based on guidance from the PCC, for training of SCA student workers, volunteers, and local community staff this effort. ARC staff will hold two training sessions in the field to orient volunteers and SCA personnel on how to identify the invasive species. The ARC will be responsible for reporting project activities on a quarterly basis to Wayne County for inclusion in Wayne County's Great Lake Accountability System (GLAS) reporting. Through the ARC's public education and technical committees information regarding project status as well as ISC information disseminated to ARC members and made available to the general public. The ARC will assist Wayne County with the content for the webpages and presenting the project outcomes to the Public Education Committee and the Full ARC membership.

The motion was made by Jacy Garrison, Oakland County, to forward the 2015 budget amendments FC1, FC2 and FC3 to the Full ARC for approval. The motion was seconded by Wayne Domine, Bloomfield Township and passed unanimously.

2013 ECT Contract Amendment

Bob Belair, Treasurer, reviewed the ECT Contract Amendments that would add Appendix H - FOTR/ARC Merger (total compensation is \$23,560), Appendix G - SAW Grant (total compensation is \$1,043,739) upon grant award and Appendix I - Wayne County Great Lakes Invasive Species Collaboration (total compensation is \$20,165) projects to the contract.

The motion was made by Karen Mondora, Farmington Hills, to forward the 2013 ECT Contract Amendments adding Appendix G, Appendix H and Appendix I to the Full ARC for approval. The motion was seconded by Jill Rickard, Northville Twp. and passed unanimously.

ECT Contract Rates

John O'Meara reviewed the proposed rate revisions to ECT's 2013 Contract for future work (i.e. work not currently under existing Contract). ECT proposes to replace the current cost plus fixed fee contract with a standard rate schedule (unless a specific future fiduciary requires a cost plus fixed fee). The basis for the request are: 1) the federally funded Rouge Project no longer provides funding for the ARC and therefore the (costly) requirements are no longer required, and; 2) ECT's overhead rate used in the existing contract is over 10 years old, and; 3) a rate schedule is simpler and is used in the vast majority of our industrial and municipal clients.

The motion was made by Karen Mondora, Farmington Hills, to forward the revised ECT 2013 contract rates to the Full ARC for approval. The motion was seconded by Jill Rickard, Northville Twp. and passed unanimously.

2013 ECT Contract Extension

John O'Meara, ARC Staff, informed the committee that the ECT 2013 contract will expire on December 31, 2015. He asked the committee to start discussing either extending the ECT contract, which can be done for up to three years under the current contract, or put an RFP out for bid for Executive Director Staff Services beginning in 2016.

2016 Budget Preparation Schedule

Bob Belair, Treasurer, reviewed the 2016 Budget Preparation Schedule and informed the committee that the Finance Committee expects to receive the 2016 Budget Recommendations in early September.

The motion was made by Karen Mondora, Farmington Hills, to forward the 2016 Budget Preparation Schedule to the Full ARC for approval. The motion was seconded by Gary Mekjian, Farmington Hills, and passed unanimously.

b. Organization Committee

Noel Mullett, Wayne County, reported that the Organization Committee has not met in 2015 and has nothing to report.

c. PIE (Public Involvement and Education) Committee

Charles Marcus, Bloomfield Twp., reported that the PIE Committee has not met in 2015 but will be developing some new public education pieces later this year for ARC members.

d. Technical Committee

Karen Mondora, Farmington Hills, reported that the Technical Committee has not met in 2015. She informed the committee that they will continue discussions with MDEQ regarding MS4 issues including post construction stormwater and extended detention, offsite mitigation and payment in lieu.

7. Report from WCDPS

Noel Mullett, Wayne County, stated that the County would be working with the ARC along with some communities on IAAs for the Wayne County Great Lakes Invasive Species Collaboration grant.

8. Other Business

There was no other business.

9. Summary of Executive Committee Actions

- The motion was approved to accept the November 5, 2014 meeting summary.
- The motion was approved to forward the 2015 Budget Amendments FC1, FC2 and FC3 to the Full ARC.
- The motion was approved to forward the 2013 ECT contract amendment adding Appendix G, H and I to the Full ARC.
- The motion was approved to forward the revised ECT contract rates to the Full ARC.
- The motion was approved to forward the 2016 ARC Budget Preparation Schedule to the Full ARC.

10. Upcoming Meeting(s)

- Full ARC Meeting, May 13, 1:30 p.m. – 3:30 p.m., Rochester Hills Museum at Van Hoosen Farms, 1005 Van Hoosen Rd.

11. Adjourn

The motion to adjourn the meeting was made by Gary Mekjian, Farmington Hills, and seconded by Karen Mondora, Farmington Hills. The motion passed.

ARC Executive Committee Attendance List

Meeting Date: 5/6/15

Name		Community	Attended	Initials
Alsaigh	Razik	WCDPS	<input type="checkbox"/>	___
Belair	Bob	Canton Township	<input checked="" type="checkbox"/>	<u>AB</u>
✓ Buiten	Mike	Wayne	<input checked="" type="checkbox"/>	<u>MB</u>
Casari	Tom	Northville Township	<input type="checkbox"/>	___
Cave	Kelly	WCDPS	<input type="checkbox"/>	___
DeMaria	Annette	ECT	<input checked="" type="checkbox"/>	<u>AD</u>
✓ Domine	Wayne	Bloomfield Township	<input checked="" type="checkbox"/>	<u>WD</u>
El-Gharib	Ramzi	Wayne	<input type="checkbox"/>	___
Fellrath	Patrick	Plymouth Township	<input type="checkbox"/>	___
✓ Garrison	Jacy	Oakland County	<input checked="" type="checkbox"/>	<u>JB</u>
✓ Markus	Charles	Bloomfield Twp.	<input checked="" type="checkbox"/>	<u>CM</u>
Mekjian	Gary	Farmington Hills	<input checked="" type="checkbox"/>	<u>GM</u>
✓ Mondora	Karen	Farmington Hills	<input checked="" type="checkbox"/>	<u>KM</u>
✓ Mullett	Noel	WCDPS	<input checked="" type="checkbox"/>	<u>NM</u>
Nash	Jim	Oakland County	<input type="checkbox"/>	___
O'Meara	John	ECT	<input checked="" type="checkbox"/>	___
Pratt	Evan	Washtenaw County Water Resour	<input type="checkbox"/>	___

Meeting Date: 5/6/15

<i>Name</i>		<i>Community</i>	<i>Attended</i>	<i>Initials</i>
Price	Meghan	ECT	<input type="checkbox"/>	_____
Rice	Heather	Washtenaw County Water Resour	<input checked="" type="checkbox"/>	<i>[Handwritten Signature]</i>
✓ Rickard	Jill	Northville Township	<input checked="" type="checkbox"/>	<i>[Handwritten Signature]</i>
Ridgway	Jim	ECT	<input checked="" type="checkbox"/>	<i>[Handwritten Signature]</i>
Rohraff	Don	Livonia	<input type="checkbox"/>	_____
Roney	Kevin	Garden City	<input type="checkbox"/>	_____
Scappaticci	Roberto	Romulus	<input type="checkbox"/>	_____
✓ Siedlaczek	Brandy	Southfield	<input checked="" type="checkbox"/>	<i>[Handwritten Signature]</i>
Smrtka	Barb	Farmington Hills	<input type="checkbox"/>	_____
✓ Wayne	Adam	Novi	<input checked="" type="checkbox"/>	<i>[Handwritten Signature]</i>
Wineka	Jim	Oakland County	<input type="checkbox"/>	_____
_____	_____	_____	<input type="checkbox"/>	_____
_____	_____	_____	<input type="checkbox"/>	_____
_____	_____	_____	<input type="checkbox"/>	_____
_____	_____	_____	<input type="checkbox"/>	_____
_____	_____	_____	<input type="checkbox"/>	_____

ONGOING ARC GRANT PROJECTS STATUS

2014 Area of Concern/Public Advisory Committee Grant

This grant is complete. The primary outputs are the Habitat Project List (attached) and the Frog and Toad Assessment Report.

FOTR-ARC Merger Investigation

FOTR and the ARC were awarded a grant from the Erb Family Foundation in the amount of \$110,000 to explore merging the organizations. The Reorganization Investigation Committee (RIC) has met several times and are developing a recommendation for the ARC and FOTR boards to consider. The recommendation will outline the financial and non-financial benefits to merging, a draft scope of work, budget, job descriptions, organizational structure, and enabling state legislation under which we would form.

Collaborative Invasive Species Control in Rouge and Detroit River AOC

Wayne County was awarded an EPA for a grant in the amount of \$634,736 to establish and begin implementing an effective management program to address invasive species in the Rouge River and Detroit River Areas of Concern.

The ARC signed an IAA with Wayne County and returned it to them for finalizing.

US Forestry Service 2014 Tree Grant

The ARC received award of a \$100,000 grant from the US Forestry Service to purchase and plant an estimated 680 trees. No match is required. ARC Staff have worked with the communities to establish the number of trees with each interested member. IAAs have been sent to each ARC member that was interested for finalization. Communities will complete their tree work by June 2016 and the ARC will finalize the grant reporting next summer.

OUTSTANDING GRANT APPLICATIONS

SAW Grant: Monitoring and Stormwater Management Planning

The ARC anticipates receiving SAW funding in October 2015. The grant totaled \$1,741,667 plus \$358,333 in match. About 27% of the match has already been earned or is in the 2014 budget. The grant covers development of member MS4 permit applications, monitoring, and stormwater funding planning efforts. ECT has met with two communities and began development of their applications.

NOAA GLRI Habitat Restoration: Henry Ford Estate Dam Fish Passage (Design)

The ARC submitted a design grant to NOAA in February 2015. NOAA has informed the ARC that they will receive funding for this project. ARC is working with NOAA on the agreement at this time. Work is anticipated to begin this September.

NOAA GLRI Habitat Restoration: Oxbow Implementation

The ARC submitted a construction grant to NOAA in February 2015 and anticipates hearing on potential funding in June 2015. This project will not be funded by NOAA this funding cycle. NOAA funds were cut in half by EPA this year so less money to dull out. ARC will reapply during the next cycle in February.

2015 Rouge River Public Advisory Council (RRAC) Support

The ARC submitted an application to the Great Lakes Commission to continue facilitation of the RRAC. The requested budget was \$16,545 for 12 months with no match. The decision has been delayed due to funding delays.

11:48 AM

07/30/15

Alliance of Rouge Communities
A/R Aging Summary
 As of July 30, 2015

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>> 90</u>	<u>TOTAL</u>
Bingham Farms	644.00	0.00	0.00	0.00	0.00	644.00
Franklin	1,498.00	0.00	0.00	0.00	0.00	1,498.00
Garden City	6,405.00	0.00	0.00	0.00	0.00	6,405.00
Great Lakes Commission - PAC grant	0.00	0.00	0.00	0.00	7,973.40	7,973.40
Lathrup Village	1,197.00	0.00	0.00	0.00	0.00	1,197.00
Livonia	0.00	0.00	0.00	0.00	28,502.00	28,502.00
Pontiac	0.00	0.00	0.00	0.00	0.00	0.00
Redford Township	0.00	0.00	0.00	0.00	11,610.00	11,610.00
Romulus	2,124.00	0.00	0.00	0.00	0.00	2,124.00
Southfield	17,943.00	0.00	0.00	0.00	0.00	17,943.00
University of Michigan-Dearborn	750.00	0.00	0.00	0.00	0.00	750.00
Van Buren Township	0.00	0.00	0.00	0.00	6,652.00	6,652.00
Walled Lake	754.00	0.00	0.00	0.00	0.00	754.00
Wayne County Airport Authority	0.00	0.00	0.00	0.00	2,266.00	2,266.00
Wixom	535.00	0.00	0.00	0.00	0.00	535.00
TOTAL	<u>31,850.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>57,003.40</u>	<u>88,853.40</u>

11:49 AM

07/30/15

Alliance of Rouge Communities
A/P Aging Summary
 As of July 30, 2015

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>> 90</u>	<u>TOTAL</u>
Environmental Consulting & Technology, In	10,590.71	0.00	0.00	0.00	0.00	10,590.71
TOTAL	<u>10,590.71</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>10,590.71</u>

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07/30/15
Accrual Basis

Alliance of Rouge Communities
Profit & Loss Budget vs. Actual
December 2014 through December 2015

	Dec '14 - Dec 15	Budget
Ordinary Income/Expense		
Income		
47200 · Program Income		
47285 · 2015 ARC Membership Dues	249,166.00	251,435.00
Total 47200 · Program Income	249,166.00	251,435.00
48000 · Grants		
48301 · 2014 RRNWWDWP Grant	0.00	0.00
48612 · NOAA2 Oxbow Phase III	16,533.73	16,533.73
48903 · GLC PAC Support 6 RRAC Fac2014	0.00	19,934.00
48904 · FS2 US Forestry EAB Rest 2014	0.00	95,000.00
48905 · WCGL1 Inv Spec Col 2014	0.00	15,165.00
48906 · FOTR1 - ARC/FOTR Reorg Inv 2015	3,205.08	23,560.00
48907 · SAW1 Stormwater Permit app 2015	0.00	1,608,739.00
Total 48000 · Grants	19,738.81	1,778,931.73
Total Income	268,904.81	2,030,366.73
Expense		
60400 · ARC Awards and Grants		
60410 · OC1-Executive Director Services		
60402 · OC1-Meeting Support	5,761.94	22,523.00
60405 · OC1-Expenses	336.48	2,500.00
60418 · OC1-Advocacy & Liaison	6,879.04	10,783.00
60419 · OC1-Financial Services	11,344.23	15,431.00
60440 · OC1- Administration/Communica	9,386.51	15,087.00
60442 · OC1-Grant Preparation	7,047.85	14,940.00
Total 60410 · OC1-Executive Director Services	40,756.05	81,264.00
60420 · Public Involv. & Education Com.		
60001 · PIE2-Public Ed Materials	136.35	14,500.00
60002 · PIE3-Website Maintenance	0.00	5,500.00
6042 · PIE5-Watershed Steward & Report	980.99	1,500.00
60421 · PIE1-Green Infrast. Campaign	2,372.06	23,500.00
6044 · PIE4 New PE Campaigns/Materials	192.12	15,000.00
Total 60420 · Public Involv. & Education Com.	3,681.52	60,000.00
60430 · Technical Committee		
60004 · TC3-IDEP	1,732.12	60,500.00
Total 60430 · Technical Committee	1,732.12	60,500.00
604603 · SPAC6 RRAC Facilitation 2014	24,089.04	19,934.00
60601 · FS2-US Forestry EAB Grant 2014	3,138.91	95,000.00
60655 · NOAA2-Oxbow Phase III Design		
606552 · NOAA2C-NOAA Reporting & Public	13,509.27	13,509.27
606553 · NOAA2B-Design and Permitting	3,024.46	3,024.46
Total 60655 · NOAA2-Oxbow Phase III Design	16,533.73	16,533.73
60661 · FOTR1 - Reorg Investigation	7,568.69	23,560.00
60662 · SAW1 - SW permits	0.00	1,608,739.00
60663 · WCGL1 - WC Inv Species Collab.	0.00	15,165.00
Total 60400 · ARC Awards and Grants	97,500.06	1,980,695.73
60900 · Business Expenses		
60920 · Business Registration Fees	0.00	20.00
60900 · Business Expenses - Other	420.00	420.00
Total 60900 · Business Expenses	420.00	440.00

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07/30/15

Accrual Basis

Alliance of Rouge Communities
Profit & Loss Budget vs. Actual
 December 2014 through December 2015

	Dec '14 - Dec 15	Budget
62100 - Contract Services		
62110 - FC1-Accounting Fees	7,744.00	15,000.00
62140 - FC1-Legal Fees	0.00	2,000.00
65120 - FC2-Insurance - D&O	902.00	902.00
Total 62100 - Contract Services	<u>8,646.00</u>	<u>17,902.00</u>
Total Expense	<u>106,566.06</u>	<u>1,999,037.73</u>
Net Ordinary Income	<u>162,338.75</u>	<u>31,329.00</u>
Net Income	<u><u>162,338.75</u></u>	<u><u>31,329.00</u></u>

**Alliance of Rouge Communities
DRAFT 2015 Budget (7/28/15 Amendment 2)**

Anticipated Revenues Available for 2015

2015 Anticipated Dues from Communities	\$251,435
SPAC Grant	\$19,934
GLRI Grant	\$170,000
FOTR/ERB Foundation	\$23,560
Wayne County Inv. Species Collaboration	\$15,165
SAW Grant	\$350,000
Corporate Support	\$0
Rollover Dues from 2014 Budget (estimated)	\$5,000
	\$835,094

Approved by Full ARC: 11/10/14
Approved Amendment 1: 5/6/15

DRAFT Amendment 2: 7/28/15

Proposed ARC Budget Items	Committee Budget	Funding Source(3)							"Provider" Using Budget (2)	
		ARC Dues	SPAC Grant	GLRI/NOAA Grant	FOTR/ERB Foundation	SAW Grant	Wayne County	Other Source/Match		
Organization Committee										
(1)OC1 Executive Director Services	\$ 66,324	\$ 66,324								EDS
Pursuing Grant Opportunities	\$ 14,940	\$ 14,940								EDS
Organization Committee Total	\$ 81,264	\$ 81,264								
Finance Committee										
FC1 Accounting/Legal Services	\$ 17,000	\$ 17,000								outside purchase
FC2 ARC Insurance	\$ 2,500	\$ 2,500								outside purchase
Finance Committee Total	\$ 19,500	\$ 19,500								
Public Education and Involvement Committee										
PIE1 Green Infrastructure Campaign	\$ 23,500	\$ 23,500								EDS/WC/FOTR
PIE2 Public Ed Materials	\$ 14,500	\$ 14,500								EDS/WC/ARC
PIE3 Website Maintenance	\$ 5,500	\$ 5,500								EDS/ARC
PIE4 New Public Education Campaigns/Materials	\$ 15,000	\$ 15,000								EDS/FOTR
PIE5 Watershed Stewardship and Reporting	\$ 1,500	\$ 1,500								FOTR
PIE Committee Total	\$ 60,000	\$ 60,000							\$ -	
Technical Committee										
TC3 IDEP	\$ 60,500	\$ 60,500							\$ 15,000	EDS/WC/OC
Technical Committee Total	\$ 60,500	\$ 60,500							\$ 15,000	
Total Amount Requested by All Committees	\$ 221,264	\$ 221,264							\$ 15,000	
Other Grants (3)										
(5) FS2 FS2 2014 USFS EAB Grant 10/1/14-9/30/16	\$95,000			\$95,000						
(4) SPAC6 SPAC6 RRAC Facilitation 6/1/14-6/30/15	\$19,934		\$19,934							WC/EDS/FOTR
(6) FOTR1 ERB Found. Reorg. Inv. 1/1/15-12/31/15	\$23,560				\$23,560					EDS
(7) SAW1 SAW grant 5/1/15-12/31/18	\$350,000					\$350,000				EDS/WC/FOTR/OC
(8) WCGL1 Wayne County Inv. Species Col. 6/1/15-12/31/16	\$15,165						\$15,165			EDS
(9) NOAA3 NOAA HFE Dam Fish Passage Design 9/1/15-12/31/16	\$75,000			\$75,000						EDS/WC
Total Other Grants:	\$578,659									
TOTAL BUDGET	\$799,923	\$221,264	\$19,934	\$170,000	\$23,560	\$350,000	\$15,165	\$15,000		
TOTAL INCOME	\$835,094									
Available Unallocated ARC Budget (total income minus total budget)	\$ 35,171									

Notes

- (1) Includes fiduciary services, advocacy and administration
- (2) EDS - Executive Director Services, WC - Wayne County, OC - Oakland County Officers and committee members provide assistance to implement most of the ARC tasks. Cost for this assistance is not included in ARC budget.
- (3) Dollar amounts may be adjusted throughout the year as they are estimates of what will be spent during the budget year.
- (4) SPAC6 adding grant to facilitate RRAC. Total award is \$39,867, with \$19,934 budgeted in 2014 and \$19,933.50 budgeted in 2015.
- (5) FS2 adding the USFS EAB grant. Total award is \$100,000, with \$5,000 budgeted in 2014, \$65,000 budgeted in 2015 and \$30,000 anticipated to be budgeted in 2016.

5/6/15 Budget Amendments

- (6) FC1 adding the FOTR1 - ERB Foundation grant for the ARC/FOTR Reorganization Investigation. Total award is \$23,560 and budgeted in 2015.
- (7) FC2 adding the SAW1 - SAW grant services stormwater management plans, monitoring & Funding (upon grant award) total award is \$1,608,739 with \$350,000 budgeted in 2015 and the remainder will be budgeted in 2016-18 along with additional match estimated at \$225,000.
- (8) FC3 adding WCGL1 - Wayne County Collaborative Invasive Species Control in Rouge and Detroit River AOC. Total award is \$20,165 with \$15,165 budgeted in 2015 and the remaining \$5,000 will be budgeted in 2016.

7/28/15 DRAFT Budget Amendment

- (9) UPON GRANT AWARD - FC4 adding the NOAA3 - HFE Dam Fish Passage Design grant. Total award is \$350,000 with \$75,000 budgeted in 2015 and the remainder of \$275,000 budgeted in 2016. No match is required.



ALLIANCE OF ROUGE COMMUNITIES FINANCE COMMITTEE

2015 BUDGET AMENDMENT: Finance Committee Amendment FC4

REQUEST DATE: July 28, 2015

LINE ITEM: NOAA3 Henry Ford Estate Dam Fish Passage and Habitat
Restoration Design – **Upon Grant Award**

COMMITTEE MAKING REQUEST: Finance Committee

BACKGROUND: The ARC applied for a NOAA grant for design of the Henry Ford Estate Dam Fish Passage and Habitat Restoration in February 2015. NOAA has notified the ARC that it has been selected to receive funding for this work. NOAA has all of the grant documentation ready to send to the ARC for finalization once EPA has provided NOAA with their current year allocation of GLRI Funds. **The total compensation for this scope of services is \$350,000. The ARC will be reimbursed by NOAA for 100% of this cost with no match requirement.** The design, once implemented, would positively impact 50 main and 108 tributary river miles for fish migration to the Great Lakes system for the first time in over a century.

DESCRIPTION OF ANTICIPATED ACTIVITIES: The design of the natural channel fish passage bypass will incorporate the target fish species design criteria and enable passage. The design strives to, not only pass a diversity of fish species at varying life stages in the most efficient manner possible, but also to provide suitable aquatic habitat for many of the organisms that live in the river. The design of this fish passage is simple and ecologically minded. It will achieve a good fit with the natural riverine floodplain aesthetics. In order to complete the design project, a detailed project schedule has been developed and provided at the end of this project narrative section. The task summaries below provide the activities required in order to achieve the project objectives.

Task 1. NOAA Grant Reporting/Public Outreach

This task will include the development of a project Quality Assurance Project Plan (QAPP), Health and Safety Plans, semi-annual reports to NOAA, and the drafting of the final project report.

Task 2. Field Investigation

Background data will be collected and reviewed, the USACE survey completed in 2012, will be used as the base map for the design and the hydraulic modeling set up will form the basis of the design decisions. The following data collection needs will be completed in order to refine the design, allow for project permitting and provide baseline data for comparison following construction.

Task 3. Design

The design will take into account the technical needs for the natural channel by-pass outlined previously, constructability and long-term maintenance. This task will include hydraulic modeling, development of construction design plans, technical specifications, and construction cost estimating. During the final design phase of the project, the ARC will advance plans (30% design drawings) with additional engineering, planning, design refinement/modifications, stakeholder collaboration, and Technical Team review and feedback. Following this review, the design drawings produced will be advanced to 50% design for review and then to 95%. Final plans and specifications will be developed following the last review.

Task 4. Permitting

This task will include permitting services with the intended purpose of obtaining the Joint Application Permit from the MDEQ.

RATIONALE: The 2015 budget must be adjusted to reflect this additional funding.

BUDGET: This amendment adds the NOAA Rouge River AOC - Henry Ford Estate Dam Fish Passage and Habitat (total award is \$350,000) budget line to the 2015 ARC Budget with funding anticipated for 2015 activities in the amount of \$75,000. The remaining amount of \$275,000 will be budgeted in the 2016 budget. No match is required.

PERSON/AGENCY RESPONSIBLE FOR IMPLEMENTATION: Work will be completed by the ARC Executive Director Staff and Wayne County.

UPON GRANT AWARD

Alliance of Rouge Communities
ECT-ARC 2013 Contract, Appendix J
Scope of Services for NOAA Rouge River AOC - Henry Ford Estate Dam
Fish Passage and Habitat Restoration Design
Environmental Consulting & Technology, Inc.
September 1, 2015– December 31, 2016

The total compensation for this scope of services is \$285,000. The ARC will be reimbursed by NOAA for 100% of this cost with no match requirement.

The Project:

The Alliance of Rouge Communities (ARC) has received a \$350,000 grant to design a fish passageway around the Henry Ford Estate Dam on the Rouge River in Dearborn, MI. The design, once implemented, would positively impact 50 main and 108 tributary river miles for fish migration to the Great Lakes system for the first time in over a century.

Project Design/Task Summary

The design of the natural channel fish passage bypass will incorporate target fish species design criteria and enable passage. The design strives to, not only pass a diversity of fish species at varying life stages in the most efficient manner possible, but also to provide suitable aquatic habitat for many of the organisms that live in the river. The design of this fish passage will be ecologically minded and achieve a good fit with the natural riverine floodplain aesthetics. The task summaries below provide the activities required in order to achieve the project objectives.

Task 1. NOAA Grant Reporting/Public Outreach

This task will include the development of a project Quality Assurance Project Plan (QAPP), Health and Safety Plans, semi-annual reports to NOAA, and the drafting of the final project report. This task includes the following elements:

Project Kickoff Meetings – The project will begin with a couple of kickoff meetings between all project partners to review and discuss the final U.S. Army Corps alternatives. These meetings will be conducted to make sure final consensus is confirmed on the chosen alternative for the project designs.

Perform Grant Management activities - The ARC will provide grant management services and assure compliance with terms and conditions of the anticipated grant. Project progress will be monitored on a monthly basis and summarized to NOAA. Additionally, NOAA semi-annual reporting will be prepared and submitted on the required schedule.

Prepare QAPP - In accordance with federal requirements all environmental measurements undertaken in support of this project will be required to be conducted under a formal quality

management protocol. A project specific QAPP will be prepared and submitted to NOAA for review and approval prior to beginning any data collection activities.

Health and Safety Plan (HASP) Development – A site specific health and safety plan will be developed for the project. Potential hazards will be identified, and steps will be outlined to reduce risk to employees and visitors to the site. The HASP will also detail steps for emergency response, including directions and a map to the nearest emergency room/urgent care.

Coordinate with Partners - The ARC will provide coordination between partners and stakeholders in the project. Throughout the design process, active participation will be fostered among the stakeholders through meetings and a formal technical workshop.

Public Outreach - Throughout the design process, the ARC will reach out to the public to inform them of the proposed activities and to obtain input. During the development of the field information and design documents there will a focused workshop for the interested public. The ARC and project partners will be posting information related to the project on the ARC web site and informational flyers will be distributed to interested organizations and the public at large. This task will include bi-monthly project partner meetings which will allow for exchange of ideas and discussion of concepts and concerns. Partner meetings will allow for the development of a prudent, feasible, public acceptable, and permissible project design.

Deliverables: QAPP, semi-annual reports, final report, and public meeting

Task 2. Field Investigation

Background data will be collected and reviewed, the USACE survey completed in 2012, will be used as the base map for the design and the hydraulic modeling set up will form the basis of the design decisions. The following data collection needs will be completed in order to refine the design, allow for project permitting and provide baseline data for comparison following construction.

Geotechnical Investigation - Up to 10 (ten) soil borings will be performed along the approximate alignment of the natural bypass channel with each extending to a depth of 5-10 feet below grade. Soil samples will be visually classified. Moisture content tests, unit weight determinations and unconfined compressive strength tests will be performed on representative cohesive soil samples. Loss on Ignition Tests (LOI) will be performed on samples suspected to contain organic content. Sieve analysis will be performed on representative samples of existing granular material.

Soil Characterization - The purpose of the soil evaluation will be to characterize the chemical characteristics of the soil prior to its excavation for evaluation of potential disposal alternatives for the soils (upland, fill or at a Class II sanitary landfill). The samples will be analyzed based on the State of Michigan criteria for Metals, Volatile and Semi-Volatile compounds, and PCB scans.

Threatened & Endangered Species (T&E) - Since all federal agency grant programs require at least a programmatic environmental assessment that must consider potential impacts to federally and state-listed T&E plant and animal species, T&E information will be collected. The Michigan Natural Features Inventory (MNFI) maintains a continuously updated natural heritage

database that provides a comprehensive source of existing data on Michigan's endangered, threatened, or otherwise significant plant and animal species, natural plant communities, and other natural features, referred to as "element occurrences." Records in the database indicate that a qualified observer has documented the presence of T&E species or special natural features. The absence of records in the database for a particular site does not preclude the potential presence of T&E species or special natural features; it may mean that the site has not yet been surveyed or that element occurrence observations have not yet been reported to MNFI. Furthermore, the U.S. Fish and Wildlife Service (USFWS) publishes a county distribution list of federally listed threatened, endangered, proposed, and candidate species. This list indicates the potential for T&E species to be present within the county. However, unlike the MNFI database, this list does not necessarily indicate documented presence of T&E species. Other species and unique natural features may be present that have not been recorded in the MNFI database or listed by the USFWS. The only way to obtain a definitive statement on the status of T&E species or special natural features is to have a competent biologist perform a complete field survey. The project area (i.e., potential disturbance limits) will be visited by qualified ecologists and evaluated for suitable T&E species habitat and potential presence of listed species that occur within a 1.5-mile radius of the project site (based on the MNFI database and the USFWS Wayne County species list). Only those T&E species that have the potential to be impacted by the proposed project, based on physical site characteristics, will be targeted for field surveys.

Herpetological – The ARC will establish seasonally-appropriate sampling methodologies to survey for herpetological species. The methodology will be designed to document amphibian and reptile diversity, assess use and spatial distribution, and help identify and delineate habitat indicative of herpetofauna species. A variety of different survey methods will be employed throughout the active season of most species (March – October). Scheduling of field surveys will be based on the best survey times for selected species and various life stages to help determine overall community health. The field surveys will be subject to changes based on temperatures, recent precipitation levels, amount of sunlight, and herpetofauna activity trends found during the prior field surveys. Sampling may include, but is not limited to, aural detection for calling amphibians, visual encounter meander line transect surveys, dipnetting, and turning over cover objects.

Fish - The modification to the Henry Ford Estate dam seeks to provide effective passage of target fish species residing in the Rouge River. Therefore it is important to understand the existing fish usage of resident assemblages upstream and downstream of the dam. This can help guide design goals and strategies to optimize fish passage requirements for target species. While many important fish species reside in the Rouge River near the Henry Ford Estate dam (e.g., smallmouth bass, northern pike, sucker and redhorse, darters, sunfish, minnows, etc.), one of the most important target species for defining fish passage success is the walleye. Therefore, it will be important to characterize walleye presence and usage upstream and downstream of the dam before implementation.

Baseline biological monitoring for fish assemblages in the study area will consist of sampling during the early spring (right at ice out), when water temperatures reach approximately 38-44°F. This corresponds to the time period when walleye and other potadromous fish species begin their spring spawning migrations. Fish will be collected using pulsed DC electroshocking

(60 Hz) using a GPP5.0 (Smith-Root, Inc., Vancouver, WA). GPP settings will be determined in the field based on ambient water conductivity, but will likely consist of using 220V power at 20-40% output (4-7 amps). Two reaches of at least 3,500 ft., one upstream and one downstream of the dam, will be sampled for fish assemblage characterization. Habitats in which target species commonly utilize will be targeted (e.g., large woody debris, pools, and riffles). Each reach will be sampled in 15 minute electroshocking units until the 3,500 ft. has been sampled. During each sampling unit, stunned fish will be netted from the water and placed in holding tanks supplied with fresh water from the Rouge River. Following each sampling unit (i.e., 15 minute interval), collected fish will be identified to the species level, measured to the nearest mm (total length TL), and subsequently live-released into the Rouge River. The total time from capture to release will not exceed 30 minutes to reduce handling stress. To obtain sufficient collection data for analyses and provide a representative assemblage structure, a minimum of 30 fish per primary species (when feasible) will be collected within each reach. Several commonly reported metrics will be used to describe the baseline fish assemblages in the vicinity of the HFE dam. Species richness and abundance, catch per unit effort, and size-frequency distributions will be calculated. To compare the two reaches, commonly reported diversity statistics will be calculated, including Shannon-Weiner diversity, similarity coefficient, evenness, and the effective number of species.

Macroinvertebrates - Macroinvertebrates are an important part of the river ecosystem and can be indicative of the health of a particular system. The purpose of characterizing the macroinvertebrate community in the vicinity of the HFE dam will accomplish two key goals: 1) establish the current macroinvertebrate abundance and diversity in the Rouge River near the project site, and 2) compare macroinvertebrate abundance and diversity to the constructed fish bypass channel which will include the addition of high quality substrate habitat for macroinvertebrates. Several procedures have been developed to evaluate biological impacts using macroinvertebrates as indicators of stream health. The Michigan Department of Environmental Quality (MDEQ) has developed survey protocols for non-wadeable rivers similar to the GLEAS Procedure 51 for wadeable streams. Similar techniques will be used to collect benthic macroinvertebrates upstream and downstream of the HFE dam. Six artificial substrate samplers (e.g., Hester-Dendy) will be deployed at randomized stations within each reach and left in place for 6 weeks for adequate colonization. The samplers will then be recovered and a composite of 5 of the 6 samplers at each site will be taken back to the lab for identification and enumeration. Aquatic habitat will be assessed during deployment of the Hester Dendys as outlined in the procedure for scoring purposes. Scoring of the data will follow the guidelines presented in the non-wadeable rivers procedure.

Task 3. Design

The design will take into account the technical needs for the natural channel by-pass outlined previously, constructability and long-term maintenance. This task will include hydraulic modeling, development of construction design plans, technical specifications, and construction cost estimating. During the final design phase of the project, the ARC will advance plans (30% design drawings) with additional engineering, planning, design refinement/modifications, stakeholder collaboration, and Technical Team review and feedback. Following this review, the design drawings produced will be advanced to 50% design for review and then to 95%. Final plans and specifications will be developed following the last review.

Deliverables: Design Plans and Technical Specifications

Task 4. Permitting

This task will include permitting services with the intended purpose of obtaining the Joint Application Permit from the MDEQ. The following activities will be completed as part of this task.

- Prepare a pre-application meeting package with pre-application meeting fee and work with the County to schedule a site meeting and project review meeting with MDEQ Division staff. The purpose of a formal pre-application meeting is to review statutory permitting requirements.
- A Joint Application for Permit will be completed, including all necessary attachments. Quantities of cuts and fills in wetlands, streams, and floodplains will be calculated from the design drawings and tabulated. Basis of Design Report detailing the final design will be prepared (Supporting data, analyses, computations, and modeling will be presented in a concise format. Periodic communication with District permitting staff will allow dialogue on design before the Joint Permit Application is submitted. This will include project partner meetings which will allow for exchange of ideas, discussion of concepts and concerns culminating in the development of a prudent, feasible, and permissible project design upon completion. This process will help ensure that a permissible project is designed and will facilitate the permitting process.

Deliverables: MDEQ/USACE Joint Permit Application Package



July 28, 2015

Ms. Brandy Siedlaczek, Chair
Alliance of Rouge Communities
46036 Michigan Ave, Suite 126
Canton, MI 48188

RE: Environmental Consulting & Technology, Inc. Contract Extension

Dear Ms. Siedlaczek:

Environmental Consulting & Technology, Inc. (ECT) is writing to inform you that ECT's current contract with the Alliance of Rouge Communities (ARC) is scheduled to end at the end of this year, December 31, 2015. Per Section III. Term of Contract:

"The Contract Period ("Contract Period") shall be from January 1, 2013, through December 31, 2015. At its discretion, the ARC may negotiate with the CONTRACTOR for continuing services on an annual basis for similar services up to three (3) subsequent finical years. The Contract Period may be extended at the sole discretion of the ARC under the terms agreed to in writing by the CONTRACTOR and the ARC unit it authority as authorized by its bylaws."

Therefore, ECT is requesting an initial annual extension of our contract, under its current terms, be considered and granted. This would extend the current contract end date to December 31, 2016, and allow for the potential of two additional one year extensions.

ECT truly appreciates the opportunity to serve as ARC staff and believes the extension will provide continuity of current services as the ARC moves forward. ECT also believes its institutional knowledge will be a great asset to the ARC as it works through any potential structural changes that it may choose to investigate.

Should you have any questions please do not hesitate to contact myself or any of the other ECT "ARC Staff".

Respectfully submitted,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

James. W. Ridgway, P.E.
Vice President

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