

**AGENDA**  
**Huron-Clinton Metropolitan Authority**  
**Board of Commission Meeting**  
**September 13, 2018 – 10:30 a.m.**  
**Lake Erie Metropark – Pool Food Bar Area**

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1. Call to Order
2. Chairman's Statement
  - a. Communications with Detroit Zoo **pg. 1**
  - b. Detroit Zoo Update and Discussion
3. Public Participation
4. Approval – August 9, 2018 Regular Meeting and Closed Session Minutes
5. Approval – September 13, 2018 Full Agenda

**Consent Agenda**

6. **Approval – August 9, 2018 Consent Agenda**
  - a. Approval – August 2018 Financial Statements and Payment Registers
  - b. Approval – August 2018 Appropriation Adjustments **pg. 7**
  - c. Report – Purchases Over \$10,000 **pg. 10**
  - d. Report – Marketing/Media Stats **pg. 11**
7. **Fish Advisory Update** – DEQ and Michigan Dept. of Health and Human Services

**Regular Agenda**

8. **Reports**
  - A. *Planning Department*
    1. Report – 2018 Count Day Initiative **pg. 14**
  - B. *Engineering Department*
    1. Bids – Pool Backwash Discharge Modification, Lake Erie Metropark **pg. 15**
  - C. *Natural Resources Department*
    1. Approval – Marsh Restoration Grant Request, Lake Erie Metropark **pg. 16**
9. **Closed Session** – For the purpose of consulting with attorney(s) discussing material, which is exempt from discussion or disclosure under the Freedom of Information Act, this is a permissible purpose for closed session pursuant to Section 8(h) of the Open Meetings Act.
10. Other Business
11. Staff Leadership Update
12. Commissioner Comments
13. Motion to Adjourn

<p>The next regular Metroparks Board meeting will take place <b><u>Thursday, Oct. 11, 2018 – 10:30 a.m.</u></b> Administrative Office</p>
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## HURON-CLINTON METROPOLITAN AUTHORITY

To: Board of Commissioners  
From: Amy McMillan, Director  
Subject: HCMA and DZS Correspondence – Great Lakes Nature Center  
Date: September 6, 2018

Huron-Clinton Metroparks Board correspondence with the Detroit Zoological Society regarding the proposed Great Lakes Nature Center is included for review.

**Attachments:** HCMA Letter to DZS dated Aug. 16, 2018  
DZS response letter to HCMA dated Aug. 28, 2018  
HCMA acknowledgement letter dated Aug. 30, 2018



August 16, 2018

Mr. Lloyd A. Semple, Chair  
Mr. Ron L. Kagan, Executive Director / CEO  
Detroit Zoological Society  
8450 W. 10 Mile Road  
Royal Oak, MI 48067

**Subject: Proposed Great Lakes Nature Center**

Dear Mr. Semple and Mr. Kagan:

We are writing to you on behalf of the Huron-Clinton Metropolitan Authority Board of Commissioners to express our enthusiasm for the proposed Detroit Zoological Society (DZS) Great Lakes Nature Center (GLNC) and to share some of our board's concerns about certain terms proposed by DZS.

We are tremendously interested in the possibility of locating the GLNC at Lake St. Clair Metropark. Lake St. Clair Metropark has: average annual admissions of nearly 400,000 vehicles; a growing annual attendance of visitors to our existing nature center (176,000 in 2017); spectacular access to Lake St. Clair; and an unparalleled place in the hearts of Macomb County residents. It is difficult to imagine any location better suited for the GLNC.

During open session at our August 9 Board of Commissioners meeting, our board discussed both its enthusiasm for an HCMA-DZS collaboration and its concerns regarding several issues that have arisen during conversations between HCMA and DZS administrative leadership. This letter is the result of that discussion.

While there are many smaller details that will remain to be resolved, in order to continue moving forward towards an agreement, the HCMA Board has four key concerns that must be addressed:

- DZS has projected the cost of maintaining, operating and programming the \$15 million GLNC to be approximately \$2 million per year. If DZS determines it is unable to sustain operations of the GLNC at any time during the course of its 30-year lease with the Metroparks or does not renew its lease upon expiration of the initial 30-year term, it is very unlikely that HCMA will be able to afford to take over the operation of the facility. Therefore, we must determine the respective responsibilities of HCMA and DZS with regard to the repurposing of the facility when the lease terminates.
- HCMA has been very successful in securing grant funding for its parks, including Lake St. Clair Metropark, and does not want to diminish its success nor compete against itself for grant opportunities that may benefit the GLNC. Grant requests to public agencies such as the Department of Natural Resources, the Michigan Department of Transportation, and others to support the GLNC must be submitted in a collaborative effort with DZS working with HCMA on such requests.

Delhi | Dexter-Huron | Hudson Mills | Huron Meadows | Indian Springs | Kensington  
Lake Erie | Lower Huron | Lake St. Clair | Oakwoods | Stony Creek | Willow | Wolcott Mill

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# HURON-CLINTON metroparks

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- HCMA takes pride in all of its parks and takes great care when designing new elements and park facilities to ensure a seamless flow between nature and all facilities. HCMA is not interested in controlling the design of the GLNC nor creating delays; however, HCMA staff must participate in the design process. In addition, HCMA's board must have the opportunity to review and approve the final design of the proposed GLNC.
- The HCMA Board is concerned about the basis for the DZS request that HCMA annually provide \$500,000 (\$200,000 in-kind services and \$300,000 in cash) in financial support, adjusted annually for inflation. Such a commitment will place a very heavy burden on HCMA and we have not had the opportunity to review any market study or report demonstrating with some certainty that paid admissions to HCMA will increase by levels adequate to justify this substantial financial commitment. HCMA is publicly funded. Its Board has a fiduciary duty to exercise due diligence when committing taxpayer dollars. To exercise that due diligence, before making any commitment to a level of financial support, the HCMA Board will need to receive more detailed information in the form of a market study or similar financial analysis.

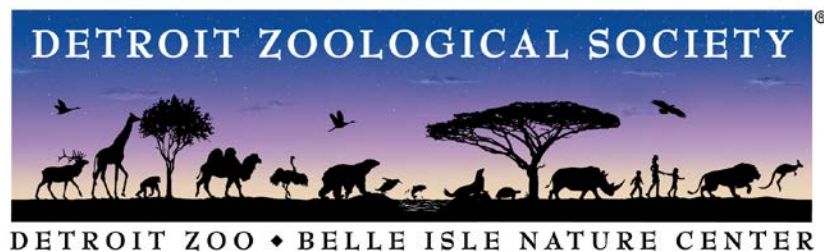
DZS has expressed to our staff that a decision as to whether to proceed must be made by its board no later than its September Board meeting. While the Board is very interested in proceeding it has firmly expressed that these key concerns must be satisfactorily resolved prior to making such a significant decision.

We look forward to continuing to work with you.

Sincerely,

Timothy J. McCarthy, III  
Chair

Amy M. McMillan  
Director



August 28, 2018

Timothy J. McCarthy, III, Chair  
Amy McMillan, Director  
Huron-Clinton Metroparks  
13000 High Ridge Drive  
Brighton, MI 48114-9058

Dear Mr. McCarthy and Ms. McMillan:

Thank you for your letter of August 16 and list of key concerns with respect to the possibility of building and operating the Great Lakes Nature Center (GLNC) at Lake St. Clair Metropark. We obviously remain interested in locating the GLNC at the Metropark.

Our two organizations have committed significant time and effort over the past six months in related discussions, and we appreciate HCMA's enthusiasm for the Great Lakes Nature Center. Given that our organizations now seem somewhat divergent in our positions in important areas, we wonder if more time is needed to fully explore a path forward. As you know, this extended time has caused additional challenges for us. Nevertheless, we think extending our timeline to work together for another month would make sense.

Thank you for the key concerns you shared. As we have both agreed, it's important that we are all clear on all concerns and issues. As an aside, a small concern for either DZS or HCMA might be a significant one for the other, and we all want to avoid being surprised by unresolved issues or concerns.

With respect to HCMA's key concerns:

*Repurposing the facility if DZS can't sustain operations and/or does not renew lease* – An alliance between HCMA and DZS means that DZS would invest \$15 million in the Lake St. Clair Metropark. As you know, this will be a vibrant, progressive and green building that will attract people to the metropark. While it is impossible to see clearly 30 years into the future, a healthy relationship and a sound operating agreement suggest success. The right support and investment from both DZS and HCMA would certainly make the closure of the GLNC unlikely. Regardless, a spectacular building can be repurposed.

*Grants* – Partly because operation on the Lake St. Clair site means that we will have less revenue than if we were operating independently on our own site, we will have a revenue gap that needs to be filled. And, in addition to investing \$15 million on your campus, we would be incurring expenses of roughly \$2 million/year (\$60 million over the 30 years). We would not interfere with, or direct, fundraising efforts of HCMA; similarly, we would not be able to agree to restrictions or limitations on our fundraising from any sources.

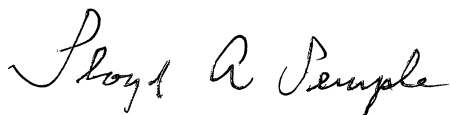
*Design approval* – The DZS has designed many world-class, award-winning facilities like the Arctic Ring of Life, the Polk Penguin Conservation Center and the National Amphibian Conservation Center. We have a well-established process, which we have been clear that HCMA staff leadership can be part of, but we have the creative and technical expertise necessary for design of the GLNC, and we would be operating it. Any possible concerns regarding the design would be seriously considered by DZS.

*Annual operating commitment, request for market study* – In addition to being a multi-million-dollar capital investment in HCMA property that will drive HCMA attendance and revenue. GLNC will obviously be budget-relieving for HCMA because maintenance/operation of both the golf course and of your existing nature center will cease. The model we're discussing - operation of a very unique facility on a site that is owned and controlled by another organization - is not one that we are aware of elsewhere. A study to scientifically project admissions revenue is not realistic and is subject to many variables. As an example, if Lake St. Clair Metropark closes, either all or partially (e.g. due to lake pollution), this would have serious consequences for us.

Thank you for your ongoing effort with us to explore the possibility of placing the Great Lakes Nature Center at Lake St. Clair Metropark. We remain very interested, though, as you know, we continue to explore other potential river/lake sites as well.

Let's meet as soon as convenient to continue discussions.

Sincerely,



Lloyd A. Semple  
Chair



Ron L. Kagan  
Executive Director/CEO



# HURON-CLINTON metroparks

Administrative Office | 13000 High Ridge Drive | Brighton, MI 48114-9058  
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August 30, 2018

Mr. Lloyd A. Semple, Chair  
Mr. Ron L. Kagan, Executive Director / CEO  
Detroit Zoological Society  
8450 W. 10 Mile Road  
Royal Oak, MI 48067

Dear Mr. Semple and Mr. Kagan:

We are in receipt of an electronic copy of your letter dated August 28 in which you reiterated your interest in locating the GLNC at Lake St. Clair Metropark.

Thank you for providing this letter and the responses to the HCMA Board's four key concerns regarding a possible agreement between HCMA and DZS to locate the GLNC at Lake St. Clair Metropark. We will share your August 28 letter with the HCMA Board at its upcoming meeting on September 13 for full discussion and possible further Board action. The meeting, which is at Lake Erie Metropark, begins at 10:30 a.m. You are welcome to attend.

If there is any additional information you would like us to include for the Board's consideration, please provide it at your soonest opportunity.

Sincerely,

Timothy J. McCarthy, III  
Chair

Amy M. McMillan  
Director

Delhi | Dexter-Huron | Hudson Mills | Huron Meadows | Indian Springs | Kensington  
Lake Erie | Lower Huron | Lake St. Clair | Oakwoods | Stony Creek | Willow | Wolcott Mill

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## HURON-CLINTON METROPOLITAN AUTHORITY

To: Board of Commissioners  
From: Rebecca Franchock, Chief of Finance  
Subject: Approval – August Appropriation Adjustments  
Date: September 6, 2018

### **Action Requested: Motion to Approve**

That the Board of Commissioners' approve the August 2018 Appropriation Adjustments as recommended by Chief of Finance Rebecca Franchock and staff.

**Background:** The Metroparks ERP system provides a work-flow process to facilitate departmental budget management. Requested transfers are initiated by department staff and routed to the appropriate department head/district superintendent for review and approval. Finance provides a final review of the approved requests to verify that they do not negatively impact Fund Balance.

For the month of August, \$1,056,381 represents funds transferred within and between the departments to cover over budget accounts or to move funds to the correct account. In addition, expenditure budgets increased by \$7,984, which is related to funds that have been received from the Foundation or other donors; \$10,825 in donation funds were reflected in an increase to a revenue budget. Finally, there were various adjustments to taxes receivable resulting in a net decrease of \$9,988.

The net impact on Fund Balance is a decrease of \$88,801. The result of these changes can be seen by Accounting Function and Location in the attached chart.

**Attachment: August Appropriation Adjustments**



**Huron-Clinton Metropolitan Authority**  
**August 2018 Appropriation Transfer Summary**

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**Expense Accounts**

	<b><u>Location</u></b>	<b><u>Increase</u></b>	<b><u>Decrease</u></b>	<b><u>Difference</u></b>
<b>Capital</b>	Lake St. Clair	\$ 330,790	\$ 330,790	\$ -
	Kensington	46,427	46,427	-
	Hudon Mills	19,950	19,950	-
	Stony Creek	350,849	350,849	-
	Lake Erie	15,889	15,889	-
	<b>Total</b>	<b>\$ 763,905</b>	<b>\$ 763,905</b>	<b>\$ -</b>
<b>Major Maintenance</b>	Lake St. Clair	\$ 10,000	\$ 10,000	\$ -
	Kensington	28,640	28,640	-
	Lower Huron	43,465	33,578	9,887
	Hudson Mills	19,800	19,800	-
	Stony Creek	20,000	20,000	-
	Lake Erie	105,860	56,914	48,946
	Wolcott Mill	11,840	11,840	-
	Indian Springs	15,716	15,716	-
	<b>Total</b>	<b>\$ 255,322</b>	<b>\$ 196,488</b>	<b>\$ 58,834</b>
<b>Operations</b>	Lake St. Clair	\$ 1,581	\$ -	\$ 1,581
	Kensington	3,885	-	3,885
	Lower Huron	16,742	-	16,742
	Hudson Mills	27,931	26,877	1,054
	Stony Creek	11,885	8,000	3,885
	Lake Erie	12,875	-	12,875
	Wolcott Mill	27,860	27,860	-
	Indian Springs	350	350	-
	Administration	15,700	32,901	(17,201)
	<b>Total</b>	<b>\$ 118,810</b>	<b>\$ 95,989</b>	<b>\$ 22,821</b>
<b>Total Expense</b>		<b>\$ 1,138,036</b>	<b>\$ 1,056,382</b>	<b>\$ 81,655</b>

**Huron-Clinton Metropolitan Authority**  
**August 2018 Appropriation Transfer Summary**

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**August 2018 Foundation/Donation Transfer Summary**

<b>Operations</b>	<b>Expenditure Increase</b>	<b>Revenue Increase</b>	<b>Net</b>
Lake St. Clair	\$ 1,146	\$ 1,332	\$ (186)
Kensington	2,603	2,603	-
Lower Huron/Willow/Oakwoods	250	250	-
Hudson Mills	500	500	-
Stony Creek	3,485	6,141	(2,656)
Lake Erie		-	-
Total	<b>\$ 7,984</b>	<b>\$ 10,825</b>	<b>\$ (2,842)</b>

**August 2018 Net Tax Revenue Budget Adjustments**

<b>Tax Revenue</b>	<b>Expenditure Increase</b>	<b>Revenue Increase</b>	<b>Net</b>
Current	\$ -	\$ 1,863	\$ (1,863)
Prior	11,851	-	11,851
Total	<b>\$ 11,851</b>	<b>\$ 1,863</b>	<b>\$ 9,988</b>



# HURON-CLINTON METROPOLITAN AUTHORITY

To: Board of Commissioners  
 From: Amy McMillan, Director  
 Project Title: Report – Purchases over \$10,000.00  
 Date: September 6, 2018

## Action Requested: Motion to Approve

That the Board of Commissioners' receive and file the report for purchases over \$10,000, up to, and including \$25,000 as submitted by Director Amy McMillan and staff.

**Background:** On May 9, 2013, the Board approved the updated financial policy requiring the Director to notify the Board of purchases exceeding \$10,000, up to, and including \$25,000.

The following list is purchases exceeding the \$10,000 threshold:

<u>Vendor</u>	<u>Description</u>	<u>Price</u>
Michigan Police Equipment	Handguns and holsters for Metroparks Police System-wide	\$10,540.40
Dave's Contracting Inc.	Replacement of doors in the band shell building Willow Metropark	\$14,700.00
Brock and Associates, Inc.	Replacement of nine bridge beams under North Territorial Road Hudson Mills Metropark	\$19,800.00



## HURON-CLINTON METROPOLITAN AUTHORITY

To: Board of Commissioners  
From: Hilary Simmet, Marketing and Media Specialist  
Subject: Report – Marketing/Media Stats  
Date: September 6, 2018

**Action Requested: Motion to Receive and File**

That the Board of Commissioners' receive and file the Marketing and Media statistics report as recommended by Marketing and Media Specialist Hilary Simmet and staff.

**Background:** Year-to-date marketing and media efforts are attached for review.

**Attachment: Marketing and Media Stats**

**2018 Year-To-Date  
Marketing/Media Stats**

**PAID MEDIA**

	Print Ads	Digital Ads
January	5	3
February	5	3
March	7	4
April	8	6
May	5	7
June	5	5
July	5	7

**UNPAID MEDIA (ORGANIC)**

	Total Online Mentions	Total Online Visitors	Total Online Value	Total TV Mentions	Total TV Visitors	Total TV Value
January	42	3,069,749	\$ 52,014			
February	69	3,931,997	\$ 41,378			
March	59	1,852,569	\$ 15,897			
April	136	57,158,304	\$ 1,719,057	10	73,132	\$ 3,883
May	158	8,257,067	\$ 85,827			
June	260	14,134,932	\$ 273,040			
July	165	52,255,264	\$ 3,433,855	16	427,601	\$ 29,225

**SOCIAL MEDIA - MAIN FACEBOOK**

	Followers	Number of Posts	Total Post Reach	Total Impressions	Total Reactions, Comments, Shares	Total Post Link Clicks
January	8,563	19	59,277	97,572	840	186
February	8,610	24	69,948	106,430	944	268
March	8,696	25	91,953	131,049	1,704	198
April	8,888	22	76,442	106,259	1,617	230
May	9,199	26	132,824	199,158	2,230	1,623
June	9,435	23	129,790	189,596	2,290	824
July	9,591	27	118,277	165,932	1,810	893

**SOCIAL MEDIA - TWITTER**

	Followers	Number of Posts	Total Post Impressions	Total Post Engagement
January	1,821	28	16,346	598
February	1,861	25	14,509	647
March	1,895	35	21,362	854
April	1,926	39	27,445	1,179
May	1,960	26	26,083	2,714
June	1,995	32	27,545	3,339
July	2,016	44	28,300	3,146

## 2018 Year-To-Date Marketing/Media Stats

### SOCIAL MEDIA - INSTAGRAM

	Followers	Number of Posts	Total Post Likes	Total Post Comments
January	574	10	414	9
February	620	12	486	10
March	971	14	522	6
April	729	11	395	1
May	785	14	551	10
June	856	9	372	8
July	905	15	576	8

### WEBSITE

	Page Views	Online Sales	Organic Search	Direct Search	Social Media Referral	Email
January	107,113	\$ 15,294	18,867	7,263	3,590	1,654
February	112,779	\$ 11,831	20,509	7,430	3,120	2,354
March	157,640	\$ 16,105	27,571	9,808	2,753	3,542
April	185,445	\$ 16,502	35,945	10,223	2,474	2,862
May	357,206	\$ 19,959	73,616	20,117	7,515	6,205
June	499,693	\$ 9,123	101,424	28,268	9,147	7,655
July	571,451	\$ 4,762	125,396	33,935	10,795	6,655

### COMMUNITY OUTREACH

	Presentations	Cold Calls	Networking Meetings	One on One Meetings	Community Events (booth/table)
January	4	83	8	2	0
February	5	95	10	2	2
March	11	82	5	5	2
April	4	65	6	3	8
May	13	121	5	2	7
June	6	81	6	7	11
July	5	85	6	3	0



## HURON-CLINTON METROPOLITAN AUTHORITY

To: Board of Commissioners  
From: Nina Kelly, Chief of Planning and Development  
Subject: Report – 2018 Count Day Initiative  
Date: September 6, 2018

**Action Requested: Motion to Receive and File**

That the Board of Commissioners' receive and file the report on the 2018 Count Day Initiative as recommended by Chief of Planning Nina Kelly and staff.

**Background:** The Planning Department facilitated a Count Day Initiative across the Metroparks system on Monday, July 16, Sunday, July 22, and Sunday, August 19.

A report analyzing the data collected will be presented at the meeting.



# HURON-CLINTON METROPOLITAN AUTHORITY

To: Board of Commissioners  
 From: Mike Henkel, Chief of Engineering Services  
 Project No: 512-15-228  
 Project Title: Bids – Pool Backwash Discharge Modification  
 Project Type: Capital Improvement  
 Location: Lake Erie Metropark, Wayne County  
 Date: September 6, 2018

Bids Received: August 28, 2018

## Action Requested: Motion to Approve

That the Board of Commissioners' award Contract No. 512-15-228 to the low responsive, responsible bidder, DVM Utilities, Inc. in the amount of \$149,808.20 as recommended by Chief of Engineering Services Mike Henkel and Staff.

**Fiscal Impact:** The project was budgeted at \$175,820 and is under budget by \$26,011.80.

**Scope of Work:** The project will divert the filter backwash to the sanitary system. The work includes plumbing modifications, installing a 15-inch high density polyethylene pipe, trenching and installing two manholes.

**Background:** The existing pool and mechanical systems were constructed in 1982. The existing backwash system needs to be modified to meet current standards for discharge.

<u>Contractor</u>	<u>City</u>	<u>Amount</u>
DVM Utilities, Inc.	Sterling Heights	\$149,808.20
Dave's Contracting, Inc.	Dearborn	\$197,000.00

Budget Amount for Contract Services and Administration	
Pool Backwash Discharge Modifications	\$149,808.20

Work Order Amount	
Contract Amount- DVM Utilities, Inc.	\$149,808.20
Contract Administration	\$ 5,000.00
Total Proposed Work Order Amount (Rounded)	\$154,808.00

*The following contactors viewed documents but did not submit a bid. Erie Welding & Mechanical Contractors, MI; ETNA Supply Co., MI; MVI, GA; RJ&J Enterprises, Inc., MI; Unflex, Inc., MI; CBI, GA; Whittaker Brothers, NY; Amit, VA; Dave's Contracting, MI; Clearwater Construction, MI; Advanced Underground Inspection, MI; DVM Utilities, MI.*

*This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Construction News Service, HCMA Website, Builders Exchange of Michigan, McGraw Hill Dodge, Builders Exchange of Lansing and Central Michigan.*





## HURON-CLINTON METROPOLITAN AUTHORITY

**To:** Board of Commissioners  
**From:** Ryan Colliton, Chief of Natural Resources and Regulatory Compliance  
**Subject:** Approval – Great Lakes Commission Grant for Non-AOC Habitats  
**Project Title:** Lake Erie Shoreline and Fish Habitat Restoration  
**Location:** Lake Erie Metropark  
**Date:** September 6, 2018

### **Action Requested: Motion to Approve**

That the Board of Commissioners' approve the grant agreement between The Huron-Clinton Metropolitan Authority and The Great Lakes Commission (GLC) as recommended by the Chief of Natural Resources and Regulatory Compliance Ryan Colliton, and staff.

**Fiscal Impact:** The Great Lakes Commission (GLC) has awarded the Metroparks \$1,449,608 through the Great Lakes Habitat Restoration Project Grants Program. The Metroparks will provide \$135,194 of in-kind match through staff time and annual vegetation management contracts. Annual vegetation management will provide \$90,000 in matching funds, the remaining \$45,194 of in-kind services will be provided through staff hours dedicated to the project.

**Background:** The Michigan Department of Natural Resources, Southeast Michigan Council of Governments, and the Great Lakes Commission approached the Huron-Clinton Metroparks to pursue funding for shoreline softening, fish habitat improvement and habitat monitoring.

This project will benefit numerous state and federal wildlife species, enhance both sport and non-sport fisheries, and provide enhanced water based recreation opportunities. These outcomes will be accomplished by softening 1,183 linear feet of shoreline and the enhancement of approximately 1.7 acres of shallow water channels and pools. Shoreline softening will be located on the unused portion of the peninsula south of the wave pool and will include locations for shore fishing.

Channel enhancement will take place in the coastal marsh south of the boat launch. These channels will enhance the water trail connectivity and extend the length of the water trail and shallow water habitat (*Attachment E, page 11*). Shallow pools and channels will be dredged to a minimum of three-feet below ordinary high-water level. These projects are part of the Metroparks strategic master plan for Lake Erie Metropark, which was approved by the Board at its regular meeting on Feb. 8, 2018.

**Attachments:** Agreement Letter  
 Grant Agreement  
 Work Plan  
 Budget  
 Project Narrative



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Ann Arbor, Michigan 48108-5203  
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**EXECUTIVE DIRECTOR**  
**Darren Nichols**

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August 28<sup>th</sup>, 2018

Ms. Amy McMillan  
Director  
Huron-Clinton Metropolitan Authority  
13000 High Ridge Dr.  
Brighton, MI 48114-9058

Dear Ms. McMillan:

Attached please find the agreement (GLC-3528) between the Great Lakes Commission and the Huron-Clinton Metropolitan Authority (HCMA) to provide \$1,449,608 in support of the Lake Erie Metropark project on HCMA owned property along Lake Erie. In signing this agreement, HCMA agrees to provide a minimum cost-share contribution of \$135,194 during the project period. The agreement is signed by the Great Lakes Commission Deputy Director Tom Crane. The attachments to this agreement have been provided via email. If you have any questions, please feel free to reach out to me.

Upon approval, please print, sign and date two copies of the agreement, keep one for your files and return one to:

Eric Ellis  
Senior Program Specialist  
Great Lakes Commission  
2805 South Industrial Hwy. Suite 100  
Ann Arbor, MI 48104-6791

Thank you for your assistance. We look forward to working with you on this important project.

Sincerely,

Eric Ellis  
Senior Program Specialist

Encl.

Great Lakes Commission

Huron-Clinton Metropolitan  
Authority

**NOAA St. Clair-Detroit River System Coastal Restoration Initiative  
Subrecipient Agreement  
Lake Erie Metropark Restoration Project  
GLC-3528**

**THIS AGREEMENT** (“Agreement”), is made and entered into by and between the Great Lakes Commission (“Commission”) and the **Huron-Clinton Metropolitan Authority** (“Subrecipient”), both sometimes hereinafter collectively referred to as the “Parties,” and is effective on the date of the last party to sign it.

WHEREAS, the Commission is the recipient of federal funding from the National Oceanic and Atmospheric Administration (NOAA), awarded on **08/03/2018**, pursuant to U.S. Department of Commerce Award #NA18NMF4630293 (**Attachment I**) entitled “St. Clair-Detroit River System Coastal Restoration Initiative” (“Cooperative Agreement”). Pursuant to the Cooperative Agreement, the Commission will, with the support of other Subrecipients (also referred to as “Cooperators”), implement coastal habitat restoration projects along the St. Clair-Detroit River System (SCDRS) in the coastal counties of southeast Michigan (hereinafter “NOAA Restoration Projects”); and

WHEREAS, Subrecipient desires to partner with the Commission and Cooperators to effectuate a Habitat Restoration Project as more specifically identified in **Attachment A**, entitled HCMA Lake Erie Metropark Project Work Plan and Schedule (“Restoration Project”) subject to and in accordance with the terms of this Agreement and the NOAA Habitat Restoration Project Contract Documents as defined below.

NOW, THEREFORE, in consideration of the mutual benefits to be derived herefrom, the Commission and Subrecipient agree as follows:

**I. PROJECT DESCRIPTION AND SCOPE OF WORK**

- A. Subrecipient shall provide the necessary personnel, facilities, equipment, materials and data to perform the work in accordance with the terms and conditions set forth in this Agreement, **Attachment A** (HCMA Lake Erie Metropark Project Work Plan and Schedule), and all attachments and exhibits named or referenced in this Agreement.
- B. Subrecipient shall comply with the provisions of the award, including applicable provisions of the OMB Uniform Guidance (2 CFR 200), and all associated terms and conditions, attachments and exhibits set forth in Section VIII below.
- C. Subrecipient’s services shall be performed expeditiously with professional skill and care ensuring the orderly progress of the Restoration Project and Project Work Plan and Schedule. Time limits established in the Project Work Plan and Schedule shall not, except for reasonable cause, be exceeded by the Subrecipient.
- D. Subrecipient shall perform all work and services in a manner consistent with or exceeding the professional standards customarily governing such services and shall observe the highest degree of care and skill as is generally exercised by members of the applicable profession in the same locale as the project herein acting under similar circumstances and conditions. The Parties acknowledge they will act in good faith in carrying out their duties and obligations.

- E. SUBCONTRACTING. Subrecipient agrees to follow the requirements of 2 CFR 200.318 (“General procurement standards”) through 200.326 (“Contract provisions”). This includes the requirement that non-Federal entities maintain written standards of conduct covering conflicts of interest and governing the performance of their employees engaged in the selection, award, and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. In addition to other provisions of the award and those required by the Commission, in accordance with 2 CFR 200.326 (“Contract provisions”), all contracts made by the Subrecipient under this award must contain the applicable provisions set out at 2 CFR Part 200, Appendix II, “Contract Provisions for Non-Federal Entity Contracts Under Federal Awards,” which address various contractual requirements including remedies, termination for cause and convenience, Equal Employment Opportunity, the Contract Work Hours and Safety Standards Act, rights to inventions, environmental quality, energy efficiency, debarment and suspension, the Byrd Anti-Lobbying Amendment, and procurement of recovered materials. The Subrecipient further agrees to include in all contracts the attachments and exhibits set forth in Section VIII.
- F. COMPLIANCE WITH LAWS. Subrecipient shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work under this Agreement, consistent with 2 CFR 200.300. Subrecipient shall comply with the requirements of all current and applicable Federal, State and local codes applicable thereto, together with all codes, rules, regulations or other requirements of the public utilities having jurisdiction over the work herein and shall be subject to inspection and approval of the authority having jurisdiction thereof. Subrecipient shall specifically comply with the requirements of the laws, regulations, orders and directives set forth in the NOAA Financial Assistance Administrative Terms (**Attachment B**), the Department of Commerce Financial Assistance Standard Terms and Conditions (**Attachment C**), and the NOAA Special Award Conditions for Award # NA18NMF4630293 (**Attachment F**).
- i. Subrecipient is responsible for obtaining all necessary Federal, state and local government permits and consultations applicable to the proposed work to be conducted prior to the expenditure of funds for those activities requiring permits. This includes, but is not restricted to, consultations required under the Endangered Species Act, Magnuson-Stevens Fishery Conservation and Management Act (Essential Fish Habitat), National Historic Preservation Act, and Coastal Zone Management Act.
  - ii. Subrecipient shall work with the Commission to provide the NOAA Technical Monitor with a list of required Federal, tribal, state, and local permits prior to the receipt of the federal funds, including estimated dates for receipt of such permits. Subrecipient shall notify the Commission with the date that each required federal and state permit or compliance document is obtained or approved, and work with the Commission to present verification of permits and regulatory compliance to the NOAA Technical Monitor prior to project implementation.
  - iii. Subrecipient, its agents, designees and/or subcontractors shall immediately halt activities and contact the Commission and the NOAA Technical Monitor

if events occur that threaten to violate the conditions or restrictions required by the Restoration Project's permits and and/or authorizations.

- iv. Subrecipient agrees that it alone shall be responsible for the safety of its representatives while performing any services hereunder and will familiarize itself with any hazards it may encounter in prosecuting its work hereunder. Subrecipient agrees to comply with all applicable federal, state, municipal and local laws, rules, ordinances and requirements concerning health, safety, and training with respect to Subrecipient's work hereunder, including the Federal Occupational Safety and Health Act of 1970, as amended under 29 CFR 1910 et seq., and all standards, rules, regulations and orders which have been or shall be adopted or issued thereunder, and with any safety standards or requirements established by the Commission. Subrecipient, its agents, designees and subcontractors shall have a written safety plan which specifically addresses the safety of all project personnel, associates, visitors, and volunteers. The plan should consider safety in and around the sites during and after project construction and take into account potential safety concerns with regard to current and future use of the sites. Subrecipient, its agents, designees and subcontractors shall require all volunteers to sign a liability release waiver in form acceptable to the Commission. Subrecipient, shall also conduct a safety briefing for all Restoration Project participants immediately prior to the involvement in hands-on restoration activities under this Restoration Project. Pursuant to Executive Order 13043, Subrecipient shall require employees and subcontractors to enforce on-the-job seat belt policies and programs when operating company-owned, rented or personally-owned vehicles.
- v. Subrecipient's failure to comply with the provisions of the award may be considered grounds for appropriate enforcement action pursuant to 2 CFR 200.338 ("Remedies for noncompliance"), including but not limited to: the imposition of additional award conditions in accordance with 2 CFR 200.207 ("Specific conditions"); temporarily withholding award payments pending the correction of the deficiency; the disallowance of award costs and the establishment of an accounts receivable; wholly or partially suspending or terminating the award; initiating suspension or debarment proceedings in accordance with 2 CFR parts 180 and 1326; and such other remedies as may be legally available. See also 2 CFR 200.339 ("Termination") through 200.342 ("Effects of suspension and termination"). In addition, the failure to comply with the provisions of the award may adversely impact the availability of funding under other active Federal awards and may also have a negative impact on a Subrecipient's eligibility for future Federal awards.

## **II. TERM OF AGREEMENT**

- A. This Agreement shall be effective for the period commencing on October 1, 2018 and ending September 30, 2021 (hereinafter referred to as the "Project Expiration Date") unless terminated sooner as provided in this Agreement.
- B. The Subrecipient acknowledges that it is liable for fulfilling all contractual obligations even if obligations occur after the expiration of the Project Expiration Date.

### III. FUNDING, ALLOCABLE EXPENSES AND REIMBURSEMENT PROCEDURES

- A. **FUNDING.** As consideration for the services rendered by the Subrecipient pursuant to the terms of this Agreement, the Commission shall pay Subrecipient on a cost reimbursement basis an amount not to exceed the costs allocated in **Attachment D** (Line Item Budget) for all eligible project costs, upon the completion, submittal and approval of the deliverables and requests for disbursement/reimbursement as identified in and in the format as set forth in **Attachments D and A**. To the extent this Restoration Project requires a cost sharing or match on the part of the Subrecipient, final payment will not be processed until the match requirement has been met. All cost sharing/match shall meet applicable federal requirements. Subrecipient acknowledges the costs and expenses allocated in **Attachment D** shall represent all amounts due by the Commission to Subrecipient under this Agreement, and the Commission is liable to Subrecipient contingent upon and only to the extent of actual funds actually received by the Commission from the U. S. Department of Commerce. Receipt of any prospective funding is contingent upon the availability of funds from Congress, satisfactory performance, continued relevance to program objectives, and will be at the sole discretion of the Department of Commerce. The Department of Commerce and the Commission are not liable for any obligations, expenditures, or commitments which involve any amount in excess of the Federal amount presently available. Subrecipient will be responsible for any and all termination costs it may incur should prospective funding not become available. No legal liability will exist or result on the part of the Federal Government or the Commission for payment of any portion of the remaining funds which have not been made available under the award.
- B. **ELIGIBLE EXPENSES.** In order for a cost to be eligible for reimbursement hereunder, the cost must be reasonable and allocable as set forth in **Attachment A** HCMA Lake Erie Metropark Project Work Plan and Schedule and cost principles and requirements applicable to the organization incurring the costs, including those set forth in the *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (“OMB Uniform Guidance,” 2 CFR 200), and all associated terms and conditions of the award (attachments and exhibits set forth in Section VIII).
- C. **INDIRECT COSTS.** Subrecipient shall ensure that the Commission has a current Negotiated Indirect Cost Rate Agreement (NICRA) agreement for the Subrecipient on file at all times during the project period. Subrecipient shall be approved to recover indirect costs at the approved NICRA rate in effect at the time the eligible costs are incurred by the Subrecipient, subject to the limitations specified in the approved NICRA and any other applicable statutory limitations set by the funding program authorization. If the funding program provides for ceilings on indirect cost rates or reimbursement amounts higher than the Subrecipient’s NICRA rate in effect, the NICRA rate will be used to determine the maximum allowable indirect cost to be recovered by Subrecipient.

If Subrecipient does not have a current approved NICRA from its cognizant agency, Subrecipient may elect to negotiate a rate with the Commission or charge a de minimis rate of 10 percent of modified total direct costs, as defined by 2 CFR 200.414 (“Indirect (F&A) costs”), for the period of this Agreement or until Subrecipient obtains an approved NICRA.



If Subrecipient chooses to deviate from the NICRA in effect to recover a lesser indirect rate, Subrecipient must acknowledge the deviation by signing and submitting a copy of the Sample Deviation from the Negotiated Indirect Cost Rate Agreement Letter (**Attachment G**) to the Commission. Failure to comply with these provisions may be considered grounds for appropriate enforcement action pursuant to 2 CFR 200.338 (“Remedies for noncompliance”).

- D. **REIMBURSEMENT PROCEDURES.** Subrecipient shall submit reimbursement requests in accordance with forms and guidelines provided by the Commission within fifteen (15) days of the end of each calendar month in which services are performed or expenses incurred under this Agreement. The Commission will remit payments to Subrecipient within 30 days of the Commission's review and approval of such request and receipt of appropriate documentation. The Commission is not responsible for payments delayed due to incomplete or late reporting on the part of the Subrecipient.

No reimbursements outside of the above referenced monthly schedule will be allowed unless Subrecipient obtains prior written authorization from an authorized agent of the Commission before any such unscheduled reimbursable expenses are incurred. Travel reimbursement will be made for actual reasonable out of pocket expenses and not on a per diem allowance.

All reimbursable expenses must be incurred and project tasks must be completed by no later than September 30, 2021. The Commission shall not have any obligation for payments to Subrecipient for activities undertaken by the Subrecipient that are not performed within or for costs incurred outside the specified period identified under Section II.A., above, unless prior authorization is specifically obtained in writing from the Commission. Match expenses accrued outside this specified period will similarly not be considered. Final invoices for services performed under this Agreement must be submitted by the Subrecipient to the Commission prior to November 15, 2021.

- E. **BUDGET TRANSFERS.** Subrecipient shall not make changes to the budget or transfers between line items unless approved in advance, in writing, by the Commission.
- F. **TAX REFUND.** Refunds of FICA/FUTA taxes received by Subrecipient, its agents or designees during or after the award period must be refunded or credited to Department of Commerce where the benefits were financed with federal funds under the award. Subrecipient, its agents and designees shall contact the Commission immediately upon receipt of these refunds and to refund portions of FICA/FUTA taxes determined to belong to the Federal Government, including refunds received after the award end date.
- G. **INELIGIBLE EXPENSES.** The Commission may withhold or suspend payments if expenses are deemed ineligible at any time under this Agreement or if Subrecipient fails to maintain the proper financial and progress reporting schedule as set forth in this Agreement.

#### **IV. REPORTS, CERTIFICATIONS AND PLANS**

Subrecipient shall submit those reports, certifications and plans to the Commission in the manner and timing as required by NOAA and **Attachment A**, HCMA Lake Erie Metropark Work Plan and Schedule. Subrecipient understands that in order for the Commission to meet its obligations to NOAA, accurate and timely submission of reports, certifications and plans by

Subrecipient is necessary. To that end, Subrecipient shall provide the Commission with its share of the required reporting information pertaining to activities conducted by Subrecipient, its agents and designees in strict accordance with the schedule(s) as set forth by the Commission. By submitting any such report to the Commission, Subrecipient thereby attests to the completeness, accuracy and truthfulness of the information so submitted.

## V. AUDIT REQUIREMENTS

- A. Under the Inspector General Act of 1978, as amended, 5 U.S.C. App. 3, § 1 et seq., an audit of the award may be conducted at any time. The Inspector General of the DOC, or any of his or her duly authorized representatives, shall have access to any pertinent books, documents, papers, and records of the recipient, whether written, printed, recorded, produced, or reproduced by any electronic, mechanical, magnetic, or other process or medium, in order to make audits, inspections, excerpts, transcripts, or other examinations as authorized by law. When the DOC Office of Inspector General (OIG) requires a program audit on a DOC award, the OIG will usually make the arrangements to audit the award, whether the audit is performed by OIG personnel, an independent accountant under contract with DOC, or any other Federal, State, or local audit entity.
- B. Notwithstanding any audit which may be conducted in accordance with paragraph A above, in accordance with OMB Uniform Guidance (2 CFR 200), which implements the Single Audit Act, the Subrecipient hereby agrees to obtain a single audit from an independent auditor if it expends **\$750,000 or more in total Federal funds in any fiscal year**. Within nine months after the end of the Subrecipient's fiscal year or 30 days after receiving the report from the auditor, the Subrecipient shall submit the SF-SAC and a Single Audit Report Package using the Federal Audit Clearinghouse's Internet Data Entry System (see <http://harvester.census.gov/fac/>), and provide an additional copy to the Commission.
- C. Subrecipient shall maintain books, records and documents directly pertinent to performance under this Agreement in accordance with generally accepted accounting principles consistently applied and in accordance with the terms and time periods outlined in 2 CFR 200.333. These files must contain, at a minimum, project work plans and copies of all federal and state permits/consultations associated with project implementation.
- D. Subrecipient agrees that if any litigation, claim, or audit is started before the expiration of the record retention period established above, the records shall be retained until all litigation, claims or audit findings involving the records have been resolved and final action taken.
- E. The Commission, NOAA and their authorized representatives, shall at all reasonable times during normal business hours during the term of this Agreement and for three (3) years following Agreement completion and or termination, have the right to inspect, audit, and reproduce all records, books, documents, correspondence, instruction, drawings, receipts, vouchers, memoranda, similar data and other evidence, and accounting procedures in any manner relating to this Agreement, and the work performed and services rendered thereunder. The Commission may demand, and Subrecipient shall be required to deliver, forthwith, such additional records, accounts, summaries, and supporting documents as Commission in its sole discretion may deem appropriate.

## VI. NOTICES

All notices under this Agreement shall be effective upon receipt at the addresses set forth below if sent by certified mail, postage prepaid, with return receipt requested, by recognized overnight delivery service, by hand delivery or by confirmed telecopy transmission.



IF TO THE COMMISSION:

Mr. Thomas R. Crane  
Deputy Director  
Great Lakes Commission  
1300 Victors Way, # 1350  
Ann Arbor, MI 48108-5203

IF TO SUBRECIPIENT:

Amy McMillan  
Director  
Huron-Clinton Metropolitan Authority  
13000 Highridge Dr.  
Brighton, MI, 48114

**VII. DEFAULT, SUSPENSION AND TERMINATION**

- A. The Commission may terminate this Agreement, at any time in the event of the failure of the Subrecipient to fulfill any of its obligations under this Agreement after having been thirty (30) calendar days written notice of and reasonable basis for the Commission's intent to terminate and Subrecipient's failure to cure such deficiencies or defaults within such thirty (30) day period. The Commission's selection of one or more remedies for breach of this Agreement shall not limit the Commission's right to invoke any other remedy available to the Commission under this Agreement or by law, including but not limited to temporary suspension of the Restoration Project work, withholding of payments and/or require reimbursement of funds previously paid.
- B. The Commission may unilaterally terminate this Agreement for convenience by providing the Subrecipient with thirty (30) calendar days written notice. Upon receipt of such notice, no new or additional liabilities payable by the Commission shall be incurred without the prior written approval of the Commission. Subrecipient shall continue to be responsible and liable for the proper performance of its obligations through the date of termination.

**VIII. AGREEMENT ATTACHMENTS**

The documents described below are hereinafter collectively referred to as the "Project Documents" and are included and incorporated into this Agreement and shall be binding upon Subrecipient as part of this Agreement. In the event a conflict occurs between the terms of an Attachment and this Agreement, the terms of this Agreement shall control with respect to such conflict, unless Federal regulations provide otherwise.

The Project Documents consist of:

**This Agreement**

- Attachment A:** HCMA Lake Erie Metropark Project Work Plan and Schedule
- Attachment B:** NOAA Financial Assistance Administrative Terms
- Attachment C:** Department of Commerce Financial Assistance Standard Terms and Conditions
- Attachment D:** HCMA Lake Erie Metropark Line Item Budget
- Attachment E:** NOAA - GLC Project Narrative
- Attachment F:** NOAA Special Award Conditions for # NA18NMF4630293
- Attachment G:** Sample Deviation from the Negotiated Indirect Cost Rate Agreement Letter

**Attachment H:** HCMA FFATA Reporting Form

**Attachment I:** U.S. Department of Commerce Award # NA18NMF4630293

## **IX. INSURANCE**

- A. Subrecipient represents that it and any of its subcontractors now carries and shall continue during the term of this Agreement and for three (3) years thereafter, to carry, with such insurers and under such forms or policies as are acceptable to the Commission insurance with at least the following provisions, coverages and limits:

<u>Workers Compensation</u>	<u>Statutory</u>
Employer's Liability	
Each accident	\$1,000,000
Disease (policy limit)	\$1,000,000
Disease (each employee)	\$1,000,000
Commercial General Liability	\$1,000,000
premises operations	General Aggregate
products/completed operations	
(one year after completion)	
blanket contractual liability	
broad form property damage	
personal injury	
independent contractors	
Automobile Liability	\$1,000,000
(owned, hired or non owned vehicles)	Combined Single Limit
Excess Liability Coverage	\$1,000,000
Professional Liability, including	
Design/Build Liability*	\$2,000,000
	per claim
Contractors Pollution Liability*	\$2,000,000
	Combined Single Limit

The Comprehensive General Liability and Automobile Liability policies shall contain cross liability endorsements.

\* Upon approval of the Commission, such coverages may be provided by Subrecipient's subcontractors or consultants.

- B. The Commission, its subsidiaries, divisions and affiliated entities shall be listed as additional insureds on the Comprehensive General Liability policy and Business Automobile Liability Policy as set forth below.

"GREAT LAKES COMMISSION, ITS SUBSIDIARIES AND AFFILIATES ARE NAMED AS ADDITIONAL INSURED AS THEIR INTERESTS MAY APPEAR."

- C. Prior to commencement of any Work hereunder, Subrecipient shall furnish the Commission with a copy of any applicable policies and/or Certificates of Insurance or other documentation as requested by the Commission evidencing the above coverage. Within the sixty (60) days' notice of termination, cancellation, expiration, in any policy of insurance required under this Agreement, Subrecipient shall deliver to the Commission a copy of any applicable policies and/or a Certificate of Insurance acceptable to the Commission with respect to any replacement policy.
- D. The policies shall provide that the Commission shall be given sixty (60) days prior written notice in event of cancellation or material change in coverage. Subrecipient shall not start any work until certificates of insurance are provided to the Commission. If any of the policies required under this Agreement are furnished with a deductible clause and an amount designated therefore, Subrecipient will incur, absorb, defray and pay the amount of such deductible.

#### **X. INDEMNIFICATION**

- A. To the fullest extent permitted by law, Subrecipient agrees to defend, save, hold harmless and indemnify the Commission, its representatives, employees, agents, officers, directors, and shareholders against and from any and all liabilities, obligations, penalties, costs, claims, injuries (including death), demands, damages, expenses and losses, including, but not limited to, attorney fees, consultant fees and expert witness fees, arising in whole or in part out of any act, error or omission of Subrecipient, including, but not limited to: a) any negligent or tortious act, error, or omissions of Subrecipient, or any of its representatives, agents or employees; b) any failure by Subrecipient, or any of its representatives, agents or employees to perform their obligations, either express or implied under this agreement; or c) any failure by Subrecipient, or any of its representatives, agents, or employees to comply with any applicable local, state, or federal ordinance, statute, rule, regulation or requirement including any permit or license issued thereunder which governs or applies to the work under this Agreement. The parties understand and agree, however, that Subrecipient is not an insurer of the Restoration Project and shall have no responsibility or liability for impacts resulting from the completed Restoration Project unless and to the extent of the a) negligent or tortious act, error, or omissions of Subrecipient, or any of its representatives, agents or employees; b) failure by Subrecipient, or any of its representatives, agents or employees to perform their obligations, either express or implied under this agreement; or c) any failure by Subrecipient, or any of its representatives, agents, or employees to comply with any applicable local, state, or federal ordinance, statute, rule, regulation or requirement including any permit or license issued thereunder which governs or applies to the work under this Agreement.
- B. Subrecipient understands and agrees that the Commission's only obligation with respect to Subrecipient in connection with the Restoration Project is to provide funding as set forth herein and the Commission shall have no other liability to or on behalf of Subrecipient.

#### **XI. MISCELLANEOUS**

- A. **INDEPENDENT CONTRACTOR STATUS.** Subrecipient is engaged by the Commission solely for the purposes and to the extent set forth in this Agreement, and Subrecipient's relationship to the Commission shall at all times be that of an independent contractor. Subrecipient shall not be deemed for any purposes whatsoever

to be an agent of the Commission and shall have no authority to represent the Commission or to enter into or to accept any offers, contracts or agreements on behalf of the Commission, except as authorized in writing by the Commission. Subrecipient further acknowledges and agrees that Subrecipient shall not be entitled to participate in any health insurance, pension plan, profit sharing plan, stock or any other benefits of the Commission. The Commission is interested only in the results to be achieved by Subrecipient, and the conduct and control of the work of Subrecipient hereunder shall lie with Subrecipient. Subrecipient shall have complete control over the procedures employed with respect to all Restoration Project work to be performed by Subrecipient.

- B. **QUALITY ASSURANCE PROJECT PLAN.** Subrecipient shall be required to submit a Quality Assurance Project Plan (QAPP) if it is deemed necessary for a QAPP to be part of the Restoration Project. Subrecipient will notify the Commission and update the QAPP as procedures are developed and/or changed during the duration of the award.
- C. **INVASIVE SPECIES CONTROL.** Pursuant to Executive Order # 13112, the Subrecipient cannot implement any actions that are likely to cause or promote the introduction or spread of invasive species, and should provide for restoration of native species and habitat conditions in ecosystems that have been invaded. Subrecipient is expected to take positive steps to prevent the introduction of invasive species, provide for control of invasive species, and minimize the economic, ecological, and human health impacts that invasive species cause. Where possible and/or practicable, Subrecipient should also respond rapidly to and control populations of invasive species in an environmentally sound manner, promote public education on invasive species, and conduct post-construction monitoring to ensure that impacts on native species did not occur (as applicable). The Commission and/or NOAA can provide additional guidance on the detection, control and prevention of invasive species impacts upon request.
- D. **CONFIDENTIALITY OF DATA AND INFORMATION.** Subject to any obligation Subrecipient may have to disclose pursuant to any applicable state and/or federal Freedom of Information Act, Subrecipient, its agents, designees and subcontractors shall keep confidential and not disclose to any person and/or entity, other than Subrecipient employees and subcontractors, if appropriate, any data and information not previously known to and generated by the Subrecipient or furnished by the Subrecipient. These provisions shall not apply to information in whatever form that comes into the public domain, nor shall it restrict the Subrecipient from giving notices or disclosing information required by law or complying with an order to provide information or data when such order is issued by a court, administrative agency, or other authority with proper jurisdiction, or if it is reasonably necessary for the Subrecipient to defend itself from any suit or claim. Subrecipient also understands and agrees that data, materials, and information disclosed to the Commission may be confidential and protected. Therefore, Subrecipient promises and assures that data, material and other information gathered, based upon or disclosed to the Commission for the purpose of this Agreement, will not be disclosed to others or discussed with other parties without the prior written consent of the authorized agent of the Commission, except as provided above.
- E. **OUTREACH AND COMMUNICATION.** Subrecipient, its agents and designees agree to coordinate with the Commission for all outreach plans, events, products and media coverage associated with the Restoration Project so that the Commission and/or

NOAA Communications staff may assist with the development of outreach communications and messaging. Subrecipient should provide drafts of any outreach plans to the Commission for review and input. In particular, all press releases should be shared with the Commission in draft at least one week in advance of release to allow the Commission and/or NOAA the opportunity to provide comments, and a quote if requested. Subrecipient will provide copies of final outreach products, website mentions, press materials, photos, etc., via progress reports to the Commission, or when available throughout the agreement period. Subrecipient will provide the Commission with high-resolution before, during, and post-implementation photos of the project. Photos of the site prior to construction and during project implementation should be submitted with progress reports or as requested by the Commission. (See Item 15 of **Attachment F**, NOAA Special Award Conditions, for more details.)

- F. **ACKNOWLEDGEMENT OF PROJECT CONTRIBUTORS.** Outreach materials and all communications with the media and the public should refer to the project as the "St. Clair-Detroit River System Coastal Restoration Initiative" and should acknowledge other Cooperators. Subrecipient also agrees that where appropriate and practical, they will erect publicly visible signs indicating that the project has received funding through the NOAA Restoration Center and the Great Lakes Restoration Initiative, and which also identifies other Cooperators. (See Item 13 of **Attachment F**, NOAA Special Award Conditions, for more details.) Subrecipient, on behalf of itself and its agents and designees, understands and agrees that every publication of material (including Internet sites and videos) based on or developed under the Project, except scientific articles or papers appearing in scientific, technical or professional journals, will contain the disclaimer stated in Section G.05.j.3 of **Attachment C**, Department of Commerce Financial Assistance Standard Terms and Conditions.
- G. **MONITORING.** To evaluate project implementation quality and effectiveness, and learn from this Restoration Project, the Subrecipient will execute appropriate project monitoring with guidance from the Commission and NOAA. As the project proceeds, the Commission and NOAA's substantial involvement will include further coordination to execute implementation, basic effectiveness monitoring, and potentially more detailed effectiveness monitoring, if applicable. The Subrecipient will collaborate with the Commission and NOAA to identify monitoring elements such as parameters, methods, sampling duration and frequency, and post-implementation targets. The Commission and NOAA's involvement will also include ongoing coordination on data management, analyses, and dissemination of results. The Subrecipient will develop a data/information sharing plan, and submit appropriate monitoring information with progress reports, as well as at other appropriate times. Templates for the data/information sharing plan and other monitoring related guidance are provided at <https://www.habitat.noaa.gov/national/habitat-conservation/monitoring-and-evaluation-restoration-projects/>. (See Item 4 of **Attachment F**, NOAA Special Award Conditions, for more details.)
- H. **PUBLIC ACCESS TO RESEARCH RESULTS.** Environmental data collected or created under this agreement will be made publicly visible and accessible in a timely manner free of charge or at minimal cost that is no more than the cost of distribution to the user, except where limited by law, regulation, policy or national security requirements. Data are to be made available in a form that would permit further analysis or reuse: data must be encoded in a machine-readable format, preferably using existing open format standards; data must be sufficiently documented, preferably using open metadata standards to enable users to independently read and understand the data.

Pursuant to NOAA Information Quality Guidelines ([http://www.cio.noaa.gov/services\\_programs/IQ\\_Guidelines\\_103014.html](http://www.cio.noaa.gov/services_programs/IQ_Guidelines_103014.html)), data should undergo quality control (QC) and a description of the QC process and results should be referenced in the metadata. Failure to perform quality control does not constitute an excuse not to share data. Data without QC are considered “experimental products” and their dissemination must be accompanied by explicit limitations on their quality or by an indicated degree of uncertainty. (See Item 14 of **Attachment F**, NOAA Special Award Conditions, for more details.)

- i. Timeliness: Data accessibility must occur no later than publication of a peer-reviewed article based on the data, or two years after the data are collected and verified, or two years after the original end date of the grant (not including any extensions or follow-on funding), whichever is soonest, unless a delay has been authorized by the NOAA funding program.
  - ii. Disclaimer: Data produced under this agreement and made available to the public must be accompanied by the following statement: "These data and related items of information have not been formally disseminated by NOAA, and do not represent any agency determination, view, or policy."
  - iii. Failure to Share Data: Failing or delaying to make environmental data accessible in accordance with the submitted Data Management Plan, unless authorized by the NOAA Program, may lead to enforcement actions, and will be considered by NOAA when making future award decisions. Funding recipients are responsible for ensuring these conditions are also met by sub-recipients and subcontractors.
  - iv. Funding acknowledgement: Federal funding sources shall be identified in all scholarly publications. An Acknowledgements section shall be included in the body of the publication stating the relevant Grant Programs and Award Numbers. In addition, funding sources shall be reported during the publication submission process using the FundRef mechanism (<http://www.crossref.org/fundref/>) if supported by the Publisher.
  - v. Manuscript submission: The final pre-publication manuscripts of scholarly publications produced with NOAA funding shall be submitted to the NOAA Institutional Repository at <http://library.noaa.gov/repository> after acceptance, and no later than upon publication, of the paper by a journal. NOAA will produce a publicly-visible catalog entry directing users to the published version of the article. After an embargo period of one year after publication, NOAA shall make the manuscript itself publicly visible, free of charge, while continuing to direct users to the published version of record.
  - vi. Data Citation: Publications based on data, and new products derived from source data, must cite the data used according to the conventions of the Publisher, using unambiguous labels such as Digital Object Identifiers (DOIs). All data and derived products that are used to support the conclusions of a peer-reviewed publication must be made available in a form that permits verification and reproducibility of the results.
- I. NEPA DOCUMENTATION AND RESTRICTED AVAILABILITY OF FUNDS. By accepting this award, the Subrecipient agrees to assist and cooperate with NOAA

Fisheries in the preparation of any outstanding National Environmental Policy Act (NEPA) compliance documentation. For purposes of NEPA compliance, Phase 1 of the current project includes project design, permitting, outreach, and baseline monitoring. At this time, \$75,000 is available to the Subrecipient to complete Phase 1 tasks outlined above that have not adverse impacts on the environment. The Subrecipient will not expend any funds for Phase 2 project implementation (including earthenwork, mobilization, planting, monitoring, outreach, or maintenance) until impacts have been assessed, and NEPA compliance documentation has been completed by NOAA. Additional projects that are funded under this partnership will undergo NEPA compliance as they are selected. (See Item 19 of **Attachment F**, NOAA Special Award Conditions, for more details.)

- J. CLIMATE CHANGE EMISSIONS MINIMIZATION/REDUCTIONS. NOAA encourages (i) minimization and reduction, where possible, of greenhouse gas emissions resulting from activities carried out pursuant to this Agreement and (ii) the tracking of the reduction of greenhouse gas emissions through these activities.
- K. DEBARMENT/SUSPENSION. These funds are subject to Subpart C of 2 CFR, Part 180, "OMB Guidelines to Agencies on Government-wide Debarment and Suspension (Nonprocurement)." The Subrecipient certifies that neither it, nor its principals or contractors, is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from federal financial assistance programs or activities. The Subrecipient agrees to determine whether any potential contractors are debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from federal financial assistance programs or activities immediately prior to signing a contract with them.
- L. LOBBYING. These funds are subject to 31 USC, Part 1352, as implemented at 15 CFR, Part 28 "New Restrictions on Lobbying." The Subrecipient shall submit a completed "Disclosure of Lobbying Activities" (Form SF-LLL) regarding the use of non-federal funds for lobbying within 15 days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed.
- M. PAYMENT OF TAXES. The Subrecipient shall pay all applicable federal, state, and local taxes and shall require their payment by any subcontractor or any other persons in the performance of this project.
- N. TRANSPARENCY ACT REPORTING. Pursuant to the Federal Funding Accountability and Transparency Act (FFATA) of 2006, all Commission subrecipients are required to report applicable information to the Commission as requested. At the time of signature of this Agreement, return a completed copy of the FFATA Reporting Form provided as **Attachment H** to the Commission.
- O. DISPUTE RESOLUTION. Both the Commission and Subrecipient agree herein to a good faith commitment to resolve any disputes over the interpretation of the terms of this Agreement, or in the design or construction of Restoration Project. Failing such efforts, the parties shall be entitled to submit to a court of competent jurisdiction in the state of Michigan as provided herein.
- P. MODIFICATIONS AND AMENDMENTS. This Agreement may not be modified or amended, nor may any term or provision be waived or discharged, including this

particular paragraph, except in writing signed by both parties, provided however, the Commission reserves the right to unilaterally modify the Agreement to bring it in accordance with terms required by NOAA, another federal entity or applicable law.

- Q. TRANSFERABILITY OR ASSIGNMENT. Except as specifically set forth in this Agreement, Subrecipient may not transfer, pledge, mortgage or otherwise assign the value of the Restoration Project or this Agreement, or any interest therein, or any claim arising thereunder, to any party or parties, banks, trust companies, or other financing or financial institutions without the express written approval of the Commission.
- R. CONFLICT OF INTEREST. Subrecipient will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest or personal gain.
- S. INTELLECTUAL PROPERTY. Subrecipients are subject to applicable regulations governing patents and inventions, including government-wide regulations issued by the Department of Commerce at 37 CFR, Part 401, "Rights to Inventions Made by Non-profit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements."
- T. MERGER CLAUSE. This Agreement, together with all Attachments, Exhibits and referenced documents set forth the entire agreement between the Commission and Subrecipient and supersedes and annuls all prior agreements, contracts, promises, understandings or representations, or any nature, made at any time between the parties relating to the subject matter of this Agreement. No subsequent agreements, contracts, promises or representations of any nature shall be binding and effective between the parties unless set forth in writing and signed by both the Commission and Subrecipient except as specifically provided herein.
- U. SURVIVAL. The parties understand and agree that all terms and conditions of this Agreement, together with the exhibits and attachments hereto, which by reasonable implication, contemplate continued performance or compliance beyond the termination of the Agreement, (by expiration of the term or otherwise), shall survive such termination and shall continue to be enforceable as provided herein. Without limiting the generality of the foregoing, the Subrecipient's obligations for the provision of insurance and to indemnify the Commission shall survive for a period equal to any and all relevant statutes of limitation, plus the time necessary to fully resolve any claims, matters, or actions begun within that period.
- V. GOVERNING LAW. The laws of the State of Michigan shall govern the validity, performance and enforcement of this Agreement and the Parties specifically agree that notwithstanding the venue provisions of the Revised Judicature Act of 1961, suit, if any, may at the option of a Party hereto first filing such suit, be brought in the state courts located in either the county of Washtenaw or Livingston, Michigan and/or the federal courts in such counties or the closest county in proximity thereto.
- W. SUCCESSORS AND ASSIGNS. This Agreement shall be binding upon and inure to the benefit of each of the parties and their respective, legal representatives, successors and assigns.
- X. SEVERABILITY. In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any



respect, that invalidity, illegality or unenforceability shall not affect any other provision of this Agreement, and this Agreement shall be construed as if the invalid, illegal or unenforceable provision had never been contained within the body of this Agreement.

- Y. SIGNATURES AND COUNTERPARTS. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.
- Z. HEADINGS. The paragraph headings herein are for reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement, nor are they deemed to constitute a part of this Agreement.
- AA. FORCE MAJEURE. Neither of the parties hereto will be liable for damages for any delay or default in performance during the term hereof if such delay or default is caused by conditions beyond its control, including, but not limited to, acts of God, government restrictions, continuing domestic or international problems such as wars, threats of terrorism, or insurrections, strikes, fires, floods, work stoppages, and embargoes.
- BB. WAIVER. Waiver of any provision of this Agreement must be in writing to be effective. Waiver by the Commission of any breach by the Subrecipient of any provision of this Agreement on any occasion shall not constitute or operate as a waiver of breach of such provision on any other occasion nor a waiver of any breach of other provisions, nor shall any failure to enforce any provision operate as a waiver of such provision hereof by the Commission.
- CC. DAVIS-BACON ACT. Subrecipient and its contractors will be exempt from enforcing the Davis-Bacon prevailing wages requirement as directed by the Federal program legislation for this award. Subrecipient must comply with all State and local prevailing wage requirements, if applicable, in accordance with Section I Item F referenced in this Agreement.

## **XII. AUTHORITY TO BIND**

Notwithstanding anything in this Agreement to the contrary, the signatories for the Parties represent that they have been duly authorized to execute Agreements on behalf of their respective organizations.

**IN WITNESS WHEREOF**, having read and understood the terms of the Agreement, the Parties do by their respective signatures dated below hereby execute this Agreement in two (2) originals as of the Effective Date.

One (1) original shall be retained by each Party. If there is any controversy among the documents, the document on file at the Commission shall control.

BY:

*Thomas R. Crane*

\_\_\_\_\_  
Thomas R. Crane, Deputy Director  
Great Lakes Commission

Date: 8/29/2018

BY:

\_\_\_\_\_  
Amy McMillan, Director  
Huron-Clinton Metropolitan Authority

Date:

## ATTACHMENT A

### **Work Plan and Schedule** **Lake Erie Metropark Restoration Project** **NOAA St. Clair-Detroit River System Coastal Restoration Initiative** **GLC-3528**

**October 1, 2018 – September 30, 2021**  
**Budget - \$1,499,608**

#### **1. Project Management Overview:**

The Great Lakes Commission (GLC) is the recipient of federal funding from the National Oceanic and Atmospheric Administration (NOAA), awarded on 08/03/2018, pursuant to U.S. Department of Commerce Award #NA18NMF4630293 entitled “St. Clair-Detroit River System Coastal Restoration Initiative. Funding for the implementation of restoration work at the Huron-Clinton Metropolitan Authority’s Lake Erie Metropark was provided through this award. As a sub-recipient of the Award, the Huron-Clinton Metropolitan Authority (HCMA) will complete implementation of the Lake Erie Metropark Restoration Project and oversee completion of sub-recipient and other sub-contractual work. GLC and HCMA will jointly make all management decisions regarding this Agreement and the project. In the event a disagreement arises and the parties are unable to resolve it between themselves, reasonably and in good faith, the Agreement shall have final decision-making authority.

**Project Management Team:** Several parties agree to work cooperatively to implement the Lake Erie Metropark Restoration Project and will be known as the Project Management Team. These partners include: NOAA, GLC, and HCMA. Other partners may be invited to participate as appropriate.

**Cooperators:** The following subrecipients are cooperators on the project, as described below:

- HCMA is the Lead Sub-recipient for this project.
- Utilizing their procurement policies, HCMA may designate additional sub-recipients.

#### **2. Brief Introduction/Project Overview**

HCMA is partnering with the GLC to manage local implementation of the Lake Erie Metropark Restoration Project through the National Oceanic and Atmospheric Administration (NOAA) award pursuant to U.S. Department of Commerce Award #NA18NMF4630293.

HCMA proposes to remove 1,183 lf of hardened shoreline and enhance 1.7 acres of Lake Erie coastal marsh at the Lake Erie Metropark by restoring shoreline habitat and creating a network of shallow pools and channels within the Metropark.

Coastal wetlands were once extensive at this site, but shoreline armoring and erosion have severely degraded both their extent and quality. This project will restore and naturalize shoreline by removing rip-rap, establishing vegetation to improve aquatic habitat, and creating low-velocity areas protected from direct wave action adjacent to the restored shoreline. Fish spawning and nursery habitat will be created by developing shallow pools and channels within the park’s existing coastal marshes. Historic site conditions will be emulated to address the loss of coastal wetland and shoreline habitat at multiple locations (see map below) using an ecosystem-based approach with design and vegetation representative of native habitats but also constructed with an eye on anticipated future climate conditions. These projects will create functional habitats for native fish species use for migration, reproduction, growth, and seasonal refuge by improving a degraded coastal marsh and Lake Erie shoreline. Lake Erie Metropark is permanently protected as an important lake access point and amenity for multiple nearby communities.

### Coastal Marsh Restoration

HCMA has conducted the preliminary design for the restoration of coastal wetland habitat at the Lake Erie Metropark. Final designs will be developed with input from NOAA. Fish spawning and rearing habitat will be created by re-establishing shallow pools and channels within the Metropark's coastal marshes. Historic open water habitat at the Erie Metropark has been degraded by the buildup of sediment and organics from several decades of Phragmites invasion. These areas no longer provide the critical shallow water habitat necessary for Great Lakes fish and wildlife populations. To create channels and ponds that can withstand the fluctuations in Great Lakes water levels and provide fish spawning and rearing habitat even during periods of low Great Lakes water levels, dredging will be used to create open water trails approximately 8-16 feet wide and an average of 3 feet deeper than current conditions; small ponds, approximately 1/3 of an acre in size, will also be created. The series of shallow open water channels and small ponds through the emergent portion of the marsh will significantly improve habitat for fish species including yellow perch (*Perca flavescens*), northern pike (*Esox lucius*) and other phytophilic spawning fishes (both game and forage species).

As part of the coastal marsh restoration work HCMA will implement invasive species early detection/rapid response activities focusing on surveying and controlling populations of non-native Phragmites, flowering rush (*Butomus umbellatus*), European frog-bit (*Hydrocharis morsus-ranae*) and other wetland invasive species.

### Shoreline Restoration

HCMA has conducted the preliminary design for the restoration of armored/hardened sections of the Lake Erie shoreline. Final designs will be developed with input from NOAA. Shoreline restoration will be completed by moving on-site riprap (determined clean and free of rebar and asphalt) and additional rock material from offsite into the water to protect areas that will be naturalized with native vegetation, create in-water fish habitat, and dissipate wave energy (see diagram below) thus creating low velocity water flow areas suitable for vegetation establishment and protection of larval fish and smaller fish species. Where necessary, shoreline grades will also be reduced to allow wave energy to dissipate as it approaches the shore as opposed to the current hardened shoreline which is conducive to scouring. Shoreline naturalization will begin in upland areas through the utilization of site appropriate native shrub species. From adjacent upland areas, a native wet meadow will be restored up to the ordinary high-water mark. In-water habitat will be restored to support emergent vegetation such as cattails in shallow water and floating vegetation such as water lilies in deeper areas. Non-native Phragmites will also be managed where present along the restored section of shoreline. This portion of the project will provide significant benefits to the fish species listed above. In addition, mudpuppies (*Necturus maculosus*), a State Species of Special Concern, and a wide variety of other herpetofauna will also benefit.

HMCA staff provide professional education and outreach to community members across the region and beyond. In association with this project, and with input from NOAA, HCMA will initiate and implement a communication and outreach plan to promote the restoration work and develop education and outreach opportunities (including signage) for the public, primarily based out of the Lake Erie Marshlands Museum (<http://www.metroparks.com/facilities-education/lake-erie-marshlands-museum-nature-center/>). In addition, funds will be used to support six Summer Discovery Cruises in partnership with Michigan Sea Grant (<http://www.miseagrant.umich.edu/sdc/>) that will cast off from Lake Erie Metropark.

### **3. Narrative Description of Tasks** (*see attached work schedule for quarterly task schedule, including all HCMA staff dedicated to the tasks*)

#### a. Contracts

Ryan Colliton will be the lead staff to prepare initial draft sub-recipient agreements with GLC. Mr. Colliton will also assemble scopes of work, work plans, schedules, cost proposals and other appropriate materials to be attached with contracts for competitively selected consultants and contractors. All HCMA

contracts will be reviewed for approval and signed by either HCMA Director Amy McMillan or a representative from the HCMA Board of Directors.

b. Monthly Status Reports

Ryan Colliton is the lead staff for progress reports. Monthly status reports shall be a brief summary of activities, noting challenges and accomplishments and will be e-mailed to GLC with invoices on a monthly basis. Project Team members will also participate in monthly update calls.

c. Semi-Annual Progress Reports

Ryan Colliton is the lead staff for progress reports. Mr. Colliton will draft progress reports, incorporate sub-contractor status reports and incorporate City project staff input. Progress reports will be e-mailed to GLC every six months according to the work schedule for the NOAA/GLC Regional Partnership Habitat Restoration Program. The GLC contact will provide the proper form for the NOAA report when needed.

d. Financial Reports

Ryan Colliton is the lead staff for this task. Reports will be e-mailed to GLC monthly for GLC invoices and on a semi-annual basis for NOAA/GLC Habitat Restoration progress reports. The monthly report should track the categories outlined in the line-item budget. The GLC contact will provide the proper form for the NOAA reports as they become available.

e. Invoices to GLC

Ryan Colliton is the lead staff for this task. Monthly invoicing and electronic banking will be utilized. Project staff will follow HCMA's procurement policies and procedures to process invoices. Any matching funds or in-kind services and associated documentation are to be tracked along with monthly invoices. The GLC contact will provide a sample invoice to HCMA. Invoices will include a cover letter, copies of all sub-contractor invoices, a summary of to-date and fund balances, and copies of all receipts and timesheets.

f. Final Report for NOAA

Ryan Colliton is the lead staff for this task. A report will be developed and sub-contractor status reports will be included. It will be submitted via e-mail to GLC along with all products and deliverables.

g. Public Outreach and Involvement

Ryan Colliton is the lead staff for this task. Mr. Colliton will lead and carry out public outreach and stakeholder involvement with project partners and through HCMA's social media.

h. Competitive Bid Process

Ryan Colliton is the lead staff for this task. Mr. Colliton will develop required bid packages for any project contractors utilizing HCMA's procurement policies and procedures. HCMA will provide construction management and construction oversight services. Mr. Colliton will work with the Project Management Team and project partners to review proposals.

i. Meetings and Local Public Events

Ryan Colliton is the lead staff for this task. Mr. Colliton will work with NOAA and GLC staff, sub-contractors and project partners on all project aspects including general information. Colliton will coordinate with NOAA and GLC project staff, other partners, and, as applicable, NOAA staff, on all media information and public events. Colliton will implement local public outreach activities such as power point presentations, website enhancements, project outreach newsletter articles, and social media posts.

#### 4. Listing of Staff and their Roles and Responsibilities

**Ryan Colliton, Huron-Clinton Metropolitan Authority Chief of Natural Resources and Regulatory Compliance,** is responsible for HCMA natural resources issues. He will be the assigned manager for this project.

**Amy McMillan, Huron-Clinton Metropolitan Authority Director.** Will review and approve all contracts in coordination with the HCMA Board of Directors.

## 5. Budget

### Lake Erie Metropark Restoration Project Implementation

TOTAL ADMIN:	\$134,467 for HCMA administrative expenses.
TOTAL MATERIALS:	\$63,000 for native plantings and rock.
TOTAL OUTREACH:	\$24,903 for interpretive staff, materials, and Discovery Cruises.
TOTAL CONTRACTUAL:	\$1,227,238 for monitoring, project management, and construction services.
TOTAL PROJECT COST:	\$1,449,608

## 6. Designated GLC Contact

Unless otherwise specified, all communication with the GLC should be sent to Eric Ellis:

Eric Ellis  
 Senior Program Specialist  
 Great Lakes Commission  
 1300 Victors Way, Suite 1350  
 Ann Arbor, MI 48104  
 Office: 734-396-6089  
 Email: [cellis@glc.org](mailto:cellis@glc.org)

## 7. Overall Timeline

The following table outlines the timeline for carrying out activities under this award. This assumes an September 2018 start date and shows implementation over the next three years.

	2018		2019				2020				2021		
<b>Lake Erie Metropark</b>	3	4	1	2	3	4	1	2	3	4	1	2	3
Develop project teams, workplans and agreements													
Develop and finalize a QAPP													
Finalize project design with input from NOAA staff and project team													
Complete project permitting													
Public outreach and education													
Project bidding													
Pre-monitoring design and implementation													
Project construction													
Post-construction monitoring													

**HCMA Budget - Lake Erie Shoreline and Marsh Restoration**  
**HCMA Matching Contributions (Design and Implementation)**

Design	Staff	Wage	Fringe	Hours	Total Costs
	Staff Planner	43.37	22.36	80	\$ 5,258
	Staff Engineer	39.26	22.36	80	\$ 4,930
	Staff Natural Resources	44.67	22.36	120	\$ 8,044
	Subtotal				\$ 18,232
Implementation	Staff	Wage	Fringe	Hours	Total Costs
	Staff Engineer	39.26	22.36	120	\$ 7,394
	Staff Natural Resources	44.67	22.36	240	\$ 16,087
	Subtotal				\$ 23,482
Monitoring	Staff/Contractor	Wage	Fringe	Hours	Total Costs
	Contractor/WSU and HRWC (in kind)	20	0	40	\$ 800
	Staff Natural Resources	44.67	22.36	40	\$ 2,681
	Subtotal				\$ 3,481
Implementation	Staff/Contractor				Total Costs
	Invasive Species Control (EDRR for Phrag, frog-bit, flowering rush, other wetland and shoreline invasive species)				\$ 90,000
	Subtotal				\$ 90,000
	Match Grand Total				\$ 135,194

## HCMA Grant Request for Implementation (from project contractual budget)

Implementation	Staff/Contractor	Wage	Fringe	Hours	Total Costs
	Construction Contractor				\$ 1,152,239
	<b>Subtotal</b>				<b>\$ 1,152,239</b>

Implementation	HCMA Admin	Wage	Fringe	Hours	Total Costs
	Staff Planner	43.37	22.36	80	\$ 5,258
	Staff Engineer	39.26	22.36	300	\$ 18,486
	Staff Natural Resources	44.67	22.36	300	\$ 20,109
	Staff Natural Resources Technical	30.5	22.36	425	\$ 22,466
	Park Operations	30.5	22.36	425	\$ 22,466
	Administrative Staff	30.5	22.36	150	\$ 7,929
	Deputy Director	55.25	22.36	45	\$ 3,492
	Travel				\$ 3,500
	Supplies				\$ 6,000
	Indirect				\$ 24,761
	<b>Subtotal</b>				<b>\$ 134,467</b>

Materials					
	Native Wildflowes (plugs)				\$ 7,000
	Native Grasses (plugs)				\$ 7,000
	Native shrubs				\$ 4,000
	Rock material (boulders, cobble, additional rip-rap)				\$ 45,000
	<b>Subtotal</b>				<b>\$ 63,000</b>

Monitoring	Contractor	Wage	Fringe	Hours	Total Costs
	Contracted pre/post monitoring (herps, fish, macroinvertebrates) and Tier 1 requirements				\$ 75,000
	<b>Subtotal</b>				<b>\$ 75,000</b>

Outreach	Staff	Wage	Fringe	Hours	Total Costs
	Interpretive Staff	38.88	22.36	290	\$ 17,760
	Materials				\$ 3,033
	Summer Discovery Cruises (x6 @ \$685/ea)				\$ 4,110
	<b>Subtotal</b>				<b>\$ 24,903</b>

**Grant Request Total** **\$ 1,449,608**

**Match + Request Total** **\$ 1,584,803**

**NOAA Great Lakes Habitat Restoration Project Grants  
Funding Opportunity NOAA-NMFS-HCPO-2018-2005487**

**Submitted by the Great Lakes Commission  
Revised June 26, 2018**

**Project Title:** St. Clair-Detroit River System Coastal Restoration Initiative

**Project Locations:** There are two project sites, both are located in Southeast Michigan in an area known as the St. Clair-Detroit River System. Brandenburg Park is on the U.S. coastline of Lake St. Clair, Lake Erie Metropark is in the Western Lake Erie Basin. Neither site is located within a Great Lakes Area of Concern.

**Proposal Overview:**

The restoration activities outlined below will restore, or be designed to provide, high quality migration, spawning, nursery and refuge habitat for native fish species by improving degraded coastal wetlands and nearshore habitats. The proposed restoration projects align with NOAA program priorities and represent two nearshore habitats. Restoration at these sites will provide significant physical habitat using nearshore, in-water habitat and shoreline softening, and off-channel restoration techniques. Both projects sites are located on public lands and are permanently protected for their conservation value. Project landowners are committed to protecting and maintaining all habitat restoration activities conducted as part of this award.

- 1) Restoration: Lake Erie Metropark, Huron Clinton Metropolitan Authority (HCMA), Wayne Co. (42.066051, -83.195919); 1,183 lf of hardened shoreline and 1.7 acres of Lake Erie coastal marsh will be restored by softening the shoreline and creating a network of shallow pools and channels within the coastal wetland.
- 2) Engineering and design: Brandenburg Park, Charter Township of Chesterfield, Macomb County (42.667127, - 82.757575); Engineering and design for the restoration of 740 lf of hardened shoreline and 1.5 acres of nearshore habitat at Lake St. Clair.

**Total NOAA Funding Requested:** \$1,624,588

**Total Project Cost:** \$1,799,588

**Project Narrative**

***Program Priorities***

The Great Lakes Commission (GLC) is pleased to submit this proposal titled: ***St. Clair-Detroit River System Coastal Restoration Initiative*** to lead a collaborative effort to implement a diverse suite of coastal restoration activities at 2 sites along the St. Clair-Detroit River System (SCDRS) in the coastal counties of southeast Michigan.

The SCDRS is a binational connecting waterbody between Lake Huron and Lake Erie that encompasses the St. Clair River, Lake St. Clair, the Detroit River, and includes the Western Lake Erie Basin (WLEB). Despite decades of industrial development and habitat alteration, this region remains ecologically significant and provides important habitat for fish and wildlife. Partners in



this region, including the SCDRS Initiative, have been working for decades to advance coastal wetland, shoreline, and in-water habitat restoration to address legacy impacts and improve habitat for fish, wildlife, and people ([www.scdrs.org](http://www.scdrs.org)).

Investments by NOAA and other federal, state and provincial agencies have addressed habitat restoration in the St. Clair River and Detroit River Areas of Concern (AOCs). However, additional habitat restoration is necessary to restore adjacent non-AOC areas and further improve connectivity between existing restoration sites to ensure that prior investments generate maximum benefit. The GLC is well suited to support NOAA because of its knowledge of coastal restoration in the Great Lakes; experience implementing restoration projects and managing subawards; ability to administer federal funds and manage grants; history of collaborating with federal, state and local partners; and, a deep understanding of coastal restoration needs. The GLC is heavily involved in the Great Lakes Restoration Initiative (GLRI) and recognizes NOAA's Restoration program as an important mechanism to achieve performance measures for its Habitat and Species Focus Area and to support NOAA's ecosystems mission.

The GLC has engaged a strong collaboration of partners including those with expertise in coastal restoration, outreach and communication, ecological monitoring and data management to restore valuable coastal nearshore areas that have been degraded. The current project team will implement a multi-partner effort to restore, connect, and maintain functional nearshore habitats for native fish and wildlife migration, reproduction, growth, and refuge. The GLC will provide overall administration and coordination of the project, including oversight of programmatic and financial reporting, and will enter into subrecipient agreements with its partners to oversee engineering design, restoration and ecological monitoring.

The proposed projects, including one implementation and one engineering and design project, will result in the restoration of approximately 1,183 linear feet (lf) of hardened shoreline and 1.7 acres of Great Lakes coastal wetland, and designs and permits for the restoration of 741 lf of shoreline and 1.5 acres of nearshore habitat. This work aligns with NOAA program priorities and will restore multiple nearshore habitats using innovative nearshore habitat enhancement, shoreline softening to restore coastal wetlands, and off-channel restoration to improve hydrologic reconnection of habitats.

NOAA, GLC, and many partners are currently collaborating with the former Upper Midwest and Great Lakes Landscape Conservation Cooperative's Coastal Wetland Working Group that is working in a Great lakes pilot geography from Lake Huron's Saginaw Bay through the SCDRS. This proposed approach conforms to the guiding principles identified in the draft Charter of the Working Group and will implement projects using the Landscape Conservation Design approach to strategically achieve effective coastal wetland conservation efforts in SCDRS.

The SCDRS has a unique set of features and benefits that support a broad range of ecosystem services that generate local and regional societal values. The SCDRS provides world-class fish and wildlife-related recreational opportunities and is a biodiversity hotspot, all within a short distance of Detroit, MI, and Windsor, Ontario. However, public access to the resource is limited. To address this need, both projects are publicly accessible and will increase recreational opportunities, especially fishing and kayaking/canoeing.

In the center of the SCDRS is Lake St. Clair, which has one of the largest freshwater deltas in the world, generally high-water quality, and a shallow bathymetry that makes it both a biodiversity hotspot and a production center for some of the most highly valued sport fish species nationally. Lake St. Clair is home to more fish species than almost anywhere else in the Great Lakes; supports the largest sport fishery for Great Lakes muskellunge (*Esox masquinangy*) in the world; hosts national tournaments for black basses (*Micropterus spp.*); and sustains harvest-oriented fisheries for yellow perch (*Perca flavescens*) and walleye (*Sander vitreus*). There is a growing body of evidence that both sport and non-sport fishes produced in Lake St. Clair disperse into both Lake Huron and Lake Erie, thus contributing to populations in multiple Great Lakes. In addition to supporting some 70 species of fish, habitat in the SCDRS support numerous species of herpetofauna (i.e., amphibian and reptiles), birds, mammals, and freshwater mussels, 16 of which are State-listed as threatened or endangered. The SCDRS is also a globally important breeding area for 200 species of migratory birds and is located at the convergence of the Mississippi and Atlantic flyways. Remaining coastal wetland areas are recognized as a globally significant shorebird stopover area with at least 50 percent of the existing coastal wetlands supporting high quality stopover habitat.

### ***Issue Identification***

There are a variety of habitat issues limiting recovery and sustainability of the SCDRS. According to the *Michigan Wildlife Action Plan*, SCDRS' environmental quality has been altered by multiple anthropogenic stressors. Land use changes have increased siltation and turbidity in tributaries, rivermouths, and other shallow-water areas of Lake St. Clair and the WLEB. The SCDRS has been dredged to allow deep-draft navigation and coastal wetlands have been drained and filled. Approximately **60 percent** of the shoreline in the SCDRS has been hardened.

### ***Proposed Restoration Actions & Impact on Targeted Species***

The proposed restoration projects were selected to address priority restoration needs. Softening of the land-water interface and restoration of coastal wetlands will create spawning and nursery habitats needed by fish, wildlife, and herpetofauna, and enhance connectivity with both past and future restoration efforts. Target species include yellow perch (*Perca flavescens*), northern pike (*Esox lucius*), walleye (*Sander vitreus*), Great Lakes muskellunge (*Esox masquinangy*), numerous native centrachids, and other phytophilic spawning fishes (both game and forage species). Mudpuppies (*Necturus maculosus*) are also anticipated to benefit. Maintaining the connection between uplands and wetlands is also important to create more resilient landscapes and larger refuges to support fish and wildlife production. Both projects have been assessed for feasibility and the engineering and design project is ready for immediate implementation following completion of the design phase. When considered together these projects achieve large-scale restoration along one of the most urbanized coasts in the Great Lakes.

### ***Sustainability***

This proposal focuses on the long-term viability of on-the-ground restoration in the SCDRS. Both project partners are willing landowners and have long-term protection and capacity to ensure the projects are maintained as designed and implemented. Technical Advisory Committees will be developed for each site to ensure that project engineering/design and implementation actions are robust and achieve ecological goals. GLC and partners will work

with NOAA and other partners to ensure that potential impacts from climate change are addressed and will provide resiliency against changing future conditions (e.g., declining or rising water levels). The GLC will also ensure both projects include provisions for long-term maintenance to sustain the restoration actions into the future. Long-term management plans, including funding strategies and responsibilities will be developed for each project. The implementation project includes pre- and post- construction monitoring to assess the effectiveness of work completed and to generate scientific information to inform future restoration efforts. In addition, given the presence of invasive species such as *Phragmites australis*, the project team will also coordinate invasive species management, with the Lake St. Clair Cooperative Invasive Species Management Area (CISMA) or the Detroit & Western Lake Erie CISMA organizations.

### ***Demonstrated Priority***

Priority restoration actions addressed through this proposal are identified in the following SCDRS-related restoration initiatives, strategies and plans:

- The *Joint Strategic Plan for Management of Great Lakes Fisheries* and associated *Fishery Environmental Principles* calls for fisheries management agencies in the Great Lakes to jointly address environmental conditions in support of sustainable fisheries under the common goal of implementing an ecosystem approach for protecting and improving aquatic habitats that ensure adequate spawning success and production of desired fish communities.
- The *Lake Erie Lakewide and Action Management Plan* and *Lake Erie Biodiversity Conservation Strategy* (BCS) identify the SCDRS as containing important nearshore and stream habitats that need to be protected and restored. The BCS specifically recommends that by 2030 achieving a 10 percent coastal wetland acreage increase compared to the 2011 wetland area. The current estimate of existing wetlands on the U.S of the SCDRS is approximately 22,000 acres, thus requiring that 2,200 acres at a minimum to be restored. The BCS also set a 2030 hardening shoreline percentage goal of less than 50 percent of the shoreline. For the SCDRS, 60 percent (200 of the 350 miles) are considered hardened.
- The *SCDRS Initiative Strategic Vision & Priority Objectives* define as an outcome that between 2013-2023, “environmental, biological, and societal benefits from the System are measurably improved” through an “Increase [in] continuous area of functional wetlands and their connectivity to the SCDRS;” and, an “Increase [in] riparian complexity/connectivity through increased softened shorelines and native riparian vegetation.”
- The *Michigan Department of Natural Resources (MDNR) Wildlife Action Plan* identifies Great Lakes coastal wetlands as important for supporting species of greatest conservation need within the SCDRS. The goal of the plan is to increase wetland area and quality to achieve population goals for focal species, many of which are targeted in this proposal.
- *St. Clair River and Lake St. Clair Comprehensive Management Plan & Strategic Implementation Plan* (SIP) address numerous issues including protection and restoration of priority habitat areas in the Lake St. Clair watershed. Both plans specifically call for partners to “Develop a habitat strategy to restore and maintain natural physical and biological

diversity and identify priority habitat areas for restoration and conservation.”

- The Southeast Michigan Council of Governments’ (SEMCOG) *Water Resources Plan for Southeast Michigan*, which encompasses Michigan’s portion of the SCDRS geography, recommends an integrated water resources management approach for the region’s water resources. The plan prioritizes wetlands as an important natural resource that supports aquatic habitat; resilient infrastructure; and, the economic development, recreation, and tourism opportunities associated with Southeast Michigan’s Blue Economy.
- The Nature Conservancy’s *Developing a Shared Vision for Coastal Conservation in Western Lake Erie* includes a primary objective to “develop a spatially-explicit conservation plan that identifies optimal locations for conservation and restoration actions to meet ecological goals while maintaining or enhancing human well-being values at the lowest financial or social cost.”
- The *Macomb County Blue Economy Strategic Development Plan* recommends increased accessibility and opportunities to “see and touch” Lake St. Clair, and to continue to enhance and improve environmental quality, including restoring habitat to offset the impacts of development.

### ***Multiple Benefits***

A unique aspect of this project is the multiple environmental, social and economic benefits associated with habitat restoration in one the most highly urbanized coasts in the Great Lakes. For example, throughout the SCDRS geography, coastal wetlands and nearshore areas play a vital role in place-making, recreation and tourism, and higher quality of life while also providing habitat to support a world-class freshwater fishery. Wetlands provide opportunities for bird watching, paddling, fishing, hunting, and hiking, as well as bicycling activities along trails. These opportunities help to diversify and further enhance Southeast Michigan’s Blue Economy. Recreation and tourism industries have a large economic impact on the state and region. For example, Michigan’s coastal tourism economy supports 57,000 jobs with \$955 million in related earnings annually. Michigan’s paddling industry continues to grow, contributing \$140 million to the state’s economy each year. Additionally, direct and indirect spending from recreational boating adds \$3.9 million each year to the state’s economy; and, anglers contribute \$2 billion annually. A socioeconomic assessment of a similar shoreline and wetland restoration initiative at Muskegon Lake, MI, projected a 6 to 1 return on investment due to increases in housing prices, recreation and tourism (*Muskegon Lake Area of Concern Habitat Restoration Project: Socio-Economic Assessment*).

### ***Project Feasibility & Methodology***

Coastal wetland modifications throughout the project area have dramatically reduced available habitat for aquatic species leaving unnatural hardened shorelines and river/lake bottoms devoid of habitat structure and varied water flows. These alterations have reduced habitat complexity and limited areas with low water velocity, native vegetation, and rocky substrates suitable for fish spawning, nursery habitat, and use by other aquatic wildlife.

This project will design, implement and monitor proven methods supported by research and previously implemented throughout the SCDRS region and Great Lakes basin to restore coastal

habitat. Three primary technical methods will be used or designed to restore coastal wetland habitat: shoreline softening, in-water nearshore habitat restoration, and coastal wetland restoration. Specific techniques will include removing hardened shoreline material and seawalls, reopening shallow water wetland channels, establishing native vegetation (aquatic and riparian), creating areas of low water velocity, creating rock and slab habitat, and installing woody debris. The techniques proposed have proven effective at sustainably restoring and enhancing fish and wildlife species in the SCDRS and improving overall aquatic ecosystem health.

### ***Measurable Goals***

1. Increase riparian complexity and connectivity by softening hardened shorelines and by increasing associated habitat structure and native vegetation in the nearshore zones.

Measures of Success:

- Vegetative cover and extent pre- and post-restoration before-and-after comparison (BAC).
- Changes in fish, macroinvertebrates and herpetofauna diversity and abundance assessed pre- and post-restoration BAC.

- 2: Increase the continuous area of functional coastal wetlands and nearshore habitat connectivity.

Measures of Success:

- Aquatic vegetation coverage and extent pre- and post-restoration BAC.
- Spatial analyses of newly vegetated areas, where applicable, and increases in fauna
- biodiversity and abundance.

- 3: Develop engineering and design plans and permit applications to support future restoration of coastal wetlands and nearshore habitats.

Measures of Success:

- Development of project-specific Technical Advisory Committees
- Design plans for review at 30, 60 and 90%
- Coordination with regulatory agencies and completion of necessary permit applications

- 4: Conservation efforts are coordinated and implemented through existing collaborative teams of the SCDRS Initiative.

Measures of Success:

- Semiannual reports to NOAA
- Monthly calls with NOAA, GLC and Technical Advisory Committees
- Regular reporting at project partner meetings, workshops and conferences

### ***Environmental Compliance***

NOAA National Environmental Policy Act (NEPA) Analysis: The GLC and its partners are committed to providing NOAA with detailed information on the proposed project activities, location information, species and habitats to be affected, construction activities and methods, and any environmental concerns to enable NOAA to make a NEPA determination for the project. The GLC will coordinate with NOAA on NEPA and Endangered Species Act compliance documentation during the project selection process.

### **Support from State and Federal Regulatory Agencies**

The project team has initiated consultation with the Michigan Department of Environmental

Quality (DEQ) and the Corps, which have regulatory authority under the Michigan Natural Resources and Environmental Protection Act, 1994 Public Act 451, Part 325 (Great Lakes Submerged Lands), Part 303 (Wetlands Protection), and 301 (Inland Lakes and Streams); and, the Clean Water Act Section 404 (Discharges of Dredge or Fill Material), respectively. Both agencies have agreed to remain engaged throughout the project. While the project is not proposing to implement habitat restoration work that would benefit invasive Sea Lamprey (*Petromyzon marinus*), the team has received clearance from the U.S. Fish and Wildlife Service (USFWS) that the project “will not have any negative impacts on sea lamprey control activities in the SCDRS or Lake Erie” (Peter Hrodey, personal communication with Michelle Selzer, 3/7/18).

In addition, the GLC and its partners will develop project websites and social media pages to communicate project activities. This work may also include communication tools such as videos and webinars, and other materials to promote restoration outcomes, support technology transfer associated with softening shoreline and nearshore habitat restoration, and to increase outreach on NOAA’s Great Lakes Restoration Program and the GLRI.

### **Proposed Projects**

#### **1. Lake Erie Metropark Restoration: \$1,514,588**

Huron Clinton Metropolitan Authority (HCMA), Wayne Co. (42.066051, -83.195919)

HCMA proposes to remove 1,183 lf of hardened shoreline and enhance 1.7 acres of Lake Erie coastal marsh at the Lake Erie Metropark by restoring shoreline habitat and creating a network of shallow pools and channels within the Metropark.

Coastal wetlands were once extensive at this site, but shoreline armoring and erosion have severely degraded both their extent and quality. This project will restore and naturalize shoreline by removing rip-rap, establishing vegetation to improve aquatic habitat, and creating low-velocity areas protected from direct wave action adjacent to the restored shoreline. Fish spawning and nursery habitat will be created by developing shallow pools and channels within the park’s existing coastal marshes. Historic site conditions will be emulated to address the loss of coastal wetland and shoreline habitat at multiple locations (see map below) using an ecosystem-based approach with design and vegetation representative of native habitats but also constructed with an eye on anticipated future climate conditions. These projects will create functional habitats for native fish species use for migration, reproduction, growth, and seasonal refuge by improving a degraded coastal marsh and Lake Erie shoreline. Lake Erie Metropark is permanently protected as an important lake access point and amenity for multiple nearby communities.

#### **Coastal Marsh Restoration**

HCMA has conducted the preliminary design for the restoration of coastal wetland habitat at the Lake Erie Metropark. Final designs will be developed with input from NOAA. Fish spawning and rearing habitat will be created by re-establishing shallow pools and channels within the Metropark’s coastal marshes. The proposed activities will be similar in scope to work recently completed with NOAA and Great Lakes Restoration Initiative funding in the Black Creek Marsh

at Lake St. Clair Metropark. Like that project, historic open water habitat at the Erie Metropark has been degraded by the buildup of sediment and organics from several decades of *Phragmites* invasion. These areas no longer provide the critical shallow water habitat necessary for Great Lakes fish and wildlife populations. To create channels and ponds that can withstand the fluctuations in Great Lakes water levels and provide fish spawning and rearing habitat even during periods of low Great Lakes water levels, dredging will be used to create open water trails approximately 8-16 feet wide and an average of 3 feet deeper than current conditions; small ponds, approximately 1/3 of an acre in size, will also be created. The series of shallow open water channels and small ponds through the emergent portion of the marsh will significantly improve habitat for fish species including yellow perch (*Perca flavescens*), northern pike (*Esox lucius*) and other phytophilic spawning fishes (both game and forage species).

As part of the coastal marsh restoration work HCMA will implement invasive species early detection/rapid response activities focusing on surveying and controlling populations of non-native *Phragmites*, flowering rush (*Butomus umbellatus*), European frog-bit (*Hydrocharis morsus-ranae*) and other wetland invasive species.

#### Shoreline Restoration

HCMA has conducted the preliminary design for the restoration of armored/hardened sections of the Lake Erie shoreline. Final designs will be developed with input from NOAA. Shoreline restoration will be completed by moving on-site riprap (determined clean and free of rebar and asphalt) and additional rock material from offsite into the water to protect areas that will be naturalized with native vegetation, create in-water fish habitat, and dissipate wave energy (see diagram below) thus creating low velocity water flow areas suitable for vegetation establishment and protection of larval fish and smaller fish species. Where necessary, shoreline grades will also be reduced to allow wave energy to dissipate as it approaches the shore as opposed to the current hardened shoreline which is conducive to scouring. Shoreline naturalization will begin in upland areas through the utilization of site appropriate native shrub species. From adjacent upland areas, a native wet meadow will be restored up to the ordinary high-water mark. In-water habitat will be restored to support emergent vegetation such as cattails in shallow water and floating vegetation such as water lilies in deeper areas. Non-native *Phragmites* will also be managed where present along the restored section of shoreline. This portion of the project will provide significant benefits to the fish species listed above. In addition, mudpuppies (*Necturus maculosus*), a State Species of Special Concern, and a wide variety of other herpetofauna will also benefit.

The project partners maintain flexibility with these designs and look forward to receiving input from NOAA and collaborating to finalize the overall design of both restoration projects. To date, no permits have been obtained as this action was anticipated to be completed after award and during the final design phase in coordination with NOAA staff.

HMCA staff provide professional education and outreach to community members across the region and beyond. In association with this project, and with input from NOAA, HCMA will initiate and implement a communication and outreach plan to promote the restoration work and develop education and outreach opportunities (including signage) for the public, primarily based out of the Lake Erie Marshlands Museum (<http://www.metroparks.com/facilities-education/lake->

[erie-marshlands-museum-nature-center/](http://erie-marshlands-museum-nature-center/)). In addition, funds will be used to support six Summer Discovery Cruises in partnership with Michigan Sea Grant (<http://www.miseagrant.umich.edu/sdc/>) that will cast off from Lake Erie Metropark and will provide a water based tour and educational component open to the general public.

### Project Monitoring

To assess if the project is effective a monitoring plan will be implemented. This plan will contain pre- and post-construction evaluations to document changes in reptile, amphibian, fish, and macroinvertebrate populations as well as water quality parameters to evaluate the short term structural changes at the project site and basic effectiveness of the work conducted. NOAA Tier 1 monitoring guidelines will be followed and project outcomes and success will be assessed via BAC using standardized data collection methods documented in a QAPP.

For this project, the monitoring team will use a combination of the following ongoing and project-specific approaches:

- The monitoring contractor and partners will conduct an on-the-ground inspection following construction to ensure that the project has been constructed according to the restoration plans and has achieved habitat metrics. Construction as-builts will be provided.
- Coastal wetland and shoreline restoration will be assessed by applying an existing wetland monitoring protocol developed by the Great Lakes Coastal Wetland Monitoring Group (CWMG). The protocol has been used basin-wide for over a decade in thousands of wetlands and provides assessment of vegetation, fish and wildlife, herpetofauna, and water quality. Data are integrated into indices that can document temporal changes in wetland quality. This approach also monitors juvenile fish abundance for evaluation of spawning and nursery habitat quality.
- Project results will be documented via BAC approaches based on aerial photography acquired through unmanned aerial vehicles (UAVs). Photos will document project outcomes and can be used to map changes in vegetative cover and habitat increase.
- Adult fish response will be assessed using electrofishing during the summer. This technique has been shown to provide a more accurate assessment of the nearshore adult fish community over other methods and is not lethal.
- Prior and ongoing sampling will be linked to the proposed project. For example, baseline information from the Metropark collected by the Michigan Natural Features Inventory is available for long-term comparisons and will help clearly define target population information. Specific sampling methods designed for the SCDRS have been used to assess prior restoration actions within that geography, and field teams will collect data for comparison with those projects.

All ecological monitoring and as-built survey work will be conducted by a qualified contractor with input from NOAA. Project partners will work with NOAA to adjust the monitoring plan, if necessary, to ensure that the proposed parameters are adequate and meaningful.

### **Timeline**

HCMA has created a conceptual plan and will be initiating the engineering and design in house in the summer/fall 2018. The timeline for both projects is as follows:

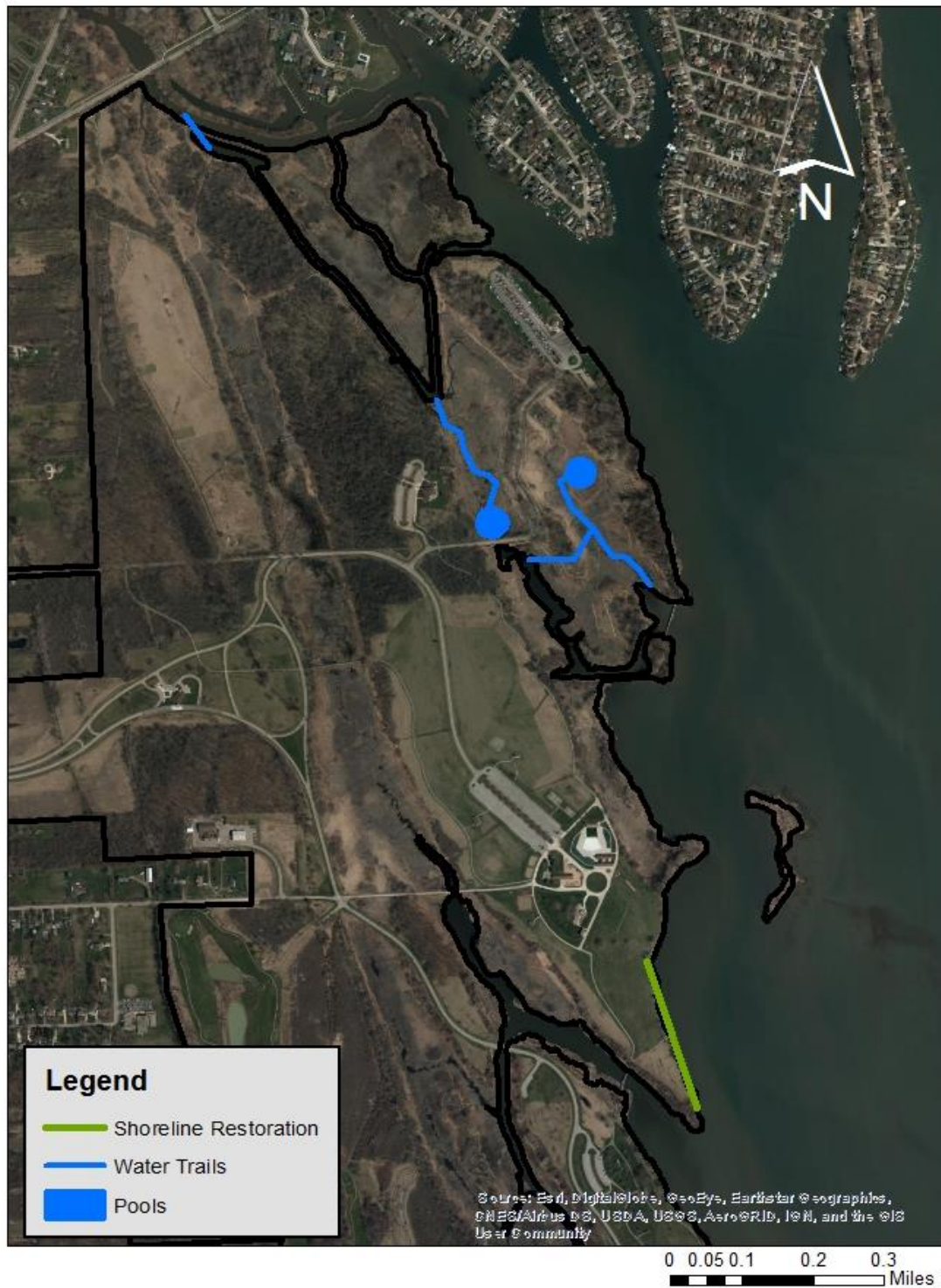


Grant Award: Sept 2018  
Design Finalization (with NOAA technical staff input): Fall 2018  
Development of QAPP: Fall 2018  
Permitting: Fall/Winter 2018/2019  
Public Outreach: Sept 2018- Summer 2021  
Bidding: Spring/Summer 2019  
Pre-monitoring Design and Implementation: Spring/Summer 2019  
Project Construction: Fall 2019 – Summer 2020  
Post-project monitoring: Summer 2020 – Summer 2021

**Budget**

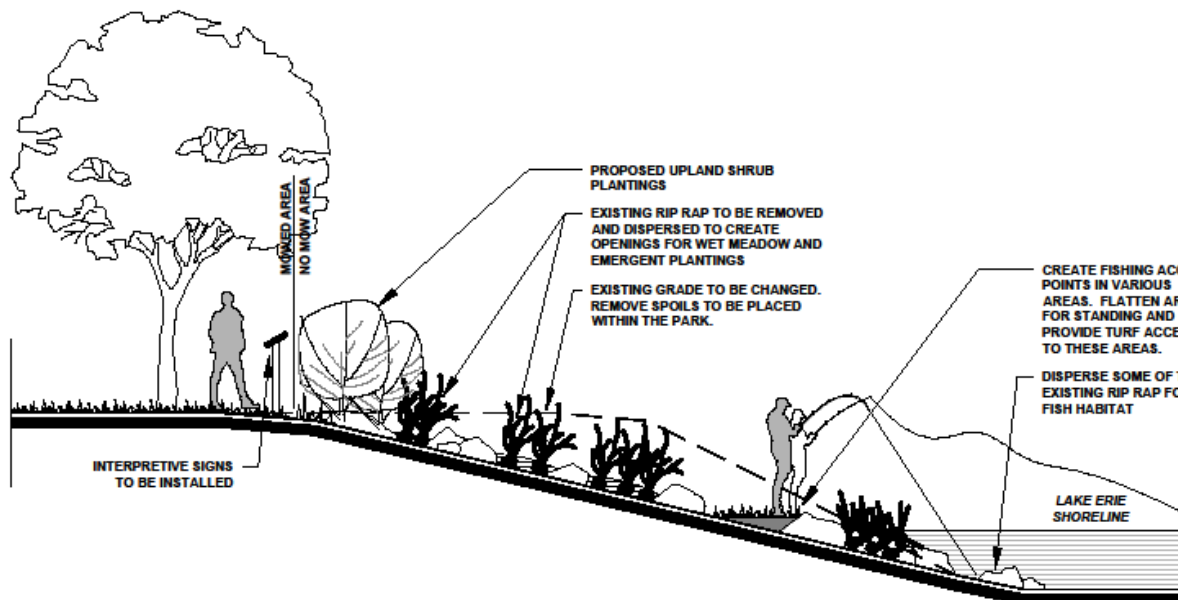
GLC Salary	\$30,892
GLC Fringe	\$12,975
GLC Travel	\$1,400
GLC Supplies	\$850
Contractual	\$1,449,608
Other	\$1,378
Indirect charges	\$17,485
TOTAL	\$1,514,588

## Lake Erie Metropark - Shoreline and Fish habitat Restoration



# SHORELINE NATURALIZATION LAKE ERIE METROPARK CONCEPTUAL PLAN

MAY 24, 2018



## TYPICAL SHORELINE SOFTENING SECTION

NOT TO SCALE

### 2. Brandenburg Park Shoreline Restoration Engineering and Design: \$110,000

Charter Township of Chesterfield, Macomb County (42.667127, -82.757575)

Engineering and design is proposed for 740 lf of hardened shoreline and 1.5 acres of nearshore habitat at Brandenburg Park along Lake St. Clair. The design will focus on a rocky breakwater to promote growth and establishment of wild celery (*Vallisneria americana*), which serves as important spawning, nursery, and foraging habitat for a variety of game fishes and a food source for waterfowl. Tree rootballs anchored to the breakwater and rock piles will also create habitat for a variety of herpetofauna. The park is permanently protected and will be maintained long-term by the Township.

Since 1976, Brandenburg Park has been the recreational crown jewel of Chesterfield Township. Located off Jefferson Avenue a quarter-mile south of 23 Mile Road, this 17-acre parcel is positioned along the shore of Anchor Bay and serves the recreational needs of the township and the greater Lake St. Clair area with a unique assortment of facilities.

Owned and maintained by Chesterfield Township, the park sees a steady stream of visitors and features four open-air pavilions, a splash pad, and a multipurpose building. The park's 500ft pier is one of only a few in Metro Detroit from which individuals can fish and view wildlife. Located

five miles from I-94, this park's public boat launch attracts boating and fishing enthusiasts from all over the county and throughout the region.

Erosion has led the original seawall to crumble and breakaway resulting in portions of the land being unsafe for park users, increased sediment flow into the lake, and reduced access for fishing. The primary goal of this project is to improve fish habitat at the park while eliminating a shoreline safety hazard and improving coastal recreation, especially fishing. Strong local government and community support will help sustain the proposed restoration activities and support healthy populations of native fish species into the future.

Fish species found in Anchor Bay and the area near Brandenburg park include: smallmouth bass, Great Lakes muskellunge, northern pike, perch, lake sturgeon, and walleye. Historically, spawning, migration, feeding, and nursery habitat was plentiful along the coast of Lake St. Clair. However, urban development and armoring along the shore, including Brandenburg park, has significantly reduced available habitats for these, and other fish species. Returning the shoreline to a more natural state will benefit these fish populations at the site and throughout the overall SCDRS.

To address this goal, the Township has been working with consultants and local contractors to develop a conceptual plan for the replacement of the seawall with a natural shoreline and in-water habitat structures. The conceptual plan for the design is attached below. The Township looks forward to working with NOAA technical staff to further develop this design and ultimately deliver plans suitable for the construction phase of the project.

### **Timeline**

Initial project meeting and Technical Advisory Team established: Fall 2018

QAPP developed: Fall 2018

Topographic survey: Fall 2018

Site data collections and analysis: Fall 2018

Soil testing and hydrologic modeling/analysis: Fall 2018

Preliminary location and project element placement (30%): Fall 2018

Preliminary engineering design (60%): Winter 2019

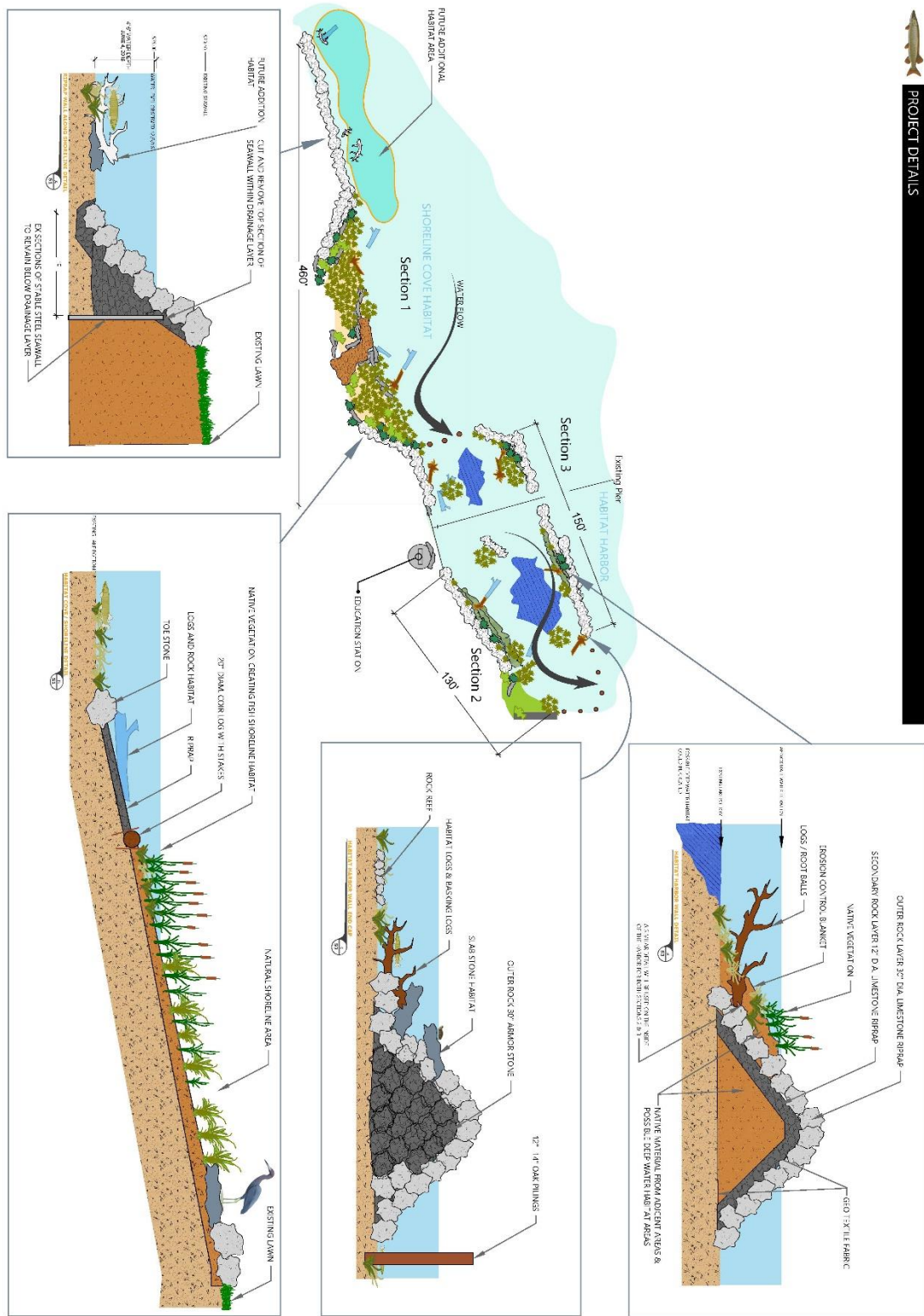
Final engineering design (90%): Spring/Summer 2019

Permit applications: Fall 2018 to Spring 2019

Project partners anticipate being ready for on-the-ground implementation in the summer of 2019.

### **Budget**

GLC Salary	\$6,044
GLC Fringe	\$2,538
GLC Travel	\$365
GLC Supplies	\$0
Contractual	\$97,500
Other	\$132
Indirect charges	\$3,421
<b>TOTAL</b>	<b>\$110,000</b>



<b>BP</b> <b>2020</b> <b>03</b>	<b>DRAWN BY</b> Josh Sonnenberg Operations & Facilities Director 5216 Sierra Dr. Chesterfield MI jsonnenberg@chesterfieldmi.org 586.305.8550	<b>PROJECT NO.</b> CT-207-17	<b>ISSUE</b> Sept 13, 2017	<b>CHESTERFIELD TOWNSHIP</b> Brandenburg Park 50500 Jefferson Ave.	
	<b>PROJECT</b> Shoreline Restoration Fish Habitat	<b>RE-ISSUE</b> April 13, 2018			



### **Overall Qualifications of Applicant**

Established in 1955, the GLC is a nonprofit interstate public agency that works on behalf of the eight Great Lakes states and two Canadian provinces to advance the restoration, conservation and sound management of the Great Lakes. Its mission is aligned with NOAA, the GLRI, and the SCDRS Initiative. The GLC has a long and successful history working with NOAA and other federal, state and local agencies to identify and implement restoration projects across the Great Lakes region. The following are highlights of the GLC's most relevant restoration experience:

- **Great Lakes Habitat Restoration Regional Partnership:** The GLC is leading 2013 and 2016 NOAA Regional Partnerships to restore habitat and remove BUIs in Great Lakes AOCs. The GLC has administered nearly \$40 million for design and implementation of more than a dozen diverse and technically challenging projects to restore rapids habitat, shoreline, nearshore, wetlands and riparian buffers, and restore fish habitat.
- **Muskegon Lake AOC Habitat Restoration Project:** The GLC completed a \$10 million NOAA Recovery Act grant for a coastal restoration project in the Muskegon Lake AOC. Working at 15 sites, the project restored over 13,000 lf of shoreline and 32 acres of wetlands; removed 208,000 metric tons of fill; and produced a widely cited 2017 socio-economic analysis showing a 6-to-1 return on investment ([\*Muskegon Lake Area of Concern Habitat Restoration Project: Socio-Economic Assessment\*](#)).

The project experience described above demonstrates the GLC's experience and proven capability to successfully administer diverse restoration projects like those envisioned under the proposed Initiative. The GLC's key capabilities to lead this project include:

- **Effectively managing federal funds:** The GLC is familiar with financial management requirements and has administered multiple large-scale federal grants that total more than \$65 million.
- **Tracking and reporting on multiple restoration projects:** The GLC has received multiple concurrent federal grants, including several from NOAA. In managing these grants, the GLC tracks and reports on dozens of discrete restoration projects.
- **Applying technical restoration expertise:** GLC staff has extensive experience implementing diverse habitat restoration efforts similar to those needed in the SCDRS, such as wetland and shoreline restoration, and creating in-water habitat. The GLC works regularly with consultants and academic specialists experienced in project design, monitoring, construction management and other tasks.
- **Using a flexible approach and managing uncertainty:** The GLC is comfortable managing the uncertainty that is typical of habitat restoration, particularly in highly urban systems like the SCDRS. It will maintain a flexible, forward-looking approach to ensure implementation challenges are addressed effectively in consultation with NOAA.

The GLC's team will be led by Heather Braun, who has more than 20 years of experience designing and implementing coastal habitat projects and managing federal grants. In addition, the GLC has built a strong team of partners that are highly qualified to implement habitat restoration or will hire environmental consultants to assist them. Gerry Santoro, Land & Water Resources Program Manager, will serve as an advisor to the project team for restoration work along Lake St. Clair. Several other regional experts, including the HCMA, U.S. Geological Survey (USGS), Michigan DNR-Fisheries, Michigan Sea Grant, are also involved in this

initiative. Together, they will work with the partners to ensure consistency and integration with regional conservation and ecological monitoring efforts, and education and outreach programs.

### ***Tangible Results***

The GLC will collaborate with local implementation partners similar to its approach with the NOAA Partnership efforts described above. Local partners will lead project implementation and the GLC will ensure they have the necessary capabilities and experience. Permits are required for all proposed projects. As described above, the project team has already engaged the Michigan DEQ and Corps to discuss permit review criteria and convey project design ideas. Proposed projects will be designed to minimize impacts to existing wetlands, lakes, streams, and other protected resources. The GLC and the project sponsors will hold pre-application meetings with appropriate regulatory agencies to discuss project design.

### **Project Costs**

The GLC requests \$1,624,588 to support 1 habitat restoration project and 1 engineering and design project along the coastline of the SCDRS. An additional \$175,000 will be contributed through non-federal cost share, for a total project cost of \$1,799,588. Pre- and post- ecological monitoring will be conducted for the restoration project in partnership with agencies, local universities or qualified consultants throughout the project timeline. The GLC's administrative costs are not expected to exceed 5 percent of total federal funding and indirect costs should not exceed 1 percent of direct costs. The GLC believes this is a realistic cost projection. As currently structured, the GLC's budget limits administrative costs and maximizes funds for restoration actions. Because of its nonprofit status and support provided by the states, the GLC offers a competitive cost structure.

### ***Cost-Sharing***

Project partners will provide \$175,000 in non-federal match including in-kind personnel support and cash match for habitat restoration ecological monitoring. This demonstrates local support and helps to leverage the federal investment.

### **Outreach and Education and Community Engagement**

Communications and Outreach and Education are among the GLC's core competencies and the GLC is committed to developing strategic communication and outreach opportunities for each project, in consultation with NOAA and project partners. Partners will work as a team to develop an outreach strategy commensurate with the selected suite of projects. This may include:

- Informational resources such as a project website, factsheets and signage at project sites and interpretive signage at the Lake Erie Metropark.
- HCMA outreach to promote the restoration work based out of the Lake Erie Marshlands Museum.
- Multiple Summer Discovery Cruises in partnership with Michigan Sea Grant (<http://www.miseagrant.umich.edu/sdc/>) that will be based out of Lake Erie Metropark and will provide a water based tour and educational component open to the general public.
- Briefings for elected officials, community groups, conservation organizations, SCDRS Initiative, Lake St. Clair SIP partners, and others.
- Media outreach to publicize restoration projects and highlight community benefits.

- Public events to showcase NOAA's restoration work and the GLRI to encourage ongoing stewardship.
- Participation at regional conferences, training workshops, the GLC's annual meetings, partner meetings, Congressional briefings and other events.
- Volunteer stewardship and citizen science engagement, where appropriate, to engage civic groups, schools and other community organizations.

In addition, the GLC and its partners will develop project websites and social media pages to communicate project activities. This work may also include communication tools such as videos and webinars, and other materials to promote restoration outcomes, support technology transfer associated with softening shoreline and nearshore habitat restoration, and to increase outreach on NOAA's Great Lakes Restoration Program and the GLRI.

### Overall Timeline

The following table outlines a proposed timeline for carrying out activities under this award. This assumes an August 2018 start date and shows implementation over the next three years.

	2018		2019				2020				2021		
<b>Lake Erie Metropark</b>	3	4	1	2	3	4	1	2	3	4	1	2	3
Develop project teams, workplans and agreements													
Develop and finalize a QAPP													
Finalize project design with input from NOAA staff and project team													
Complete project permitting													
Public outreach and education													
Project bidding													
Pre-monitoring design and implementation													
Project construction													
Post-construction monitoring													
<b>Brandenburg Park</b>													
Develop QAPP, project teams, workplans and agreements													
Complete topographic surveys, site analysis, and soil testing													
Complete and review preliminary location and project element placement (30%)													
Complete and review preliminary engineering design (60%)													
Complete and review final engineering design (90%)													
Permit applications													



# HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2018

PARK	MONTHLY VEHICLE ENTRIES				MONTHLY TOLL REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	53,915	55,959	57,375	-6%	\$ 162,291	\$ 150,295	\$ 166,962	-3%
Wolcott Mill	4,864	7,368	6,863	-29%	\$ 3,216	\$ 5,505	\$ 1,983	62%
Stony Creek	78,773	70,430	76,512	3%	\$ 236,062	\$ 229,293	\$ 234,401	1%
Indian Springs	12,871	12,468	12,322	4%	\$ 30,554	\$ 25,700	\$ 28,954	6%
Kensington	95,692	88,411	96,778	-1%	\$ 255,674	\$ 261,761	\$ 238,467	7%
Huron Meadows	12,690	14,301	12,940	-2%	\$ 14,391	\$ 17,114	\$ 7,522	91%
Hudson Mills	23,627	24,343	27,435	-14%	\$ 49,861	\$ 56,746	\$ 54,084	-8%
Lower Huron/Willow/Oakwoods	65,886	68,922	68,236	-3%	\$ 155,971	\$ 152,312	\$ 152,246	2%
Lake Erie	22,950	23,817	26,656	-14%	\$ 45,301	\$ 45,851	\$ 45,687	-1%
Monthly TOTALS	371,268	366,019	385,116	-4%	\$ 953,321	\$ 944,577	\$ 930,305	2%

PARK	Y-T-D VEHICLE ENTRIES				Y-T-D TOLL REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	307,903	299,772	300,799	2%	\$ 1,363,606	\$ 1,253,096	\$ 1,227,924	11%
Wolcott Mill	37,223	45,775	42,660	-13%	\$ 38,416	\$ 43,118	\$ 16,341	135%
Stony Creek	431,204	408,913	408,359	6%	\$ 1,929,139	\$ 2,094,427	\$ 1,912,900	1%
Indian Springs	64,747	65,348	65,226	-1%	\$ 245,250	\$ 240,313	\$ 239,287	2%
Kensington	562,460	555,439	561,575	0%	\$ 2,159,450	\$ 2,330,808	\$ 2,015,731	7%
Huron Meadows	64,920	64,480	63,487	2%	\$ 51,700	\$ 44,255	\$ 43,213	20%
Hudson Mills	138,517	146,678	146,165	-5%	\$ 394,184	\$ 447,336	\$ 412,039	-4%
Lower Huron/Willow/Oakwoods	392,572	410,742	390,406	1%	\$ 880,394	\$ 924,408	\$ 867,259	2%
Lake Erie	137,986	140,617	139,368	-1%	\$ 490,692	\$ 500,757	\$ 472,406	4%
Monthly TOTALS	2,137,532	2,137,764	2,118,044	1%	\$ 7,552,831	\$ 7,878,518	\$ 7,207,098	5%

PARK	MONTHLY PARK REVENUE				Y-T-D PARK REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	\$ 260,070	\$ 237,107	\$ 280,584	-7%	\$ 2,002,890	\$ 1,871,102	\$ 1,882,054	6%
Wolcott Mill	\$ 23,177	\$ 22,721	\$ 65,368	-65%	\$ 167,984	\$ 181,954	\$ 338,740	-50%
Stony Creek	\$ 523,369	\$ 494,604	\$ 516,227	1%	\$ 3,306,906	\$ 3,450,306	\$ 3,298,561	0%
Indian Springs	\$ 185,301	\$ 177,790	\$ 182,070	2%	\$ 899,284	\$ 886,087	\$ 888,338	1%
Kensington	\$ 633,033	\$ 561,335	\$ 575,086	10%	\$ 3,803,410	\$ 3,684,870	\$ 3,507,593	8%
Huron Meadows	\$ 166,168	\$ 166,726	\$ 154,687	7%	\$ 713,496	\$ 672,457	\$ 662,805	8%
Hudson Mills	\$ 160,930	\$ 154,318	\$ 148,612	8%	\$ 872,708	\$ 867,191	\$ 839,302	4%
Lower Huron/Willow/Oakwoods	\$ 598,753	\$ 537,102	\$ 541,816	11%	\$ 2,457,852	\$ 2,433,089	\$ 2,349,756	5%
Lake Erie	\$ 261,010	\$ 240,179	\$ 253,429	3%	\$ 1,450,690	\$ 1,390,070	\$ 1,396,924	4%
Y-T-D TOTALS	\$ 2,811,811	\$ 2,591,881	\$ 2,717,881	3%	\$ 15,675,220	\$ 15,437,125	\$ 15,164,073	3%

District	Y-T-D Vehicle Entries by Management Unit				Y-T-D Total Revenue by Management Unit			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Eastern	776,330	754,460	751,818	3%	\$ 5,477,780	\$ 5,503,361	\$ 5,519,355	-1%
Western	830,644	831,945	836,452	-1%	\$ 6,288,898	\$ 6,110,605	\$ 5,898,038	7%
Southern	530,558	551,359	529,774	0%	\$ 3,908,542	\$ 3,823,159	\$ 3,746,680	4%

# HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2018

GOLF THIS MONTH	MONTHLY ROUNDS				MONTHLY REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Stony Creek	5,967	5,582	5,664	5%	\$ 192,014	\$ 179,135	\$ 180,334	6%
Indian Springs	4,847	4,799	4,674	4%	\$ 138,884	\$ 135,551	\$ 120,330	15%
Kensington	6,119	5,319	5,407	13%	\$ 185,729	\$ 168,104	\$ 145,581	28%
Huron Meadows	5,127	4,862	4,803	7%	\$ 151,777	\$ 149,212	\$ 140,990	8%
Hudson Mills	3,999	3,484	3,308	21%	\$ 92,908	\$ 84,969	\$ 75,728	23%
Willow	4,399	4,474	4,595	-4%	\$ 130,327	\$ 126,285	\$ 118,409	10%
Lake Erie	4,483	4,357	4,677	-4%	\$ 126,026	\$ 121,510	\$ 112,758	12%
Total Regulation	34,941	32,877	33,128	5%	\$ 1,017,665	\$ 964,766	\$ 894,130	14%
LSC Par 3	1,309	1,643	1,680	-22%	\$ 7,664	\$ 9,079	\$ 9,669	-21%
LSC Foot Golf	141	181	295	-52%	\$ 843	\$ 1,166	\$ 2,011	-58%
Total Golf	36,391	34,701	35,864	1%	\$ 1,026,172	\$ 975,011	\$ 910,766	13%

GOLF Y-T-D	GOLF ROUNDS Y-T-D				GOLF REVENUE Y-T-D			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Stony Creek	23,695	22,885	23,377	1%	\$ 766,391	\$ 744,267	\$ 747,553	3%
Indian Springs	19,668	18,837	18,765	5%	\$ 563,794	\$ 544,932	\$ 482,782	17%
Kensington	24,407	22,804	23,107	6%	\$ 750,028	\$ 693,162	\$ 606,635	24%
Huron Meadows	20,603	19,773	19,698	5%	\$ 630,654	\$ 614,461	\$ 575,297	10%
Hudson Mills	16,172	12,931	13,068	24%	\$ 380,914	\$ 316,516	\$ 296,096	29%
Willow	15,535	16,643	17,716	-12%	\$ 449,908	\$ 485,454	\$ 471,890	-5%
Lake Erie	19,050	17,868	19,015	0%	\$ 540,812	\$ 505,273	\$ 473,568	14%
Total Regulation	139,130	131,741	134,746	3%	\$ 4,082,501	\$ 3,904,066	\$ 3,653,820	12%
LSC Par 3	5,698	5,836	6,275	-9%	\$ 32,360	\$ 34,910	\$ 37,908	-15%
LSC Foot Golf	268	740	952	-72%	\$ 1,612	\$ 5,104	\$ 6,929	-77%
Total Golf	145,096	138,317	144,826	0%	\$ 4,116,473	\$ 3,944,080	\$ 3,717,507	11%

AQUATICS THIS MONTH	PATRONS THIS MONTH				MONTHLY REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St. Clair	11,430	8,916	12,463	-8%	\$ 56,847	\$ 42,377	\$ 56,396	1%
Stony Creek Rip Slide	7,240	6,528	8,021	-10%	\$ 40,430	\$ 34,408	\$ 43,235	-6%
KMP Splash	12,882	8,768	10,845	19%	\$ 75,152	\$ 51,035	\$ 61,004	23%
Lower Huron	26,329	22,127	25,336	4%	\$ 270,389	\$ 223,121	\$ 236,049	15%
Willow	3,655	4,659	4,445	-18%	\$ 16,962	\$ 22,150	\$ 21,523	-21%
Lake Erie	7,349	5,871	7,581	-3%	\$ 58,638	\$ 46,392	\$ 51,680	13%
TOTALS	68,885	56,869	69,528	-1%	\$ 518,418	\$ 419,483	\$ 475,463	9%

AQUATICS Y-T-D	PATRONS Y-T-D				REVENUE Y-T-D			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St. Clair	44,976	40,863	47,105	-5%	\$ 224,559	\$ 201,732	\$ 217,974	3%
Stony Creek Rip Slide	24,922	27,476	28,824	-14%	\$ 127,606	\$ 136,070	\$ 149,016	-14%
KMP Splash	42,973	37,752	41,325	4%	\$ 254,826	\$ 225,192	\$ 237,109	7%
Lower Huron	89,841	80,164	87,109	3%	\$ 909,269	\$ 804,883	\$ 809,547	12%
Willow	18,147	18,134	19,114	-5%	\$ 84,057	\$ 89,312	\$ 85,989	-2%
Lake Erie	32,425	28,195	32,444	0%	\$ 252,634	\$ 223,271	\$ 228,741	10%
TOTALS	253,284	232,584	258,289	-2%	\$ 1,852,950	\$ 1,680,460	\$ 1,745,107	6%

# HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2018

PARK	Seasonal Activities this Month				Monthly Revenue			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
<b>Lake St. Clair</b>								
Welsh Center	4	1	3	50%	\$ 3,200	\$ 800	\$ 1,800	78%
Shelters	16	11	30	-47%	\$ 3,815	\$ 4,375	\$ 4,281	-11%
Boat Launches	783	1,260	1,257	-38%	\$ -	\$ -	\$ -	-
Marina	724	640	647	12%	\$ 4,493	\$ 6,406	\$ 5,394	-17%
Mini-Golf	2,604	2,308	2,320	12%	\$ 8,797	\$ 7,737	\$ 8,069	9%
<b>Wolcott</b>								
Activity Center	10	9	15	-32%	\$ 2,500	\$ 500	\$ 833	200%
<b>Stony Creek</b>								
Disc Golf Daily	1,799	2,270	2,552	-29%	\$ 5,397	\$ 7,473	\$ 8,141	-34%
Disc Golf Annual	0	1	0	-	\$ -	\$ 55	\$ 18	-
Total Disc Golf	1,799	2,271	2,552	-30%	\$ 5,397	\$ 7,528	\$ 8,159	-34%
Shelters	25	18	24	6%	\$ 5,625	\$ 4,050	\$ 5,100	10%
Boat Rental	3,624	3,326	3,957	-8%	\$ 37,245	\$ 35,651	\$ 39,801	-6%
Boat Launches	129	96	150	-14%	\$ -	\$ -	\$ -	-
<b>Indian Springs</b>								
Shelters	4	1	3	33%	\$ 800	\$ 200	\$ 200	300%
Event Room	8	9	8	0%	\$ 13,000	\$ 14,400	\$ 13,248	-2%
<b>Kensington</b>								
Disc Golf Daily	2,646	2,953	3,186	-17%	\$ 7,938	\$ 8,859	\$ 9,525	-17%
Disc Golf Annual	1	1	1	0%	\$ 55	\$ 55	\$ 53	3%
Total Disc Golf	2,647	2,954	3,187	-17%	\$ 7,993	\$ 8,914	\$ 9,579	-17%
Shelters	27	28	26	3%	\$ 6,975	\$ 6,975	\$ 6,492	7%
Boat Rental	4,469	3,778	5,031	-11%	\$ 53,490	\$ 53,705	\$ 61,509	-13%
<b>Huron Meadows</b>								
Shelters	0	2	1	-	\$ -	\$ 400	\$ 133	-
<b>Hudson Mills</b>								
Disc Golf Daily	667	987	1,230	-46%	\$ 2,001	\$ 2,961	\$ 3,691	-46%
Disc Golf Annual	0	1	1	-	\$ -	\$ 35	\$ 28	-
Total Disc Golf	667	988	1,231	-46%	\$ 2,001	\$ 2,996	\$ 3,719	-46%
Shelters	8	8	7	9%	\$ 1,600	\$ 1,600	\$ 1,467	9%
Canoe Rental	1,990	1,691	1,813	10%	\$ 11,311	\$ 7,107	\$ 7,793	45%
<b>Lower Huron / Willow / Oakwoods</b>								
Disc Golf Daily	225	300	100	125%	\$ 675	\$ 900	\$ 300	125%
Disc Golf Annual	1	0	0	-	\$ 55	\$ -	\$ -	-
Total Disc Golf	226	300	100	126%	\$ 730	\$ 900	\$ 300	143%
Shelters	22	13	13	65%	\$ 5,000	\$ 2,850	\$ 2,800	79%
<b>Lake Erie</b>								
Shelters	5	3	4	36%	\$ 1,100	\$ 800	\$ 800	38%
Boat Launches	1,730	1,806	1,856	-7%	\$ -	\$ -	\$ -	-
Marina	467	7	28	1595%	\$ 27,147	\$ 24,510	\$ 24,753	10%

# HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2018

PARK	Seasonal Activities Y-T-D			
	Current	Previous	Prev 3 Yr Avg	Change from Average
<b>Lake St. Clair</b>				
Welsh Center	48	35	34	41%
Shelters	228	188	275	-17%
Boat Launches	3,466	4,795	4,581	-24%
Marina	1,889	2,249	2,341	-19%
Mini-Golf	7,618	8,436	8,226	-7%
<b>Wolcott</b>				
Activity Center	69	66	74	-7%
<b>Stony Creek</b>				
Disc Golf Daily	9,294	11,899	13,501	-31%
Disc Annual	102	123	120	-15%
Total Disc Golf	9,396	12,022	13,621	-31%
Shelters	316	326	341	-7%
Boat Rental	14,260	14,566	15,136	-6%
Boat Launches	718	688	899	-20%
<b>Indian Springs</b>				
Shelters	38	21	45	-15%
Event Room	37	41	39	-4%
<b>Kensington</b>				
Disc Golf Daily	15,053	17,657	18,510	-19%
Disc Annual	180	125	156	15%
Total Disc Golf	15,233	17,782	18,666	-18%
Shelters	391	350	368	6%
Boat Rental	16,320	14,046	17,267	-5%
<b>Huron Meadows</b>				
Shelters	26	21	21	22%
<b>Hudson Mills</b>				
Disc Golf Daily	4,714	7,497	7,755	-39%
Disc Annual	163	154	144	13%
Total Disc Golf	4,877	7,651	7,899	-38%
Shelters	92	102	98	-6%
Canoe Rental	5,962	5,220	5,211	14%
<b>Lower Huron / Willow / Oakwoods</b>				
Disc Golf Daily	1,029	1,375	458	125%
Disc Annual	16	13	4	269%
Total Disc Golf	1,045	1,388	463	126%
Shelters	261	247	240	9%
<b>Lake Erie</b>				
Shelters	58	58	64	-9%
Boat Launches	12,366	12,757	11,990	3%
Marina	1,973	29	68	2799%

Seasonal Revenue Y-T-D			
Current	Previous	Prev 3 Yr Avg	Change from Average
\$ 35,350	\$ 28,825	\$ 25,250	40%
\$ 55,939	\$ 55,215	\$ 58,655	-5%
\$ -	\$ -	\$ -	-
\$ 18,585	\$ 19,330	\$ 17,951	4%
\$ 27,218	\$ 29,735	\$ 29,349	-7%
\$ 13,650	\$ 10,540	\$ 12,313	11%
\$ 29,797	\$ 38,230	\$ 44,508	-33%
\$ 5,590	\$ 6,605	\$ 6,078	-8%
\$ 35,387	\$ 44,835	\$ 50,587	-30%
\$ 71,100	\$ 73,250	\$ 72,045	-1%
\$ 148,524	\$ 154,182	\$ 160,910	-8%
\$ -	\$ -	\$ -	-
\$ 7,250	\$ 4,050	\$ 5,800	25%
\$ 59,500	\$ 69,300	\$ 67,142	-11%
\$ 48,787	\$ 52,971	\$ 55,352	-12%
\$ 9,720	\$ 6,755	\$ 6,957	40%
\$ 58,507	\$ 59,726	\$ 62,309	-6%
\$ 89,325	\$ 86,975	\$ 89,537	0%
\$ 198,139	\$ 194,077	\$ 207,953	-5%
\$ 5,200	\$ 4,200	\$ 4,333	20%
\$ 14,142	\$ 22,491	\$ 23,264	-39%
\$ 8,765	\$ 8,250	\$ 7,440	18%
\$ 22,907	\$ 30,741	\$ 30,704	-25%
\$ 19,800	\$ 20,800	\$ 19,733	0%
\$ 18,683	\$ 27,005	\$ 24,158	-23%
\$ 3,096	\$ 4,125	\$ 1,375	125%
\$ 840	\$ 695	\$ 232	263%
\$ 3,936	\$ 4,820	\$ 1,607	145%
\$ 57,450	\$ 53,550	\$ 52,175	10%
\$ 12,600	\$ 13,200	\$ 14,100	-11%
\$ -	\$ -	\$ -	-
\$ 140,880	\$ 131,601	\$ 136,545	3%

PARK	Cross Country Ski Rental this Month			
	Current	Previous	Prev 3 Yr Avg	Change from Average
Stony Creek	\$ -	\$ -	\$ -	-
Kensington	\$ -	\$ -	\$ -	-
Huron Meadows	\$ -	\$ -	\$ -	-
Hudson Mills	\$ -	\$ -	\$ -	-

Cross Country Ski Rental Y-T-D			
Current	Previous	Prev 3 Yr Avg	Change from Average
\$ 7,226	\$ 574	\$ 4,052	-
\$ 14,430	\$ 1,323	\$ 7,550	91%
\$ 24,092	\$ 8,227	\$ 15,925	51%
\$ 5,128	\$ -	\$ 2,693	90%

## INTERPRETIVE FACILITIES

PARK	Monthly Patrons Served				Y-T-D Patrons Served			
	(total program participants and non-program visitors)				(total program participants and non-program visitors)			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	17,963	19,916	17,975	0%	126,261	133,094	124,444	1%
Wolcott Mill	2,396	4,141	3,402	-30%	25,635	25,316	27,217	-6%
Wolcott Farm	4,875	5,532	5,849	-17%	81,040	38,891	60,373	34%
Stony Creek	18,793	18,981	18,700	0%	125,524	140,969	134,184	-6%
Eastern Mobile Center	912	1,456	1,035	-12%	15,400	12,102	10,977	40%
Indian Springs	7,273	8,622	8,281	-12%	53,270	59,455	58,202	-8%
Kens NC	27,139	22,088	25,331	7%	189,569	190,415	189,934	0%
Kens Farm	27,863	33,364	31,058	-10%	193,994	212,878	205,679	-6%
Western Mobile Center	334	1,741	962	-65%	6,418	7,787	8,660	-26%
Hudson Mills	3,880	3,681	3,750	3%	26,793	26,189	26,875	0%
Oakwoods	15,418	14,054	14,258	8%	99,377	104,874	104,041	-4%
Lake Erie	15,728	14,415	13,822	14%	108,120	101,087	93,121	16%
Southern Mobile Center	136	103	172	-21%	8,747	6,871	7,266	20%
Totals	142,710	148,094	144,595	-1%	1,060,148	1,059,928	1,050,975	1%

PARK	Monthly Revenue				YTD Revenue			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	\$ 1,353	\$ 1,929	\$ 1,675	-19%	\$ 17,436	\$ 26,252	\$ 23,867	-27%
Wolcott Mill	\$ 741	\$ 705	\$ 397	87%	\$ 13,997	\$ 10,291	\$ 9,987	40%
Wolcott Farm	\$ 1,292	\$ 1,027	\$ 1,181	9%	\$ 46,544	\$ 49,968	\$ 48,516	-4%
Wagon Rides	\$ 439	\$ 1,092	\$ 681	-36%	\$ 6,950	\$ 11,483	\$ 7,608	-9%
Livestock/Produce	\$ 9,755	\$ 7,692	\$ 5,852	67%	\$ 23,395	\$ 23,883	\$ 21,506	9%
FARM TOTAL	\$ 11,486	\$ 9,811	\$ 7,715	49%	\$ 76,889	\$ 85,334	\$ 77,630	-1%
Stony Creek	\$ 1,089	\$ 1,604	\$ 1,751	-38%	\$ 17,296	\$ 19,354	\$ 19,767	-13%
Eastern Mobile Center	\$ 375	\$ 450	\$ 183	105%	\$ 13,088	\$ 3,555	\$ 1,428	816%
Indian Springs	\$ 1,568	\$ 1,939	\$ 3,382	-54%	\$ 22,511	\$ 25,978	\$ 27,925	-19%
Kens NC	\$ 2,943	\$ 2,334	\$ 1,653	78%	\$ 22,183	\$ 21,375	\$ 19,718	13%
Kens Farm	\$ 4,950	\$ 2,528	\$ 2,612	89%	\$ 55,541	\$ 26,657	\$ 45,941	21%
Wagon Rides	\$ 2,406	\$ 4,065	\$ 2,990	-20%	\$ 14,659	\$ 28,839	\$ 21,728	-33%
Livestock/Produce	\$ 585	\$ 1,401	\$ 1,823	-68%	\$ 3,488	\$ 5,188	\$ 11,222	-69%
FARM TOTAL	\$ 7,941	\$ 7,994	\$ 7,425	7%	\$ 73,688	\$ 60,684	\$ 78,891	-7%
Western Mobile Center	\$ 1,300	\$ 513	\$ 591	120%	\$ 13,575	\$ 11,547	\$ 13,772	-1%
Hudson Mills	\$ 864	\$ 627	\$ 531	63%	\$ 10,300	\$ 10,360	\$ 10,565	-3%
Oakwoods	\$ 1,005	\$ 863	\$ 1,186	-15%	\$ 12,887	\$ 15,085	\$ 12,841	0%
Lake Erie	\$ 730	\$ 903	\$ 659	11%	\$ 8,210	\$ 12,377	\$ 8,942	-8%
Southern Mobile Center	\$ 425	\$ 500	\$ 167	155%	\$ 16,272	\$ 4,387	\$ 1,602	916%
Totals	\$ 31,819	\$ 30,171	\$ 27,313	16%	\$ 318,332	\$ 306,579	\$ 306,936	4%

BREAKDOWN OF ATTENDANCE	ON-SITE Programs and Attendance				OFF-SITE Programs and Attendance			
	CURRENT YEAR		PREVIOUS YEAR		CURRENT YEAR		PREVIOUS YEAR	
	Programs	Attendance	Programs	Attendance	Programs	Attendance	Programs	Attendance
Lake St Clair	74	1,448	100	2,277	0	0	0	0
Wolcott Mill	18	431	24	600	0	0	1	334
Wolcott Farm	18	473	17	492	0	0	0	0
Stony Creek	35	703	40	560	0	0	6	636
Eastern Mobile Center					12	912	9	1,456
Indian Springs	15	253	32	1,122	0	0	0	0
Kens NC	35	622	35	1,184	0	0	0	0
Kens Farm	107	1,958	114	1,864	0	0	0	0
Western Mobile Center					14	334	17	1,741
Hudson Mills	9	103	6	71	12	277	2	110
Oakwoods	25	218	16	175	0	0	0	0
Lake Erie	24	313	10	140	0	0	2	650
Southern Mobile Center					6	136	4	103
Totals	360	6,522	394	8,485	44	1,659	41	5,030
BREAKDOWN OF ATTENDANCE	OTHER VISITORS (Non-programs)							
	Current	Previous						
Lake St Clair	16,515	17,639						
Wolcott Mill	1,965	3,207						
Wolcott Farm	4,402	5,040						
Stony Creek	18,090	17,785						
Indian Springs	7,020	7,500						
Kens NC	26,517	20,904						
Kens Farm	25,905	31,500						
Hudson Mills	3,500	3,500						
Oakwoods	15,200	13,879						
Lake Erie	15,415	13,625						
Totals	134,529	134,579						

"ON-SITE" - Statistics includes both programs offered to the public and programs offered to school and scout groups.

"OFF-SITE" - Statistics includes outreach programs at schools, special events such as local fairs, or outdoor related trade shows.

"OTHER VISITORS" - Represents patrons to interpretive centers who visit to view exhibits, walk trails, and generally just enjoy the outdoors.