

**Agenda**  
**Huron-Clinton Metropolitan Authority**  
**Board of Commissioners Meeting**  
**September 8, 2022 – 12:30 p.m.**

**Lake Erie Metropark – Pool Food Bar Area (via Zoom for the public)**

<https://us02web.zoom.us/j/88520055982?pwd=cnUzK0FpM3Q1NmhOMHYrb0tKUFdLQT09>

**Meeting ID:** 885 2005 5982 / **Passcode:** HCMA2022

Dial by your location: +1 929 205 6099 (New York) / +1 301 715 8592 (Washington, D.C)

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1. Call to Order
2. Chairperson's Statement
3. Public Participation
4. Approval – August 11, 2022 Regular Minutes
5. Approval – September 8, 2022 Full Agenda

**Consent Agenda**

**6. Approval**

- a. Approval – August 2022 Financial Statements
- b. Approval – August 2022 Appropriation Adjustments **pg. 1**
- c. Report – Capital Project Fund Update **pg. 3**
- d. Report – Major Maintenance Update **pg. 10**
- e. Bids – Irrigation Controller Replacement, Indian Springs **pg. 14**
- f. Bids – Golf Course Drainage Improvements, Stony Creek **pg. 15**
- g. Bids – Winter Cove Picnic Accessibility Improvements, Stony Creek **pg. 16**
- h. Bids – Vault Latrine Installation, Hudson Mills **pg. 18**
- i. Bids – Tollbooth Electrical, Oakwoods **pg. 20**
- j. Bids – Vault Latrine Installation, Lake Erie **pg. 21**
- k. Purchases
  1. Report – Purchases over \$10,000 **pg. 23**
  2. Total Spend and Vendor Location **pg. 24**
  3. Cooperative purchase for 2023 F-150s **pg. 26**
  4. Police Vehicle Upfitting **pg. 27**

**Regular Agenda**

**7. Reports**

**A. Administrative Office**

1. Update – Hexavalent Chromium Spill, EGLE/DHHS Representatives **pg. 28**

**B. Financial Department**

1. Report – Monthly Financial Review **pg. 29**

**C. Departmental Updates**

1. Report – Natural Resources Update **pg. 42**
2. Report – Planning and Development Update **pg. 49**
3. Report – Interpretive Services Update **pg. 68**
4. Report – DEI Update **pg. 78**
5. Report – Marketing Update **pg. 82**

7. **Reports**

**D. Planning and Development**

1. Report – Visitation/Permit Scanning Update **pg. 87**
2. Report – Southeast MI Swim Program Development Plan Update **pg. 88**
3. Report – Avian Monitoring Update, Lake St. Clair **pg. 393**
4. Approval – Cherry Island Trail Project Agreement (MNRTF Grant), Lake Erie **pg. 395**
5. Approval – MOU, Wyandot of Anderdon Nation **pg. 405**

**E. Engineering Department**

1. Bids – Big Bend Parking Lot Removal and Restoration, Willow **pg. 406**
2. Bids – Big Bend Erosion and Habitat Restoration, Willow **pg. 407**

8. Leadership Update

9. Other Business

10. Public Participation

11. Commissioner Comments

12. Motion to Adjourn

The next regular Metroparks Board meeting will take place  
**Thursday, Oct. 13, 2022 – 12:30 p.m.**  
[Administrative Office Board Room](#)



To: Board of Commissioners  
From: Shedreka Miller, Chief of Finance  
Subject: Approval – August Appropriation Adjustments  
Date: September 2, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners approve the August 2022 Appropriation Adjustments as recommended by Chief of Finance Shedreka Miller 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, \$89,999 was transferred between general fund accounts. Transfers were also processed within the capital project fund totaling \$53,432. Tax adjustments resulted in a net increase in fund balance of \$2,438.

The result of these changes can be seen by Accounting Function and Location in the attached chart.

**Attachment: Appropriation Adjustments**

### August 2022 Appropriation Transfer Summary

Location	Expense Increase	Expense Decrease/ Revenue Increase	Difference
<b>General Fund Transfers</b>			
<b>Major Maintenance</b>			
Administrative Office	-	344	(344)
Lake Erie	38	-	38
Huron Meadows	305	-	305
<b>Total</b>	<b>\$ 344</b>	<b>\$ 344</b>	<b>\$ -</b>
<b>Operations</b>			
Lake St. Clair	8,735	8,735	-
Stony Creek	13,350	13,350	-
<b>Total</b>	<b>\$ 22,085</b>	<b>\$ 22,085</b>	<b>\$ -</b>
<b>Administrative</b>	67,570	67,570	-
	<b>\$ 67,570</b>	<b>\$ 67,570</b>	<b>\$ -</b>
<b>Total General Fund Transfers</b>	<b>\$ 89,999</b>	<b>\$ 89,999</b>	<b>\$ -</b>
<b>Capital Project Fund Transfers</b>			
Administrative	-	53,432	(53,432)
Lake St. Clair	9,653	-	9,653
Kensington	7,687	-	7,687
Lower Huron/Willow/Oakwoods	17,581	-	17,581
Hudson Mills	5,349	-	5,349
Stony Creek	11,350	-	11,350
Lake Erie	1,811	-	1,811
<b>Total</b>	<b>\$ 53,432</b>	<b>\$ 53,432</b>	<b>\$ 0</b>
<b>Tax Adjustment</b>			
	<b>Revenue Decrease</b>	<b>Revenue Increase</b>	<b>Net</b>
Current	2,037	-	2,037
Prior	401	-	401
<b>Total</b>	<b>\$ 2,438</b>	<b>\$ -</b>	<b>\$ 2,438</b>





To: Board of Commissioners  
From: Shedreka Miller, Chief of Finance  
Subject: Report – Monthly Capital Project Fund Update  
Date: September 2, 2022

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

That the Board of Commissioners' receive and file the Capital Project Fund report as submitted by Shedreka Miller and staff.

**Background:** In 2018, the Board of Commissioners approved the creation of a capital project fund. To improve the information provided on specific capital improvement projects Finance is working on developing a monthly performance report.

The following columns of data are provided by project:

- Life-To-Date Total Project Budget
- Year-To-Date Total Project Expenditures
- Life-To-Date Total Project Expenditures
- Current Project Encumbrances (Funds committed through the purchase order process)
- Balance (Life-To-Date Budget less Life-To-Date Expenditures and Current Encumbrances)

This information has now been augmented to include the original budget. In addition, a new page has been added which provides a more detailed description of the project as well as the current status of the project and the current estimate of what year the project will be completed.

Expenditures during August 2022 were primarily related to payments for contracted work. The following projects had significant expenses during the month:

- Lake St Clair – Accessible Launch
- Kensington – West Boat Launch Accessible Kayak Launch
- Lower Huron – New Slide Structure at Turtle Cove
- Stony Creek – Boat Launch Building Redevelopment
- Lake Erie – Shoreline and Fish Habitat Restoration

**Attachment: August 2022 Capital Project Fund Update**

### August Capital Project Fund Report - Project Summary

Location	Original Project Title	Project Description	Amended Budget	Available Grant Funding	Project Status	Estimated Completion Year
Lake St Clair	Black Creek Marsh Wetland Filtration Enhancement	A natural shoreline project which will remove rip-rap, regrade slope and install native vegetation which will improved filtration of water entering the marsh and improve habitat as well as reducing erosion.	299,922	160,000	To finish in Fall	2022
Lake St Clair	Accessible Kayak Launch & Power Installation		56,151	-	In Design	2023
Lake St Clair	Backup Internet Fiber Installation	Comcast installation of underground fiber network	40,000	-	Complete	2022
Lake St Clair	Electrical Grid Replacement	Assessments, cost estimates, and project development for future projects to address electrical power infrastructure upgrades and repairs.	807,281	-	Currently finalizing alignment for phase I	2026
Lake St Clair	Beach Restoration	Multi-year EGLE grant project through 2023. Plantings and bird deterrents installation to improve water quality funding includes follow up water quality monitoring.	480,265	292,167	In Construction	2023
Lake St Clair	Michigan Coastal Management Program- Accessible Launch	Accessible Kayak Launch - grant application has been made to Michigan Coastal Management Program.	555,976	196,425	In Design	2023
Lake St Clair	Entrance/Office Road Reconstruction	Reconstruction of deteriorating Entrance Road, Office road	1,407,029		In Construction	2023
Lake St Clair	Wood Bridge near Interpretive Center Replacement	Replace 70'-long wood structure damaged over past 3 years due to high water. Requires permits.	62,413	-	Budgeted	2023
Lake St Clair	Upgrade 4th Tollbooth	Purchase new portable booth. Directional bore power to unit for RecTrac system.	27,538	-	Project Starting	2022
Kensington	West Boat Launch - Accessible Kayak Launch	Michigan Natural Resources Trust Fund grant funded project to develop an accessible kayak launch and associated site amenities at West Boat Launch.	432,892	154,000	In Construction	2022
Kensington	Accessible Path from N Hickory Shelter to Restroom	Pave 580 lf path from shelter to restrooms per the ADA Transition Plan.	66,273	-	Budgeted	2023
Kensington	Accessible Path from S Martindale Shelter to Vault & Beach	Pave 950 lf path from shelter to restrooms and beach area per the ADA Transition Plan. Include concrete work needed for access mat across beach sand.	85,954	-	Budgeted	2023
Kensington	Accessible Path from N Martindale Shelter to Beach	Pave 250 lf path section along parking lot to connect shelter with beach area, food bar, and bathhouse.	30,354	-	Budgeted	2023
Dexter	Delhi Launch & Take Out Renovations	Renovation of launch area at Delhi.	306,000	153,000	Budgeted	2023
Lower Huron	North Fishing Site Redevelopment	Land and Water Conservation Fund grant funded project to improve accessibility and site amenities at the Walnut Grove Campground.	297,399	144,400	Construction Completed-Awaiting Grant	2022
Lower Huron	Backup Internet Fiber Installation	Comcast installation of underground fiber network	185,362	-	In Construction	2022
Lower Huron	Toll Booth Replacement and Paving	Toll Booth replacement on existing pedestal at Oakwoods and Lower Huron - Beemis Road entrance.	31,817	-	In Construction	2022
Lower Huron	Turtle Cove Crosswalk Path	Construction of a path and crosswalk from the Foxwoods parking lot to Turtle Cove	102,770	-	Completed	2022
Lower Huron	Iron Bell Trail Project	Michigan Natural Resources Trust Fund grant funded project to extend the Iron Bell trail from its current terminus to the north park entrance (Huron River Drive)	845,016	488,742	In Construction	2022

### August Capital Project Fund Report - Project Summary

Location	Original Project Title	Project Description	Amended Budget	Available Grant Funding	Project Status	Estimated Completion Year
Lower Huron	Walnut Grove Campground Improvements	Land and Water Conservation Fund grant funded project to improve accessibility and site amenities at the Walnut Grove Campground.	784,600	450,000	Awaiting Grant Agreement	2023
Lower Huron	Off Leash Dog Area Development	Land and Water Conservation Fund grant funded project to develop a new fenced in area for off leash dog activities	330,800	165,400	Awaiting Grant Agreement	2023
Lower Huron	New Slide Structure at Turtle Cove	Install new slide at Turtle Cover water park.	1,630,649	-	Project Started	2023
Lower Huron	Accessible Path from Hawthorne Glade N Shelter to Turtle Cove	Pave 1,285 lf path from shelter to restrooms and Turtle Cove area per the ADA Transition Plan.	110,813	-	Budgeted	2023
Lower Huron	Accessible Path from Tulip Tree Shelter to Restrooms	Pave 330 lf path from shelter to restrooms per the ADA Transition Plan; this area is not included in the Walnut Grove campground LWCF grant project.	31,838	-	Budgeted	2023
Hudson Mills	Backup Internet Fiber Installation	Comcast installation of underground fiber network	7,994	-	Completed	2022
Hudson Mills	Rapids View area Development	Michigan Natural Resources Trust Fund grant funded project to develop an accessible kayak launch and associated site amenities at Rapids View	678,283	226,900	In Construction	2022
Hudson Mills	Picnic Area Development at Canoe Launch	Michigan Natural Resources Trust Fund grant funded project to develop an accessible kayak launch and associated site amenities at Dexter-Huron	404,915	192,700	Awaiting Grant Agreement	2023
Hudson Mills	UST Removal	Removal of underground storage tank at Golf Course	39,131	-	Near Completion	2022
Hudson Mills	Replace Vault Toilet with CXT	Replace curren vault toilet with CXT.	113,433	-	Budgeted	2022
Hudson Mills	Accessible Access to Activity Center Shelter	Pave 320 lf path from bike trail to AC shelter to make it ADA compliant. Include accessible tables/grill & concrete pad as part of project.	40,212	-	Budgeted	2023
Hudson Mills	Convert Gas Storage Tanks for Above Ground	Conversion of gas storage tanks	127,273	-	In Design	2022
Stony Creek	Shelden Trails Redevelopment	Redevelopment of the multi-use natural surface Shelden Trails system	863,845	50,000	In Construction	2022
Stony Creek	Boat Launch Building Redevelopment	Construction of a new restroom and shade structure at the boat lauch facility	2,065,067	50,000	In Construction	2022
Stony Creek	Development of Off Leash Dog Area	Michigan Natural Resources Trust Fund grant funded project to develop a new fenced in area for off leash dog activities	271,003	-	Completed	2022
Stony Creek	Backup Internet Fiber Installation	Comcast installation of underground fiber network	80,000	-	Substantially Completed	2022
Stony Creek	26 Mile Rd. Connector - Bike Path	Transportation Alternatives Program grant (obtained by Macomb County) funded project to connect into the park from 26 Mile Rd	39,972	-	In Construction	2022
Stony Creek	Golf Course Pumphouse & Irrigation System Replacement	Replacement of intakes, pumps, controls, piping and heads. One year of design before construction.	1,000,000	-	In Design	2023
Stony Creek	Accessible Path from Winter Cove N to Winter Cove S Shelters	Pave 625 lf in asphalt paths connecting both Wintercove shelters to lot, restroom and playground areas per the ADA Transition Plan.	59,016	-	Budgeted	2023
Stony Creek	Accessible Path from W Branch North Shelter to Restroom	Pave 310 lf asphalt paths from shelter to restroom per the ADA Transition Plan.	64,197	-	Completed	2023

### August Capital Project Fund Report - Project Summary

Location	Original Project Title	Project Description	Amended Budget	Available Grant Funding	Project Status	Estimated Completion Year
Stony Creek	Develop Shelter in former Banquet Tent Area	Replace Banquet Tent with shelter.	500,000	-	Budgeted	2023
Stony Creek	Seawall Repair & Washington Twp Fire Dept Boat Pier	Repair the seawall at the Boat Launch / update parking lot lighting. Incorporate pier for Washington Twp. FD & Metroparks police boat.	572,322	-	Budgeted	2023
Stony Creek	Reflection Nature Trail Improvements	Removal and realignment of 1/2 mile of 6' wide asphalt path, 284 lf of 8' wide boardwalk, replacement of three existing footbridges, a 400sf overlook structure and pond dipping platform.	931,200	465,600	Budgeted	2023
Stony Creek	Hike Bike Path & Bridge Replacement btwn Winter Cove & Mt Vernon	Replace with precast bridge between Wintercove and Mt. Vernon, original structure (15' x 40) is failing, uneven decking and enrty, exit points. Leading to injuries from cyclists and rollerbladers. It is no longer safe to plow during the winter. Requires permits.	80,496	-	Budgeted	2023
Willow	Park Office Replacement	Construction of a new park office building at the north end of Willow Metropark to replace the sub-standard legacy facility at Lower Huron Metroparks.	2,771,826	-	Substantially Completed	2022
Willow	Backup Internet Fiber Installation	Comcast installation of underground fiber network	-	-	In Review	2022
Willow	Big Bend Shoreline Protection	National Fish and Wildlife Foundation SE MI Resilience Fund grant project to mitigate Huron River streambank erosion and improve habitat	519,201	250,000	Design Started	2023
Willow	Washago Pond Restoration	Removal of that dam structure, sheet pile walls and docks and subsequent site restoration.	905,338	-	Budgeted	2023
Willow	Accessible Path from Fox Meadows N & S Shelters to Pool	Pave 650 lf asphalt paths connecting both Fox Meadows shelters to the restroom and to the pool activity area/playground per the ADA Transition Plan.	65,000	-	Budgeted	2023
Willow	Willow Park Office Communicaiton Conduit	Connectivity to new park office	33,808	-	In Construction	2022
Oakwoods	Backup Internet Fiber Installation	Comcast installation of underground fiber network	-	-	In Review	2022
Oakwoods	Accessible Nature Trail Development	Land and Water Conservation Fund grant funded project to develop an accessible nature trail and make associated site improvements	250,294	124,000	Awaiting Grant Agreement	2023
Lake Erie	Shoreline and Fish Habitat Restoration	This shoreline project will regrade the existing shoreline, install native vegetation as well as creating near-shore shoals. Channels and pools will also be created in the nearby marsh. This work will improve fish spawning habitat.	1,636,266	1,404,353	In Construction	2023
Lake Erie	Boat Launch Fish Cleaning Station	Installation of an onsite fish cleaning station at the boat launch facility	45,000	122,500	Budgeted	2023
Lake Erie	Accessible Kayak Launch with Area Development	Land and Water Conservation Fund grant funded project to develop an accessible kayak launch and associated site amenities at the Boat Launch	245,406	-	In Design	2023
Lake Erie	Cherry Island Nature Trail Improvements	Trail Improvements including aggregate trail from parking lot to new trail head and accessible amenities.	871,800	600,000	Awaiting Grant Agreement	2023
Lake Erie	Cove Point Vault Toilet Replacements	Cove Point vaults -removal/replacement of 2 vaults with CXTs.	105,716	-	Budgeted	2023

**August Capital Project Fund Report - Project Summary**

<b>Location</b>	<b>Original Project Title</b>	<b>Project Description</b>	<b>Amended Budget</b>	<b>Available Grant Funding</b>	<b>Project Status</b>	<b>Estimated Completion Year</b>
Lake Erie	Sewer Line Replacement at Boat Launch Building	Install new sewer line to service Boat Launch building, including pump upgrades and controls.	156,011	-	Budgeted	2023
Wolcott	Farm to Mill Trail Connector	Development of a connector trail from the Farm to the Mill. Multi year project design and construction	1,000,958	-	Budgeted	2024
Indian Springs	Backup Internet Fiber Installation	Comcast installation of underground fiber network	7,758	-	Completed	2022
Huron Meadows	Backup Internet Fiber Installation	Comcast installation of underground fiber network	-	-	In Review	2022
			<u>25,561,853</u>	<u>5,690,187</u>		

**Capital Project Status Report  
as of 08/31/2022**

<b>Location</b>	<b>Project Title</b>	<b>Original Budget</b>	<b>Amended Budget</b>	<b>Year to Date Transactions</b>	<b>Life to Date Transactions</b>	<b>Life to Date Encumbrance</b>	<b>Remaining Budget</b>	<b>Available Grant Funding</b>
Lake St Clair	Black Creek Marsh Wetland Filtration Enhancement	253,000	299,922	-	97,616	-	202,306	160,000
Lake St Clair	Accessible Kayak Launch & Power Installation	50,000	56,151	-	-	-	56,151	
Lake St Clair	Backup Internet Fiber Installation	40,000	40,000	-	-	30,815	9,185	
Lake St Clair	Electrical Grid Replacement	802,216	807,281	11,450	70,199	46,483	690,600	
Lake St Clair	Beach Restoration	400,000	480,265	50,927	353,790	113,927	12,548	292,167
Lake St Clair	Michigan Coastal Management Program-Accessible Launch	392,850	555,976	414,305	419,327	138,547	(1,898)	196,425
Lake St Clair	Entrance/Office Road Reconstruction	1,100,000	1,407,029	33,969	33,969	1,379,309	(6,249)	
Lake St Clair	Wood Bridge near Interpretive Center Replacement	62,000	62,413	413	413	-	62,000	
Lake St Clair	Upgrade 4th Tollbooth	27,500	27,538	38	38	19,270	8,230	
Kensington	West Boat Launch - Accessible Kayak Launch	308,000	432,892	338,451	354,907	80,555	(2,570)	154,000
Kensington	Accessible Path from N Hickory Shelter to Restroom	65,000	66,273	1,273	1,273	-	65,000	
Kensington	Accessible Path from S Martindale Shelter to Vault & Beach	85,000	85,954	954	954	-	85,000	
Kensington	Accessible Path from N Martindale Shelter to Beach	30,000	30,354	354	354	-	30,000	
Dexter	Delhi Launch & Take Out Renovations	306,000	306,000	-	-	-	306,000	153,000
Lower Huron	North Fishing Site Redevelopment	288,800	297,399	-	290,799	-	6,600	144,400
Lower Huron	Backup Internet Fiber Installation	205,000	185,362	-	150,000	33,702	1,660	
Lower Huron	Toll Booth Replacement and Paving	30,000	31,817	1,817	23,657	-	8,160	
Lower Huron	Turtle Cove Crosswalk Path	90,000	102,770	109,262	117,036	-	(14,265)	
Lower Huron	Iron Bell Trail Project	716,700	845,016	15,637	64,143	771,724	9,149	488,742
Lower Huron	Walnut Grove Campground Improvements	784,600	784,600	-	-	-	784,600	450,000
Lower Huron	Off Leash Dog Area Development	330,800	330,800	-	-	-	330,800	165,400
Lower Huron	New Slide Structure at Turtle Cove	1,600,000	1,630,649	209,349	209,349	789,831	631,469	
Lower Huron	Accessible Path from Hawthorne Glade N Shelter to Turtle Cove	110,000	110,813	813	813	-	110,000	
Lower Huron	Accessible Path from Tulip Tree Shelter to Restrooms	30,000	31,838	1,838	1,838	-	30,000	
Hudson Mills	Backup Internet Fiber Installation	40,000	7,994	650	650	-	7,344	
Hudson Mills	Rapids View area Development	453,800	678,283	558,966	596,396	88,423	(6,536)	226,900
Hudson Mills	Picnic Area Development at Canoe Launch	385,500	404,915	7,514	19,415	-	385,500	192,700
Hudson Mills	UST Removal	-	39,131	31,583	37,899	2,465	(1,232)	
Hudson Mills	Replace Vault Toilet with CXT	110,000	113,433	3,433	3,433	-	110,000	
Hudson Mills	Accessible Access to Activity Center Shelter	40,000	40,212	212	212	-	40,000	
Hudson Mills	Convert Gas Storage Tanks for Above Ground	150,000	127,273	-	-	-	127,273	
Stony Creek	Shelden Trails Redevelopment	182,689	863,845	(25,000)	812,360	29,500	21,985	50,000
Stony Creek	Boat Launch Building Redevelopment	1,750,000	2,065,067	991,420	1,448,532	550,379	66,156	50,000
Stony Creek	Development of Off Leash Dog Area	138,500	271,003	59,242	276,493	-	(5,490)	
Stony Creek	Backup Internet Fiber Installation	80,000	80,000	-	-	70,407	9,593	
Stony Creek	26 Mile Rd. Connector - Bike Path	-	39,972	40,428	62,292	7,120	(29,440)	
Stony Creek	Golf Course Pumphouse & Irrigation System Replacement	1,000,000	1,000,000	-	-	-	1,000,000	
Stony Creek	Accessible Path from Winter Cove N to Winter Cove S Shelters	55,000	59,016	4,016	4,016	-	55,000	
Stony Creek	Accessible Path from W Branch North Shelter to Restroom	35,000	64,197	63,487	63,487	-	710	
Stony Creek	Develop Shelter in former Banquet Tent Area	500,000	500,000	-	-	-	500,000	
Stony Creek	Seawall Repair & Washington Twp Fire Dept Boat Pier	570,000	572,322	2,322	2,322	-	570,000	
Stony Creek	Reflection Nature Trail Improvements	931,200	931,200	-	-	-	931,200	465,600
Stony Creek	Hike Bike Path & Bridge Replacement btwn Winter Cove & Mt Vernon	800,000	80,496	496	496	-	80,000	
Willow	Park Office Replacement	2,121,300	2,771,826	482,975	2,538,199	62,094	171,532	
Willow	Backup Internet Fiber Installation	40,000	-	-	-	-	-	
Willow	Big Bend Shoreline Protection	501,593	519,201	23,337	36,931	26,613	455,657	250,000

**Capital Project Status Report  
as of 08/31/2022**

<b>Location</b>	<b>Project Title</b>	<b>Original Budget</b>	<b>Amended Budget</b>	<b>Year to Date Transactions</b>	<b>Life to Date Transactions</b>	<b>Life to Date Encumbrance</b>	<b>Remaining Budget</b>	<b>Available Grant Funding</b>
Willow	Washago Pond Restoration	903,697	905,338	1,640	5,338	-	900,000	
Willow	Accessible Path from Fox Meadows N & S Shelters to Pool	65,000	65,000	-	-	-	65,000	
Willow	Willow Park Office Communicaiton Conduit	-	33,808	-	-	33,808	-	
Oakwoods	Backup Internet Fiber Installation	40,000	-	-	-	-	-	
Oakwoods	Accessible Nature Trail Development	248,000	250,294	-	2,294	-	248,000	124,000
Lake Erie	Shoreline and Fish Habitat Restoration	1,600,000	1,636,266	188,961	396,843	977,662	261,760	1,404,353
Lake Erie	Boat Launch Fish Cleaning Station	45,000	45,000	-	-	-	45,000	
Lake Erie	Accessible Kayak Launch with Area Development	245,000	245,406	-	406	-	245,000	122,500
Lake Erie	Cherry Island Nature Trail Improvements	870,800	871,800	-	-	-	871,800	600,000
Lake Erie	Cove Point Vault Toilet Replacements	100,000	105,716	5,716	5,716	-	100,000	
Lake Erie	Sewer Line Replacement at Boat Launch Building	150,000	156,011	6,011	6,011	-	150,000	
Wolcott	Farm to Mill Trail Connector	1,000,000	1,000,958	-	958	-	1,000,000	
Indian Springs	Backup Internet Fiber Installation	40,000	7,758	-	-	-	7,758	
Huron Meadows	Backup Internet Fiber Installation	80,000	-	-	-	-	-	
		<b>23,379,545</b>	<b>25,561,853</b>	<b>3,638,260</b>	<b>8,511,175</b>	<b>5,252,633</b>	<b>11,798,044</b>	<b>5,690,187</b>



To: Board of Commissioners  
From: Shedreka Miller, Chief of Finance  
Subject: Report – Monthly Major Maintenance Project  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the Major Maintenance report as submitted by Chief of Finance Shedreka Miller and staff.

**Background:** The Metroparks track the costs associated with periodic or infrequent repairs or maintenance that do not meet the criteria for capitalization in a function of our chart of accounts known as major maintenance. We utilize a project accounting system to budget, record and report these costs.

Most major maintenance repairs are completed within one year. Occasionally projects require additional time to complete.

As of the end of August, there has been a lot of work contracted or started but year-to-date expenses are 22.5 percent of the total budget.

**Attachment: August 2022 Major Maintenance Status Report**



**Major Maintenance Status Report**  
as of 8/31/2022

Location	Project Title	Project Description	Original Budget	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Project Status
Administrative Office	Interior/Exterior Door Replacement	Replace Doors	-	17,957	17,957	17,957	-	-	Completed-4/4/22
Administrative Office	Interior/Exterior Door Replacement	Replace Doors	20,000	17,951	-	-	-	17,951	
Lake St Clair	North/South Marina Dock Electrical	Replace electrical conductors that feed the power to the pedestals for boaters at the North Marina rental slips. Current electrical has been damaged due to high water levels	150,000	16,021	495	16,021	-	-	
Lake St Clair	Pool Slide Pump Conduit & Conductor Replacement	Replace pump on pool slide	-	171,122	-	171,122	-	-	Complete-2/14/22
Lake St Clair	Fishing Pier Replacements	Donation Funded project	-	189,680	90,929	96,906	96,354	(3,580)	In Progress
Lake St Clair	Beach Soil/Containment Removal	In excess of 50,000 cubic yards of seaweed and other debris have accumulated from beach cleaning	-	50,000	49,250	49,250	-	750	Completed-1/24/22
Lake St Clair	Boardwalk Re-Surface of Remaining 1,100 ft	Continuation of decking Replacement and Repairs	150,000	2,100	2,100	2,100	-	-	
Lake St Clair	Stormwater Drainage Repairs on Culverts	Replacement of deteriorated culverts throughout the park	45,000	-	-	-	-	-	
Lake St Clair	Culvert Replacemet (CUL-LSC-002, 009, 029)	Replacement of old deteriorated culverts-part of plan	26,191	-	-	-	-	-	
Kensington	Dam Concrete Work	Fix concrete spalling	247,000	3,698	-	3,698	-	-	
Kensington	Restripe roadways/crosswalks parkwide, accessible parking	Replacement of faded pavement markings	25,000	279	279	279	-	-	
Kensington	Repainting of Sprayzone towers and fence (at Martindale)	Painting of steel structures and fencing	100,000	-	-	-	-	-	
Kensington	Island Road repairs	Roadway Edge and Surface Repairs	438,000	410,874	321,534	321,534	-	89,340	In Progress
Kensington	Spring Hill Swing Set Replacement	Replacement of old play equipment	30,000	21,525	21,525	21,525	-	-	Awaiting Final Payment
Kensington	Golf Course Pump Control Panels	Emergency repair of pump house control panels due to flooding	-	46,756	99,131	99,131	-	(52,376)	Awaiting Final Payment
Kensington	Roadway Overbanding	Overbanding on Roadways throughout the park	-	19,840	19,840	19,840	-	-	Complete-6/21/22
Kensington	Service Yard Tile Field Replacement	Replace Tile at Service Yard	-	1,186	1,186	1,186	-	-	
Kensington	Trail Improvement - Martindale north to Shore Fishing	Replaces the existing failing asphalt surface on the bike trail	427,000	-	-	-	-	-	
Kensington	Shore Line Restoration (SLR-KEN-002/003)	Shoreline erosion mitigation	73,000	-	-	-	-	-	
Kensington	Boat Launch Building & Seawall Repairs	Repairs to the steel on the existing seawall	30,000	-	-	-	-	-	
Kensington	Replace culverts (CUL-Ken-041,85,89)	Replacement of old deteriorated culverts	17,000	-	-	-	-	-	
Lower Huron	Replacement of Starter Tub-Turtle Cove	Replacement of the starting tub for the Turtle Cove green tube slide. Located at the top of the slide tower, crane needed to assist in replacement.	-	53,815	56,082	65,181	-	(11,366)	Almost Completed
Lower Huron	Woods Creek Restroom Furnace	Install furnace in restroom closest to new Playground	-	11,265	11,265	11,265	-	-	Complete-2/3/22
Lower Huron	Turtle Cove UV Light Replacement	Replacement of ultraviolet disinfection for pool	25,000	14,299	-	-	14,299	-	In Progress
Lower Huron	Turtle Cove - Marcite Annual Repairs	General annual surface repairs	15,000	-	-	-	-	-	
Lower Huron	Turtle Cove Splash Pad Resurfacing	Splash area concrete surface coating	30,000	19,750	19,750	19,750	-	-	Complete-6/10/22
Lower Huron	Rebudget - Turtle Cove VFD Panels Replacement	Control panel variable speed drive controller replacements	35,000	33,170	33,547	33,547	-	(377)	In Progress

**Major Maintenance Status Report**  
as of 8/31/2022

Location	Project Title	Project Description	Original Budget	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Project Status
Lower Huron	Lower Huron North End Parkway Resurfacing	Roadway surface repairs	650,000	-	-	-	-	-	-
Lower Huron	Lower Huron Drainage/Culvert Replacement CUL LH 564 Camp Dr	Replacement of old deteriorated culverts	12,090	-	-	-	-	-	-
Hudson Mills	Golf Starter Building Roof Replacement	Replacement of flat roof section	80,000	1,220	-	1,220	-	-	-
Hudson Mills	Golf Course Pump Station Upgrades	Replacement pumps	-	66,000	1,000	66,000	-	-	In Progress
Hudson Mills	Cart Path Repairs	Asphalt cart path surface repairs	40,000	-	-	-	-	-	-
Hudson Mills	Replace Outfalls (SDC-HUD-001, 009, 016) per Storm Mgmt Plan	Replacement of stormwater discharge culvert SDC) outfalls	14,000	-	-	-	-	-	-
Stony Creek	Golf Course Culvert Installs for Water Drainage	Cut cart path and install culvert to eliminate wet areas	40,000	27,250	27,250	27,250	-	-	Complete-6/23/22
Stony Creek	Pavement Markings	Address worst portions of trail and roadway	-	18,950	-	15,010	3,940	-	Open
Stony Creek	Restriping of park roads, hike-bike paths & crosswalks	Restriping of pavement markings	35,000	35	35	35	35,020	(35,020)	-
Stony Creek	Small Well Replacement	New well and controller for supplemental water well	30,000	305	305	305	-	-	-
Stony Creek	Stormwater Drainage Repairs on Culverts	Replacement of deteriorated culverts	50,000	-	-	-	-	-	-
Willow	Hike Bike Trail Reconstruction-Oakwoods Connector to Chestnut Rd	Hike bike trail resurface and correct drainage issue between Oakwoods and Willow Metroparks.	-	157,331	16,353	151,262	-	6,069	Completed-2/1/22
Willow	Hike Bike Trail CSX Crossing Accessibility Improvements	Trail Improvements	-	1,722	1,722	1,722	-	-	-
Willow	Willow Woods creek Trailhead Relocation	Installation of new trailhead signage	15,000	-	-	-	-	-	-
Lake Erie	Marina Building Use Evaluation	Marina Building Use Evaluation	-	30,000	-	20,500	7,500	2,000	In Progress
Lake Erie	Boat Launch Sanitary Updates	Replacement of nonfunctioning sewer line and pumps	-	102	-	102	-	-	-
Lake Erie	Dredge Marina Channel and Relocate Spoils pile	Dredging and moving of previous spoils piles	150,000	5,583	15,632	18,670	-	(13,087)	In Design
Lake Erie	Marcite Repair at Shallow End of Wave Pool	Total replacement of the Wave pool shallow end marcite; roughly 12,500 sq ft.	-	388,918	-	67,067	321,852	-	-
Lake Erie	Wave Pool Plaza Cement Work	Various sections of cement around wave pool plaza; to include a section of the hike bike path behind pool mechanical building.	-	75,941	2,778	18,103	54,058	3,780	-
Lake Erie	Museum Wall Repair	Repair of leaning pation retaining wall	100,000	1,695	1,695	1,695	-	-	-
Lake Erie	Golf Maintenance Building Repairs	Repair/replace a wall, window and exterior siding of the Lake Erie golf course maintenance building.	-	23,350	23,350	23,350	-	-	-
Lake Erie	Marina Boiler Vent Stack Repair	Repair of existing heating vent stack on the marina building	-	23,906	8,906	23,906	-	-	-
Lake Erie	Nature trail boardwalk repairs of Northern Trapper run	Replacement of deteriorated wooded boardwalk	35,000	-	-	-	-	-	-
Lake Erie	Wave Pool Plaza Cement Work	Various sections of cement around wave pool plaza; to include a section of the hike bike path behind pool mechanical building. New Vendor-replaces 71221.136	-	38	38	38	-	-	-
Lake Erie	Replace electric wiring at Marina boat docks	Upgrade existing wiring to marina pedestals	50,000	-	-	-	-	-	-
Lake Erie	SWMP Projects-Drainage/Culvert Replacement-LE036, 005, 006, 015	Replacement of deteriorated culverts	16,354	-	-	-	-	-	-
Wolcott	Fill in Raceway at Mill	Project to look at filling in the raceway beneath the Mill	-	80,000	-	-	-	80,000	-
Wolcott	Door Replacement for Dairy Barn	Replace deteriorated doors	37,800	44,911	7,111	7,111	33,060	4,740	-

**Major Maintenance Status Report**  
as of 8/31/2022

Location	Project Title	Project Description	Original Budget	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Project Status
Indian Springs	Dome Polishing & Seal Replacement. Carpet Replacement	Polishing and resealing of the interior and exterior surface of the underwater dome	-	271,873	2,347	265,728	1,158	4,988	Completed-2/4/22
Indian Springs	Steel Beam Repair	Steel Beem at Repair at Golf Course	-	11,700	11,700	11,700	-	-	Completed-2/14/22
Indian Springs	Pumphouse Upgrades at Golf Course	Pumps house replacement of pump, valves, and controls	431,000	-	-	-	-	-	
Indian Springs	Replace Irrigation Head control system at Golf Course	Replacement of irrigation head control system	85,000	-	-	-	-	-	
Indian Springs	Replace Culverts (CUL-IND-22,29,34)	Repalce deteriorated culverts	16,000	-	-	-	-	-	
Huron Meadows	Golf Starter Building Roof Replacement	Replacement of the existing shingle roof on the starter building	75,000	25,958	382	25,958	-	-	
			<u>3,845,435</u>	<u>2,358,080</u>	<u>865,478</u>	<u>1,697,028</u>	<u>567,240</u>	<u>93,811</u>	



To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 715-22-034  
Project Title: Bids – Irrigation Controller Replacement  
Project Type: Major Maintenance  
Location: Indian Springs Metropark  
Date: September 2, 2022

Quotes Received: July 28, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners (1) authorize staff to issue a purchase order for project 715-22-034 to Spartan Distributors in the amount of \$105,536.66; and (2) authorize staff to transfer \$20,536.66 from the Kensington major maintenance unallocated account to cover the cost of the project as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** This project is \$20,536.66 over the \$85,000 budgeted amount. Funding is available from the Kensington Island Road Paving project which is complete and is under the contract amount by approximately \$90,000.

**Scope of Work:** The purchase will include seven new satellite irrigation control units, computer system, mobile applications, communication antenna, radio interface, five-year standard subscription, touchnet central interface, grounding rods, grounding plates, ground enhancement material, copper wire, connectors and connection splice boxes.

**Background:** Park staff requested a quote from Spartan Distributors, the local Toro supplier, for an upgrade/replacement to their existing irrigation control system. The project was originally budgeted at the \$85,000, which was based on a previous quote for 2022. Due to the current market, the price has increased, and currently there is no estimated ship date on the units. The purchase order will secure the price and order for a future shipment. The cost does not include installation of the satellite controllers. The installation work will need to be hired out separately or completed by force account.

<u>Contractor</u>	<u>City</u>	<u>Total</u>
Spartan Distributors	Auburn Hills	\$105,536.66
Budget Amount for Contract Services		
- Replace Irrigation Control System Golf Course		\$ 85,000.00
- Kensington major maintenance unallocated account		<u>\$ 20,536.66</u>
o Total		\$105,536.66
Purchase Order Amount		
- Spartan Distributors		\$105,536.66



To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 709-22-062  
Project Title: Bids – Golf Course Drainage Improvements  
Project Type: Major Maintenance  
Location: Stony Creek  
Date: September 2, 2022

Quotes Received: July 29, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners authorize staff to issue a purchase order for project 709-22-062 to Performance Sports Turf in the amount of \$31,000 as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** This project is \$9,000 under the \$40,000 budgeted amount.

**Scope of Work:** The work includes installing approximately 2100 feet of drain tile, trenching, backfilling and seeding. The project is for labor only to install park procured materials.

**Background:** Park staff solicited quotes to install existing drainage materials. The project will address wet areas on the golf course.

<u>Contractor</u>	<u>City</u>	<u>Total</u>
Performance Sports Turf	Howell	\$31,000.00
Tom Ward and Sons, Inc.	Brighton	\$52,000.00
KLM Landscape	Armada	\$63,675.00

Budget Amount for Contract Services	
- Golf Course Drainage Improvements	\$40,000.00
Purchase Order Amount – Performance Sports Turf	\$31,000.00



To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 509-22-561  
Project Title: Bids – Wintercove Picnic Shelters Accessibility Improvements  
Project Type: Capital Improvement  
Location: Stony Creek Metropark  
Date: September 2, 2022

Bids Received: August 30, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners (1) award Contract No. 509-22-561 to the low responsive, responsible bidder, Peake Asphalt, Inc., in the amount of \$166,176; and (2) authorize staff to transfer \$111,176 from Fund Balance to cover the cost of the project as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** This project is \$111,176 over the \$55,000 budgeted amount. The project is over the original amount as extra work was added to alleviate future work in 2023.

**Scope of Work:** The work includes construction of approximately 600 feet of accessible asphalt connector paths, installation of a culvert, signs, pavement markings and site restoration. The work will also provide extra and repair work at Baypoint, which includes the entrance road, installation of a grilling area pad and accessible walkway to the shelter.

**Background:** The project continues the ongoing progress for improving accessible access throughout park. There are currently limited asphalt paths from the two parking lots to the existing amenities in the Wintercove picnic area. The paths will provide a connect for the westerly parking lot to the restroom, picnic shelters, access across the lots, and improvements to accessible parking spaces.

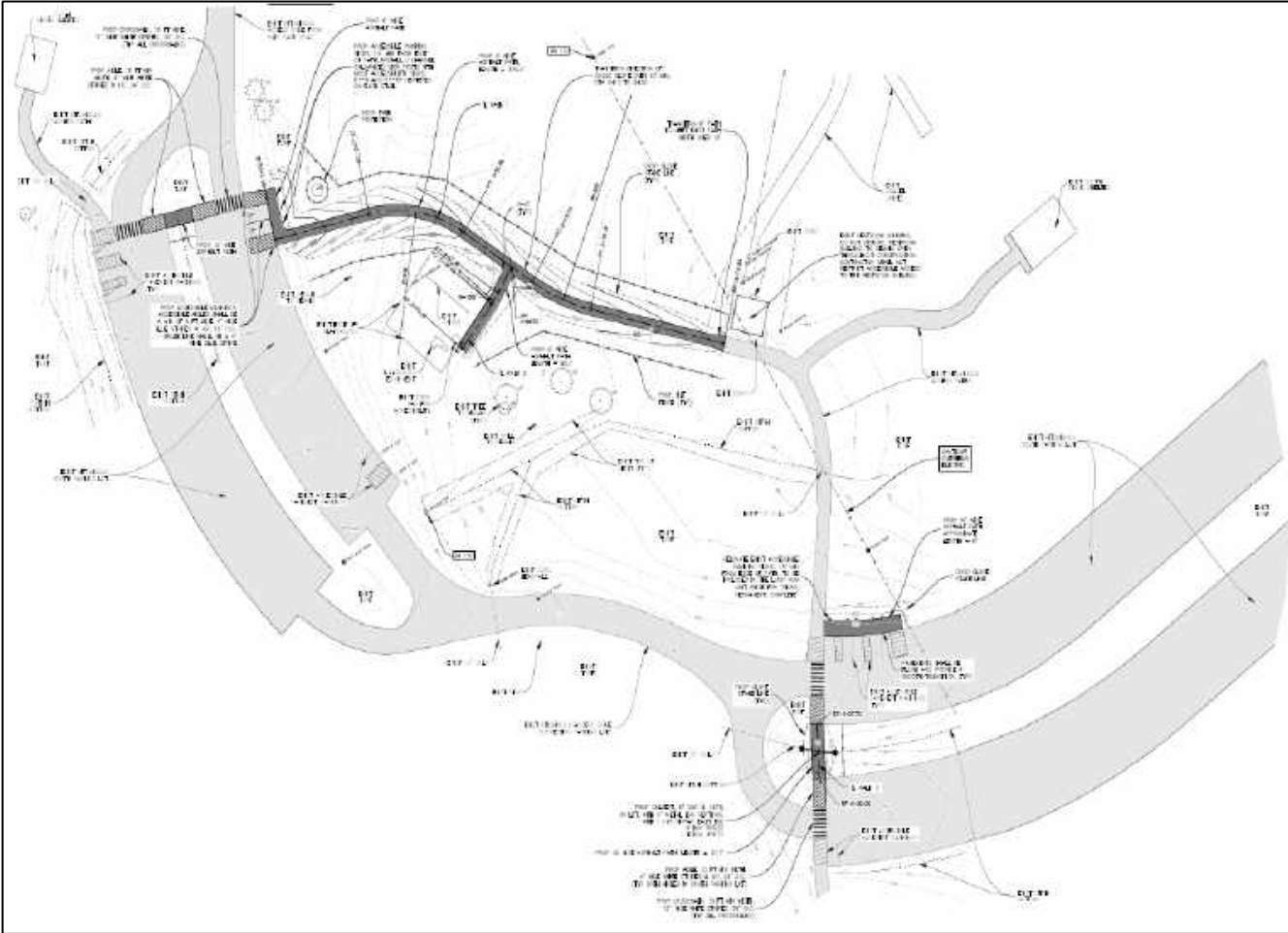
<u>Contractor</u>	<u>City</u>	<u>Total</u>
Peake Asphalt, Inc.	Shelby Twp.	\$166,176.50
Gibraltar Construction Co.	Trenton	\$259,991.00
JSS Macomb	Shelby Twp.	Non-Responsive

Budget Amount for Contract Services	
- Accessible Path Wintercove	\$ 55,000.00
- Fund Balance	<u>\$111,176.50</u>
o Total	\$166,176.50

Work Order Amount	
- Contract Amount-Peake Asphalt	\$166,176.50
- Contract Administration	<u>\$ 14,000.00</u>
o Total Proposed Work Order Amount (Rounded)	\$180,177.00

*This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Construction Connect, Construction Market Data, Dodge Data & Analytics, Washtenaw Contractors Association, Construction News Corporation, Construction News Service, Construction Journal, HCMA Website.*

# Path Locations





To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 508-22-223  
Project Title: Bids – Vault Latrine Installation  
Project Type: Capital  
Location: Hudson Mills Metropark  
Date: September 2, 2022  
  
Bids Received: August 23, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners (1) award Contract No. 508-22-223 to the low responsive, responsible bidder, J. Ranck Electric, Inc., in the amount of \$139,295; and (2) authorize staff to transfer \$101,545 from fund balance to cover the cost of the project as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** Funding for the project was budgeted at \$110,000 of which \$72,250 was needed for the procurement of the unit leaving a remaining project balance of \$37,750. The current bid amount to install the unit is \$139,295 putting the project \$101,545 over the budgeted amount

**Scope of Work:** The project includes the demolition of two existing vault latrines, pavement removal, excavation, tree removal, culvert installation, pavement markings, signs, constructing a concrete accessible walkway, and site restoration once the new vault latrine is placed on site.

**Background:** The Board approved the procurement of a prefabricated double unit vault latrine at the July 14 Board meeting. The unit is to be installed at the Pine View picnic area in Hudson Mills Metropark.

The vault unit is transported and then craned into place by the supplier. The contractor and the supplier coordinated the delivery of the unit. This contract addresses preparing the area to receive the unit. The unit comes in two pieces the vault and the building which is set upon the vault. The site work to be completed includes excavating, leveling for the vault and providing temporary access and a pad next to the area for the transport truck and crane. The contract also includes all associated restoration site work, connecting paths to the unit, and demolishing existing vaults.

<u>Contractor</u>	<u>City</u>	<u>Amount</u>
J. Ranck Electric Inc.	Mt. Pleasant	\$139,295.00
Budget Amount for Contract Services and Administration		
- Original Budgeted amount for Project		\$110,000.00
- Contract Amount-CXT Concrete Buildings		<u>\$ 72,250.00</u>
- Remaining Available Budget		\$ 37,750.00
o Fund Balance		<u>\$101,545.00</u>
▪ Total		\$139,295.00
- Contract Amount – J. Ranck Electric, Inc.		\$139,295.00
- Contract Administration		<u>\$ 8,000.00</u>
o Total Proposed Work Order Amount		\$147,295.00

*(\*) Only one bid was received.*



## Vault Latrine Example





To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 711-22-048  
Project Title: Bids – Tollbooth Electrical  
Project Type: Major Maintenance  
Location: Oakwoods Metropark  
Date: September 2, 2022

Bids Received: August 23, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners (1) award Contract No. 711-22-048 to the low responsive, responsible bidder, Rauhorn Electric, Inc. in the amount of \$40,470; and (2) authorize staff to transfer \$40,470 from the Kensington major maintenance unallocated account to cover the cost of the project as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** This is an unbudgeted project. Funding is available the Kensington Island Road Project which is complete and was under the contract amount by approximately \$90,000.

**Scope of Work:** The work includes furnishing all labor, equipment, and materials necessary to install conduit, conductors, disconnects, and connections necessary to rework the existing electrical supply.

**Background:** Park forces procured a new tollbooth for the entrance to Oakwoods Metropark. In order to place the new tollbooth, the existing power needs to be disconnected; however, this was not able to be completed due to the lack of disconnects from the main power supply from DTE. The project will install the necessary disconnects, relocate the existing meter, reposition the existing light pole, and move the electrical supply to an adjacent installed station. Once complete the old tollbooth will be removed and the new one installed and reconnected to the power supply.

<u>Contractor</u>	<u>City</u>	<u>Total</u>
Rauhorn Electric, Inc.	Bruce Twp.	\$40,470.00
Budget Amount for Contract Services		
- Oakwoods Tollbooth Electrical		\$ 0.00
Work Order Amount		
- Contract Amount – Rauhorn Electric, Inc.		\$40,470.00
- Contract Administration		<u>\$ 8,000.00</u>
o Total Proposed Work Order Amount (Rounded)		\$ 48,470.00

*This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Construction Connect, Construction Market Data, Dodge Data & Analytics, Washtenaw Contractors Association, Construction News Corporation, Construction News Service, Construction Journal, HCMA Website.*

(\* only one bid was received



To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 512-22-245  
Project Title: Bids – Vault Latrine Installation  
Project Type: Capital  
Location: Lake Erie Metropark  
Date: September 2, 2022  
  
Bids Received: August 9, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners (1) award Contract No. 512-22-245 to the low responsive, responsible bidder, J. Ranck Electric Inc., in the amount of \$62,875 and; (2) authorize staff to transfer \$37,125 from Fund Balance to cover the cost of the project as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** Funding for the project was budgeted at \$100,000, of which \$72,250 was needed for the unit's procurement, leaving a remaining project balance of \$27,750. The current bid to install the unit is \$62,875 putting the project \$35,125 over the budgeted amount.

**Scope of Work:** The project includes the demolition of two existing vault latrines, pavement removal, excavation, tree removal, culvert installation, pavement markings, signs, construction of a concrete accessible walkway, and site restoration once the new vault latrine is placed on site.

**Background:** The Board approved the procurement of a prefabricated double unit vault latrine at the July 14 Board meeting. The unit will be installed at Lake Erie Metropark's Cove Point picnic area.

The vault unit is transported and then craned into place by the supplier. The contractor and the supplier coordinated the delivery of the unit. This contract addresses preparing the area to receive the unit. The unit comes in two pieces the vault and the building which is set upon the vault. The site work to be completed includes excavating, leveling for the vault and providing temporary access and a pad next to the area for the transport truck and crane. The contract also includes all associated restoration site work, connecting paths to the unit, and demolishing existing vaults.

<u>Contractor</u>	<u>City</u>	<u>Amount</u>
J. Ranck Electric Inc.	Mt. Pleasant	\$ 62,875.00
Budget Amount for Contract Services and Administration		
- Original Budgeted amount for Project		\$100,000.00
- Contract Amount-CXT Concrete Buildings		\$ <u>72,250.00</u>
- Remaining Available Budget		\$ 27,750.00
o Fund Balance		\$ <u>35,125.00</u>
▪ Total		\$ 62,875.00
- Contract Amount – J. Ranck Electric, Inc.		\$ 62,875.00
- Contract Administration		\$ <u>8,000.00</u>
o Total Proposed Work Order Amount		\$ 70,875.00

(\* Only one bid was received.

## Vault Latrine Example





To: Board of Commissioners  
 From: Amy McMillan, Director  
 Project Title: Update – Purchases over \$10,000  
 Date: August 1, 2022

**Action Requested: Receive and File**

That the Board of Commissioners receive and file the update 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 contains purchases exceeding the \$10,000 threshold:

<u>Vendor</u>	<u>Description</u>	<u>Price</u>
3Sixty Interactive, Inc.	Ads for Movies in the Park	\$10,000.00
CDW Government	Adobe Subscriptions	\$11,877.14
3Sixty Interactive, Inc.	Ads for Annual Passes	\$13,000.00
Fraser Mechanical	Freezer Compressor Replacement	\$14,715.32



To: Board of Commissioners  
From: Amy McMillan, Director  
Project Title: Purchases – Total Spent and Vendor Locations  
Date: September 2, 2022

**Action Requested: Receive and File**

That the Board of Commissioners receive and file the update for total spent and vendor locations as submitted by Director Amy McMillan and staff.

**Background:** Each month the Purchasing Department summarizes the total amount spent on capital equipment purchases, major maintenance, and park projects and includes the location of vendors, either within or outside the Metroparks five-county region as well as the effect of DEI, living wage, and the Metroparks local preference policy.

**Attachment: Award Requests**

## Award Requests for September 2022

Vendor	Vendor Location	Description	Park Location	Total Request	Five-County	Greater Michigan	Outside Michigan	Effect of DEI, Living Wage, and Local Preference Policies
Gorno Ford	Woodhaven, MI	Two Ford F-150s	Kensington and Wolcott	\$ 80,791.00	\$ 80,791.00			
Arrowhead Upfitters	Lapeer, MI	Police Vehicle Upfitting	Throughout HCMA As-Needed	\$ 39,352.00		\$ 39,352.00		
Performance Sports Turf	Howell, MI	Golf Course Drainage Improvements	Stony Creek	\$ 31,000.00	\$ 31,000.00			
Spartan Distributors	Auburn Hills, MI	Irrigation Control System	Indian Springs	\$ 105,536.66	\$ 105,536.66			
J Ranck	Mt. Pleasant, MI	Vault Latrine Installation	Hudson Mills	\$ 139,295.00		\$ 139,295.00		
J Ranck	Mt. Pleasant, MI	Vault Latrine Installation	Lake Erie	\$ 62,875.00		\$ 62,875.00		
Peake Asphalt	Shelby Township, MI	Accessibility Improvements	Stony Creek	\$ 166,176.00	\$ 166,176.00			
Erie Construction, LLC	Woodhaven, MI	Huron River Remediation and Habitat Restoration	Willow	\$ 334,750.00	\$ 334,750.00			
Best Asphalt	Romulus, MI	Big Bend Parking lot Removal and Restoration	Willow	\$ 138,218.50	\$ 138,218.50			
Rauhorn Electric	Bruce Township, MI	Oakwoods Tollbooth Electrical Replacement	Oakwoods	\$ 40,470.00	\$ 40,470.00			
<b>Totals:</b>				<b>\$1,097,994.16</b>	<b>\$856,472.16</b>	<b>\$241,522.00</b>	<b>\$0.00</b>	
<b>Percent of Total Award Request:</b>					<b>78.00%</b>	<b>22.00%</b>	<b>0.00%</b>	



To: Board of Commissioners  
From: Travis Grubb, Senior Buyer  
Project No: MiDeal #071B7700181  
Project Title: Cooperative Purchase – Two 2023 Ford F-150s  
Location: Kensington and Wolcott  
Date: September 2, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners approve the cooperative purchase of a 2023 Ford F-150 4x4 regular cab with snow plow prep package (\$38,573) and a 2023 Ford F-150 4x4 Super Cab (\$42,218) from Gorno Ford of Woodhaven, Michigan through the State of Michigan's MiDeal cooperative contract #071B7700181 as recommended by Senior Buyer Travis Grubb and staff.

**Fiscal Impact:** Funds will come from the Board approved 2022 Capital Equipment budget (as amended), which allowed \$76,000 (\$36,000 from the 2022 budget and \$40,000 from early adopted 2023 budget) for these purchases. The total price of \$80,791 is \$4,791 over budget. The additional \$4,791 will come from savings realized from future capital equipment purchases.

**Scope of Work:** Furnish and deliver two model year 2023 Ford F-150 trucks as specified.

**Background:** The Metroparks is eligible to participate in the state of Michigan's MiDeal cooperative contract program. MiDeal cooperative contract #071B7700181 was selected following a review of the pricing to confirm that the Metroparks are receiving competitive pricing. Through the state's contract with Gorno Ford for these specific trucks, the Metroparks were able to secure the most competitive pricing available and get a spot in line for the model year 2023 production of F-150s, which has already been closed.

The new trucks will replace existing equipment in the Metroparks fleet (unit 648, a 2012 Ford F-150 with 137,785 miles and unit 224, a 2005 GMC Sierra with 146,471 miles), which will both be sold through next year's annual auction after delivery of the new trucks.





To: Board of Commissioners  
 From: Travis Grubb, Senior Buyer  
 Project No: ITB 2022-022  
 Project Title: Bids – Police Vehicle Upfitting  
 Location: Authority-wide (as needed)  
 Date: September 2, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners approve the award for a one-year contract with up to two, one-year renewal options for Police Vehicle Upfitting services in the amount of \$39,352 for the first year from Arrowhead Upfitters, Inc. of Lapeer, Michigan, the lowest responsive and responsible bidder as recommended by Senior Buyer Travis Grubb and staff.

**Fiscal Impact:** Funds for the first year of the contract will come from the Board approved 2022 budget, which allowed \$42,000 for this service. The \$39,352 total purchase is \$2,648 in favor of the budget. Future budgets will be adjusted to match the number of new vehicles requiring upfitting service based on the contracted unit price per vehicle upfit.

**Scope of Work:** Arrowhead Upfitters will be responsible for arranging for and transporting police vehicles between Metropark locations and their site and returning the completed vehicles to the Kensington Metropark Warehouse. They will remove existing radios, computers, and antennae from outgoing police vehicles and re-install that equipment in the new police vehicles. They will provide other new equipment as specified and any accessories, labor, and materials necessary to upfit the new vehicles.

**Background:** The proposed purchase was competitively bid and posted on the Michigan Intergovernmental Trade Network’s website, which provided notice of the solicitation to 92 vendors. Of the 92 notified vendors, 10 downloaded the ITB documents and two submitted bids, which are summarized below:

<u>Vendor</u>	<u>Location</u>	<u>Price</u>
Arrowhead Upfitters, Inc.*	Lapeer, MI	\$32,492*
Cruisers, Inc.	Howell, MI	\$35,472

*(\*) Indicates recommended award*



To: Board of Commissioners  
From: Amy McMillan, Director  
Subject: Update – Hexavalent Chromium Spill, EGLE/DHHS Representatives  
Date: September 2, 2022

**Background:** Representatives from the Michigan Department of Environment, Great Lakes (EGLE) and the Michigan Department of Health and Human Services (MDHHS) will update the Board and answer questions from commissioners on the Hexavalent Chromium spill that took place several weeks ago.



To: Board of Commissioners  
From: Shedreka Miller, Chief of Finance  
Subject: Report – Monthly Financial Review  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the monthly Financial Review as submitted by Chief of Finance Shedreka Miller and staff.

**Attachment: Monthly Financial Review**



# HURON-CLINTON METROPARKS AUGUST FINANCIAL RECAP

SEPTEMBER 2022

Administrative Office  
13000 High Ridge Drive  
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)



# TABLE OF CONTENTS

Executive Summary . . . . .	4
Administrative Revenue . . . . .	5
Park Operating Revenue . . . . .	6
Expenditures . . . . .	11

# EXECUTIVE SUMMARY

## AUGUST 2022 FINANCIAL RESULTS

Tax revenue collections in August were strong and remain higher than 2021 figures. We have collected 99 percent of taxes owed in 2022 compared to 96 percent collected in 2021.

For the month of August 2022, vehicle entries increased 12 percent in comparison to 2021. Tolling decreased for both daily and annual sales in comparison to 2021. August daily permit sales are 21 percent lower than 2021. August annual permit sales are 1 percent lower than 2021. YTD tolling revenue is \$492,575 or 6 percent lower than 2021 figures.

Tolling and golf are the largest contributors to operating park revenue in August 2022. Combined, tolling and golf made up 75 percent of park operating revenue. Tolling generated \$873,685 and golf added an additional \$1.4 million. All other park operating activities produced over \$767,000.

The year-to-date park operating revenue of \$19.7 million is \$176,900 lower compared to 2021 and \$2.5 million higher compared to the five-year average.

Overall, year-to-date general fund expenditures are up \$2.4 million or 6.4 percent over 2021. There was a \$2.5 million increase in expenditures related to Capital Improvement Projects compared to 2021.

In summary, the Metroparks continue to be well positioned financially. Revenues remain strong, are higher than the five-year average, and expenditures remain within planned budgets.

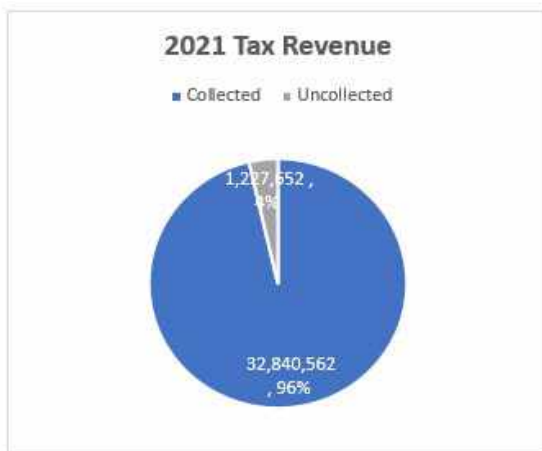




# ADMINISTRATIVE REVENUE

Metroparks administrative revenue consists of all revenue sources that are not generated directly by park operations. Tax revenue accounts for the majority and is the single largest source of revenue for the Metroparks.

The amount of revenue collected as of August month end has increased compared to August 2021 month end. In 2021 we had collected 96 percent of taxes owed. In 2022 that amount is higher at 99 percent.



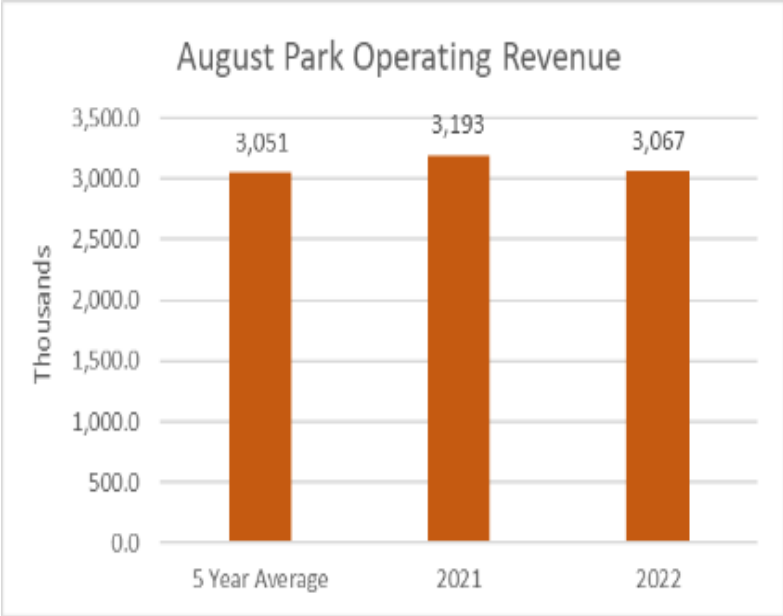


# PARK OPERATING REVENUE

## BY ACTIVITY

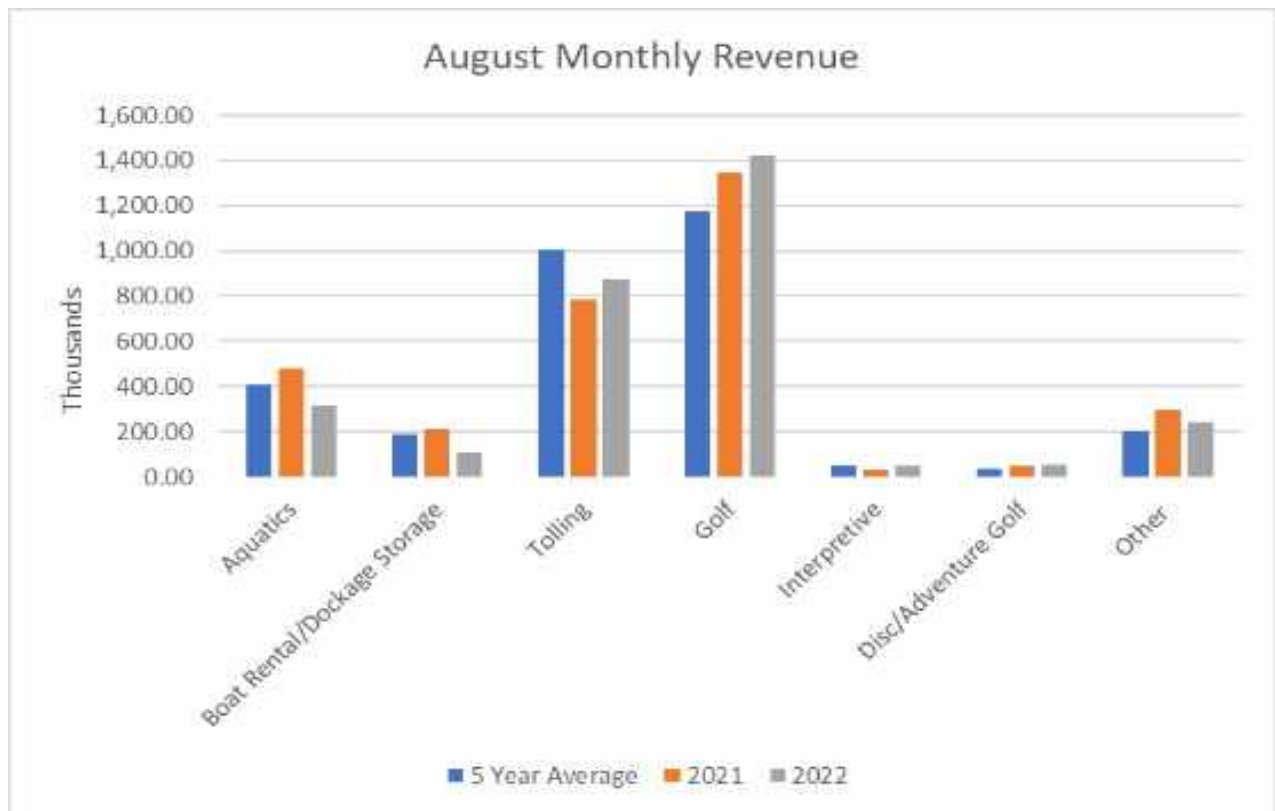
The parks generated \$3.1 million in revenue during August 2022 compared to \$3.2 million in 2021. The five-year average for operating revenue is \$3.1 million.

August park operating revenue decreased \$126,543 or 4 percent compared to 2021 and increased \$16,097 or 0.5 percent compared to the five-year average.



Breaking down park operating revenue by the activity, the most significant source of revenue is golf. The \$1.4 million generated was higher than 2021 by \$81,669 or 6 percent and higher by the five-year average by \$253,005 or 22 percent.

The tolling and aquatics categories were the second and third largest sources of operating revenue for the month. Tolling revenue was \$91,278 or 12 percent higher than 2021 and \$127,276 or 13 percent lower than the five-year average. Aquatics revenue was \$167,262 or 35 percent lower than 2021 and \$94,471 or 23 percent lower than the five-year average.

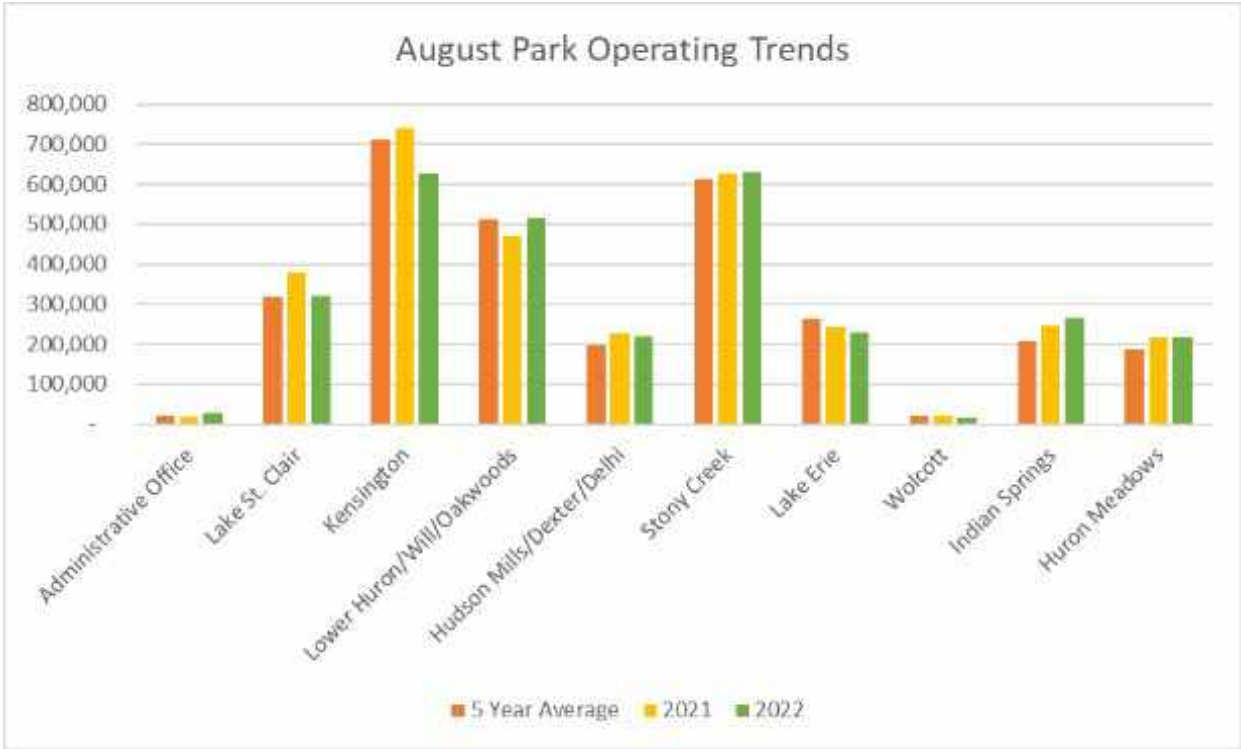


# BY LOCATION

August 2022 park operating revenue decreased compared to 2021 and increased compared to the five-year average. The parks generated \$3.1 million in operating revenue during August 2022 compared to \$3.2 million in 2021 and \$3.1 million for the five-year average.

August 2022 operating revenue in total decreased compared to August 2021 by \$126,543 or 4 percent and increased compared to the five-year average by \$16,097 or 0.5 percent. Stony Creek, Kensington, and Lower Huron/Willow/Oakwoods generated the most revenue for August 2022. August operating revenue for Stony Creek, Kensington and Lower Huron/Willow/Oakwoods was \$630,638, \$625,998, and \$516,289.

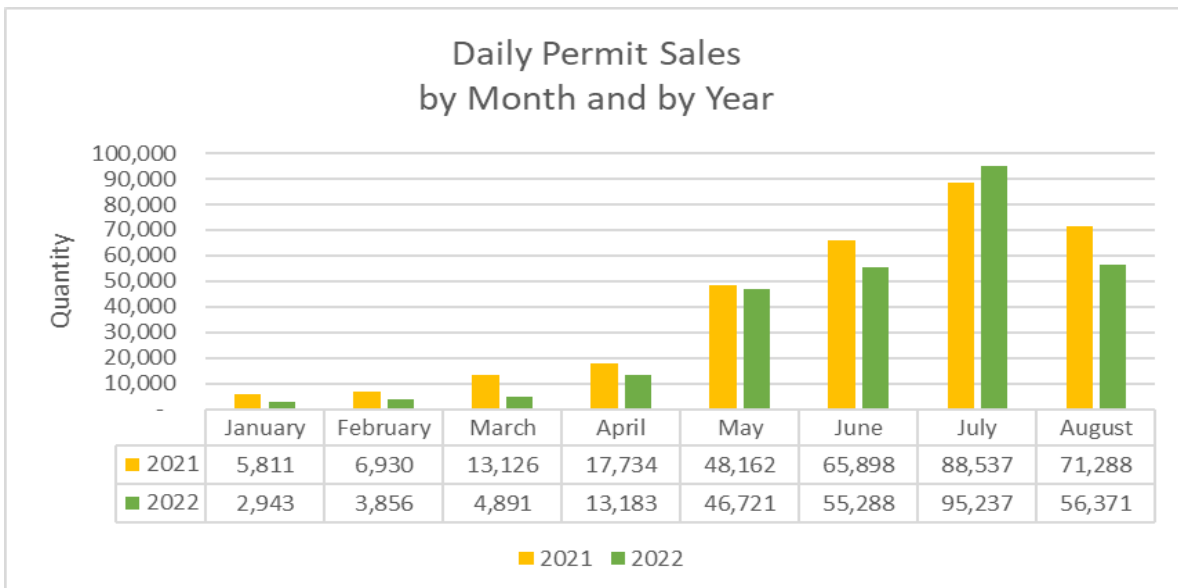
In the chart below, the variance between 2022 and 2021 figures range between an increase of \$47,000 and a decrease of \$115,000. The variance between 2022 and the five-year average ranges between an increase of \$58,000 and a decrease of \$86,000. The changes are reflected in the chart below:



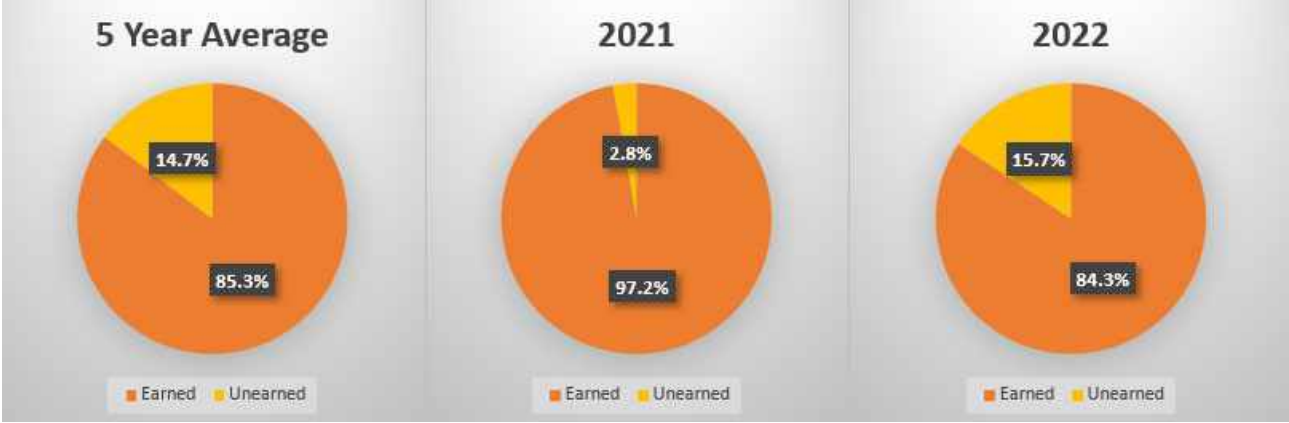
The following charts graphically represent the trends and shifts in annual and daily permit sales. Year-to-date annual permit sales for 2022 are down 9 percent from 2021. Annual permit sales for August 2022 decreased 1 percent compared to 2021.



Daily permit sales in August decreased 21 percent compared to 2021.



Considering year-to-date revenue, the parks show a decline in revenue compared to the prior year. Year to date revenue is still higher than the five-year average. The pie charts below reflect the revenue earned at the end of August compared to the budgeted revenue not yet earned.



At the end of August 2022, we have generated 84.3 percent of budgeted operating revenue earned. We were around 97.2 percent and 85.3 percent for 2021 and the five-year average.

# EXPENDITURES

## ADMINISTRATIVE OFFICE

Overall, year-to-date Administrative Office expenditures are ahead of 2021 by \$406,864 or 7 percent. The increase is primarily related to full-time wages/benefits, the five-year community recreation plan study, and various engineering surveys/studies.

## MAJOR MAINTENANCE AND CAPITAL

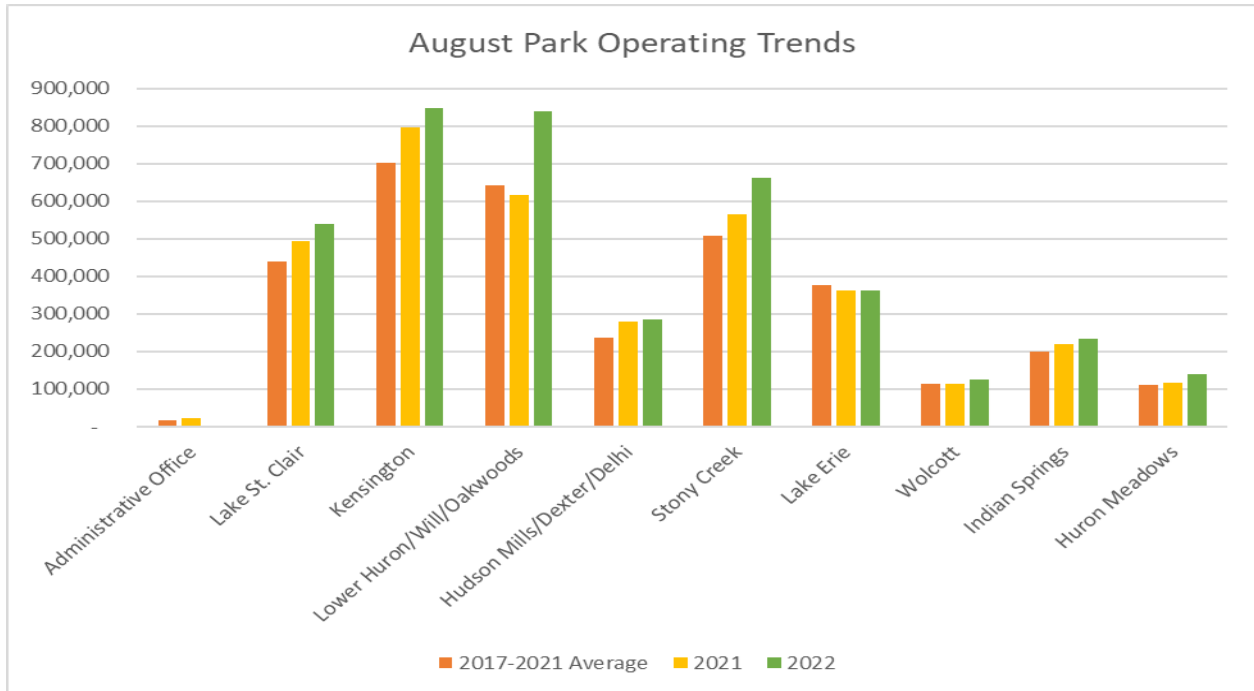
Approximately 42 percent of planned capital equipment and land acquisition purchases have been either paid for or encumbered. The 2022 budget was amended in August 2022 by \$2.7 million to order equipment for 2023. Payments during the month of August totaled \$102,810 or 2 percent of the budget.

As of the end of August, 33 percent of major maintenance projects have been either received or contracted for. August payments for major maintenance totaled over \$330,827 or 7.6 percent of the annual major maintenance budget.

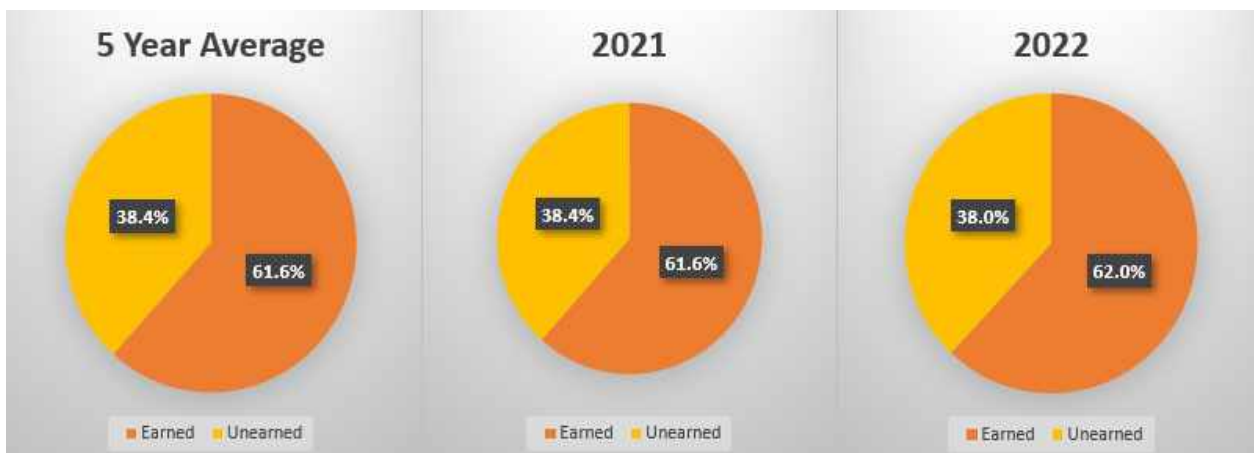
## PARK OPERATIONS

Overall, year-to-date park operation expenditures are \$1.4 million or 6.2 percent higher than the 2021 year-to-date level. Increases in full-time wages/benefits, resale merchandise, equipment fuel, and utilities make up \$1 million or 75.1 percent of this variance.

Looking at individual parks for the month of August, the variance in operating expenditures between 2022 and 2021 ranges between an increase of \$221,000 and a decrease of \$22,000.



At the end of August, we have used 62 percent of the annual budget, the amount was 61.6 percent for 2021 and the five-year average.







To: Board of Commissioners  
From: Tyler Mitchell, Chief of Natural Resources and Regulatory Compliance  
Subject: Report – Monthly Natural Resources Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the monthly Natural Resources Report as recommended by Chief of Natural Resources and Regulatory Compliance and staff.

**Attachment: Monthly Natural Resources Report**



7-C-1-a

# NATURAL RESOURCES MONTHLY REPORT

SEPTEMBER 2022

Administrative Office  
13000 High Ridge Drive  
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)

# SYSTEM-WIDE

## ADMINISTRATIVE

- Planning and mapping fall prescribed fire units, preparing prescriptions.
- Administration of Phragmites control projects and permitting.
- Hiring of new staff for part-time positions continues.
- Grant reporting and administration for several ongoing grant projects, at Lake Erie, Lake St. Clair, Willow, Indian Springs.
- Preparing RFP (Request for Proposal) for green infrastructure project at Lake Erie, and planting and invasive species removal project at Indian Springs.



*Figure 1: At Lake St. Clair Metropark, the current condition of the shoreline on the Black Creek Marsh. This shoreline will receive final grading, seeding, and covering with erosion blanket in the fall of 2022.*

# SOUTHERN DISTRICT

## LAKE ERIE METROPARK

- Marsh enhancement dredging project continues, expected completion mid-September.
- Phragmites treatments to occur in September and October.

## OAKWOODS METROPARK

- Fall shrub treatments underway utilizing annual contracts and grant program budgets.

## WILLOW METROPARK

- Continued planning and installation of green infrastructure, removal of parking lot and seeding of prairie to replace asphalt.



*Figure 2: Marsh restoration dredge equipment working at Lake Erie Metropark.*



# WESTERN DISTRICT

## KENSINGTON METROPARK

- Invasive shrub and vine control conducted by contractors in various areas. Focus will be on Asiatic bittersweet, and smaller invasive shrubs for foliar spray.

## INDIAN SPRINGS METROPARK

- Continuing preparation for kick-off of Healing the Huron Headwaters grant project, to include invasive species removal and restoration of trees in the Huron Swamp and West Wetland Complex.
- Working with Michigan Nature Association as a project partner.

## HUDSON MILLS METROPARK

- Invasive shrub and vine control in Tamarac Swamp management unit and surrounding trail areas continues.



*Figure 3: Juvenile Painted Turtle crosses the park road at Kensington Metropark between Wildwing Lake and a small marsh on the golf course.*

# EASTERN DISTRICT

## STONY CREEK METROPARK

- Lake Treatment for starry stonewort and nuisance algae occurred late-August, review of treatment and planning for future years.

## LAKE ST. CLAIR METROPARK

- Phragmites treatments to occur in September and October.
- Continued planning for final phase of shoreline softening project, planting to occur fall '22, contingent upon township sewer realignment project.

## WOLCOTT MILL METROPARK

- Japanese knotweed and spotted knapweed treatments in 29-mile road grasslands continue.



*Figure 4: Hazardous tree removed from Lake St. Clair Metropark in August 2022.*

# WHAT'S NEXT?

## SYSTEM-WIDE

- Bidding and award of phase 2 Lake Erie Shoreline work, to board for approval in October.
- Continued research, partner discussions, and testing planning for Hexavalent Chromium release related projects.
- Stormwater and water quality improvement planning with internal staff and partners, cooperation with consultant in September 2022.

## SOUTHERN DISTRICT

- Marsh dredging at Lake Erie Metropark, and spoils management to continue into the winter.
- Culvert repair at Oakwoods to improve drainage on nature trails.
- Eastern Prairie Fringed Orchid survey results and habitat management recommendations, anticipated finalization December 2022.

## WESTERN DISTRICT

- Oak wilt survey and testing of candidate trees.

## EASTERN DISTRICT

- Shoreline restoration grading and seeding at Lake St. Clair.
- Lake St. Clair Groundwater study conducted by USGS for beach restoration grant, results available in fall 2022.
- Data tabulation for geese and gull survey at Lake St. Clair as part of beach restoration grant, completion November 2022.



To: Board of Commissioners  
From: Sarah Plumer, Chief of Planning and Development  
Project Title: Planning and Development Department Monthly Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the Planning and Development Department Monthly Update as recommended by Chief of Planning and Development Sarah Plumer and staff.

**Background:** The following are highlights of the activities of the Planning & Development Department for September 2022:

*Project/Initiative Implementation*

- Community Recreation Plan action program to be updated with last three Metropark master plan input meetings scheduled in September (Wil-Oak and Lake Erie).
- Three consulting firms bid on feasibility study of regional non-motorized connections for five existing gaps between Metroparks in five-county region, under internal scoring review.
- B2B Trail segment from Delhi Metropark to Wagner Road project team site meeting to discuss trailhead and trail alignment at East Delhi.

*Planning & Community Engagement*

- Kick-off meeting with project team to coordinate community engagement plan for GLRI EPA grant at Lake Erie/Six Points with Interpretive Services and Marketing/Communications departments.
- MOU signed for partnership with Wyandot Nation.
- Community Recreation Plan work plan/timeline developed.
- Regional recreation survey collaboration with county agencies and DNR (Statewide Comprehensive Outdoor Recreation Plan) community recreation plans

*Land Issues/Opportunities*

- GIS spatial analysis of county Sidwell parcel numbers with Metroparks parcel numbers for digital scanning of deeds and easements.

*Grants*

- Kick-off meeting for proposed SPARK grant- Lake Erie Wave Pool Retrofit and Complex Accessibility Improvements.
- Kick-off meeting scheduled for NOAA grant- Flat Rock/Huroc Fish Passage and Dam Feasibility Study led by Great Lakes Fisheries Commission
- Site visit for Michigan Natural Resources Trust Fund (MNRTF) Grant-Lake St. Clair Metropark Day sail Improvements
- Kensington Metropark West Boat Launch 2020 Trust Fund grant near completion with minor punch list items remaining.
- Hudson Mills Metropark Rapids View Accessible Launch 2020 Trust Fund grant near completion with minor punch list items remaining.

**Attachment: Planning and Development Department Monthly Update which includes Monthly Grant Updates**





# PLANNING AND DEVELOPMENT MONTHLY REPORT

September 2022

Administrative Office  
13000 High Ridge Drive  
Brighton, MI 48114








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# TABLE OF CONTENTS









Metroparks System-Wide . . . . .	3
Southern District . . . . .	6
Western District . . . . .	9
Eastern District. . . . .	12
Monthly Grant Updates. . . . .	15
What's Next. . . . .	16

OTHER DEPARTMENT INPUT KEY	
	Natural Resources and Regulatory Compliance
	Planning and Development
	Diversity, Equity and Inclusion
	Interpretive Services and Community Outreach
	Engineering

# SYSTEM-WIDE







- Restoration** – Linear feet or acreage of project impact for shoreline protected or restored, wetlands protected or restored, floodplain protected or mitigated
- Invasive Species Management** – Linear feet or acreage of project impact treating invasive species
- Habitat and Wildlife Protected** – Linear feet or acreage of project impact for fish habitat, fish barriers removed or bypassed, species moved or avoided
- Partnerships** – Outside agency funding sources (total cost/sharing percentage)
- Volunteers** – Total number of volunteers/workdays
- Grant/Foundation Funding** – Total funding/match
- Visitor Counts** – Total number of visitors weekend/weekday
- Best practices education** – Project emphasizes educational and interpretational opportunities
- Estimated cost** – Total estimated or actual cost of project
- Accessibility** – Determine if facility or programs designed for accessibility (A) or if barriers (B) exist based on ADA checklist
- Staff time** – Total number of staff hours estimated

## Administrative





	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
SYSTEMWIDE	Planning and Development monthly reports	Report		Monthly	Staff time	Report assembly, grant monthly updates
	Tollbooth scanning reports	Report		Monthly	Staff time	Ongoing
	Foundation administrative tasks	Various		Ongoing	Staff time	Administrative tasks, scheduling annual board meeting.
	Sign request processing/signage transition plans	Infrastructure/ Small Facilities		Ongoing	Actual cost	Administrative tasks
	CAPRA accreditation preparation	Report	Various	Ongoing	Staff time	P&D support provided for all Chapter Chairs
	FAIR Play Coalition maintenance and development	Various		Ongoing	Volunteers	Feedback sought for accessible projects
	CAPRA Programming Ch. 6	Various		Ongoing	Staff time	Documentation assembly
	CAPRA Planning Ch. 2	Report		Ongoing	Staff time	Documentation assembly
	Commemorative trees and benches	Various		Ongoing	Staff time	Administrative tasks

# SYSTEM-WIDE

## HCMA Studies/Initiatives





Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Community Recreation Plan 5-County SE Michigan survey dashboard tool	Plan		Ongoing	Staff time/Consultant	ETC regional survey shared with county partners and DNR SCORP Director
Sustainability Plan projects coordination	Various		Ongoing	Various	CAPRA Sub-Committee working on sustainability policy standards
ADA Transition Plan	Plan		Ongoing	Staff time	Updates ongoing.
Visitor count program	Various		Ongoing	Staff time	Summer 2022 visitor count planning underway.
Visitation data documentation and analysis	Report		Ongoing	Staff time	May-June and June-July visitation report completed in ArcGIS online
Interpretive Master Plan demographic and other data analysis	Report		Ongoing	Staff time	Support for Interpretive Services staff for interpretive plan development being planned (GIS demographics)

## Grants/Fundraising


Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
REI Grant Rouge Park	Plan		Ongoing	Staff time	No action to report
GOAL- Various grant opportunities	Plan		Ongoing	Staff time	24 teachers (1624 students) have applied to date; programming ongoing
RCWJ Foundation	Plan		Ongoing	Staff time	3 bids being evaluated for RFP Regional Non-Motorized Gap Feasibility Study
DTE E-Fleet Program	Plan		Ongoing	Staff time	E-Fleet budgeting for 2023 in process

# SYSTEM-WIDE

## Recreation Programming

Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
2022 Recreation Programming	Various		On going	Staff time	Meeting with Programming Committee for action program.
DIA's Inside/Out program	Various		On going	Staff time	Art installations completed for Willow, Wolcott, and Indian Springs.
Programming Evaluation	Various		On going	Staff time	Ongoing
Swim program development plan (SE Michigan region)	Plan & Program		Winter 2022	Consultant Report	Final plan submitted to BOC (receive and file)

## Project Implementation/Oversight

Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
PNC Grant	Documentation		Ongoing	Check received	Served 60 classrooms (1,128 children); preparing final report
EGLE Recycling Bin Grant	Plan	Various	May 2021	Staff time	4 <sup>th</sup> quarterly report submitted. Training for staff completed with Waste Management outreach services at ops meeting
Nature trail wayfinding sign development	Implementation	Various	Ongoing	Staff time	Project budgeted for 2022 based on plan recommendations
ESRI ArcGIS Administration	Documentation	Various	Ongoing	Staff time	Installation underway with licenses for NR, Eng., and P&D staff

# SOUTHERN DISTRICT





Oakwoods Metropark



# SOUTHERN DISTRICT

## Grants/Fundraising



	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
LEr	2021 TF- Cherry Island Trail Improvements	Large Facilities		April 2021	Staff	Grant project agreement received from DNR, submitted to BOC for resolution/approval.
	2021 GLRI-EPA Nonpoint Source Grant	Large Facilities		Ongoing	Staff time	Partnering with Wyandot to perform ecological restoration at Six Points and SWMP green infrastructure improvements at LEr.; Awaiting MOU agreement signing by BOC
	2020 LWCF - Walnut Grove Campground	Documentation	Various	2021	Staff time	Waiting on NPS Project Agreement, to be executed
	2020 LWCF - Off-Leash Dog Area	Documentation	Various	2021	Staff time	Waiting on NPS agreement

## Project Implementation/Oversight


	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
LHu	Accessible railroad crossing along hike-bike trail	Small Facilities	Eng	2022 Completion	Construction	Project agreement underway with CSX. Allocation of budget funds being processed for deposit required by CSX.
WfI	SE Michigan Resilience Fund-Big Bend Area Restoration	Large Facilities	Eng/NR	Ongoing	Staff	Plans and permitting finalized. Out to bid for fall construction.

# SOUTHERN DISTRICT



## Project Implementation/Oversight, cont.

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
LEr	2019 LWCF - Oakwoods Accessible Nature Trail	Large Facilities		Ongoing	Staff time	Project Agreement executed by DNR/NPS, design work being scheduled with engineering dept. beginning design in Oct. 2022
	2019 LWCF - Lake Erie Accessible Boat/Kayak Launch	Large Facilities		Ongoing	Staff time	DNR project agreement executed, engineering design next step

## Facility Concept Planning

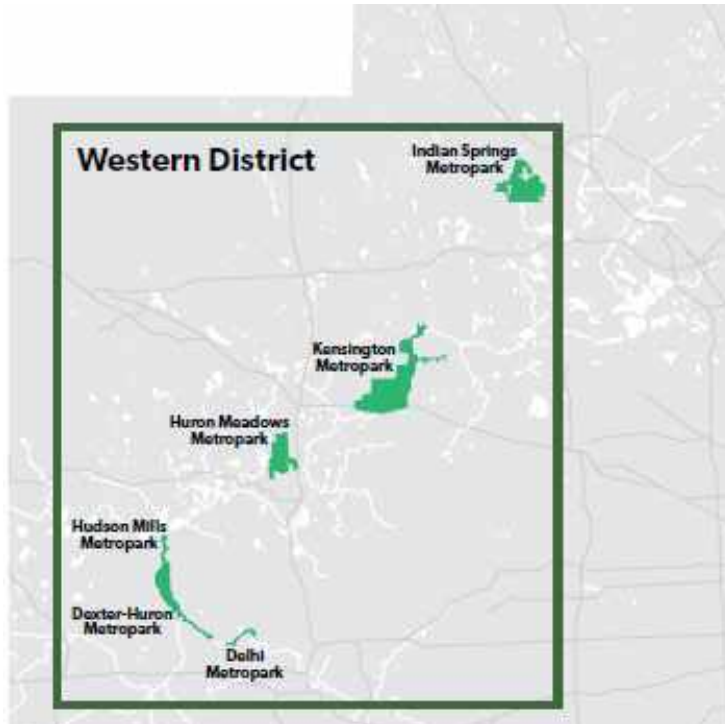
	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
LEr	Lake Erie Shoreline Restoration Project	Spoil Pile Location	Ops . NR	October	Staff time	Archaeological services completed
	Adaptive Ballfield Concept Plan	Plan		2022	Staff time	Stakeholder zoom meeting with Cal Ripken Multi-Use ballfield scheduled.

## HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
LEr	Marina building study	Large Facilities		2021	Consultant	Master planning concept design 75% completed by architect
Oak	NOAA Dam Removal Feasibility Study	Large Facilities		2023	Consultant	Great Lakes Fisheries Commission leading grant submittal scheduling kick-off meeting in September.



# WESTERN DISTRICT







## West Boat Launch Accessible Kayak Grant Project








# WESTERN DISTRICT

## Administrative




	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Del	Border-to-Border trail design and construction	Large Facilities		Ongoing	Estimated Cost	Construction began on B2B segment Zeeb Rd. to Delhi Metropark.
MISC	Livingston County Parks and Open Space Advisory Committee	Partnership		Ongoing	Staff time	Attendance at regular POSAC meetings. Trail counter in place at Fillmore County Park. Data downloaded monthly
	Friends of the Lakelands Trail Steering Committee	Partnership		Ongoing	Staff time	Represent HCMA as a participating steering committee member that meet monthly
	Huron Valley Trail quarterly meeting	Partnership		Ongoing	Staff time	Represent HCMA as a participating partner.

## Grants/Fundraising


	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Del	Skip's Livery improvements	Large Facilities		Ongoing	Staff time	Per DNR review request changed scope item description, resubmitted for final scoring.
KEN	Kubota Hometown Proud	Partnership		Ongoing	Staff time	Greenhouse and raised garden beds to replace community garden
ISp	CE Headwaters Restoration	Partnership		Ongoing	Staff time	Awarded project, project team meeting to discuss scope of work 5/11. MOU with MNA being developed.

# WESTERN DISTRICT

## Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Ken	2019 TF West Boat Launch Accessible Launch Project	Large Facilities		Ongoing	Staff time	Construction underway near completion.
HMills	2019 TF Rapids View Accessible Launch Project	Large Facilities		Ongoing	Staff time	Construction completed. Minor punch list items being installed.
DHu	2020 TF – Dex-Huron Accessible Launch	Large Facilities		Ongoing	Staff time	Engineering design adhering to Natural Rivers Permit requirement

## Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
	Off-leash dog area concept plan	Large Facilities		August	Staff time	Site selection phase underway reviewing optimal location in Western District.

## HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
HMills	Northwest Passage Feasibility Study Review	Plan	Various	2022	Staff time	Review WCPARC/Dexter Twp. preliminary design

# EASTERN DISTRICT



Stony Creek Metropark TAP Grant Hike-Bike Path Project in partnership with Macomb County Department of Roads






# EASTERN DISTRICT





## Administrative

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
WMIII	Schmidt Property Acquisition	Land Acquisition		Fall 2022	Acquisition	Working on demolition of deteriorated barns and other structures on site.

## Grants/Fundraising



	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
SCR	2022 LWCF/MNRTF- Stony Creek Reflection Trail Accessible Trail Development	Small Facilities		Ongoing	Staff time	DNR Trust Fund and LWCF grant submitted on April 1, 2022; Anticipate preliminary scores in early fall 2022.
LSC	Michigan Coastal Management Program Grant – Accessible Kayak Launch	Large Facilities	Various	Ongoing	Staff time	Grant agreements signed, ready for engineering design.
	Macomb County Birding Platform	Small Facilities		March 2022	Staff time	Conceptual birding platform completed. Site visit with Macomb County discussed potential site location moved to nature trails
	2022 LWCF- West Boardwalk Accessibility Improvements	Small Facilities		April 2021	Staff time	LWCF Fund grant submitted on April 1, 2022; Anticipate preliminary scores in early fall 2022.

## Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
LSC	Transit Planning for Access to LSC	Large Facilities		2021 Completion	Consultant/Staff	Metropark Express launched to continue through 2022. Strategy in progress with SMART for continued marketing efforts and data reporting/analysis
	LSC Beach Restoration Project- Nonpoint Source Pollution Project	Large Facilities		2023 Completion	Staff time	Water quality monitoring ongoing, dune grass to be replanted in fall
	Nature Trail wayfinding signage plan development	Small Facilities		July	Staff time	Development of a wayfinding plan for the nature trail system as a guide to update trail signage
	2019 TF – Off-leash Dog Area Development	Large Facilities		Ongoing	Staff time	Unofficially opened to the public, ribbon cutting being scheduled

# EASTERN DISTRICT

## Project Implementation/Oversight, Cont.

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Scr	Shelden Trails Signage Plan	Small Facilities	Mkting	3 months	Staff time	Mapping and signing of ski trails and intersection numbers completed
	26 Mile Connector Trail TAP Grant	Large Facilities		2022 Completion	Staff time	Construction near completion
	Mound Rd. north of fire station sidewalk easement	Small Facilities		2022 Completion	Staff time	Preliminary site plan approved with comment with HCMA request to avoid easement acquisition. Awaiting response by Washtenaw Twp. legal consultant.

## HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Scr	None					

## Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	September 2022 Actions
Scr	Baypoint Beach concept plans developed	Plan	Various	2021	Staff time	Preferred concept replacement of tent facility with event shelter

## Grant Updates - September 2022

In Progress								
Grant program		JV/MN	Project/Park	Amount	Match	Due Date	Applicant	Notes
Various private foundations		MN	GOAL	\$5K - \$10K ea	-	varies	MF	Working to expand foundation giving to GOAL project
DNR Community Forestry Grant		MN	LSC and/or LE Tree Plantings	\$25,000	50%	9/23/2022	HCMA	Replace trees lost to high water & other damage; meet w/TM to dev. project
DNR Spark Grant		MN	TBD	up to \$1,000K	-	TBD	HCMA	Working w/planning, eng., & park staff to select appropriate project
RCWJ Foundation/Metroparks Connectors		JV	Trail Connectors/SEMTAT	TBD	TBD	TBD	MF	3 proposals came in - need direction on next steps and budget
DTE		JV	Efleet	TBD	TBD	TBD	HCMA	Need a PO or budget to show purchase of Evs for fleet - wait til Dec.
DNR Spark Grant			LE Great Wave Pool	\$1,000,000	TBD	TBD	HCMA	Starting to develop concept for pool liner, deck, and bathhouse
RCWJ Trail maintenance			Willow IBT, CSX Crossing	TBD	TBD	3/31/2023	MF	
Grant Applications Awaiting Response								
Grant program	Project #	JV/MN	Project/Park	Award Amt	Match	Submitted	Applicant	Notes
DNR TF '22		MN	DEL Launch/Take-out Renovat	\$300,000	\$302,600	3/30/2022	HCMA	Changed scope item description in Aug. per DNR; preliminary scores due soon
Fed. Community Project via DOT		MN	Liv. Co. Connector Trails Design	\$900,000	-	4/22/2022	HCMA	Funded in House THUD appropriations bill 7/20; in Senate reconciliation
US DOJ Bulletproof Vest Partnership		MN	Police Department	\$8,600	50%	6/23/2022	HCMA	State submitted application to DOJ; notification anticipated by end of Sept.
Washtenaw 100		MN	Police Department	\$2,157	-	7/8/2022	HCMA	Training materials; bleeding control kit; tourniquet
Fed. Community Project		JV	LSC North Marina	\$500,000	-	4/14/2022	HCMA	Appropriations request submitted to Lisa McLain for engineering
Macomb Appropriations		JV	LSC North Marina	\$5,000,000	\$1,000,000	5/17/2022	HCMA	Appropriations request for phase 1
LWCF 2022		JV	LSC West Boardwalk	\$500,000	\$500,000	4/1/2022	HCMA	Provided DNR staff tour; expect higher project cost; match reduced to 50%
LWCF & MNRTF 2022		JV	Stony Creek Reflection Trail	See notes	See notes	4/1/2022	HCMA	Full cost is \$1,155,800. TF grant is \$300,000, LWCF grant is \$500,000. Cash match is \$825,800 & \$625,800 respectively w/\$30,000 in in-kind engineering
DTE Foundation		JV	Tree plantings at HMI & WMI	\$4,000	\$4,000	6/17/2022	HCMA	Submitted
Grant Administration								
Grant program	Project #	Mgmt	Park/Project	Award Amt	Match	Deadline	Applicant	Updates
LWCF '18	50619.419	MN/JK	LH North Fishing Site	\$144,400	\$144,400	4/30/2022	HCMA	Final reimbursement submitted; waitng on DNR/federal review
GLRI-FS '18	50219.688	MN/TM	LSC Black Cr Shoreline	\$160,211	-	12/31/2022	HCMA	Making chgs based on launch project; soil/seeding this fall; duck boxes winter
Impact 100 - Oakland Co. '18		MN/PB	KFC Seeding Green Future	\$90,000	-	11/18/2022	MF	Request for 1 year extension (due to COVID interruptions) approved
MNRTF '19	50820.218	MN/JK	HMI Rapids View Launch	\$226,400	\$226,900	8/31/2022	HCMA	Contractor work complete, except for planting (fall), minor trailhead, & misc.
LWCF '19	51120.114	MN/AS	Oak Access. Nature Trails	\$124,000	\$124,000	2/29/2024	HCMA	Project Agreement executed; design anticipated in Oct. '22
LWCF '20	50621.500	MN/?	LH WGr Campground	\$300,000	\$150,000	TBD	HCMA	Waiting on NPS agreement
MNRTF '20	50821.221	MN/KE	DxH Accessible Launch	\$192,700	\$192,800	5/31/2023	HMCA	Project design on hold; eng. to begin work again Aug/Sept timeframe
Ford Volunteer Corps '20		MN/KK	Oak Prairie Plantings	\$4,000	-	11/30/2021	MF	Remaining planting scheduled 9/21-22 w/volunteers & NR staff
NFWF-SEMRF '21	51021.319	MN/TM	Wil Big Bend Area Restoration	\$250,000	\$177,859	6/30/2023	HCMA	Plans finalized; invitation to bid for in & out stream work; fall construction
Ford Volunteer Corps '21		MN/KK	Wolcott Raised Garden Beds	\$7,500	-	11/30/2021	MF	Project complete w/exception of new sign still under development
Anonymous Foundation '21		MN/JJ	GOAL	\$10,000	-	7/31/2022	MF	Final report being prepared
NEEF-Toyota '21		MN/KK	Beach Wheelchairs	\$20,000	~\$5,000	10/31/2022	HCMA	Manufacturer delay on chairs due to parts shortage; signage being developed
DNR TF '21		MN	LE Cherry Island Trail	\$300,000	\$192,500	7/31/2024	HCMA	Project agreement received!
Consumers Energy Found.	90022.116	MN	IS Headwater Restoration	\$100,000	-	5/31/2024	HCMA	TM developing MOU with MNA and RFP for invasives control & planting

GLRI-EPA Nonpoint Source	51222.247	MN	Green Infrastructure @ LE	\$483,500	-	4/30/2025	HCMA	MOU signed by Wyandot; held staff kick-off mtg; modified plans developed
NOAA GLs Fish Habitat Restor.		MN	Flat Rock Dam Feasibility	\$745,000	\$25,000	9/30/2024	GLFC	Grant accepted for Phase I feasibility study via GLFC; Sept. kick-off meeting
Four County Community Found.	11322.117	MN	Wolcott Mill Farm Center	\$8,000	-	6/29/2022	MF	Check received; new programs kicking off for '22/'23 school year
Four County Community Found.	10922.117	MN	Stony Creek Nature Center	\$9,350	-	6/29/2022	MF	Check received; new programs kicking off for '22/'23 school year
DNR Iron Belle Trail	50529.126	JV/MH	LH IBT Design Engineering	\$82,075	\$23,400	9/1/2021	HCMA	Pre-con held on 8/17 - asked for extension, no word yet from DNR
MNRTF '19	50420.112'	JV/AS	Ken West Boat Launch Dev	\$154,000	\$154,000	8/31/2022	HCMA	Project nearly complete, progress report sent in
LWCF '19	51220.241	JV	LE Kayak Launch	\$122,500	\$122,500	6/1/2024	HCMA	Project Agreement Signed
MNRTF '19	50920.555'	JV/JK	SC Off Leash Dog Area	\$50,000	\$88,500	8/31/2022	HCMA	Project completed - conducting project close out
TAP Grant		JV/JK	SC 26-Mile Connector Trail	\$214,455	\$43,000	12/31/2021	Macomb Co	Construction nearly complete, paid 2 invoices to Macomb County
Ralph C. Wilson Jr. Foundation		JV	Southern District	\$2,682,755	-	??	MF	Progress report submitted
REI		JV/KK	Rouge Park Prairie	\$10,500	-	12/31/2021	HCMA	Items for prairie trailhead ordered and delivered
EGLE Non point source	50220.696	JV/NK	LSC Beach	\$300,000	\$100,000	12/31/2023	HCMA	Water quality monitoring ongoing, dune grass to replanted in fall
EGLE - Recycling		JV/JB	Western & Southern Districts	\$48,816	\$12,204	9/29/2023	HCMA	4th quarterly report submitted
MNRTF '20		JV	LH IBT	\$300,000	\$416,766	6/1/2023	HCMA	Pre-con held on 8/17
LWCF '20		JV	LH Off-Leash Dog Area	\$165,400	\$165,400	~ Summer '23	HCMA	Project agreement coming soon
Healthy Catalyst		JV	Adaptive Kayak equipment	\$2,950	\$0	10/30/2020	HCMA	\$166 left to spend. Trained Kensington staff on 8/6
REI	90020.115	JV	Rouge Park Prairie	\$16,000	TBD	5/4/2021	MF	REI provided another \$8000 in 2022. Materials are being ordered for prairie
NOAA/Great Lakes Commission		JV/TM	Lake Erie Shoreline Restoration	\$1,449,609	\$135,194	extended	HCMA	Phase 2 bidding on MITN, Dredging underway
Renew MI - DRFC		JV	DRFC	\$1,000,000	N/A	4/30/2021	HCMA	Second quarterly report submitted
MCMP		JV	LSC Accessible Launch	\$194,863	\$194,863	12/31/2022	HCMA	Construction underway, quarterly report submitted
Green Macomb (sub recipient)		JV	20 Trees at Stony Creek	\$3,000		12/31/2022	HCMA	Reimbursable at \$150/tree. Gary/Steve to develop plan

# WHAT'S NEXT?

	Description	Action Type
SYSTEM WIDE	CAPRA documentation assembly	Staff time
	5-County Regional Non-Motorized Gap RFP	Staff/consultants
	Community Recreation Plan Development	Staff
	Electric Vehicle Initiatives	Staff/consultants
EASTER DISTRICT	Site visit (field trip) to City of Windsor Swimming Pool Install (evaluation of similar retrofit for Lake Erie Wave Pool)	Staff time
	Programming Evaluations	Staff time
WESTERN DISTRICT	Northwest Passage alternative analysis review	Staff time
	Lake Erie, Willow-Oakwoods metroparks 5-year plan updates	Staff time
SOUTHERN DISTRICT	Adaptive Ballfield stakeholder and community input	Staff time
	Metroparks Adaptive Recreation Clinics	Staff time







To: Board of Commissioners  
From: Jennifer Jaworski, Chief of Interpretive Services  
Subject: Report – Interpretive Services Department Monthly Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file Interpretive Services Department Monthly update as recommended by Chief of Interpretive Services Jennifer Jaworski and staff.

**Attachment: Monthly Interpretive Services Department Update**



# HURON-CLINTON METROPARKS

## INTERPRETIVE SERVICES MONTHLY REPORT

September 2022

Administrative Office  
13000 High Ridge Drive  
Brighton, MI 48114



[METROPARKS.COM](https://www.metroparks.com)





# TABLE OF CONTENTS

<b>Program/Initiative Implementation . . . . .</b>	<b>4</b>
<b>Community Engagement . . . . .</b>	<b>7</b>
<b>Programming . . . . .</b>	<b>8</b>
<b>Grants . . . . .</b>	<b>10</b>

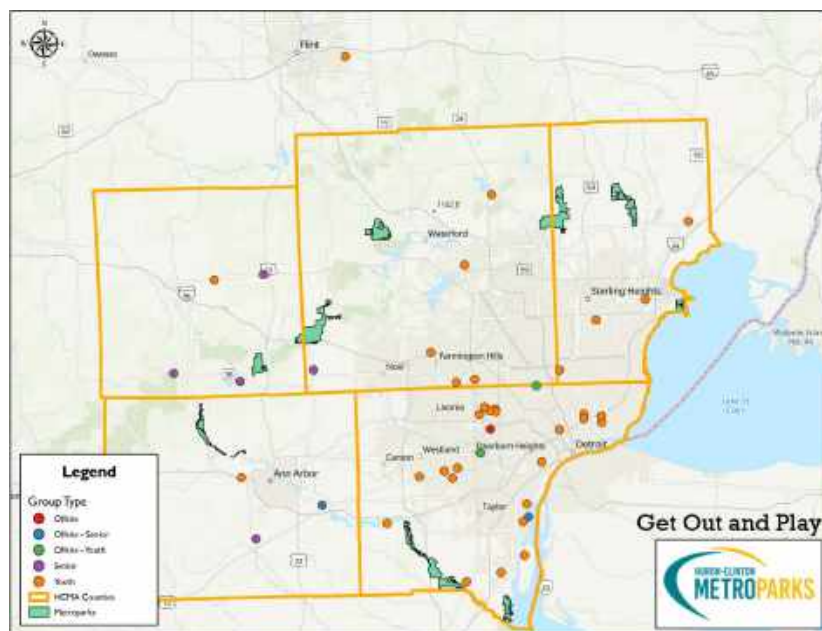
# Program/Initiative Implementation

## New:

- **Supplemental science curriculum with DPSCD**
  - The M.O.U. agreement is completed and approved.
  - Discussions with principal, assistant principal, and teachers were held on site. All lessons will align to DPSCD science curriculum for 2<sup>nd</sup>-5<sup>th</sup> and 8<sup>th</sup> grades. Metroparks will be in the classrooms by mid-September through June 2023. As well as coordinate off-site field trips.

## Ongoing:

- **Cultural Competency training for Community Outreach team in coordination with DEI**
- **Get Out and Play 2022**
  - **Get Out & Play: In the Park** - This grant provides non-profit organizations and public institutions who serve under-resourced youth and seniors within Livingston, Macomb, Oakland, Washtenaw and Wayne Counties a day of fun at either Kensington, Lake St. Clair or Willow Metropark! Participants receive a free lunch (hot dog, chips, and water), reimbursement of transportation costs (up to \$500/bus), and access to a park's water facility or an Island Queen boat ride.
  - **Get Out & Play: On the Road** - This grant provides an interpreter to come to a location of your choosing to conduct an interactive educational nature program featuring an up-close look at live animals. Animals that could be included during the presentation are frogs, toads, or snakes.
    - 53 Organizations
      - 9 Senior organizations, 44 Youth organizations
    - 2017 Participants
      - 303 Senior participants, 1714 Youth participants
    - Park Visit breakdown
      - 10 – Willow Metropark Pool
      - 13 – Lake St. Clair Pool
      - 14 – Kensington Splash N' Blast
      - 10 – Kensington Island Queen
      - 6 – On the Road







Organization Name	# People	Date	Zip Code	City	Park	Description
Little Scholars Detroit	46	6/16/2022	48223	Detroit	Kensington Metropark	Get Out & Play: Kensington Island Queen
Wayne Metro CAA-Tomlinson A2G	25	7/14/2022	48138	Grosse Ile	Kensington Metropark	Get Out & Play: Kensington Island Queen
Hartland Senior Activity Center	25	7/21/2022	48843	Howell	Kensington Metropark	Get Out & Play: Kensington Island Queen
Saline Area Senior Center	46	7/26/2022	48176	Saline	Kensington Metropark	Get Out & Play: Kensington Island Queen
Center For Active Adults	45	7/27/2022	48178	South Lyon	Kensington Metropark	Get Out & Play: Kensington Island Queen
Putnam Twp. Senior Center	30	7/28/2022	48169	Pinckney	Kensington Metropark	Get Out & Play: Kensington Island Queen
Center for Active Adults	45	8/2/2022	48178	South Lyon	Kensington Metropark	Get Out & Play: Kensington Island Queen
Wayne Metro	46	8/4/2022	48186	Westland	Kensington Metropark	Get Out & Play: Kensington Island Queen
Center for Active Adults	46	8/9/2022	48178	South Lyon	Kensington Metropark	Get Out & Play: Kensington Island Queen
Hamburg Senior Center	26	8/10/2022	48139	Hamburg	Kensington Metropark	Get Out & Play: Kensington Island Queen
Wayne Metro	21	8/11/2022	48186	Westland	Kensington Metropark	Get Out & Play: Kensington Island Queen
Village of Shiny Stars	40	6/8/2022	48229	Ecorse	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Greater Ebenezer Christian Child Care Center	50	6/9/2022	48223	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Gwen's Heavens Angels Day Care LLC	12	6/14/2022	48223	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Brandon School Camp hawks	25	6/23/2022	48423	Davison	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Detroit Parent Network	50	7/12/2022	48202	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Wayne Metro A2G - Lafayette	50	7/14/2022	48186	Westland	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
The Salvation Army	40	7/20/2022	48336	Farmington Hills	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Jude Family Childcare Learning Center	30	7/21/2022	48213	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Wayne Metropolitan CAA	12	7/26/2022	48141	Inkster	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Joda Jewels Consulting/Grandparents Parenting Again	50	7/27/2022	48223	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
IHN at Alpha House	24	7/28/2022	48103	Ann Arbor	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Kristy's Learning Center	50	8/2/2022	48202	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Howell Parks and Recreation Authority	50	8/3/2022	48843	Howell MI	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Wayne Metropolitan CAA	40	8/4/2022	48240	Redford	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Children of the Rising Sun Empowerment Center	50	8/10/2022	48219	Detroit	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Wayne Metro	21	8/11/2022	48186	Westland	Kensington Metropark	Get Out & Play: Kensington Splash 'n' Blast
Turning Point, inc	25	6/29/2022	48046	Mount Clemens	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Alkebulan Village	50	7/15/2022	48213	Detroit	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Wayne Metro A2G Lafayette	50	7/21/2022	48186	Westland	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Harrison Township Public Library	50	7/22/2022	48091	Warren	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
East Bethlehem Lutheran Church	50	7/25/2022	48312	Sterling Heights	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Bethlehem Lutheran Early Learning Center	27	7/27/2022	48048	New haven	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Today Is The Day Inc	50	7/29/2022	48214	Detroit	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
A2G Raupp	30	8/4/2022	48186	Westland	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
East Bethlehem Lutheran Church	50	8/5/2022	48312	Sterling Heights	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Turning Point, inc	25	8/10/2022	48046	Mount Clemens	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
Chandler Park Conservancy	50	8/11/2022	48214	Detroit	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
The Baldwin Center	50	8/12/2022	48342	Pontiac	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
First Spanish American Baptist Church	50	8/19/2022	48362	Lake Orion	Lake St. Clair Metropark	Get Out & Play: Lake St. Clair
St. Anselm Catholic School	50	6/23/2022	48127	Dearborn Heights	Offsite	Get Out & Play: On the Road
Ypsilanti Senior Center	20	7/7/2022	48197	Ypsilanti	Offsite	Get Out & Play: On the Road
Central Woodward Community Partnership	25	7/19/2022	48221	Detroit	Offsite	Get Out & Play: On the Road
St. Paul United Church of Christ	25	7/27/2022	48134	Flat Rock	Offsite	Get Out & Play: On the Road
Plymouth Square	20	8/8/2022	48228	Detroit	Offsite	Get Out & Play: On the Road
The Salvation Army Downriver Corps	40	8/9/2022	48192	Wyandotte	Offsite	Get Out & Play: On the Road
Farmington Family YMCA	50	7/5/2022	48334	Farmington Hills	Willow Metropark	Get Out & Play: Willow
Wayne Metro	50	7/7/2022	48186	Westland	Willow Metropark	Get Out & Play: Willow
LASED	50	7/8/2022	48209	Detroit	Willow Metropark	Get Out & Play: Willow
Wayne Metro Community Action Agency	22	7/14/2022	48192	Wyandotte	Willow Metropark	Get Out & Play: Willow
Project Impact	30	7/15/2022	48033	Southfield	Willow Metropark	Get Out & Play: Willow
A2G Raupp	30	7/21/2022	48186	Westland	Willow Metropark	Get Out & Play: Willow
Wayne Metro Community Action Agency	23	7/28/2022	48183	Trenton	Willow Metropark	Get Out & Play: Willow
St. Paul United Church of Christ	40	7/29/2022	48134	Flat Rock	Willow Metropark	Get Out & Play: Willow
Wayne Metropolitan Community Action Agency	30	8/4/2022	48141	Inkster	Willow Metropark	Get Out & Play: Willow
Milan Summer Camp	50	8/11/2022	48160	Milan	Willow Metropark	Get Out & Play: Willow
Guiding Harbor	50	8/12/2022	48111	Belleville	Willow Metropark	Get Out & Play: Willow



# COMMUNITY ENGAGEMENT

## New:

- Stroller role at Valade Park, Detroit Riverfront Conservancy
- Armada Fair
- Astronomy for Clarkston Teachers



Metroparks set up at Armada Fair

# PROGRAMMING

## Ongoing:

- **Get Out and Learn scholarships**
  - Will start again during the 2022-2023 school year
- **In-person, Synchronous and Asynchronous school programming continues**
- **In-person outdoor programming continues, including “pop-up” programs**
  - Staff is utilizing the data in the survey and identifying which programs offered to meet the most need within communities. This data will be utilized for 2023 program planning
- **Virtual/Social Media programming continues**
  - Continuing with Bird of the Week
  - Climate, water and wildlife Wednesdays
  - Building from Washtenaw County Water Commission messaging
  - Creating blogs and videos around water quality, restoration, and wetlands.



Wolcott Mill Metropark Farm Center Sunflower Field



# GRANTS

## Ongoing:

- Green Ribbon Initiative with the Nature Conservancy, this grant covers conducting programming that highlights Oak Openings and develop interpretive signage at Oakwoods Nature Center.
- Completed Ford Grant raised bed project with the installation of an accessible bed.



Wolcott Mill Metropark Farm Center accessible raised bed -Ford Grant







To: Board of Commissioners  
From: Artina Carter, Chief of Diversity, Equity and Inclusion  
Subject: Report – DEI Monthly Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the monthly DEI report as recommended by Chief of Diversity, Equity and Inclusion Artina Carter and staff.

**Attachment: DEI Report**





# DEI BOARD REPORT

September 2022



[METROPARKS.COM](https://www.metroparks.com)

# DEI DEPARTMENT

## MISCELLANEOUS

- Data collection and development of the 2023-2026 DEI Plan
- DEI Cultural Awareness Session-Lotus Flower and Chinese Culture attended by 39 people and now available on website
- Research in preparation for LGBTQIA+ DEI Conversation
- Development meetings for Martin Luther King Jr. Day event/activity
- Research for DEI-FYI: Hispanic Heritage Month
- Management training development
  - Police
  - Tier 1 (Leadership)
  - Tier 2 (Middle Management)
- Interviews
  - IT
  - Police Officer
- Final preparation for September DEI Speaker Series event
- Preparation for the DEI Advisory Team book discussion session
- Initial department budget discussions

## CROSS-DEPARTMENT SUPPORT

- Conducted Cultural Competence Training with Interpretive Services
- Participated in the Program Steering Committee
- Climate Action Plan core team and workgroup
- Outreach for DEI Advisory Team expansion
- Worked with Marketing to create promotional video for Movie in the Parks
- Participated in Action Trak meeting



**\*REMINDER\***

## **Ellen Ochoa**

**Astronaut, First Latina in Space,  
Former Director of NASA's Johnson Space Center**



**Thursday, Dec. 8, 2022  
11:00am-Noon**

**NOTE:** *The Zoom link for this event will be included in the November Board Packet  
**and** sent in advance of the December Board Meeting.*



To: Board of Commissioners  
From: Danielle Mauter, Chief of Marketing and Communications  
Subject: Report – Marketing Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file monthly Marketing update as recommended by Chief of Marketing and Communications Danielle Mauter and staff.

**Attachment: Marketing Report**



# HURON-CLINTON METROPARKS MARKETING REPORT

August 2022

Administrative Office  
13000 High Ridge Drive  
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)

# AUGUST 2022

## Metroparks Social Media Ambassadors Selected

As presented at the July Board Meeting, Metroparks marketing staff created a campaign to solicit applications from potential social media ambassadors. Video ads were created that are being targeted on Instagram and Tik Tok to younger audiences as the Metroparks search for ambassadors aged 14 and above to join a team of influencers who will post content about the Metroparks in their own voice to their followers and audiences.

In this way, the Metroparks hope to reach deeper and more authentically into audiences that are traditionally harder to reach.

Messaging was shared out on all our social media accounts as well as an email blast to subscribers, an email to staff, an email request to partners and a media alert to share information about the program with their audiences as well.

The Metroparks received 93 applications for the pilot program. Applicants were vetted for appropriateness of their account, size of audience they potentially reach, content style matching Metroparks brand and diversity. In total, 15 ambassadors were selected for the pilot program; one declined and 14 returned contracts and started the program.

Ambassadors received a welcome package with an annual pass to allow them to visit all Metroparks and write content about them. All ambassadors were welcomed and introduced in our Instagram stories in August and they started posting with water facilities. Each month ambassadors receive an email newsletter with the monthly content topic assignment that they create content for their audiences using their own flair and style.

## Swim Partnership Programs – Filming and Photos

Swim lesson partnerships are wrapping up for summer and filming has concluded. The filming of swim lessons ended on a strong note with the Lieutenant Governor appearing on camera in support of these partnerships. The final video will be ready for presentation at the September Board meeting and all footage and photos will be shared with all partners via OneDrive share file immediately following the meeting.

## Coming Soon – Summer Campaign Evaluations

After labor day, marketing staff will be doing an analysis and evaluation of summer campaigns. Attendance data will be compared to marketing and communications efforts to identify possible trends, successes and failures. Those reports will be included in October board reports and as part of the 2023 marketing plan creation process.

- Evaluation of summer program guide campaign
- Evaluation of summer general brand campaign
- Evaluation of Movies in the Parks campaign
- Evaluation of 2022 Annual Pass campaign
- Evaluation of TikTok ads experimentation – multiple campaigns: Ambassador, Movies in the Parks, Annual Pass, Fall

## Media Efforts

Throughout August, the Metroparks continued to see coverage of the efforts in swim lesson partnerships. Additionally, media picked up stories about Nocturnal Wildlife weekend; the completion of the off-leash dog area at Stony Creek Metropark; the announcement of grants and grant project progress along the Huron River at multiple parks and with multiple grants; Metropark Express; Movies in the Parks and Social Media Ambassador pilot program. Additionally, the Chief of Marketing and Communications coordinated the crisis communications around the HexChrom release by Tribar into the Huron River. This coordination included daily PIO conversations with EGLE, MDHHS and other agencies to help inform staff and visitors of changes to the situation.

## Fall Campaigns Kick-Off

As summer winds to an end, we all start to feel fall in the air. That means we are quickly approaching the kick off of our fall campaigns. For the Metroparks, Fall campaigns will kick-off on Sept. 15. Fall campaigns this year are split into a few different efforts as follows:

- General Branding – Fall activities and color
  - :30 sec TV/Video commercials on broadcast, cable and OTT/streaming
  - :15 sec social video for YouTube pre-roll, OTT/streaming and social placements
  - Fall radio commercials describing fall overall
  - Billboards
  - Digital/social ads with general branding style; fall activities photos and headlines
  - Organic social posting
  - Very select print ads
- Fall Events and Programs – Illustrated campaign showcasing ALL events and Programs
  - Website landing page
  - Digital/social ads – multiple artwork types including carousel to highlight different types of programs
  - TikTok and reels ads
  - Organic social posting
  - In-park advertising
  - Flyers at partner locations
  - Email blasts
  - Media alerts
  - Very select print ads
  - Sponsored content article on Michigan Chronicle and Metroparent
- Dedicated campaign for larger or new events
  - Sheldon Mountain Bike Fest
  - Hallowpalooza at Lake St. Clair
  - Trunk or Treat and Movie at Hudson Mills (event name TBD)
  - Evening Lantern Tours at Oakwoods
  - Hawkfest at Lake Erie
  - Trick-or-Treat along the trails – multiple locations
  - Field trips and education
  - November Owl Programs







To: Board of Commissioners  
From: Sarah Plumer, Chief of Planning and Development  
Subject: Report – Visitation/Permit Scanning Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the May 16 - June 15 and June 16 – July 15 Visitation/Permit Scanning Update as recommended by the Chief of Planning and Development Sarah Plumer and staff.

**Fiscal Impact:** None

**Background:** The electronic report link includes a thematic zip code and barcode scanning activity in the Metroparks for the period from May 16 - June 15, 2022. During this time, there were a total of 169,892 barcode scans system wide. Compared to 257,881 barcode scans system-wide during the same period in 2021, this represents more than a 34.1 percent decrease in total scans year over year.

In addition, the electronic report link includes a thematic zip code and barcode scanning activity in the Metroparks for the period from June 16 – July 15, 2022. During this time, there were a total of 226,853 barcode scans system wide. Compared to 227,085 barcode scans system-wide during the same period in 2021, this represents a more than 0.1 percent decrease in total scans year over year.

**Report:** [Huron-Clinton Metroparks Park Visitation Report](#)





To: Board of Commissioners  
From: Sarah Plumer, Chief of Planning and Development  
Project Title: Report – SE Michigan Swim Program Development Plan Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the Southeast Michigan Swim Program Development Plan update as recommended by the Interim Chief of Planning and Development Jay Bibby and staff.

**Fiscal Impact:** Funding for this project was included in the Board approved 2021 budget in the Planning and Development Department's Professional Services account for \$50,000.

**Background:** To address the systemic disparities in swim ability and water competence as depicted in demographic and socioeconomic statistics, the Metroparks invited qualified consultants to submit proposals for the development of a programming plan, in coordination with partner recreation agencies, with the goal of improving swimming ability and water competence. The scope of work would focus on public swimming programs and facilities across the five-county region, and involved three key components:

1. Existing Conditions – “State of Swimming” Report
2. Development of swimming – related goals/objectives for the region
3. Development of a programming action plan

An RFP was competitively bid and awarded to Counsilman-Hunsaker and Associates, Inc.

**Attachment: Swim Program Development Plan Update**

# Huron Clinton Metroparks Swimming Program Development Plan



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**Counsilman · Hunsaker**  
AQUATICS FOR LIFE

# Huron Clinton Metroparks Swimming Program Development Plan



**Counselman · Hunsaker**  
AQUATICS FOR LIFE

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# Table of Contents

Executive Summary .....	1
Existing Conditions – “State of Swimming” Report .....	1
Swimming Program Goals and Action Plan .....	11
Introduction.....	13
Methodology .....	14
Steering Committee .....	14
Existing Conditions – “State of Swimming” Report .....	16
Providers within the Huron Clinton Metroparks 5-County Area .....	16
Southeast Michigan Swim Instruction and Water Safety Programs.....	19
Challenges and Barriers for Swim Instruction and Water Competence Programming .....	30
Public Swimming Survey .....	31
Huron Clinton Metroparks Aquatic Facility Review.....	38
Swimming Program Goals and Action Plan .....	85
References.....	99
Appendix A: SE Michigan Swimming Program Survey Full Report.....	101
Appendix B: Lake Erie Metropark Great Wave Pool Audit (Jan 2022).....	139
Appendix C: Southeast Michigan Aquatic Facilities.....	187
Facilities.....	187
Facilities and Amenities.....	193
Facilities and Swim Programs .....	198
Facilities and Membership Rates.....	203
Appendix D: Swimming Program Development Plan Steering Committee Presentations .....	209

May 26, 2021 .....	209
November 17 and 18, 2021 .....	221
December 15 and 16, 2021 .....	254
March 15 and 16, 2022 .....	275

## Executive Summary

In 2021 Counsilman-Hunsaker was retained by the Huron-Clinton Metropolitan Authority (HCMA, aka Metroparks) to undertake a Swimming Program Development Plan. The Swimming Program Development Plan aims to improve swimming ability and water competence within the Southeast Michigan Region.

Counsilman-Hunsaker used several methods to obtain information and to investigate public and non-profit facilities in the five-county area, physical structures and to gather information necessary for goals and recommendations for the Swim Program Development Plan. Counsilman-Hunsaker used the following methods:

1. Inventory and analysis of SE Michigan public, private, and non-profit aquatic facilities
2. Administration and analysis of the 5 – County Recreation and Swimming Survey
3. Swimming Program Development Plan Steering Committee Meetings
4. Evaluation of current Metropark pool sites:
  - a. Lake Erie Metropark Great Wave Pool
  - b. Lake St. Clair Metropark Pool
  - c. Willow Metropark Pool

Huron-Clinton Metropolitan Authority selected participants for the steering committee from Metroparks staff and partner agencies like the Detroit Riverfront Conservancy and the City of Detroit and citizen leaders that have a vested interest in improving swimming in the Southeast Michigan Region and the City of Detroit. The steering committee members included:

1. Nina Kelly (Huron-Clinton Metropolitan Authority)
2. Leah Blizinski (Huron-Clinton Metropolitan Authority)
3. Janet Van De Winkle (Huron-Clinton Metropolitan Authority)
4. Jay Bibby (Huron-Clinton Metropolitan Authority)
5. Jeff Linn (Lake Erie Metropark)
6. Holly Clegg (Lower Huron/Willow Metroparks)
7. Jeff Schuman (Lower Huron/Willow Metroparks)
8. Rachel Frierson (Detroit Riverfront Conservancy)
9. Erin Casey (City of Detroit Parks and Recreation)
10. Lynda Jeffries (The Leadership Group, LLC; Considine Family Life Center)

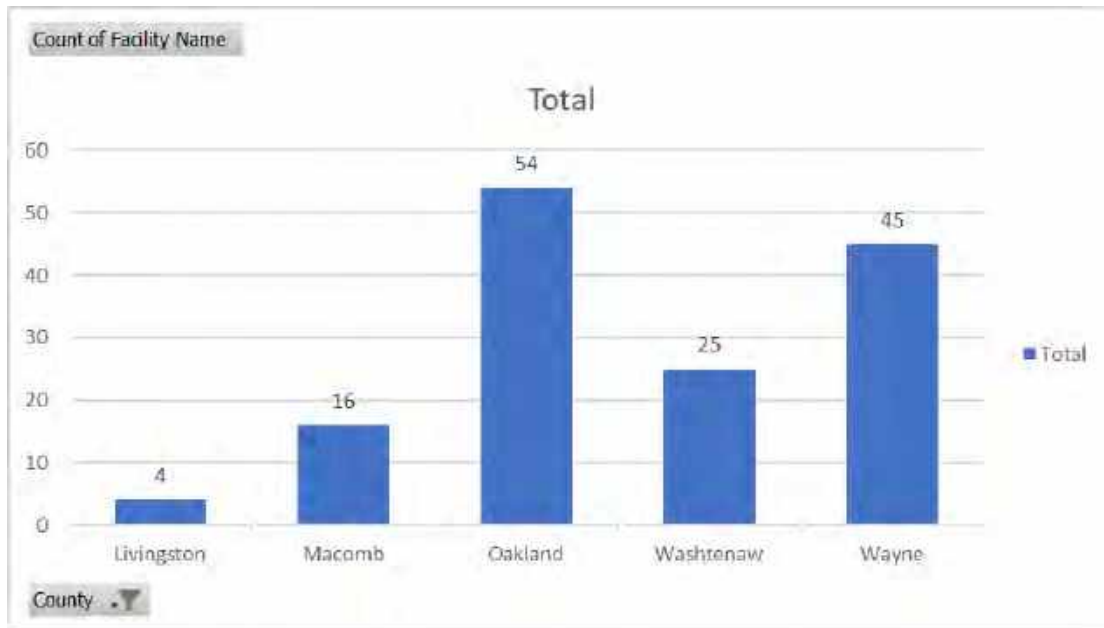
The steering committee was charged with three tasks:

1. Assist in developing goals and objectives
2. Identify areas for partnership
3. Identify ways partner agencies may participate in the action plan steps identified

## Existing Conditions – “State of Swimming” Report

In the facility inventory, Counsilman-Hunsaker identified 144 aquatic facilities within the five-county area.





The facilities consist of:

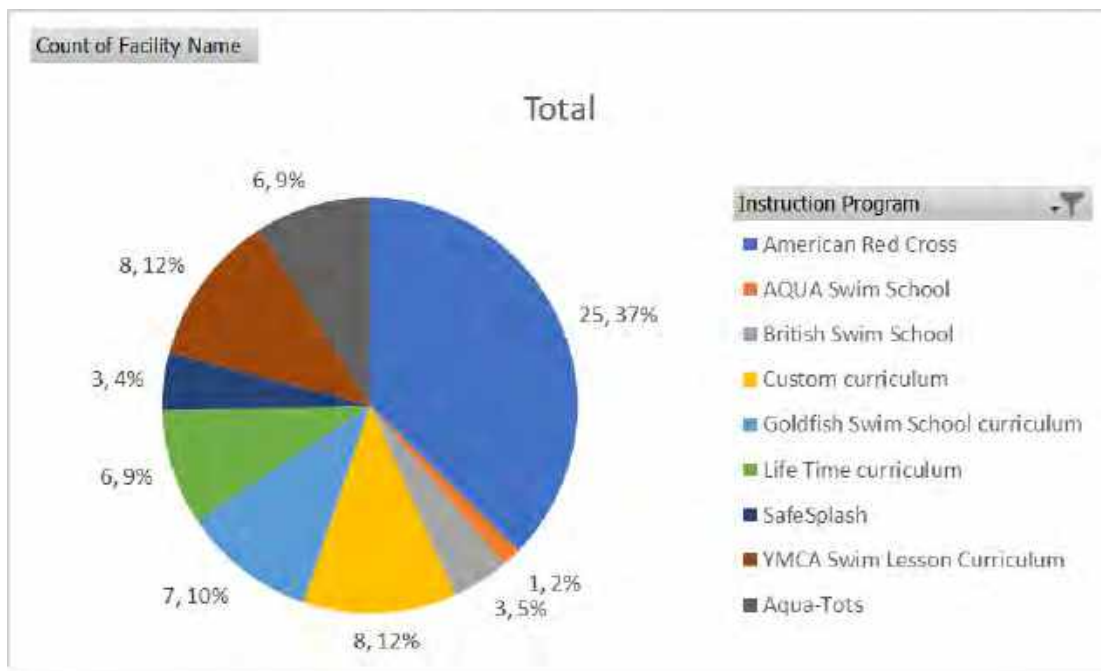
- Public Aquatic and Recreation Centers
  - City/County run Recreation Centers
  - School District run pools open to the public
- Non-Profit Facilities
  - YMCAs
  - Jewish Community Centers (JCCs)
- Private Facilities
  - Standalone swim schools
  - Country clubs
  - Private fitness centers
  - Local swim clubs.
  - Most Universities/Colleges
  - School Districts

## Southeast Michigan Swim Instruction and Water Safety Programs

There are several different swim program curriculums available in the Southeast Michigan area. Some are able to be adapted and used in any facility with permission from the certifying agency, while others are specific to the swim school or facility utilizing it. For instance, the Goldfish Swim School Curriculum is only offered at Goldfish Swim School facilities, while the American Red Cross Learn to Swim Curriculum may be taught at any facility that utilizes licensed American Red Cross instructors and sign a licensing agreement with the American Red Cross.

Of the 144 swimming facilities identified, 67 facilities with 8 unique swimming programs were categorized. All other facilities either did not offer swimming lessons, or Councilman-Hunsaker was unable to determine what swim lesson program was utilized. Eight facilities were identified that utilized their own custom curriculum.

The American Red Cross swim lesson curriculum was by far the most popular, accounting for at least 46% of the facilities identified. YMCA curriculum, custom curriculums, and Goldfish Swim School curriculum were the next most popular, respectively.



## Challenges and Barriers for Swim Instruction and Water Competence Programming

The current climate in the aquatic industry is one of understaffed facilities and, in many cases, long wait lists for swim lessons and other aquatic programming. The COVID pandemic hit the aquatic industry much like it did other industries that hire mostly part-time and seasonal employees. Anecdotally, the pandemic created a pent-up demand for swim lessons and recreation programming. With the workforce shortage the industry is feeling, this has led to canceled programs or long wait lists.

While the Southeast Michigan market has at least 144 swimming facilities ranging from large recreation centers and waterparks to individual swim schools, there appears to be a regional lack of qualified instructors and instructor trainers with the ability to train lifeguards.

It is apparent the Southeast Michigan market lacks a training “Hub”, facility, or organization that regularly trains lifeguards, swim instructors, and lifeguard instructors to service the area facilities. In speaking with area operators, they all have to either train staff in-house with the instructors they have, contract out for other trainers or hope that enough qualified lifeguards and swim instructors will answer job postings.

Several of the Southeast Michigan Swim Program goals and objectives were created to assist in improving the ability of local instructors to gain additional certifications and train other instructors or lifeguards in the area, thereby increasing the available workforce.

## Public Swimming Survey

As part of the Southeast Michigan Swim Program data gathering phase, Counsilman-Hunsaker worked with Left Brain Concepts, Inc., a Denver-area research firm, and the Huron-Clinton Metropark Authority to create and distribute a public survey specifically regarding swimming abilities, competencies, and current swimming background. The survey was distributed to residents within the 5-county area: Livingston, Macomb, Oakland, Washtenaw, and Wayne counties. The survey distribution also included the City of Detroit as a specific target area within Wayne county.

The goals of the survey were to determine the 5-county area residents':

- Background in swimming
- Among adults and children who swim:
  - Their swimming ability
  - How frequently they swim
  - Where they swim
  - The importance of swimming relative to other activities
  - Their interest in improving their swimming ability
  - The benefits they receive from swimming
- Interest among non-swimmers and their children in learning to swim
- Among non-swimmers, the benefits of swimming that might appeal to them
- Swimmers' and non-swimmers' interest in potential swimming programs
- Barriers to increasing swimming activity:
  - Limited access to swimming facilities
  - High or unacceptable fees at water venues
  - Insufficient number of instructors at water facilities
  - Limited staffing at water venues
  - Fear of being in the water
  - Fear of being on the water in a boat, canoe, or kayak
  - Feeling unwelcome at water venues
  - Unsafe conditions at water venues
- The things that would increase peoples' swimming activity
- Demographics

A total of 1,010 surveys were completed. The maximum margin of error for a sample of 1,010 is  $\pm 3.1\%$  at the 95% level of confidence. Responses to the survey were analyzed by the following variables:

- ✓ Six areas of residence – 5 counties and residents of Detroit
- ✓ Households with and without children
- ✓ Gender
- ✓ Race
- ✓ Household income
- ✓ Swimming background (1) Afraid of the water and/or concerned about drowning, (2) never swam or swam years ago, (3) people who splash around in the water, (4) swimmers
- ✓ People who do not swim in either warm or cold weather months vs. all others

### *Swimming background / Swimming ability*

The top three responses were that people swam competitively in high school, college, or beyond (38%), that people are casual, recreational swimmers (33%), and that respondents are more serious but still recreational swimmers (27%). There were many responses from casual swimmers; 17% said they splash around in the water, 11% engage in water exercise programs, and 8% said they exercise in the water for physical therapy. The survey also attracted responses from people who swam years ago but are not currently swimming (8%), area residents who are concerned about the possibility of drowning (8%), those who have never swum (3%), people who are scared to death of the water (1%) and people who once were concerned about the possibility of drowning but are no longer concerned (1%).

As was expected at the beginning of this initiative, residents of Detroit, people of color – especially people who are Black, are less proficient swimmers than people in other demographics.

### *Children living in the household*

About half (56%) of the respondents have children living with them, and the remaining 44% do not.

Children's swimming ability by age: As expected, swimming proficiency increases as children get older. Proficiency particularly increases from ages 4-5 to 6-9. Another significant increase occurs from 6-9 to 10-13. However, there is considerably less improvement from ages 10-13 to 14-17 and from 14-17 to those 18 and older.

### *Frequency of swimming*

Not surprisingly, people swim more in warm weather months than during cold weather months. For example, for those who swim 1-3 times a month, 32% swim in warm weather months, and only 15% swim in cold weather months. The differences were not as stark among people who swim one to three times a week (35% warm weather vs. 27% cold weather) and those who swim 4-7 times a week (22% warm weather vs. 15% cold weather). The percentage of people who do not swim at all is much higher in cold weather months (43%) than in warm weather months (11%).

Detroit residents, people of color – especially people who are Black, and people in lower-income households swim less than people in other demographics.

### *Places people swim*

The most frequented are lakes and ponds (70%), pools at recreation centers and health clubs (67%), and pools at hotels and condos when people travel (55%). Less used are pools at private residences (31%), pools at high schools or colleges (28%), and rivers (13%).

### *Reaction to places to change clothes*

Only 36% are satisfied with places to change clothes, places to shower (31%), and places to secure valuables (30%). Amenities people would like to see added are lockers (47%), places to change clothes (41%), and showers (39%). About a third (38%) reported they go to swimming venues in their swimming attire.

### *Importance of swimming to household members*

Swimming is the most important recreational activity for 29% of families, tied for the most important for 33%, and an occasional activity for 27% of the households. Swimming is less

important to people of color, especially people who are Black, than people in other demographics.

### *Interest in learning to swim / Improving swimming ability*

About two-thirds (69%) of the adults reported that they are very or somewhat interested in learning to swim or improving their swimming abilities. The percentage of combined very and somewhat interested increases to 77% for interest in having their children learn to swim or improve their swimming ability.

Detroit residents, people of color, especially people who are Black, are more interested in their learning to swim than people in other demographics.

### *What people enjoy about swimming / What might interest non-swimmers*

The things that people enjoy about swimming that reach 60% or higher mention that swimming is good for cardiovascular fitness (70%) and total body training (66%). Also mentioned is that swimming is a relaxing and peaceful form of exercise (66%), good for stress relief (64%), provides a pleasant way to cool down on a hot day (61%), and has less joint impact and stress (60%). Only 35% noted that water is easily accessible to them at pools, beaches, lakes, and rivers.

People who are afraid of the water or have a fear of drowning were more likely than avid swimmers to state that swimming provides a pleasant way to cool down on a hot day and that swimming is a pleasant way to spend time with family and friends.

### *Interest in swimming programs in the 5-county area*

People were given a list of 18 existing or potential programs and asked to rate their level of interest. The programs that received ratings of very interested of 25% or more were water exercise (34%), water yoga classes (33%), lap swimming (33%), child lessons (32%), water therapy & rehabilitation (28%), receiving education in water safety (27%), kayak lessons (26%), and adult swim team swimming (25%).

The demographic groups that are more interested in many of the existing or potential programs are residents of Detroit, people of color – especially people who are Black, people in lower-income households, those who are afraid of the water or have a fear of drowning, and those who do not swim or rarely swim.

### *Reaction to swimming opportunities in the area*

The top three responses were that hours at swimming venues do not work into people's schedules (34%), water venues are too far from their homes for them to participate (28%), and fees at water venues are higher than people want to pay (27%). These sub-questions were deliberately posed with a negative slant. Thus, it should be interpreted that hours at swimming venues do work into people's schedules (66%), water venues are not too far from people's homes for them to participate (72%), and fees at water venues are not higher than people want to pay (73%).

### *Feeling welcome / Safety / Comfort at swimming venues*

People were given seven questions and asked to respond on a scale of strongly agree, somewhat agree, somewhat disagree, and strongly disagree. When combining somewhat disagree and strongly disagree responses, negative ratings ranged from 8% to 15% for five of

the seven issues queried. Respondents disagreed the most that swimmers are respectful of others at swim venues (23%) and that people swim safely for themselves (24%).

### *Increasing participation in swimming*

People were asked on an open-ended basis the things that would increase their participation in swimming. Twenty-six things were mentioned by at least 1% of respondents. The top six were closer water venues (20%), offering adult swim lessons (13%), more lap swim times (11%), more indoor swimming pools or the ability to use pools at high schools (10%), expanding hours at swimming facilities (9%), and lower fees (9%).

## Huron Clinton Metroparks Aquatic Facility Review

In June of 2021 Councilman-Hunsaker provided a review of three Metropark Aquatic facilities, Lake St. Clair Metropark Pool, Lake Erie Metropark Great Wave Pool, and Willow Metropark Pool. The purpose of the review was to assess each facility for its functionality within the four main aquatic user groups and provide recommendations to address functional obsolescence and provide improvements based on the [Programming Action Plan](#).

### *Aquatic User Groups*

The following describes national trends for four aquatic user groups: Recreation, Competition, Instruction and Wellness and Therapy. The descriptions make evident the significantly different requirements for each aquatic user group when planning and designing an aquatic facility.



### *Huron-Clinton Metropolitan Authority Facility Review*

Overall, the facilities within the Metroparks charge are maintained very well. Lake Erie Metropark Great Wave Pool and Lake St. Clair Metropark pool are both decades-old facilities showing their age. However, both facilities appear to have been well maintained to continue to operate in some cases with the original equipment. The Willow Metropark Pool is only about 12 years old and is maintained very well.

The following chart describes the general features available at each aquatic facility.



Amenity is available at the facility

Amenity is available to varying degrees


Amenity was originally designed and may be available again with renovations



Features	Lap Lanes	Shallow Water	Diving Area	Bench Seating	Zero Depth	Slide	Play Features	Spray Features
Lake St. Clair Metropark Pool	?	✓	✓			✓	✓	
Lake Erie Metropark Great Wave Pool	?	✓			✓			✓
Willow Metropark Pool	✓	✓		✓	✓	✓	✓	✓


The following recommendations were proposed for the three aquatic facilities in physical and functional capacities.

### Physical Recommendations


		
Project Name		
*PRELIMINARY Opinion of Probable Construction Cost		
9/10/2021		
ITEM	COST	
<b>Lake Erie Park Pool</b>		
UV Disinfection System	\$102,286	
Wave Generation Equipment	\$350,000	
Surge Tank Float Valves	\$10,063	
<i>Pool Subtotal</i>	\$462,348	
<b>Lake St. Clair</b>		
UV Disinfection System	\$119,762	
Slide Refinish/Maintenance	\$40,000	
Pool Resurface	\$780,000	
Main Drain Replacement and Pool Shallowing	\$180,000	
New Pool Lift	\$22,500	
New Tile Markers	\$170	per tile
Lifeguard Chair Seat Replacements	\$350	
Pipe Hanger Replacement	\$75	per hanger
Slide Flow Meters	\$3,000	
Slide entrance chain and sign	\$100	
100' Safety Line	\$600	
<i>Pool Subtotal</i>	\$1,146,557	
<b>Willow Metropark Pool</b>		
UV Disinfection System	\$102,286	
Expansion Joint Repair		
Structural Engineer Assessment	\$6,000	
Repair and reseal	\$600	
<i>Pool Subtotal</i>	\$108,885.90	
<b>TOTAL AQUATICS COST ESTIMATE (inflation &amp; general contractor mark-up not included)</b>		
<b>\$1,717,790.92</b>		
Contingency	20%	\$2,061,349.10
<b>TOTAL AQUATICS COST ESTIMATE</b>		<b>\$2,062,000.00</b>

The Consultant has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable cost are representative only of the Consultant's judgment as a design professional familiar with the construction industry. The Consultant cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinion of probable costs.

## Functional Recommendations

 <b>Councilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority	
*PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
ITEM	COST
Lake Erie Park Pool	
Competition Lanes (8 lanes)	\$72,000.00
<i>Pool Subtotal</i>	\$72,000
Lake St. Clair	
Competition Lanes (5 lanes)	\$86,000
ADA Accessible Stairs	\$8,000
<i>Pool Subtotal</i>	\$94,000
<b>TOTAL AQUATICS COST ESTIMATE (Inflation &amp; general contractor mark-up not included)</b>	
	<b>\$166,000.00</b>
Contingency	20%
	<b>\$199,200.00</b>
<b>TOTAL AQUATICS COST ESTIMATE</b>	<b>\$200,000.00</b>

The Consultant has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable cost are representative only of the Consultant's judgment as a design professional familiar with the construction industry. The Consultant cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinion of probable costs.

 <b>Councilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority	
*PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
ITEM	COST
Lake Erie Park Pool	
Competition Lanes (8 lanes)	\$72,000.00
<i>Pool Subtotal</i>	\$72,000
Lake St. Clair	
Competition Lanes (8 lanes)	\$136,000
ADA Accessible Stairs	\$8,000
<i>Pool Subtotal</i>	\$144,000
<b>TOTAL AQUATICS COST ESTIMATE (Inflation &amp; general contractor mark-up not included)</b>	
	<b>\$216,000.00</b>
Contingency	20%
	<b>\$259,200.00</b>
<b>TOTAL AQUATICS COST ESTIMATE</b>	<b>\$260,000.00</b>

The Consultant has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable cost are representative only of the Consultant's judgment as a design professional familiar with the construction industry. The Consultant cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinion of probable costs.

## Future Renovation Considerations

When repairing, renovating, or replacing any Metropark aquatic facility, it is recommended that an extensive feasibility process be performed prior to engaging in the design of a facility. The feasibility process should perform the following tasks:

- **Needs analysis** — a workshop protocol with community representatives to develop a list of priorities for the facility's uses and objectives
- **Analysis of existing providers** — research and analysis to determine the existing level of service at area facilities and the perceived need for the proposed facility
- **Market analysis** — an analysis of age groups, population density, incomes, and user groups to project attendance, fee schedules, and appropriate programming
- **Facility concepts** — conceptual drawings and descriptions indicating a solution to accommodate the desired programming elements
- **Construction cost estimates** — itemized, site-specific cost projections for the "bricks and mortar" of structures and mechanical support equipment
- **Project cost estimates** — total costs including construction, site development, and contingencies
- **Revenue and expense projections** — calculations based on the gathered data and analytical research; opinions of financial performance (e.g., positive, or negative cash flow)
- **Sources of funding** — a discussion of possible options to fund the facility
- **Design program analysis** — based on the conceptual designs, a more detailed assessment of the construction materials, techniques, and specific equipment recommended for the proposed facility.

## Aquatic Feasibility Study Approach



### *Needs Assessment*

- Evaluate area providers
- Research area demographics
- Identify user groups
- Identify potential community partners
- Site analysis



### *Facility Program & Space Requirements*

- Develop schematic design options for programming
- Develop project cost estimates
- Confirm potential partnerships



### *Operations & Business Plan*

- Opinion of revenue
- Opinion of operating expenses
- Determine cash flow

## Swimming Program Goals and Action Plan

Once the information was gathered that makes up the “State of Swimming” report, Councilman-Hunsaker and the Metroparks shared the information with the Steering Committee to gather their thoughts and input and to create a list of goals and objectives related to the information gathered and the overall goal of improving swimming ability and water competence withing the Southeast Michigan Region.

Councilman-Hunsaker offered suggestions regarding goals and objectives and first presented them to the committee over two meetings on November 17 and 18, 2021. At the meeting, Councilman-Hunsaker presented the “State of Swimming” report and the proposed goals and objectives to gather feedback from the group. Along with input from the committee, the following goal categories were created:

- Swimming Ability
- Water Competence
- Participation
- Program Focus Areas
- Staffing
- Raise Awareness of Inequities
- Current Facility Improvements

Along with each goal category, the committee proposed several goals. Each category and goal are expanded upon in the next sections. The chart below shows all 7 categories and the goals associated.

HCMA Swim Program Goals						
Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
90% of children can stop/exit the water on their own by age 9	Water safety taught in most schools	Increase access to scholarship programs	Increase vertical swim programs	Develop Metroparks in training hub in SE Michigan <ul style="list-style-type: none"> <li>○ Look for partners in all 5 counties</li> </ul>	Develop a SE Michigan Aquatics Board	Lake St. Clair improvements
Add open water swimming to competency list – more than 70% swim in lakes/ponds	Develop relationships with schools	Provide no/low-cost swim lessons		Get more area entities to submit for American Red Cross IT Academics	HCMA Marketing Department – Raising Awareness campaign	HCMA Aquatics Master Plan
		Acquire corporate sponsorships to fund program		Investigate transportation program to parks for training or staffing		Improvements for area facilities
		Investigate transportation programs (low priority)				
		Expand the “Swim in the D” program to more than 2 days				

Once the goals and objectives were agreed upon by the Steering Committee, a list of action plan items related to each goal was created. The action plan items long and short term steps the Metroparks and partners can take to achieve the goals outlined in the program. Additionally,

Councilman-Hunsaker has included special action item considerations for some goals that may help to enhance the action steps and reach each goal.

HCMA Swim Program Goals						
Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
<b>Action Plan</b>						
Secure funding to expand the "Swim in the D" program	Develop a list of schools/districts that are interested in swim instruction or swim safety curriculums	Secure funding to expand the "Swim in the D" program	Train instructors in other fitness modalities	Register HCMA with the American Red Cross as an LTP <ul style="list-style-type: none"> <li>Swim Instruction</li> <li>Lifeguard Training</li> </ul>	Develop marketing collateral for swimming campaign	Lake St. Clair <ul style="list-style-type: none"> <li>Main drain renovations</li> <li>New pool lift</li> <li>Ramp/zero depth entry</li> <li>Bench seating</li> <li>UV disinfection</li> <li>Lap lanes</li> </ul>
Expand "Swim in the D" program to continue year round	Identify areas in school curriculums that can support swim safety training	Expand "Swim in the D" program to continue year round	Identify a spectrum of programs that meet facility specs	Find year-round facilities to partner with an offer training <ul style="list-style-type: none"> <li>Could be part of the "Swim in the D" Program</li> </ul>	Create collateral that can be utilized by all swim facilities in the region	Jake Eric <ul style="list-style-type: none"> <li>UV disinfection</li> </ul>
Expand the program into the community: <ul style="list-style-type: none"> <li>Apartments</li> <li>Water fronts</li> <li>Metropark Pools</li> <li>Partner facilities</li> </ul>	Identify after school programs interested in participating	Identify after school programs interested in participating	Utilize outside vendors/contractors for some programs	Create a "Junior Guard" program	Utilize stats from annual/semi-annual swim program survey	Willow Metropark Pool <ul style="list-style-type: none"> <li>UV disinfection</li> </ul>
Create a process for annual/semi-annual swim program survey to track swim ability changes	Provide in-class training collateral	<b>Considerations:</b> Work with a sponsorship consultant to assist in acquiring corporate sponsorships	Create a program plan for new programs and profitability goals	Create an in-house training program within HCMA <ul style="list-style-type: none"> <li>Lifeguarding</li> <li>Swim Instruction</li> </ul>	Create news media package	Aquatics Master Plan: <ul style="list-style-type: none"> <li>Identify funding</li> <li>Issue RFP</li> <li>Create plan</li> </ul>
<b>Considerations:</b> Register HCMA with the American Red Cross swim instruction program	Provide pool session time			Work with American Red Cross/HCMA/partners to host IT academy trainings	Advertise in schools, radio, local news stations to coincide with "Swim in the D" program sign-ups	Area facilities: <ul style="list-style-type: none"> <li>Renovations or new facilities should start with feasibility/programming process</li> <li>Amenities should reflect goals of the facility/users</li> <li>Emphasize amenities that meet multiple-user groups</li> </ul>
Submit course records for each swim session taught				<b>Considerations:</b> Create marketing plan for social media marketing <ul style="list-style-type: none"> <li>TikTok <ul style="list-style-type: none"> <li>@Fbh2e</li> <li>@Roundrocklifeguards</li> <li>@Newbraunfelsaquatics</li> </ul> </li> </ul>	Expand the "brand" of "Swim in the D" to other area providers	<b>Considerations:</b> Consider creating a funding/grant program through the SE Michigan Aquatics Board
					Create a process for partnerships	

## Introduction

In 2021 Councilman-Hunsaker was retained by the Huron-Clinton Metropolitan Authority (HCMA, aka Metroparks) to undertake a Swimming Program Development Plan. The goal of the Swimming Program Development Plan is to improve swimming ability and water competence within the Southeast Michigan Region.

The Huron-Clinton Metropolitan Authority manages the Huron-Clinton Metroparks consisting of 13 parks with over 25,000 acres of land throughout Southeast Michigan. These parks include:

1. Delhi Metroparks
2. Dexter-Huron Metropark
3. Hudson Mills Metropark
4. Huron Meadows Metropark
5. Indian Springs Metropark
6. Kensington Metropark
7. Lake Erie Metropark
8. Lake St. Clair Metropark
9. Lower Huron Metropark
10. Oakwoods Metropark
11. Stony Creek Metropark
12. Willow Metropark
13. Wolcott Mill Metropark

The Metroparks are focused on improving the quality of life around the Southeast Michigan region. Through this focus, has become alarmed by the systemic disparities in swimming ability and water competency depicted in the statistics below:

- Drowning is among the top 3 causes of unintentional death for persons 29 years old and younger (Miller, 2021)
- Native American Aged 29 years and younger were twice as likely as whites to die from drowning, and people who are black are 1.4 times as likely. (Julie Gilchrist & Erin M. Parker, 2014)
- In swimming pools, Black children aged 5 – 19 are 5.5 times as likely as white children in the same age group to die from drowning; among ages 11-12, this rate increases to 10 times as likely. (Julie Gilchrist & Erin M. Parker, 2014)
- While drowning rates in general have been trending downward, they have risen in one age group: those aged 45 to 84. (Griffiths, Griffiths, & Sempstrott, 2018)
- 79% of children in households with annual incomes less than \$50,000 do not know how to swim and learning to swim through formal lessons may reduce the likelihood of drowning by 88%. (USA Swimming, 2022)

The Swimming Program plan is focused on the public, programs, and facilities within the Metroparks' five-county service area, including Livingston, Macomb, Oakland, Washtenaw, and Wayne counties (Southeast Michigan Region). The Swimming Program Plan was developed in coordination with partner recreation agencies and is designed to be implemented through and alongside partner agencies throughout the Southeast Michigan Region.

The Metroparks currently partners with the City of Detroit's Parks and Recreation Department and the Detroit Riverfront Conservancy to offer the City of Detroit Parks and Recreation Department's Swim in the D Program. In 2022, the program will offer free swim lessons to more than 1,000 children in the Southeast Michigan area across four different host sites. Throughout the Southeast Michigan Swimming Program Development Plan report, Councilman-Hunsaker makes several recommendations for enhancements to the Swim in the D Program. The Swim in



the D Program is a City of Detroit Program and therefore any changes or enhancements to the program would need to be approved by the City of Detroit.

## Methodology

Councilman-Hunsaker used several methods to obtain information to investigate public and non-profit facilities in the five-county area, physical structures, and to gather information necessary for goals and recommendations for the Swim Program Development Plan. Councilman-Hunsaker used the following methods:

1. Inventory and analysis of SE Michigan public, private, and non-profit aquatic facilities
2. Administration and analysis of the 5 – County Recreation and Swimming Survey
3. Swimming Program Development Plan Steering Committee Meetings
4. Evaluation of current Metropark pool sites:
  - a. Lake Erie Metropark Great Wave Pool
  - b. Lake St. Clair Metropark Pool
  - c. Willow Metropark Pool

## Steering Committee

Huron-Clinton Metropolitan Authority selected participants for the steering committee from Metroparks staff and partner agencies like the Detroit Riverfront Conservancy and the City of Detroit and citizen leaders that have a vested interest in improving swimming in the Southeast Michigan Region and the City of Detroit. The steering committee members included:

- Nina Kelly (Huron-Clinton Metropolitan Authority)
- Leah Blizinski (Huron-Clinton Metropolitan Authority)
- Janet Van De Winkle (Huron-Clinton Metropolitan Authority)
- Katie Kowalski (Huron-Clinton Metropolitan Authority)
- Jay Bibby (Huron-Clinton Metropolitan Authority)
- Jeff Linn (Lake Erie Metropark)
- Holly Clegg (Lower Huron/Willow Metroparks)
- Jeff Schuman (Lower Huron/Willow Metroparks)
- Rachel Frierson (Detroit Riverfront Conservancy)
- Erin Casey (City of Detroit Parks and Recreation)
- Lynda Jeffries (The Leadership Group, LLC; Considine Family Life Center)

The steering committee was charged with three tasks:

1. Assist in developing goals and objectives
2. Identify areas for partnership
3. Identify ways partner agencies may participate in the action plan steps identified

The steering committee met four times between May 2021 and March of 2022 to review the information collected at that point, provide their own insights into the project, and provide input related to the three steering committee tasks.

- May 26, 2021
- November 17 and 18, 2021

- December 15 and 16, 2021
- March 15 and 16, 2022

Presentations shared with the committee are included in [Appendix D](#).

## Existing Conditions – “State of Swimming” Report

The “State of Swimming” Report is a comprehensive benchmark of the state of swimming in the Southeast Michigan area. The report includes an inventory and comparison of public, private, and non-profit facilities in the 5-county area, current challenges for swim instruction and water competence programming, and results of the representative survey conducted across all five counties of Southeast Michigan. The state of swimming report is a collection of data that can and should be updated regularly as the Southeast Michigan Swimming Program progresses. As goals are achieved, and new goals are created, the previous state of swimming reports provides historical documentation of the progress made through the Southeast Michigan Swimming Program.

## Providers within the Huron Clinton Metroparks 5-County Area

The recreation industry is a competitive market vying for disposable income driven by population trends, income levels, demographic profiles, and favorable locations. Large aquatic centers and destination facilities offer a grand scale of cutting-edge amenities, deliver a unique customer experience, and draw from a large radius. Small to medium aquatic centers compete by offering family amenities in a cozy atmosphere, thus delivering a friendly customer experience to the local market.

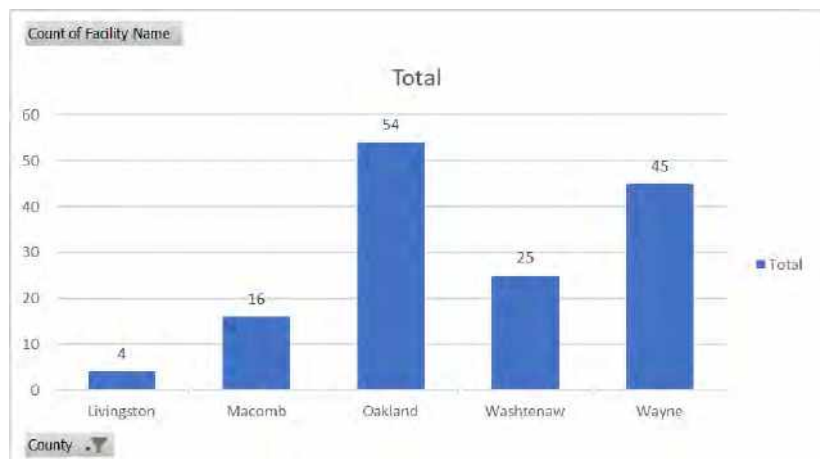
As part of the “State of Swimming” Report, Counsilman-Hunsaker surveyed and collected data on all public, non-profit, and private swimming facilities within the 5-county southeast Michigan region. The facility list is intended to be an exhaustive list of all aquatic facilities in the region, however, there may be some facilities missing from the report. Any facilities that are missing from the report likely meet one or more of the following characteristics:

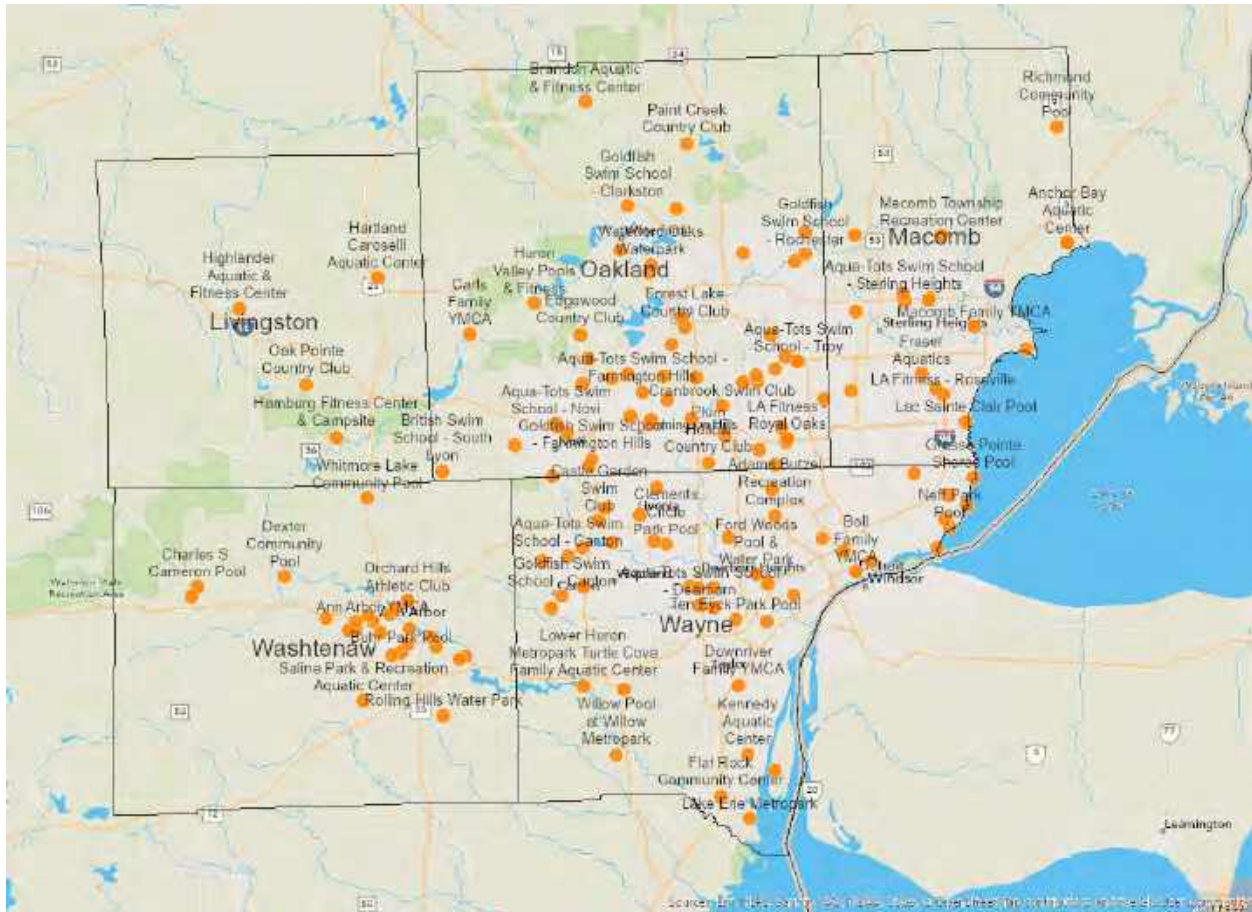
1. The pool cannot be identified through “Google” or common search engines.
2. The pool does not have a website, and markets through word of mouth or non-digital marketing.
3. Facility ownership was ambiguous, and the facility owners do not conduct operations or programming.

Counsilman-Hunsaker collected facility data through facility websites and phone calls to the facility front desks or general operation numbers.

### Facility Inventory

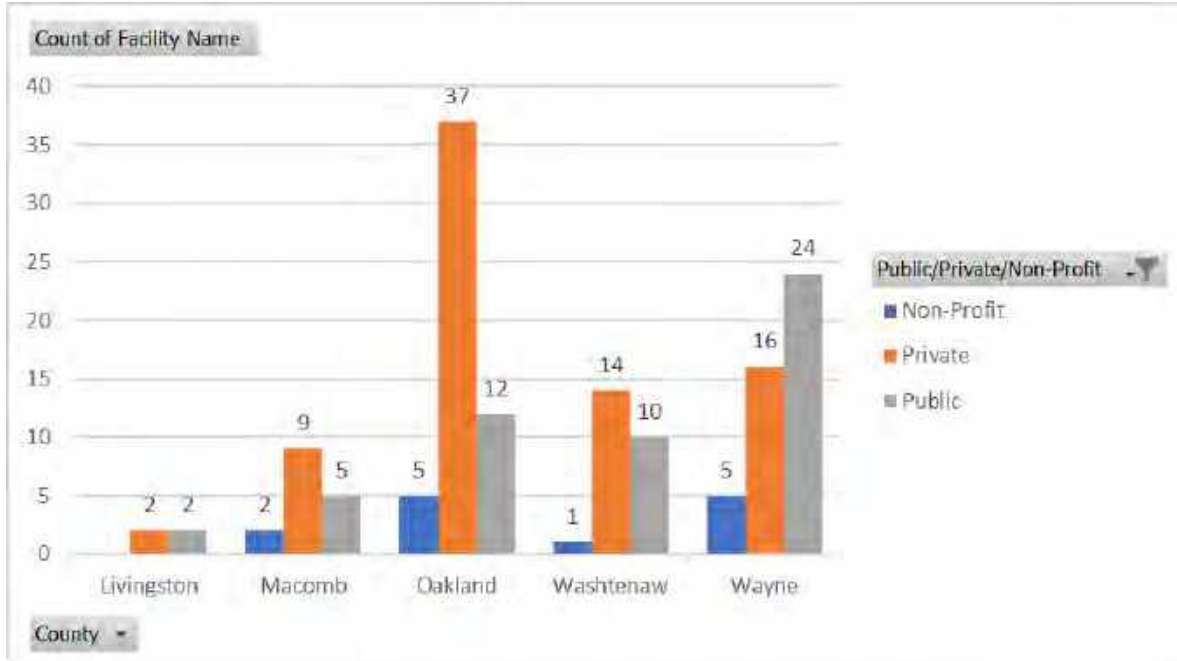
Counsilman-Hunsaker identified 144 aquatic facilities within the five-county area in the facility inventory.





The facilities consist of:

- Public Aquatic and Recreation Centers
  - City/County run Recreation Centers
  - School District run pools open to the public
- Non-Profit Facilities
  - YMCAs
  - Jewish Community Centers (JCCs)
- Private Facilities
  - Standalone swim schools
  - Country clubs
  - Private fitness centers
  - Local swim clubs.
  - Most Universities/Colleges
  - School Districts



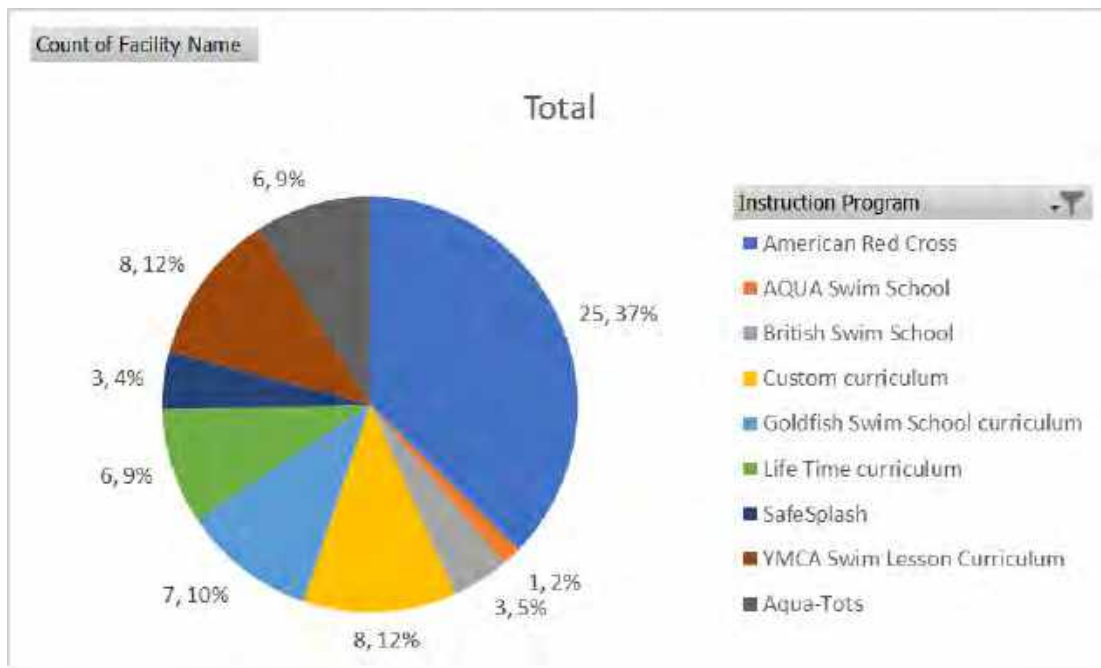
A full list of the aquatic facilities inventoried can be found in [Appendix C](#).

## Southeast Michigan Swim Instruction and Water Safety Programs

There are several different swim program curriculums available in the Southeast Michigan area. Some are able to be adapted and used in any facility with permission from the certifying agency, while others are specific to the swim school or facility utilizing it. For instance, the Goldfish Swim School Curriculum is only offered at Goldfish Swim School facilities, while the American Red Cross Learn to Swim Curriculum may be taught at any facility that utilizes licensed American Red Cross instructors and sign a licensing agreement with the American Red Cross.

Of the 144 swimming facilities identified, 67 facilities with 8 unique swimming programs were categorized. All other facilities either did not offer swimming lessons, or Councilman-Hunsaker was unable to determine what swim lesson program was utilized. Eight facilities were identified that utilized their own custom curriculum.

The American Red Cross swim lesson curriculum was by far the most popular, accounting for at least 46% of the facilities identified. YMCA curriculum, custom curriculums, and Goldfish Swim School curriculum were the next most popular, respectively.



### Swim Program Descriptions

Most swim school curriculums are similar with some differences related to ratios, age cutoffs, and how each class is named and described. By and large, the same swim skills are taught in each curriculum.

- Ratios – the number of students per instructor. This can vary depending on the swim school, swim lesson level, and whether the lesson is a group, private or semi-private lesson.
- Levels – the skill level the student is currently attending. Each level corresponds to a set of skills taught at that level.



The following information regarding each swim lesson curriculum was taken directly from each organization's website and marketing or instruction collateral. Some paraphrasing was necessary for brevity and clarity.

	American Red Cross	Aqua-Tots	AQUA	British Swim School	Goldfish	Lifetime	SafeSplash	YMCA
Ages	6 months +	4 months +	2 months +	3 months +	4 months – 12 years	4 month +	6 months +	6 months +
Levels	6 Levels Parent and child Specialty courses	2 Parent and Tot 6 Levels	8 Levels Parent and tot Specialty courses	3 Parent and Tot 6 Levels Specialty	4 Parent and Tot 8 Levels Specialty	2 Parent and Tot Ripple – 4 Wave – 5 Surf - 5	2 Parent and Tot 2 Toddler 8 Levels Specialty	3 Parent and Tot 6 Levels
Ratios	1:6 and 1:10 Many facilities operate at lower ratios	1:4 All levels	1:3 – L1-L3 1:4 – L4-L8 1:8 - PT	1:4 – PT 1:4,6 – All others	1:6,3 – PT 1:4 – All others	1:8,3 – PT 1:3,4 – Ripple 1:3-6 – Wave 1:3-6 – Surf	1:6 – PT 1:3 – Toddler 1:4 – All others	1:12 – PT 1:6,8 – All others

### American Red Cross

The American Red Cross swim program is the most recognized and utilized swim program in the United States. Students are encouraged to progress at their own pace to master the skills in one level before moving on to the next. The swim program may be taught by any Authorized Provider or Licensed Training Provider.

### [American Red Cross Swimming Lessons for Kids Webpage](#)

#### Ages

Swim lessons are available for ages 6 months and higher.

#### Levels

There are several swim programs within the American Red Cross, but generally, children's swim lessons are under the following 6 levels:

- Level 1: Introduction to Water Skills: Students will learn how to feel comfortable in the water and safely enjoy it.
- Level 2: Fundamentals of Aquatic Skills: Students learn basic swimming skills.
- Level 3: Stroke Development: Additional guided practice helps students improve their skills.
- Level 4: Stroke Improvement: Students gain confidence during swim lessons, improve their stroke and gain additional aquatic skills.
- Level 5: Stroke Refinement: Guidance allows students to refine their strokes and become more efficient swimmers.
- Level 6: Swimming and Skill Proficiency: Students learn to swim with ease and efficiency and gain the ability to swim smoothly over greater distances. Swimmers also have the option to participate in more advanced courses.

The American Red Cross also offers private lessons, water safety presentations, and additional safety courses.

#### Instructor Ratios

- Parent and Child Aquatics – 1 instructor to 10 students
- Pre-school aquatics – 1 instructor to 6 students

- Learn to Swim levels 1 to 3 – 1 instructor to 6 students
- Learn to Swim levels 4 to 6 – 1 instructor to 10 students

### *Aqua-Tots*

Aqua-Tots was founded 29 years ago at a single pool in Tempe, Arizona. The Aqua-Tots Swim Journey is comprised of eight levels of comprehensive swim instruction curriculum that are tried, true and trusted all over the world to teach children four months to twelve years old how to swim. Each of the swimming lesson levels is designed to build upon the next, taking the child on a journey toward becoming a safe and confident swimmer for life.

### [Aqua-Tots Webpage](#)

#### Ages

Swim lessons are available starting at 4 months and higher.

#### Levels

- Level 1 – Tadpoles - This Parent & Tot class is designed as a child's first introduction to swim lessons and gives a caregiver the opportunity to bond with their little one in the pool and help them adapt to the water.
- Level 2 – Minnows - This Parent & Tot class is designed to help caregivers train their toddlers to explore and enjoy water while establishing safe boundaries.
- Level 3 – Leapfrogs - This is the first class for children to begin swimming apart from their caregivers, and it's designed for children to become comfortable and confident in the water.
- Level 4 – Seahorses - In this class, children learn how to use controlled movements and breath control as they coordinate their swim strokes.
- Level 5 – Starfish - In this class, children develop the skills they need to be considered independent swimmers.
- Level 6 – Seals - This class is where children develop the proper techniques needed to swim with ease and efficiency so they can safely enjoy swimming for a lifetime.
- Level 7 – Sharks - The Sharks class is designed to develop efficient swimmers by fine-tuning their swim strokes and focusing on technique.
- Level 8 – Stingrays - The Stingrays class helps children swim all the strokes taught in the Aqua-Tots swim program with proficiency and ease while adding a flip turn or open wall turn.

Aqua-Tots also offers special needs aquatic programs, fast track lessons, swim club and swim team.

#### Instructor Ratios

- Level 1 – Tadpoles - 1 instructor to 4 students
- Level 2 – Minnows - 1 instructor to 4 students
- Level 3 – Leapfrogs - 1 instructor to 4 students
- Level 4 – Seahorses - 1 instructor to 4 students
- Level 5 – Starfish - 1 instructor to 4 students
- Level 6 – Seals - 1 instructor to 4 students
- Level 7 – Sharks - 1 instructor to 4 students
- Level 8 – Stingrays - 1 instructor to 4 students

## AQUA

AQUA has 2 locations in Jacksonville, Florida, and 5 in Michigan. AQUA has programs for both swim lessons and swim teams.

### [AQUA Swim School Webpage](#)

#### Ages

Swim lessons are available for ages 2 months and higher.

#### Levels

A breakdown of levels was not available online. However, the program has 8 swimming levels, from beginner to advanced and Parent and Tot swimming.

AQUA also offers private lessons and a year-round competitive swim team.

#### Instructor Ratios

- Levels 1 to 3 – 1 instructor to 3 students
- Levels 4 to 8 – 1 instructor to 4 students
- Parent and Tot – 1 instructor to 8 students

## *British Swim School*

British Swim School was founded in 1981 by Rita Goldberg. British Swim Schools offer swimming lessons for babies, children, and adults, focusing first on water survival skills needed to survive a water accident before moving on to stroke development and more advanced skills.

### [British Swim Schools Webpage](#)

#### Ages

Swim lessons are available for ages 3 months and higher.

#### Levels

- Tadpole, Water Acclimation: 3 Months to 36 Months with Parent. This water acclimation class for infants and toddlers introduces them to the water for the first time, reducing their fear and the potential of tears.
- Swimboree, Beginner Water Survival: 3 Months to 36 Months with Parent. Building on our Tadpole skills from our infant and toddler swim classes, your little ones begin their water survival skills through a structured program of songs, games, and fun.
- Seahorse, Advanced Water Survival: 18 Months to 36 Months. The swim instructor works one-on-one with each child following the same structure and emphasis on water survival as the Swimboree kids and baby swimming class.
- Starfish, Water Acclimation: 3+ Years. Starfish is a swimming class for kids that's geared towards gentle water exploration and developing the child's awareness of the aquatic environment while introducing the water survival exercises used in later swim lessons.
- Minnow, Beginner Water Survival: 3+ Years. Kids participate in this small group swim class that concentrates on fun, safety, and independence in the water.
- Turtle, Advanced Water Survival: 3+ Years. In this small group kids swimming class, children are introduced to propulsion skills for water survival. Learning beginner strokes on their backs and fronts, they will be prepared for our more advanced stroke levels.
- Turtle 2, Beginner Stroke Skills: 3+ Years. Swimmers focus on the correct arm, leg, and breathing coordination for three strokes: freestyle, backstroke, and breaststroke.

Students also get an introduction to butterfly. Students are constantly moving in this swimming class for kids, swimming in groups of twos and threes.

- Shark 1, Advanced Stroke Skills: 3+ Years. These advanced swimming lessons for kids allow swimmers to perfect their techniques in four strokes: freestyle, backstroke, breaststroke, and butterfly. Children are constantly moving in this class, swimming in groups of twos and threes.
- Shark 2, Pre-Team Swimmers: 3+ Years. In Shark 2 swimming class, students are prepared for future swim team participation with attention on drills, starts and turns, individual medleys, and increasing speed and stamina in the water.
- Barracudas, Coached by experienced instructors, students improve their individual swimming technique. Swimming regularly to further increase distance, stamina and speed, this fun league develops healthy competition and team-building. Available at select locations.
- Dolphin 1, Water Acclimation: Special Ability Students. Swimming lessons are modified from our core program on a case-by-case basis to support children with special abilities. Bottom line: we focus on what they can do instead of what they cannot. The swim instructor will work one-on-one with each student to acclimate the student to the water with sensory play activities while working on an introduction to skills that will be used in the next level(s). While the student is in the water, parents are encouraged to be on the deck and participating if that is what is best for the swimmer.
- Dolphin 2, Water Survival: Special Ability Students. Personalized attention focused on assimilating students with special abilities into our core curriculum with a focus on survival based skills; back floating and safe submersions. Parents may still be involved at this point, but we are looking to build independence from the parent, moving to inclusion on a case-by-case basis. The goal when this level is completed is to have the child enter at our Minnow level.

#### Instructor Ratios

- Tadpole- 1 instructor to 4 students
- Swimboree - 1 instructor to 4 students
- Seahorse - 1 instructor to 4 students
- Starfish - 1 instructor to 4 students
- Minnow - 1 instructor to 4 students
- Turtle - 1 instructor to 4 students
- Turtle 2 - 1 instructor to 6 students
- Shark 1 - 1 instructor to 6 students
- Shark 2 - 1 instructor to 6 students
- Barracudas – ratios not available.
- Dolphin 1 – 1 instructor to 1 student
- Dolphin 2 - 1 instructor to 1 or 2 students

#### *Goldfish Swim School*

Goldfish Swim School has more than 90 locations in 35 states including Ontario. Goldfish Swim School was founded in 2006 in Birmingham, Michigan by Chris and Jenny McCuiston. Goldfish uses a proprietary The Science of SwimPlay® Curriculum focused on teaching swim and safety skills while building character through guided play.

## [Goldfish Swim Schools Webpage](#)

### Ages

Swim lessons are available for children 4 months – 12 years old.

### Levels

- Mini (Baby): 4 – 35 Months. It is never too early to introduce your child to the water! Our baby swimming lessons are a great way for parents to bond with their children while teaching them all about water safety. Not only will our 30-minute swimming classes provide children with life-saving skills, but they will also help improve coordination and balance and build stronger muscles. We offer four different children's swimming class levels to fit your child's age and experience level. (4 levels within Mini)
- Junior (Beginner to Intermediate): 3 – 4 Years. Some parents like to wait until their children are a bit older to introduce them to the water. No experience is required for our Junior Swim swimming classes for children, yet if your child has a head start on learning to swim, we can place them in a more advanced level that will help further improve the skills they already have. (3 levels within Junior)
- Glider (Beginner to Intermediate): 4 – 12 Years. Whether your child has no experience or is capable of swimming solo without assistance, we offer swim lessons that will fit their needs and comfort level. (3 levels within Glider)
- Pro (Intermediate to Advanced): 4 – 12 Years. Like our other classes, our Pro kids swimming lessons are broken down into two levels based on the extent of experience the child has. (2 levels with Pro)
- Swim Force (Swim Team): 5 – 12 Years. Once your child has mastered our pro swim levels, they will have the exciting opportunity to join our Goldfish Swim Force swim team! This is a fun, friendly team environment where students continue to work on their swim skills, while building character and confidence along the way.

Goldfish Swim School also offers family swim times, parties, Jump Start clinics and W.A.T.E.R. Safety Presentations.

### Instructor Ratios

- Mini (Baby) – 1 instructor to 6 students (M1 and M2)
- Mini (Baby) – 1 instructor to 3 students (M3 and M4)
- Junior (Beginner to Intermediate – 1 instructor to 4 students
- Glider (Beginner to Intermediate – 1 instructor to 4 students
- Pro (Intermediate to Advanced – 1 instructor to 4 students
- Swim Force (Swim Team – 1 instructor to 7 students

### Lifetime

Lifetime is a national chain of fitness facilities with 161 locations nationwide. Lifetime offers swim lessons utilizing a proprietary swim lesson curriculum.

## [Lifetime Swim Lessons Webpage](#)

### Ages

Swim lessons are available from 4 months and higher.

### Levels

- Splash: 4 months – 2 years

- Intro to Splash - This class is a fun-filled parent participation course. Perfect for our youngest swimmers. Through songs and games, our ultimate goal is to help your baby learn to love the water and feel comfortable.
- Splash 101 - Parents will learn to help their children adjust to the water and work on basic swimming skills, including: Floating, Kicking, Swimming with assistance
- Ripple: 3 – 5 years
  - Ripple 101 - Designed for beginning swimmers who may have limited experience or comfort in the water. Children who are not comfortable jumping in and reaching to the side independently should start in this class adjusting to the water and exploring basic swim skills including: Floating, Kicking, Swimming with assistance.
  - Ripple 201 - Kids who completed a 101 level class or are comfortable jumping in and reaching to the side independently will thrive in this class. Skills learned: Independent kicking, Alternating arm movements, Back paddling, Floating on front and back without assistance.
  - Ripple 301 - Kids who completed a 201 level class or can paddle short distances independently on both their front and back. Children begin swimming longer distances and will work on the following skills: Swimming on front with log rolls, Backstroke, Breaststroke arms, Dolphin kicks.
  - Ripple 401 - Kids who completed a 301 level class or can swim on their front with a side-to-side roll, do the backstroke, breaststroke arms and dolphin kicks. Skills learned: Freestyle with rotary breathing, Backstroke, Breaststroke, Butterfly arms, Treading water.
- Wave: 6- 8 years
  - Wave 201 - Kids who completed a 101 level class or are comfortable jumping in and reaching to the side independently. Skills learned: Independent kicking, Alternating arm movements, Back paddling, Floating on front and back without assistance.
  - Wave 301 - Kids who completed a 201 level class or can paddle short distances independently on both their front and back. Children begin swimming longer distances and will work on the following skills: Swimming on front with log rolls, Backstroke, Breaststroke arms, Dolphin kicks
  - Wave 401 - Kids who completed a 301 level class or can swim on their front with a side-to-side roll, do the backstroke, breaststroke arms and dolphin kick. Skills learned: Freestyle with rotary breathing, Backstroke, Butterfly arms, Treading water.
  - Wave 501 - Kids who completed a 401 level class or can swim the freestyle with rotary breathing 15-yards, backstroke, and breaststroke. Skills learned: Developing technique and endurance in all 4 competitive strokes, Emphasis placed on the rhythm and proper timing involved in each stroke.
  - Wave 601 - Kids who completed a 501 level class or are able to swim all 4 competitive strokes. Students will prepare for swim team by learning the following skills: Fine-tuning their stroke techniques, Learning rhythmic breathing, Flip turns, Legal finishes.
- Surf: 9 – 13 years
  - Surf 201 - Kids who completed a 101 level class or are comfortable jumping in and reaching to the side independently. Skills learned: Independent kicking,



Alternating arm movements, Back paddling, Floating on front and back without assistance

- Surf 301 - Kids who completed a 201 level class or can paddle short distances independently on both their front and back. Children begin swimming longer distances and will work on the following skills: Swimming on front with log rolls, Backstroke, Breaststroke arms, Dolphin kicks.
- Surf 401 - Kids who completed a 301 level class or can swim on their front with a side-to-side roll, do the backstroke, breaststroke arms and dolphin kicks. Skills learned include: Freestyle with rotary breathing, Backstroke, Breaststroke, Butterfly arms, Treading water.
- Surf 501 - Kids who completed a 401 level class or can swim the freestyle with rotary breathing 15-yards, backstroke, and breaststroke. Skills learned: Developing techniques and endurance in all 4 competitive strokes, Emphasis placed on the rhythm and proper timing involved in each stroke.
- Surf 601 - Kids who completed a 501 level class or are able to swim all 4 competitive strokes. Students will prepare for swim team by learning the following skills: Fine-tuning their stroke techniques, Learning rhythmic breathing, Flip turns, Legal finishes.

Lifetime also offers private lessons, semiprivate lessons, swim clinics, and adult masters swimming.

#### Instructor Ratios

- Splash: 4 months – 2 years
  - Intro to Splash - 1 instructor to 8 students
  - Splash 101 - 1 instructor to 3 students
- Ripple: 3 – 5 years
  - Ripple 101 - 1 instructor to 3 students
  - Ripple 201 - 1 instructor to 3 students
  - Ripple 301 - 1 instructor to 4 students
  - Ripple 401 - 1 instructor to 4 students
- Wave: 6- 8 years
  - Wave 201 - 1 instructor to 3 students
  - Wave 301 - 1 instructor to 4 students
  - Wave 401 - 1 instructor to 4 students
  - Wave 501 - 1 instructor to 5 students
  - Wave 601 - 1 instructor to 6 students
- Surf: 9 – 13 years
  - Surf 201 - 1 instructor to 3 students
  - Surf 301 - 1 instructor to 4 students
  - Surf 401 - 1 instructor to 3 students
  - Surf 501 - 1 instructor to 5 students
  - Surf 601 - 1 instructor to 6 students

#### SafeSplash

Safe Splash is an international swim instruction brand with locations in 28 states, Mexico and Turkey. SafeSplash is a performance-based swim school that teaches all skill levels ranging from the fundamentals of water safety to competitive instruction.

## [SafeSplash Swim Lesson Webpage](#)

### Ages

Swim lessons are available starting at 6 months and higher.

### Levels

- Parenttot 1 - Parent and child work together to develop the foundational skills crucial for learning to swim and promote safety in the water.
- Parenttot 2 - Parent and child work together to develop the beginning swimming skills crucial for learning strokes and promote safety in the water.
- Toddler Transition 1 - Class focuses on fundamental swimming and safety skills while learning how to safely be a part of a group class. Parents may stay poolside for safety purposes to ensure the child is following class rules.
- Toddler Transition 2 - Class focuses on fundamental swimming and safety skills while learning how to safely be a part of a group class. In this class, swimmers must be completely independent of the parent.
- Beginner (B1 – B3) - Our Beginner level classes (Beginner 1 - 3) are for swimmers ages 3+ and are designed for students with no swim experience to those working towards independent swimming. Swimmers start with learning the basic safety skills (blowing bubbles through the mouth and nose, front, and back float, as well as the beginning arm and kicking movements for freestyle) and progress to independent freestyle, develop backstroke technique, and continue to build on water safety skills.
- Intermediate (I1 – I3) - In our Intermediate class levels (Intermediate 1 -3) swimmers develop their freestyle side breathing and backstroke technique (Intermediate 1) and progress to learning breaststroke and ultimately accomplishing the butterfly stroke (Intermediate 3).
- Advanced (A1 – A2) - In our Advanced level classes (Advanced 1 - 2) swimmers focus on improving technique and gaining endurance and develop competition skills such as starts, turns, and streamlining.

SafeSplash also offers private and semi-private lessons, special needs swim lessons, swim camps and clinics, swim team prep, swim parties and family open swim times.

### Instructor Ratios

- Parenttot 1 - 1 instructor to 6 students
- Parenttot 2 - 1 instructor to 6 students
- Toddler Transition 1 - 1 instructor to 3 students
- Toddler Transition 2 - 1 instructor to 3 students
- Beginner (B1 – B3) - 1 instructor to 4 students
- Intermediate (I1 – I3) - 1 instructor to 4 students
- Advanced (A1 – A2) - 1 instructor to 4 students

### YMCA

The Y introduced the country to the concept of group swim lessons more than 100 years ago, (1909), and each year, the Y teaches more than a million children invaluable water safety and swimming skills. YMCA's swim lessons are taught by nationally certified instructors and prepare kids of all ages to stay safe and have fun in the water, building strong swimmers and confident kids. Classes arrange swimmers broadly into age groups and then by skill level as kids progress

through the instruction program. The YMCA's progressive-swim instruction method uses a problem-solving, guided-discovery teaching approach in a positive, caring environment.

### [Detroit YMCA Swim Lesson Webpage](#)

#### Ages

Swim lessons are available starting at 6 months and higher.

#### Levels

- Swim Starters
  - A: Water Discovery, 6 months – 2.5 years – Introduces infants and toddlers to the aquatic environment.
  - B: Water Exploration, 18 months – 3 years – Focuses on exploring body positions, blowing bubbles, and fundamental safety and aquatic skills.
- Swim Basics
  - 1: Water Acclimation – Increases comfort with underwater exploration and introduces basic self-rescue skills performed with assistance.
  - 2: Water Movement – Encourages forward movement in water and basic self-rescue skills performed independently.
  - 3: Water Stamina – Develops intermediate self-rescue skills performed at longer distances than in previous stages.
- Swim Strokes
  - 4: Stroke Introduction – Introduces basic stroke technique in front crawl and back crawl and reinforces water safety through treading water and elementary backstroke.
  - 5: Stroke Development – Introduces breaststroke and butterfly and reinforces water safety through treading water and sidestroke.
  - 6: Stroke Mechanics – Refines stroke technique on all major competitive strokes and encourages swimming as part of a healthy lifestyle.
- Pathways – Specialized Tracks – Students build confidence, cultivate their passion, and stay active through specialized tracks.
  - Competition
  - Leadership
  - Recreation

Swim lessons are grouped into Swim Starters, Pre-School Age and School Age based on the child's age. Pre-School and School age go through the same levels but are grouped according to age.

- Swim Starters – see Swim Starters Levels
- Pre-School Age – Four progressive stages for 3 – 5 years. Water Acclimation, Water Movement, Water Stamina, and Stroke Introduction.
- School Age – Six progressive stages for 6 – 12 years. Water Acclimation, Water Movement, Water Stamina, Stroke Introduction, Stroke Development, and Stroke Mechanics.

The YMCA also offers teen and adult swim lessons and private swim lessons.

#### Instructor Ratios

- Swim Starters – 1 instructor to 12 students

- Pre-School Age – 1 instructor to 6 students
- School Age – 1 instructor to 6 – 8 students

## Challenges and Barriers for Swim Instruction and Water Competence Programming

The current climate in the aquatic industry is one of understaffed facilities and in many cases long wait lists for swim lessons and other aquatic programming. The COVID pandemic hit the aquatic industry much like it did other industries that hire mostly part-time and seasonal employees. Anecdotally, the pandemic created a pent-up demand for swim lessons and recreation programming. With the workforce shortage the industry is feeling, this has led to canceled programs or long wait lists.

### Staffing Challenges

Specifically, in the Southeast Michigan market, many aquatic facilities, Metroparks included, are finding it difficult to fully staff their facilities. This can potentially be attributed to several factors:

1. Lack of Instructors and Instructor Trainers in the area
2. Lack of pool space due to COVID – 19 related issues
3. Regional decline in swim competency

While the Southeast Michigan market has at least 144 swimming facilities ranging from large recreation centers and waterparks to individual swim schools, there appears to be a regional lack of qualified instructors and instructor trainers with the ability to train lifeguards.

### Instructor Training and Training “Hubs”

The American Red Cross indicated that in the Southeast Michigan area, there are less than 15 certified Lifeguard Instructor Trainers and less than 6 Water Safety Instructor Trainers. This means there are very few available Instructor Trainers that are able to train Water Safety instructors - those that teach swim lessons in American Red Cross curriculums and Lifeguard Instructor Trainers - those that teach Lifeguard Instructors how to conduct Lifeguard courses for the community and area facilities.

< 15 Lifeguard Instructor Trainers  
< 6 Water Safety Instructor Trainers

It is apparent that the Southeast Michigan market lacks a training “Hub”, facility, or organization that regularly trains lifeguards, swim instructors, and lifeguard instructors to service the area facilities. In speaking with area operators, they all have to either train staff in-house with the instructors they have, contract out for other trainers or hope that enough qualified lifeguards and swim instructors will answer job postings.

Several of the Southeast Michigan Swim Program goals and objectives were created to assist in improving the ability of local instructors to gain additional certifications and train other instructors or lifeguards in the area thereby increasing the available workforce.

## Public Swimming Survey

As part of the Southeast Michigan Swim Program data gathering phase, Councilman-Hunsaker worked with Left Brain Concepts, Inc., a Denver-area research firm, and the Huron-Clinton Metropark Authority to create and distribute a public survey specifically regarding swimming abilities, competencies, and current swimming background. The survey was distributed to residents within the 5-county area: Livingston, Macomb, Oakland, Washtenaw, and Wayne counties. The survey distribution also included the City of Detroit as a specific target area within Wayne county.

The goals of the survey were to determine the 5-county area residents':

- Background in swimming
- Among adults and children who swim:
  - Their swimming ability
  - How frequently they swim
  - Where they swim
  - The importance of swimming relative to other activities
  - Their interest in improving their swimming ability
  - The benefits they receive from swimming
- Interest among non-swimmers and their children in learning to swim
- Among non-swimmers, the benefits of swimming that might appeal to them
- Swimmers' and non-swimmers' interest in potential swimming programs
- Barriers to increasing swimming activity because of:
  - Limited access to swimming facilities
  - High or unacceptable fees at water venues
  - Insufficient number of instructors at water facilities
  - Limited staffing at water venues
  - Fear of being in the water
  - Fear of being on the water in a boat, canoe, or kayak
  - Feeling unwelcome at water venues
  - Unsafe conditions at water venues
- The things that would increase peoples' swimming activity
- Demographics

## Survey Marketing and Distribution

The survey was conducted electronically from early July through September 2021. The survey was publicized extensively by HCMA throughout the 5-county area. Specifically, HCMA distributed a flyer with a QR code that linked to the survey to Metroparks and other swimming and recreation facilities and at libraries and community centers; a link to the survey was placed on Huron-Clinton Metroparks' webpage; a press release was sent to all media in the 5-county area; the survey was publicized on eight of HCMA's social media posts with a link to the survey; yard signs with QR codes were placed at all Metroparks locations and community partners; stories about the survey were written and published in local newspapers; hard copies of the survey were made available to recreation-related organizations in the 5-county area; the survey was regularly publicized to all Metroparks staff; the survey was announced in the July, August and September Metroparks e-newsletter to its 80,000 subscribers; an article was published in the Detroit News and C&G Newspapers about the initiative and survey.





### Electronic-Only Surveys

It was decided that the survey would be distributed electronically. Councilman-Hunsaker, Left Brain Concepts, and the Metroparks were confident that a significant number of surveys could be returned from each geographic area to obtain a representative sample of the 5-county area. Electronic-only surveys for local government have become very common, especially on surveys that guide recreation planning. While community surveys are still conducted by mailing to every nth (or every) household in a jurisdiction, electronic-only surveys are being used more and more. That is because while there is no more defensible methodology than mailing surveys to a random sample of households in a community, many people who do not have an interest in recreation do not respond to Postal Service surveys. Thus, a strong argument can be made that the respondents to an electronic-only survey publicized by the local government is the same as with a mailed survey.

### Survey Management

The survey was managed by Left Brain Concepts, Inc., a Denver-area market research and marketing consulting firm. Results were compiled, analyzed, and this report was prepared by Left Brain. The survey was written by Left Brain, Councilman-Hunsaker, and senior staff at the Huron-Clinton Metropolitan Authority.

### Survey Results

As is common in survey research, the distribution of population from the six geographies in the survey was adjusted to mirror the actual population distribution, based on the 2020 census. This was done to assure that the results of the survey are representative of people in the 5-county area.

A total of 1,010 surveys were completed. The maximum margin of error for a sample of 1,010

County	2020 Census	Percent
Livingston	193,866	4%
Macomb	881,217	20%
Oakland	1,274,395	28%
Washtenaw	372,258	8%
Wayne – Other	1,154,450	26%
Wayne – Detroit	639,111	14%
Total	4,515,297	100%

is  $\pm$  3.1% at the 95% level of confidence. Responses to the survey were analyzed by the following variables:

- Six areas of residence – 5 counties and residents of Detroit
- Households with and without children
- Gender
- Race
- Household income
- Swimming background (1) Afraid of the water and/or concerned about drowning, (2) never swam or swam years ago, (3) people who splash around in the water, (4) swimmers
- People who do not swim in either warm or cold weather months vs. all others

The survey generated a representative sample of residents in the 5-county area, including residents of Detroit. While respondents' area of residence was adjusted to the 2020 census, this is very common in survey research. Also, surveys more specific in nature, such as recreation, always attract people who are interested in the topic, as opposed to surveys that assess the delivery of all government services. HCMA's survey successfully attracted avid swimmers to non-swimmers, including those with a fear of water or drowning.

There was also the concern that the surveying process would not generate a sufficient sample size to be representative of residents of the 5-county area. And worse, that the process would not generate large enough sub-samples for Left Brain to determine if there are differences in views of swimming in demographic groups. However, the Metroparks' efforts to publicize the survey generated a sufficient total sample and sub-samples of people in all five counties, Detroit, people of color, low-income households, people with and without children, and again, a range of experience, ability, and interest in swimming.

## Key Takeaways

### *Swimming background / Swimming ability*

The top three responses were that people swam competitively in high school, college, or beyond (38%), that people are casual, recreational swimmers (33%), and that respondents are more serious but still recreational swimmers (27%). There were many responses from casual swimmers; 17% said they splash around in the water, 11% engage in water exercise programs, and 8% said they exercise in the water for physical therapy. The survey also attracted responses from people who swam years ago but are not currently swimming (8%), area residents who are concerned about the possibility of drowning (8%), those who have never swam (3%), people who are scared to death of the water (1%), and people who once were concerned about the possibility of drowning but are no longer concerned (1%).

As was expected at the beginning of this initiative, residents of Detroit, people of color – especially people who are Black, are less proficient swimmers than people in other demographics.

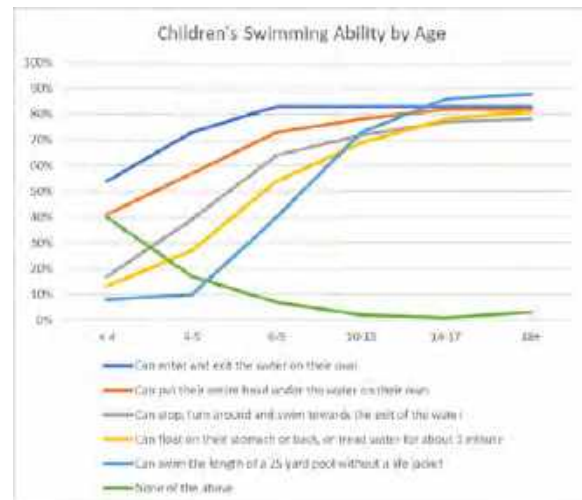
### More Detroit residents and people of Color

- Are concerned about drowning
- Splash in a pool or body of water where they can stand with their heads above the water

### Children living in the household

About half (56%) of the respondents have children living with them. The remaining 44% do not.

Children's swimming ability by age: As expected, swimming proficiency increases as children get older. Proficiency particularly increases from ages 4-5 to 6-9. Another significant increase occurs from 6-9 to 10-13. However, there is considerably less improvement from ages 10-13 to 14-17 and from 14-17 to those 18 and older.



### Frequency of swimming

Not surprisingly, people swim more in warm weather months than during cold weather months. For example, for those who swim 1-3 times a month, 32% swim in warm weather months but only 15% swim in cold weather months. But the differences were not as stark among people who swim one to three times a week (35% warm weather vs. 27% cold weather) and those who swim 4-7 times a week (22% warm weather vs. 15% cold weather). The percentage of people who do not swim at all is much higher in cold weather months (43%) than warm weather months (11%).

Detroit residents, people of color – especially people who are Black, and people in lower-income households swim less than people in other demographics.

### Places people swim

The most frequented are lakes and ponds (70%), pools at recreation centers and health clubs (67%) and pools at hotels and condos when people travel (55%). Less used are pools at private residences (31%), pools at high schools or colleges (28%) and rivers (13%).

### Reaction to places to change clothes

Only 36% are satisfied with places to change clothes, places to shower (31%), and places to secure valuables (30%). Amenities people would like to see added are lockers (47%), places to change clothes (41%), and showers (39%). About a third (38%) reported they go to swimming venues in their swimming attire.

Demos very interested in swim instruction

- Detroit residents
- People of Color
- Women (interested in having children learn to swim)

### Importance of swimming to household members

Only 36% are satisfied with places to change clothes, places to shower (31%), and places to secure valuables (30%). Amenities people would like to see added are lockers (47%), places to change clothes (41%), and showers (39%). About a third (38%) reported they go to swimming venues in their swimming attire.

### Reaction to places to change clothes

### Importance of swimming to household members

Swimming is the most important recreational activity for 29% of families, tied for the most important for 33%, and an occasional activity for 27% of the

households. Swimming is less important to people of color, especially people who are Black, than people in other demographics.

### *Interest in learning to swim / Improving swimming ability*

About two-thirds (69%) of the adults reported that they are very or somewhat interested in learning to swim or improving their swimming abilities. The percentage of combined very and somewhat interested increases to 77% for interest in having their children learn to swim or improve their swimming ability.

Detroit residents, people of color, especially people who are Black, are more interested in their learning to swim than people in other demographics.

### *What people enjoy about swimming / What might interest non-swimmers*

The things that people enjoy about swimming that reach 60% or higher mention that swimming is good for cardiovascular fitness (70%) and total body training (66%). Also mentioned is that swimming is a relaxing and peaceful form of exercise (66%), good for stress relief (64%), provides a pleasant way to cool down on a hot day (61%), and has less joint impact and stress (60%). Only 35% noted that water is easily accessible to them at pools, beaches, lakes, and rivers.

People who are afraid of the water or have a fear of drowning were more likely than avid swimmers to state that swimming provides a pleasant way to cool down on a hot day and that swimming is a pleasant way to spend time with family and friends.

### *Interest in swimming programs in the 5-county area*

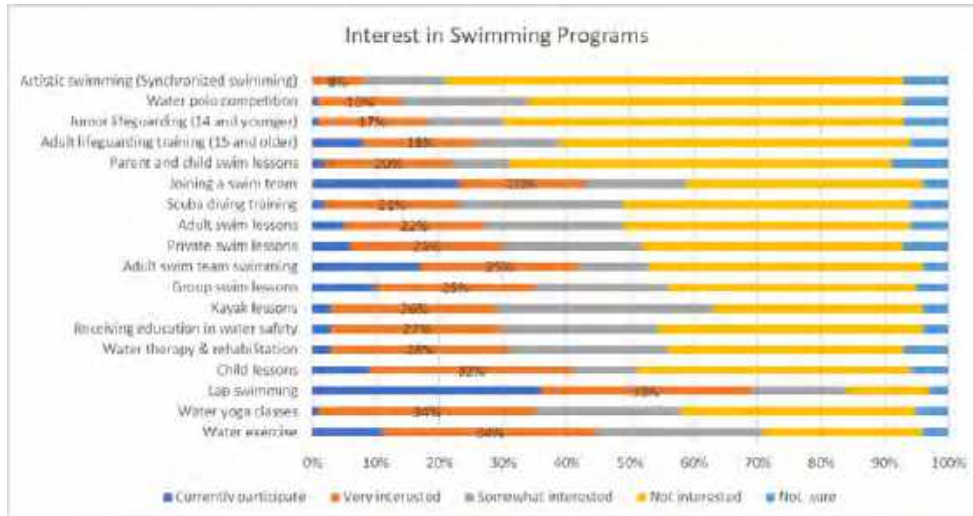
People were given a list of 18 existing or potential programs and asked to rate their level of interest. The programs that received ratings of very interested of 25% or more were water exercise (34%), water yoga classes (33%), lap swimming (33%), child lessons (32%), water therapy & rehabilitation (28%), receiving education in water safety (27%), kayak lessons (26%), and adult swim team swimming (25%).

The demographic groups that are more interested in many of the existing or potential programs are residents of Detroit, people of color – especially people who are Black, people in lower-income households, those who are afraid of the water or have a fear of drowning, and those who do not swim or rarely swim.

People who are afraid of the water say...

- Swimming provides a pleasant way to cool down
- Pleasant way to spend time with family and friends





### *Reaction to swimming opportunities in the area*

The top three responses were that hours at swimming venues do not work into people’s schedules (34%), water venues are too far from their homes for them to participate (28%), and fees at water venues are higher than people want to pay (27%). These sub-questions were deliberately posed with a negative slant. Thus, it should be interpreted that hours at swimming venues do work into people’s schedules (66%), water venues are not too far from people’s homes for them to participate (72%), and fees at water venues are not higher than people want to pay (73%).

### *Feeling welcome / Safety / Comfort at swimming venues*

People were given seven questions and asked to respond on a scale of strongly agree, somewhat agree, somewhat disagree, and strongly disagree. When combining somewhat disagree and strongly disagree responses, negative ratings ranged from 8% to 15% for five of the seven issues queried. Respondents disagreed the most that swimmers are respectful of others at swim venues (23%) and that people swim safely for themselves (24%).

### *Increasing participation in swimming*

People were asked on an open-ended basis the things that would increase their participation in swimming. Twenty-six things were mentioned by at least 1% of respondents. The top six were closer water venues (20%), offering adult swim lessons (13%), more lap swim times (11%), more indoor swimming pools or the ability to use pools at high schools (10%), expanding hours at swimming facilities (9%), and lower fees (9%).

The full survey report and results can be found in [Appendix A](#).

#### Feel welcome at urban venues

- Detroit residents

#### Feel welcome at suburban venues

- Residents outside Detroit
- Men
- Whites

#### Feel welcome at rural venues

- Residents outside Detroit
- Men
- Whites

#### Feel comfortable swimming with strangers

- Whites

#### Water venues are too far

- Residents of Detroit
- Women

#### Fees are too high

- People of Color
- incomes under \$50,000

#### Not enough instructors

- Detroit residents
- Women
- People of color
- Incomes under \$50,000
- Afraid of water

#### Not swimmers, but enjoy water exercise

- Detroit residents
- Women
- People of Color
- Incomes under \$50,000
- Afraid of water
- Do not swim in cold weather months



# Huron Clinton Metroparks Aquatic Facility Review

In June of 2021 Counsilman-Hunsaker provided a review of three Metropark Aquatic facilities, Lake St. Clair Metropark Pool, Lake Erie Metropark Great Wave Pool, and Willow Metropark Pool. The purpose of the review was to assess each facility for its functionality within the four main aquatic user groups and provide recommendations to address functional obsolescence and provide improvements based on the [Programming Action Plan](#).

## Aquatic Trends

When developing tomorrow’s vision for aquatic programming, it is important to understand traditional uses and trends in aquatic programs. Trends evolve in the aquatic industry as swimming expectations evolve. While national surveys continually rank swimming as a favorite recreational sport, today’s aquatic centers incorporate recreation swimming and wellness pools to augment revenue of competitive swimming, thereby creating multi-generational facilities through shared expenses.

Contemporary aquatic centers are fully ADA accessible, allowing everyone to benefit from aquatic activities. Compliance with the 2010 Standards for Accessible Design states that all pools larger than 300 linear feet of pool wall perimeter need at least two accessible means of entry, one of which needs to be either a pool lift or a sloped entry. The secondary means of entry can be either a lift or sloped entry, or pool access stairs, transfer system, or transfer wall. Pools with less than 300 linear feet of pool wall perimeter need one accessible means of entry, either a pool lift or sloped entry. Spas need one entry, which can be either a pool lift, transfer system or a transfer wall. As more athletes cross-train with water fitness components and more doctors recommend water rehabilitation for injured, overweight, diabetic, and aging patients, multi-generational aquatic centers are inclusive of the entire community.

## Aquatic User Groups

The following describes national trends for four aquatic user groups: Recreation, Competition, Instruction and Wellness and Therapy. The descriptions make evident the very different requirements for each of these aquatic user groups when planning and designing an aquatic facility.



## Recreation

Successful aquatic centers combine creative water play areas for various age groups in a safe, friendly atmosphere. While aquatic recreation has become much more age-defined, attractions have age limitations and appropriateness due to elements of thrill and capabilities. Tots enjoy shallow pools with gentle water features and play areas tucked securely out of the way of the more active areas. Once children grow out of the tot stage, they enjoy romping in zero-depth recreation pools, making their adventurous way across lily pad walks, and climbing on participatory play features with “just-their-size” waterslides. Older children speed down flume and drop slides and enjoy larger water play structures. Teens enjoy gathering spots like action islands with access to deep water pools and more adventurous waterslides. Lazy rivers and current channels cater to most demographics, while spas and lap lanes are geared towards adults.



Recreational Aquatic National Trends by Age Group	
Age Group	Recreational Aquatic Age-Group National Trends
Age 0-3	Tot pool, tot slides, gentle spray features
Age 4-7	Water sprayground, zero-depth pool, participatory play features, sand play
Age 8-11	Water walks, large play structures, full-size waterslides, open water
Age 12-16	Water walks, large waterslides, open water, lazy river, gathering places, sand volleyball, mat racer, diving boards
Age 17-22	Action island, intense waterslides, flow rider, mat racer, climbing wall, open water, sand volleyball, drop slides, diving boards
Age 23-45	Zero-depth pool (to be w/children), open water, spa, sun deck, lap lanes, lazy river, waterslides, diving boards
Age 46+	Spa, sun deck, lap lanes, lazy river, family-friendly waterslides

Source: Councilman-Hunsaker

## Recreation Pool Features



### Leisure Pool

The free-form leisure pool provides an inviting atmosphere with plenty of shallow water from zero-depth to four feet, allowing adults and children to interact for hours of splash and play entertainment. With opportunity for many different sizes and designs, the leisure pool is a desirable amenity for all age and skill levels where various attractions may be incorporated to increase the experience factor, which increases attendance, the amount of time spent at the facility, and return visits.



#### Participatory Play Feature

Located within the leisure pool, play features are multi-level, interactive structures where children can scamper through spraying water, climb across bridges, scurry over and under tunnels, and slide down just-their-size waterslides. As children manipulate valves and chains, they control where and when the water sprays will occur—all within sight of parents and lifeguards.



#### Current Channel

A current channel is part of the leisure pool, usually 6-8 feet wide, with water traveling approximately two and a half miles per hour. The channel is very popular as a water walking setting for fitness classes or adults seeking non-programmed exercise, walking with or against the current.



#### Water Vortex

An interesting area within a leisure pool is a vortex where water jets propel water in a circular motion. Children of all ages enjoy swimming in the swirling water where the imagination determines the adventure. Depending on the size of the vortex, when the pump for the vortex is turned off, this area can provide an instruction space for lesson programming for youngsters, classes, and activities.



#### Waterslides

The thrill of mounting the stairs to the exhilaration of sliding down into the water makes waterslides a desired attraction. While some slides are straight with a steep or gentle gradient, others wind down with sharp enclosed curves or high walls on the outside of the curves. Slides can be a long tube or alternate between an open chute and a closed tube. Experiences can range from family-friendly to surprisingly intense.



#### Drop Slide

A drop slide offers the thrill of walking up the steps of the waterslide, hearing the excitement and splash of water sliders ahead, then sliding down to the water with the bonus of dropping into the pool upon exit in a short freefall.



### Lap Lanes

Fitness lap swimming and water walking are important to many adults and seniors. Opportunities for limited practice and training exist in a two, three, or four lane 25-yard lap pool adjacent to the leisure pool. Additionally, programming can be incorporated for lessons and activities.



### Climbing Wall

A kids' climbing wall offers the experience, physical activity, and challenge of climbing with the water underneath to cushion the fall.

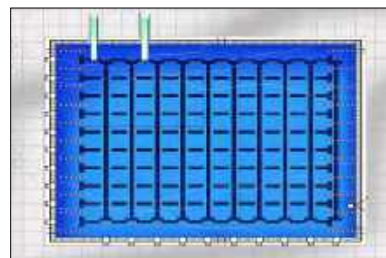
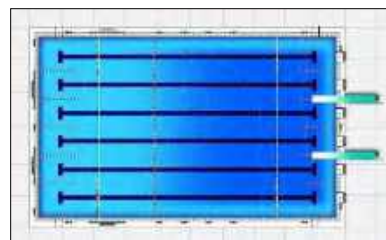


### Additional Support Amenities

Community pools have bathhouses that provide lockers/showers/changing/restrooms for their guests. Snack/concession areas provide food for hungry appetites, thus offering a day-long experience. Birthday party rooms can increase revenue by offering swim parties with games and food.

### Competition

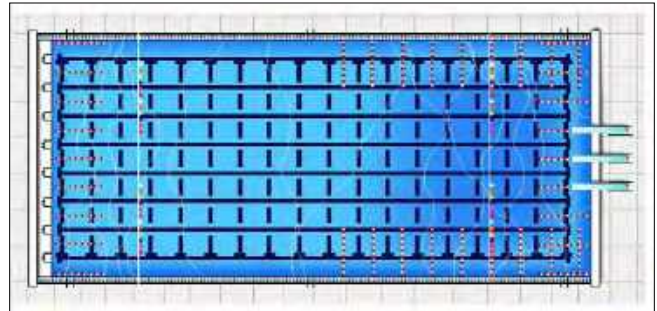
A competition pool must be 25 yards or 25 meters for short-course events and 50 meters for long-course events. USA Swimming and FINA sanction short-course 25-meter as well as long-course 50-meter competitions. Depending on the level of competition, a minimum of six lanes is required, but eight lanes are expected to better allow for larger heats. While almost all 50-meter pools have ten lanes, 1 and 10 serve as buffer lanes. National caliber water polo matches take place in 30-meter fields of play minimum with at least a 2-meter zone behind each goal line. High schools, USA Swimming, the YMCA, and NCAA conduct short-course 25-yard competitions. For high school and NCAA events, a pool must have a minimum of six lanes, each at least seven feet wide. Several current standards require six feet or more of water depth beneath





starting blocks. While some shallow water is acceptable, water depths of two meters or more “is required” as per applicable rules.

High school and college water polo often use 25-yard and 25-meter pools, but all high-level meets for USA Water Polo and international events are held in 50-meter pools. Water depth of two meters or more “is required” as per applicable rules. Synchronized swimming requires a deep, 12-by-25-meter pool area. A minimum water depth of 2.5 meters “is required” as per applicable rules. National and international events are generally conducted in 50-meter pools.



Today, nine governing bodies sanction meets and matches in their respective sports, including:

1. [USA Swimming](#)
2. [National Federation of State High School Associations \(NFSHSA\)](#)
3. [National Collegiate Athletic Association \(NCAA\)](#)
4. [Federation International de Natation Amateur \(FINA\)](#)
5. [USA Water Polo](#)
6. [USA Diving](#)
7. [USA Synchronized Swimming](#)
8. [USA Masters Swimming](#)
9. [YMCA](#)

## Diving



Many pool operators have decided to remove diving boards for fear of injury to patrons. However, with proper water depth and supervision, springboard diving is one of the safest sports in existence. No catastrophic diving injuries, recreational or competitive, have occurred in pools sanctioned by any of the main governing bodies in competitive diving. Diving is an integral aspect of many aquatics programs, being found in swimming lessons, recreational swimming, competitive swimming, and of course, competitive diving. Diving is a very important skill to learn as a headfirst entry into the water always poses a safety risk, especially in shallow water. However, racing starts and recreational diving can be safely performed, provided that basic precautions are taken.

## Springboard Diving

- Water depth must be adequate under, in front of, and to the sides of the board. The Y-USA guideline is to provide at least 11 feet of water depth for a one-meter board.
- A trained coach should be present for practice and competition, in addition to the lifeguards.
- When the diving facilities are in use, a lifeguard should be specifically stationed in that area to manage the activity and to enforce the following rules:

- Only one diver is allowed on the board at a time.
- Only one bounce is allowed at the end of the board.
- Dive or jump directly ahead.
- Exit immediately at the nearest ladder after each entry.
- The hands must enter the water first on all headfirst dives.

### Racing Dives/Starting Blocks

- Most authorities, Y-USA included, now require five feet of water depth for starting block usage.
- Non-springboard diving instruction should be performed in no less than nine feet of water, whether teaching competitive dives to new swimmers or teaching new diving techniques to experienced swimmers.
- Starting blocks should be used only with the direct supervision of a trained coach.
- Starting blocks should be clearly marked as closed when not in use. A cone or cover is suggested on each block to keep untrained or unsupervised users off the block.

### Open Swim General Rules

- Diving from the pool deck should not be permitted in less than nine feet of water.
- "No Diving" signs as well as depth markers should be placed conspicuously at the water's edge and at other locations in the facility. Lifeguards must strictly enforce this rule.
- Inform new users and outside groups of the diving rules before they enter the water.

### High School Users

High school varsity swimming is typically well supported in most communities across the U.S.; however, many schools lack the ideal facility for training and competition. In addition, because quality pool time is usually scarce in most areas, renting pool time from other area facilities can be daunting due to various needs and agendas, thus, pool availability can diminish as facilities experience capacity.



High school competitive swimming requirements include:

- Course length of 25 yards with a minimum width of 45 feet for six 7-foot-wide lanes or 60 feet for eight 7-foot-wide lanes
- 125 spectator seats
- Pace clocks, stretch cords, mats (for sit-ups, etc.), free weights, medicine balls, weight training equipment, kickboards, fins, paddles, pull buoys, and goggles

### USA Swimming

USA Swimming formulates rules, implements policies and procedures, sanctions national championships, disseminates safety and sports medicine information, and selects athletes to represent the United States in international competitions. USA Swimming has 337,084 year-round members nationwide and sanctions more than 7,000 events each year. USA Swimming has organized regional and national competitions for age group competitive swimming in the United States. The base for popularity is primarily a young age group that begins around age eight and peaks at age 11, as shown in the chart below.



2015 Year-round Athlete Membership										
Age	New Female	Renew Female	Total Female	% of Total Ath	New Male	Renew Male	Total Male	% of Total Ath	Grand Total	% of Total Ath
8 & Under	11,663	5,760	17,423	5.2%	9,050	4,281	13,331	4.0%	30,754	9.2%
9	7,687	8,052	15,739	4.7%	5,728	5,868	11,596	3.4%	27,335	8.1%
10	7,848	12,336	20,184	6.0%	5,764	8,868	14,632	4.3%	34,816	10.3%
11	4,365	16,147	23,512	7.0%	5,352	11,297	16,649	4.9%	40,161	11.9%
12	5,937	17,857	23,794	7.1%	4,563	12,506	17,069	5.1%	40,863	12.2%
13	4,219	17,778	21,997	6.5%	3,375	11,907	15,282	4.5%	37,279	11.0%
14	2,903	16,274	19,177	5.7%	2,585	11,810	14,395	4.3%	33,572	10.0%
15	1,779	13,535	15,314	4.5%	1,826	10,356	12,182	3.6%	27,496	8.1%
16	1,165	10,761	11,926	3.5%	1,251	8,564	9,815	2.9%	21,741	6.4%
17	709	8,646	9,355	2.8%	924	7,611	8,535	2.5%	17,890	5.3%
18	327	6,174	6,501	1.9%	544	6,218	6,762	2.0%	13,263	3.9%
19 & Over	362	5,029	5,391	1.6%	460	6,063	6,523	1.9%	11,914	3.5%
<b>TOTAL</b>	<b>51,964</b>	<b>138,349</b>	<b>190,313</b>	<b>56.5%</b>	<b>41,422</b>	<b>105,349</b>	<b>146,711</b>	<b>43.4%</b>	<b>337,084</b>	

Source: Counsilman-Hunsaker

## Zones

USA Swimming has four zones subdivided into fourteen regions. The four zones are Eastern, Southern, Central, and Western.

There shall be at least two (2) Spring and one (1) Summer Sectional meets in each Zone.

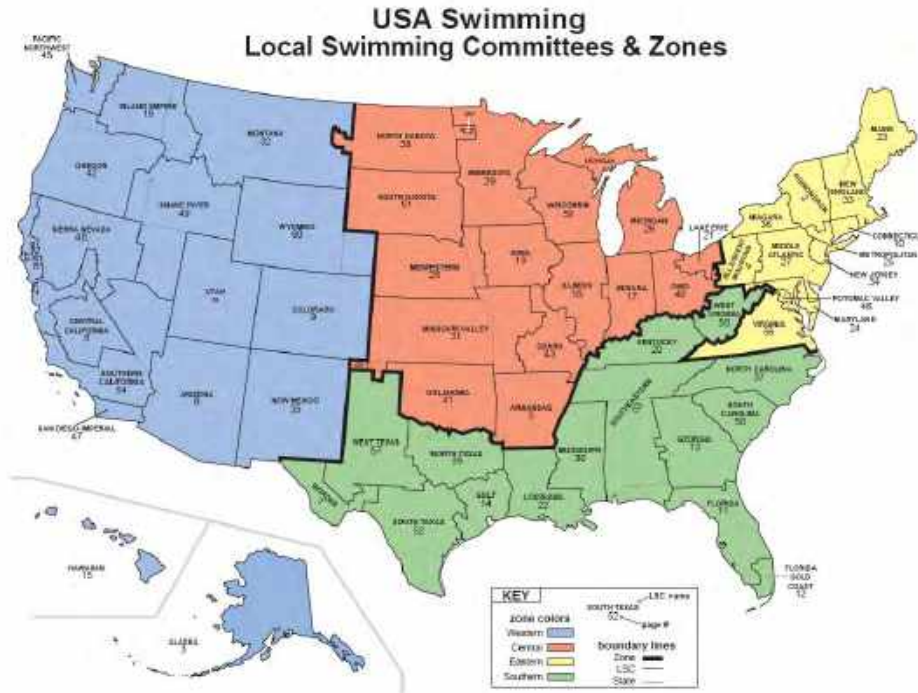
### A. Summer Sectional

1. The Summer Sectional shall be a Long Course meet.
2. The Summer Sectional meet shall be no more than four (4) days long and shall conclude between eight (8) and twenty-two (22) days prior to the U.S. Open or Junior Nationals, whichever comes first.
3. The Summer Sectional meet shall have at least one 18-and-under final heat per individual event.

### B. Spring Sectional

1. The Spring Sectional meet should be no more than 3 ½ days long. The dates may vary according to the needs of each Zone.
2. The Spring Sectional meet shall have at least one 18-and-under final heat per individual event.

There shall be not more than sixteen (16) Spring and sixteen (16) Summer meets. Sectional Championship dates and sites shall be selected by the Sections and approved by the respective Zone Directors.



## Competitive Events Overview

### USA Swimming Competitive Events / Requirements

The following chart details the types of competitive swimming events with an approximate number of swimmers, pool requirements for competition and warm-up space, as well as the spectator seating requirements.

Event Title	Number of Swimmers	Pool Requirement	Warm-up Pool Requirement	Spectator Requirements	Number of Days	Time of Year
US Olympic Trials	1,200	One eight-lane, 50-meter pool; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 50-meter pool; minimum depth of two meters and 9-foot wide lanes	14,000	Eight days	Held in Olympic years
US Open	1,000	Two eight-lane, 25-yard competition pools; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 25-yard pool	1,500	Four days	Begins the Wednesday after Thanksgiving
Speedo Winter Junior Championships (East/West)	1,000	Two eight-lane, 25-yard competition pools; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 25-yard pool	1,500	Two separate four-day events	Begins second Wednesday after Thanksgiving
Phillips 66 National Championships	1,000	One eight-lane, 50-meter pool; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 25-yard pool	1,500	Five days	Early August
Speedo Junior National Championships	1,000	One eight-lane, 50-meter pool; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 25-yard pool	1,500	Five days	Early August
USA Swimming Futures Championships	1,000	One eight-lane, 50-meter pool; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 25-yard pool	1,500	Four separate four-day events	Early August
Open Water National Championships	5K – 100 to 150 10K – 75 to 100	Open water area appropriate for the contested distance	None	None	Three days	Summer
TYR Pro Swim Series	700	One eight-lane, 50-meter pool; minimum depth of two meters and 9-foot wide lanes	Eight-lane, 25-yard pool	1,500	Series of four-day events held throughout country	
Speedo Nationals	800	One eight-lane competition pool; 25-yards, 25-meters or 50-meters acceptable	Required	1,000	Series of three- or four-day events held throughout country	
USA Swimming Zone Championships	800	One eight-lane competition pool; 25-yards, 25-meters or 50-meters acceptable	Required	1,000	Series of three- or four-day events held in each of four zones in the country	

## United States Masters Swimming

United States Masters Swimming (USMS) programs are open to all adult swimmers (fitness, triathlete, competitive, non-competitive) dedicated to improving their fitness through swimming. Founded in 1970, the non-profit corporation is organized with 450 clubs throughout the United States. Membership consists of almost 65,000 swimmers ranging in age from 18 to over 100. Within the clubs, structured workouts offer training assistance for specific goals for a healthy lifestyle through camaraderie. Pool and open water races provide opportunities to compete and measure individual progress at the local, state, national, and international levels. USMS programs also offer stroke and technique clinics, workshops, instruction, and social functions. Competitions are organized by age groups of five-year increments (18-24, 25-29, 30-34, 35-39, etc., to 95 and over). Events include 50, 100, 200, 500, 1000, and 1650 freestyle (400, 800, and 1500 in meters); 50, 100, and 200 backstroke, breaststroke, and butterfly; and 100, 200, and 400 individual medleys. There are also freestyle and medley relays for men, women, and mixed teams. Open water swims are held in most locales during the summer and can range in distance from one to ten miles. Special events such as seeing how far you can swim in one hour are contested through the mail. USMS hosts two national championship meets a year. A short course (25-yard pool) championship is held in May and a long course (50-meter pool) championship is held in August. These four-day events rotate to different locations around the country. International championships are conducted periodically by Masters Swim organizations in countries throughout the world.<sup>7</sup>

## Community Swim and Dive Teams

Numerous communities sponsor competitive swimming and diving teams for children and teens. The purpose is to offer an opportunity to enjoy the healthy fun of swimming; to support individual achievement of personal bests; and to promote goal setting, life skills, and sportsmanship. Teams typically adhere to recognized swimming rules and swim the standard strokes of swim meets but in shorter lengths. Swimmers with limited or no competitive experience are provided stroke conditioning clinics as a recommended alternative. Teams are usually more active in the warmer months, and not directly associated with a national swim organization. Many swimmers who begin their competitive swimming experience on a local swim team proceed to join nationally governed teams.

## Pool Rental

Competitive swimmers, particularly members of independent swimming associations, are accustomed to renting lane space for training as well as leasing entire facilities, either for long-term use or on a one- to three-day basis for special events and competitions. Although there is more than one accepted way to receive fees from swim teams, pool lane rental is usually based on cost per lane/per hour. Entire facilities leased on a per-day basis generally have a fixed schedule of costs for such use. Long-term facility leases are generally the product of negotiation and, accordingly, are too varied and specialized for consideration in the context of this study.

## Instruction

### Swim Lessons

According to the Centers for Disease Control, more than one in five people who die from drowning are children age 14 and younger. For every child who dies from drowning, another four receive emergency care for nonfatal submersion injuries, which can cause brain damage that may result in long-term disabilities, including memory problems, learning disabilities, and permanent loss of basic functioning.<sup>1</sup>



Drowning Prevention is essential for children and adults, whether living in areas with natural bodies of water or simply being invited to pool parties. With more than one available pool in an aquatic center, lessons can be maximized so that a large number of residents can be taught to swim. Ideally, water depth for instruction should accommodate young participants to stand comfortably in the water. Recreation pools easily provide this preference. Deeper competition pools offer moveable floors or other means of altering water depth for instructional purposes.

A well-run water lesson program is essential in introducing young swimmers to safe aquatic skills that can be used throughout their lives. By offering the community a comfortable, controlled aquatic environment, swimming and diving lessons can become an enjoyable learning experience. There are many different types of water safety lessons that can teach children not only how to swim and dive but how to survive in adverse water conditions. Water safety is an integral part of any community, from small watercraft instruction to learning to swim. Many will go on to formal competitive aquatic programs in school or age-group swimming programs. Some will excel to become state champions. Benefits such as scholarship offers may occur when a swimmer or diver selects a college, which could lead to national-level competition.

## Entrapments

Aware of 74 cases of body entrapments, including 13 confirmed deaths between January 1990 and August 2004, the U.S. Consumer Product Safety Commission reported the deaths were the result of drowning after the body or limb was held against the drain by the suction of the circulation pump. The incidents occurred in both residential and public settings. Subsequently, a new federal pool and spa safety law was signed by former President George W. Bush on December 19, 2007. The Virginia Graeme Baker Pool and Spa Safety Act requires all public pools and spas to have safety drain covers, and in certain circumstances, an anti-entrapment system. The goal of the law is to improve the safety of all pools and spas by increasing the use of layers of protection and promoting uninterrupted supervision to prevent child entrapments and drownings.



When teaching outside standard lessons, some classes mimic the natural environment through instructor creativity (i.e., creating wave action with hands and arms to mimic river tides), while others simply require small children to memorize what they would do in a situation where drowning is likely, and then enact memorized skills with an instructor present.

## Lifeguarding and CPR

Water rescue skills and CPR are typically taught to all lifeguards. However, water rescue and CPR skill education are integral to the community because families are the true lifeguards of one another, whether at the beach or a backyard pool. Often, such courses are sponsored by the Red Cross, Ellis and Associates, and other providers of safety training.



## School District Lesson Users

School districts are often valuable contributors to help efficiently program aquatic facilities. Potential programming might embrace swim lessons for elementary students, lifeguarding classes, physical education classes, therapy for high school athletes, and other joint partnership agreements to aid in directing area children to learn to swim. Aquatic sports (diving, water polo, synchronized swimming, underwater hockey, etc.) can contribute to the overall use of the facility as well as fitness use by faculty, special education therapy, and recreation. In addition, an aquatic facility may provide aquatic opportunities to pre-school children cared for by private daycare providers.

## Wellness and Therapy

### Aquatic Fitness

The more often the pool can be utilized for group activities for participants and spectators, the more likely the aquatic facility will be “alive” day in and day out. The types of activities that tend to draw a crowd are participatory, measurable, exciting, and often challenging – but not always so challenging that only the elite can participate. Activities can be tailored to different ages, sizes, and/or skill levels.



The industry has responded to the continued popularity of aquatic fitness by creating a wide range of activities with related devices and equipment for a greater diversity of water-based



aqua exercise options. Aerobic dancing, walking, and running in shallow and deep-water environments, including current channels for walking against the current, are just a few of the choices available to people wishing to add less stressful elements of a cross-training regimen or even to use aqua aerobics for their entire fitness program. Additionally, businesses might sponsor or subsidize aquatic fitness as part of their employee wellness training discipline.

Aquatic fitness also remains one of the most popular forms of exercise among senior adults. Data taken from the National Center for Health Statistics shows lifetime expectancy is up 30 years since 1900.<sup>4</sup> The older adult market spans four generations from the Progressive Era 1900-1928, Depression Era 1929-1939, WWII Era 1940-1945, and Baby Boomers 1946-1964. The older adult market can be a large, affluent market willing to participate in water fitness, wellness programming, and other recreation opportunities. This diverse age group from 55 to 90+ includes sub-groups of which some are still working, some have children in college, and some are focusing on retirement, grandkids, and wellness. Consequently, seniors can be willing, enthusiastic participants if certain requirements are met. They typically feel uncomfortable in an environment with teens and generally respond better to strictly defined programming of well-structured activities such as water aerobics, arthritis water exercise, water walking, physical therapy, adult swim lessons, 'Save a Life' workshops, lap swimming, and Masters swimming.

### Aquatic Exercise Trends

#### AquaBata Shallow

Take advantage of the latest trend in fitness to deliver the next level of training to your aquatic programs. High Intensity Interval Training (HIIT), including the specialized Tabata format, transitions into the water with high-powered results. Minimal choreography, maximal results – AquaBata training is the hottest workout in the pool that attracts a younger market, including men! AquaBata...for an Aqua Body!

#### Aquatic Cardio Programs

Discover the key concepts necessary to create safe, effective, and enjoyable shallow water aerobic programs. Creative sequencing, smooth transitions, and movement variations will help leaders to develop a unique style of choreography or movement progression. All aquatic professionals can benefit from this hands-on application of the physical properties of water in various cardio class formats.

### Aquatic Circuit Applications 2

Circuit training can open your pool to a wide array of training options that are time efficient and fun. Part 2 of this popular workshop offers all new ideas for creative circuit training in shallow water, along with suggestions for deep-water formats. Explore instructor-guided and self-guided methods to provide optimum results for your pool, your participants, and your teaching personality. Innovative ideas fuse cardio and resistance training to help participants achieve fitness goals.

#### Aquatic Interval Applications

Create dynamic interval formats for the pool that can be adjusted for various ages and abilities through Work: Recovery ratios, movement tempos, exercise choices, and impact options. This interactive workshop will assist you in developing motivating aquatic interval programs to enhance training results for participants and allow you to lead the workout safely & effectively from the pool deck.



### Aquatic Kick Boxing

Explore innovative, safe, and effective aquatic Kick Boxing! This program is great for group fitness instructors, small group fitness leaders, trainers, and coaches! This interactive non-stop format includes movement modifications and adaptations for the pool. Learn basics and beyond to successfully build techniques into programs for all ages and fitness levels. Explore the benefits of three modalities: stand-alone training, combination programming, and multi-sport fitness workout options.

### Boot Camp Deep

Take your boot camp to the deep and experience suspended training with a high-intensity, non-choreographed workout. Learn how to employ a variety of body positions (vertical, horizontal, and diagonal), as well as specific training drills that utilize the pool wall. Command attention in your deep-water classes with challenging formats geared for advanced training. Lower intensity modifications will be discussed.

### Boot Camp Shallow

Ten-hut! Push participants past training plateaus with a platoon of shallow water training designed to target fitness components of agility, balance, coordination, and speed in addition to cardio capacity. This no-nonsense workout formula delivers high-intensity training options, with and without equipment to maximize results. Training tactics may not be suitable for beginning exercisers, persons with special needs, or those unwilling to get their hair wet.

### Core Training + Stretch Techniques

Dive into a pool of core training techniques that include standing, traveling, and buoyant options to develop dynamic strength for improved function. Learn options with, and without, equipment to meet a variety of goals and successfully target all skill levels. Flow into a sampler of stretching techniques – static, dynamic, and equipment-assisted options. From relaxing mind-body options for warm waters to fluid movements for cool pools, learn how to remain flexible in all environments!

### Deeper Applications 2

Dive deeper into aquatic programming applications by taking advantage of current trends in fitness. Deeper Applications 2 offers updated information and creative new fitness formats to promote continued progression in your deep-water classes and personal training sessions. Experience suspended high-intensity interval training (HIIT) concepts, including the Tabata protocol, which effectively targets the cardio system while challenging the core.

### H2O Body Sculpting & Resistance Training

Add resistance, through the use of equipment and body positions, to create a shallow-water fitness program that targets muscular strength & endurance, range of motion, and balance skills. Learn how to effectively integrate both impacting and grounded techniques to accommodate various fitness levels, as well as different pool considerations, such as water depth and temperature! This high-powered workout explores another level of training with controlled resistance.

### Next Level Noodle

Take your aquatic class to the next level with creative cardio, targeted toning, and core concepts...all with the pool noodle. Explore all impact levels (grounded, propulsion & levels I, II, III) and modifications for all ability levels in this fun- focused, total body conditioning class.

### PiYoChi Cardio Intervals

A motivating interval format integrates Pilates & Yoga techniques with cardio training to create mind-body programming suitable for cooler water temperatures (83-86 F). Pilates' concepts target the "powerhouse" muscles of the core; Yoga focuses on alignment, awareness, and breath control; cardio components burn calories and keep the participant warm. Expand group exercise and personal training options with this functional fusion of training principles for the pool!

### Rated M for Mature

This Aquatic Aerobic & Resistance Program (AARP) is fun, targets function, and provides fundamental exercises for the mature market. Baby Boomers and beyond want a training program that meets their needs and interests, while accommodating special concerns, such as fear of falling. Develop purposeful movement to achieve balance, coordination, mental awareness, posture, and range of motion needed for active lifestyles, as well as independent living.

### Successful Senior Strategies

Aquatic programming that targets the senior population spells success! From marketing and promotion to music and motivation, every concept of program design, development and implementation must be considered. Explore this creative collection of pool programs that are perfect for the older adult market: Circuits with Class; Interval Integration; Water Walk 101; Strong, Stretched & Senior. Take home four complete programs and ideas for getting started...successfully!

### Upper Body, Core & More

Heat up your shallow water classes with an array of upper body and core training applications. Learn how to apply fun, force and function to basic arm patterns building progressions for all goals and abilities. Next, explore how to integrate unilateral and bilateral upper body moves and impact variations for core training benefits. Finally, put it all together with and without equipment for endless combinations.

Aquatic programming accommodates beginner lessons that graduate to higher levels of intensity and skill. The following provides a snapshot of popular aquatic fitness programs:

- ***Finning:*** This active swimming program requires training fins or flippers and utilizes fitness lap lanes of a pool. The kicking and pulling enhances conditioning and toning.
- ***Scuba and Snorkeling:*** These lessons are growing in popularity (possibly due to the increase of environmental professions) and typically start in swimming pools.
- ***Scuba Rangers:*** Scuba and snorkeling skills are taught to kids 8 to 12 while using underwater flashlights, navigation compasses, and underwater photography.
- ***Underwater Hockey:*** According to USOA Underwater Hockey, "The pool should be 25-meters by 15-meters and two-meters deep all the way across, but anything will do, even slopes (just change ends at half-time). Lead weights and three meters of rope can be used as goals, though the sound of the puck thunking into the back of a metal goal is very satisfying and should be experienced."
- ***Water Polo:*** Dimensions of a water polo pool are not fixed and can vary between 20 by 10 and 30 by 20 meters. Minimum water depth must be at least six feet. The goals are three meters wide and 90 centimeters high.

- **Kayak Polo:** This sport involves water polo being played from kayaks. According to Carolina Kayak Polo, “It is difficult to describe the passion and excitement that is created when a kayak water polo game is in progress. The participants—speeding the length of the pool weaving through the opponent’s lines of defense and spinning in their kayaks to receive a pass—create a fast and thrilling event.”
- **Water Basketball:** Ideated in 1986 by Italian teacher, Francesco Rizzuto, this sport is a mixture of basketball and water polo. When designing a pool, full court water basketball is more challenging when tile lines are encrypted into the floor of the pool.
- **Water Volleyball:** Portable and floatable aqua water volleyball sets come complete with two net positions, two anchor bags, and a staked floating perimeter boundary.
- **Triathlons:** These athletic competitions, which the contestants compete in three different events to find the best all-around athlete, typically consist of swimming, cycling, and running.
- **Kayak and Canoe Clubs:** Due to the popularity of Extreme Sports, kayak and canoe clubs are growing in popularity and use large pools for training.

Swim lessons, lap swimming, water jogging, deep-water aerobics, lifesaving instruction, diving lessons, survival swimming, synchronized swimming, water polo, underwater hockey, and scuba instruction can take place in a competitive/lesson/training pool, which frees up the recreation pool for swimmers who want to use the play features. Fitness classes are usually offered in the morning, at lunchtime, and in the early evening. Instructor information and/or training can be acquired through organizations such as the Arthritis Foundation; American Red Cross; Aquatic Exercise Association; American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); and United States Water Fitness.

### Vertical Aquatic Programs

Vertical Aquatic Programming allows the participant to gain many of the benefits of aquatic exercise without putting their face in the water. It is a valuable tool for health and wellness and an effective segue for learning to swim for adults who have a fear of the water.

Program Name	AI CHI BABY	A community partnership – sponsorships possible
Staff requirements	Training & Certification	Total Aquatic Programming
Clients served	Women / prenatal	
Pool needs	Water Temp - 87 to 89 degrees	Classroom & water components
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	
Schedule	12-week course	3 times a year

Program Overview:

**Mission:** Exercise - Nutrition - Support -

**Strategy:** Offer education and support to the teen Mom to Be

**Objectives:**

- To learn about the components of exercise
- To offer education about nutrition & exercise

- To learn how to relax into a deeper connection to yourself, your body, and your baby through prenatal visualization and relaxation exercises.
- To offer an unconditional environment to ask those questions you are afraid to ask

The water is a medium to facilitate bridging the gap from having a person being a victim to a person being a survivor. When a person becomes physically fit as well as emotionally fit, you start to see life in that person. Water is a medium to facilitate creating awareness for the "whole person". A person needs energy to survive, if you are not fit physically and emotionally, you will not have enough energy to be the person you want to be.

The components of this program are to address the mother's physical and emotional health and wellness. The Ai Chi Baby program will introduce reflection and self-observation. Physical and emotional change is very difficult for all ages. Using water movements to relate to real life makes the program very inclusive. The program offers a way to bring the young mom's fragmented life together by integrating mental and physical energy. The program also helps develop the person's self-confidence and self-esteem.

Program Name	Ai CHI Preparing	Adult water acclimation and Learn to Swim
Staff requirements	Training & Certification	Total Aquatic Programming
Clients served	Adults	
Pool needs	Water Temp - 87 to 89 degrees	Classroom & water components
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	
Schedule	Monthly fee – CAAP Membership based	Perpetual

**Program overview:**

Ai Chi Preparing is a systematic approach to introduce FEEL for the water to help overcome FEAR of the water.

“If adults do not trust the water – their children will not trust the water.”

Create awareness for the adult population of non-swimmers who have avoided the water because of fear. Adults who do not know how to swim or who are not comfortable in water cannot access the health benefits of water therapy or water recreation. The best instructor is one who is always seeking out ways to help their clients. We must realize “there is always another way” to accomplish goals.

Before anyone can trust water to support them, their mind and body needs to be in a relaxed state. Ai Chi Preparing is a tool that will help the client get out of the fight or flight response.

Program Name	Aquatic Therapy	Outsourced – pool rental
Staff requirements	Licensed Aquatic Therapist	ATRI - APTA
Clients served	All ages and stages	
Pool needs	Water Temp - 90 to 92 degrees	
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	

Schedule	Contract water rental	
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**Program overview:**

Physical Therapy and Rehabilitation Programs (water rental basis to independent therapist or medical group - conducted in smaller programming pool. The purpose of aquatic physical therapy is to hasten the rehabilitation process through the use of the physical properties of water, improve client's ability to perform daily activities, and provide a safe environment for learning therapeutic exercises.

Aquatic physical therapy programs can include the following:

- Initial physical therapy evaluation
- Individualized aquatic physical therapy exercises and manual techniques
- Weekly reassessment to assure progression towards client's goals
- Discharge instructions for progression to a continuum membership-based aquatic program.

Program Name	S.A.F.E. (Swim & Fitness Exercise)	Community program for all ages
Staff requirements	LTS instructor / water exercise coach	Total Aquatic Programming
Clients served	Can be develop for all ages & abilities	
Pool needs	Water Temp – 84 to 89 degrees	Classroom & water components
	Pool Access – Pool stairs or ramp	
	Water depth – 42" to 48"	
Schedule	Monthly fee	Perpetual

**Program Overview:**

S.A.F.E Programs (swim and fitness exercise) is a monthly fitness and fun program. Designed, Developed & Delivered to different age groups. The program can be implemented for any age. This program focuses on teaching and coaching an individual (of any age) to be safer in and around water as well as assisting the client's fitness levels to maintain an independent lifestyle. The S.A.F.E. has classroom and water components

**Mission:** Introduction to water and fitness exercise for any age of individual

**Strategy:** to educate and empower the individual by trained staff

**Objectives:**

- To teach individuals with challenges how to be comfortable and safer in the water. It takes endurance and muscle strength to accomplish most swimming skills.
- To keep the individuals engaged in a fun way to learn to swim and offer water exercise in a form of vertical exercise and/or water games
- This type of program will assist the individual in maintaining their fitness levels to live a better life on land

Program Name	The Aquatic Ripple Program	Individuals with Challenges
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Staff requirements	Water Exercise Coach	Total Aquatic Programming
Clients served	Children / Young Adults / Adults	All ages and abilities
Pool needs	Water Temp – 84 to 89 degrees	
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	
Schedule	Monthly fee	Perpetual

**Program Overview:**

The Ripples program is part of the S.A.F.E. Curriculum. This program is not a learn- to -swim program, although we do use some of the techniques in our swim and fitness program. At the younger ages parents are part of the program. Using a play base format when working with children improves the outcomes.

Program Name	The F.I.N.E. Adult Program (Fitness is Nutrition & Exercise)	Vertical Water Exercise for Adults
Staff requirements	Water Exercise Coach	Total Aquatic Programming
Clients served	Adults	All ages and abilities
Pool needs	Water Temp – 84 to 89 degrees	Classroom and water components
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	
Schedule	Monthly fee	Perpetual

**Program Overview: F.I.N.E. WATER EXERCISE PROGRAM FOR ADULTS**

**PURPOSE:**

- To educate individuals regarding nutrition & exercise. Empower a person to take charge of their life through aquatic intervention.
- Is to build a bridge between the community, the health providers, and your Water Wellness Program.

**Target Population:** Individuals looking to maintain and/or improve their fitness levels

Program Name	Managing Chronic Pain via Water Intervention	Water Exercise for Adults Young and Old
Staff requirements	Water Exercise Coach	Total Aquatic Programming
Clients served	Adults	All ages and abilities
Pool needs	Water Temp – 84 to 89 degrees	
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	
Schedule	Monthly fee	Perpetual

**Program Overview:**

Chronic Pain Education & Support via “water exercise intervention”

**Objectives: Objective – Chronic Pain and Exercise**



- Cost-effective pain management
- Self-Care management for acute flare up associated with FMS
- Or other chronic pain conditions
- Transition into an independent management program

**Strategy:** Using classroom and water to educate and inform how to provide self-management techniques via different water exercise modalities

Program Name	Aquatic Specialty Programs	Vertical Water Exercise
Staff requirements	Water Exercise Coach	Total Aquatic Programming
Clients served	Young Adults / Adults	All ages and abilities
Pool needs	Water Temp – 84 to 89 degrees	
	Pool Access – Pool stairs or ramp	
	Water depth – 42” to 48”	
Schedule	Monthly fee	Perpetual

### Specialty Programs through the year to offer:

#### The Water Exercise Clubs

- The Aqua Biking Club
- The Water Walking Club
- The Aqua Back Hab Club

#### Bringing Water Programs together to develop the exercise and fitness culture

- Fin Fun Meets
- The Otter Walk (fundraising)
- The F.I.N.E. Angels Program
- Family Night Swims

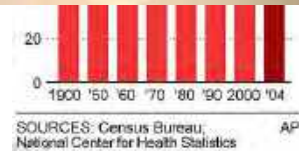
### Aquatic Physical Therapy

Aquatic therapy is rehabilitation performed in warm water and involves physical activity of exercise and motion in the presence of a licensed aquatic physical therapist. Warm water may increase the dynamics of blood pressure and blood and lymph circulation as well as decreasing swelling in skin and other tissues.

Participation in an aquatic therapy program offers improvement in:

- Overall health and fitness
- Stretching capacity
- Range of motion
- Movement capabilities
- Coordination
- Physical stamina and endurance
- Swimming skills, safety, and abilities

Though many people who use aquatic therapy are enthusiasts of meditation or massage, some are looking for rehabilitating or improving a certain level of health. The Aquatic Exercise



Association certifies instructors to teach Arthritis Foundation Arthritis Programs. Many participants in these programs report reduced arthritis symptoms, including increased mobility and decreased pain and stiffness.<sup>5</sup> New studies by the Aquatic Exercise Association suggest that the management of bone density can be facilitated by water exercise.<sup>6</sup> When moderate exercise is recommended for obese patients, the low-gravity qualities of aquatic therapy can be very appealing to this user group. Over the past several years, water exercise programs have multiplied in health clubs, pain clinics, and hospitals. Users include:

- **Injured Athletes:** Athletic trainers and sports medicine physicians are prescribing aquatic therapy as a rehabilitative/preventive fitness program.
- **Post-Operative Patients and the Disabled:** Includes patients with physical ramifications such as spinal dysfunctions, post-operative muscle toning, injuries, and arthritis.
- **Arthritis Sufferers:** The Arthritis Foundation certifies instructors to teach arthritis exercises such as Rusty Hinges and Joint Effort.
- **Agging Baby Boomers:** Some 70 million strong, “boomers” invented the fitness movement and show no sign of abandoning it as they age, especially in warm water pools.
- **Obese Patients:** More doctors are prescribing aquatic physical therapy for overweight issues.
- **Pregnant Women:** Effects of the low resistance of water exercise is soothing to this user group.
- **Meditation Enthusiasts:** Fans of mind and body movements enjoy immersing in warm water pools to complete the tranquil state of meditation.

#### Key Components of Aquatic Therapy Centers

Aquatic physical therapy centers are growing in necessity for rejuvenation and social wellness for rehabilitation needs and developmental disorders. Colorful environments and interactive water is a stimulating, effective, and cathartic treatment, while specific design elements are ultimately inspired by the rehabilitative needs of patients. Key components include:

- Warm pool water capability with fast pool turnovers.
- High-quality water chemical treatment systems, including dual sanitization methods and an appropriately designed HVAC/DH system.
- Easy access from the parking lot to the locker rooms, pool deck, and into the pool.
- Ample space in locker rooms and wider pool deck for wheelchairs, walkers, dry and wet equipment, and dry-side therapy.
- In-water amenities such as perimeter railings, aerobic steppers, treadmills, underwater benches, and ramps.
- Flexible pool depths for multiple programmatic needs.
- Aesthetically pleasing and light-filled private spaces.

## Huron-Clinton Metropolitan Authority Facility Review

### Lake St. Clair Metropark Pool



Lake St. Clair Metropark Pool is a large pool billed as “Olympic Sized”. The pool features a shallow area ranging from 4ft. – 6ft. in depth and a diving area that is 12 ft in depth. The pool is currently utilized by the public for recreational open swimming and by many camps during the summer months for recreational swimming.

The shallow area features two waterslides that empty into the pool and large general swimming areas. The diving area features two climbing walls and a floatable play structure. The label as “Olympic Sized” is warranted as the pool is about 50 meters in width however, lane lines are no longer painted on the pool floor as the pool is not utilized for lap swimming.

#### Pool General Information

Swimming Pool Opening	1964 <i>estimated</i> (Boaters, 2020)
Surface Area (Square Feet)	16,838 ft <sup>2</sup> <i>estimated</i>
Perimeter (Linear Feet)	547 ft <i>estimated</i>
Lanes	None
Water Depth (Feet)	3 ft in shallow area, 12 feet in diving well
Pool Volume (Gallons)	755,689 gallons <i>estimated</i>
Flow Rate (Gallons per minute)	2,099 gpm
Turnover Rate (Hours)	6 hours
Average Annual Attendance	50,000 – 60,000



### Observations

The Lake St. Clair Metropark Pool is approaching 60 years of age and shows signs of physical and functional obsolescence. The pool appears to have significant structural issues, and several significant cracks can be seen in the pool shell. From a functional standpoint, the pool caters to the recreational user group, but does not provide the varying amenities and depths that the recreational user group requires. The pool does have the ability to hold other programs, however, the current depths make it difficult to hold anything other than adult programming. The pool depths are not uniform or marked appropriately, indicating that the pool shell has likely shifted over the years.

### Physical Observations

The Lake St. Clair Metropark pool is at least 58 years old and has likely reached the end of its useful life. The pool has significant structural concerns with significant cracking that can be seen in the pool shell, which can indicate damage to the pool shell. According to staff, there may be some water loss issues, but they are not sure where or how much is being lost. Additional investigation is needed to determine the status of the pool shell itself.

The pool has five drains in the diving area and three more in the shallow recreational area. All drains appeared to have Virginia Graeme Baker Act (VGB Act) approved drain covers, however, the drains in the dive area did not appear to be flush against the bottom of the pool floor. This is a serious concern and was brought to the attention of the Metroparks soon after the visit to be corrected.

In addition to the larger items above, the following observations were also made:

1. The facility does not utilize UV disinfection for secondary disinfection.
2. The entire pool surface has significant cracking.
3. One movable ADA lift was observed on site. Since the pool is over 300 linear feet, a secondary means of entry is required.
4. Several depth markers were observed to be damaged.
5. Several of the lifeguard chair seats were significantly corroded.
6. Several pipe hangers in the mechanical room are corroded
7. It was unclear to staff when the last time the waterslides were waxed or refinished. Additionally, the waterslides did not have matching signs at the top and bottom of the

waterslide queue area or a physical barrier restricting entry to the slide when it is closed.

8. The facility is currently utilizing swimming lanes as safety ropes and demarcation lines around the pool.



Pool cracking



Pool drain not flush to pool surface



Damaged depth marker



Corroded lifeguard chair seat



Corroded pipe hanger



Slide entrance and caution cone





Swimming lane line used as safety line



Swimming lane line used as demarcation lines

### Functional Observations

The Lake St. Clair Metropark Pool is currently utilized as a recreational pool for daily pass swimming and by many camps in the area. The pool has several amenities to cater to the recreation user group: two slides, two climbing walls and a floatable play structure. The facility does not currently offer lap swim times, nor is it marked for lap swimming. The facility does provide varying depths that may be utilized by children of different ages; however, it lacks the shallow water that is most comfortable to children 7 years and younger.

### Recreation

The Lake St. Clair Metropark Pool has the following recreational amenities:

- Two water slides (48" requirement)
- Two climbing walls
- Floating play structure
- Open water

While these amenities are recreational in nature, they mainly cater to children 6 – 7 years of age and older. By this age, the average height is 42 – 49 inches (Cincinnati Children's, 2019) which would allow them to stand in the pool at the shallower end with their heads out of the water. They are also able to utilize the water slides at about this age.

While children 6 – 7 years and older may be able to utilize most or all of the recreational amenities, the climbing walls and play structure are both in 12 feet of depth. This depth can be intimidating to patrons of all ages, especially for weak swimmers.

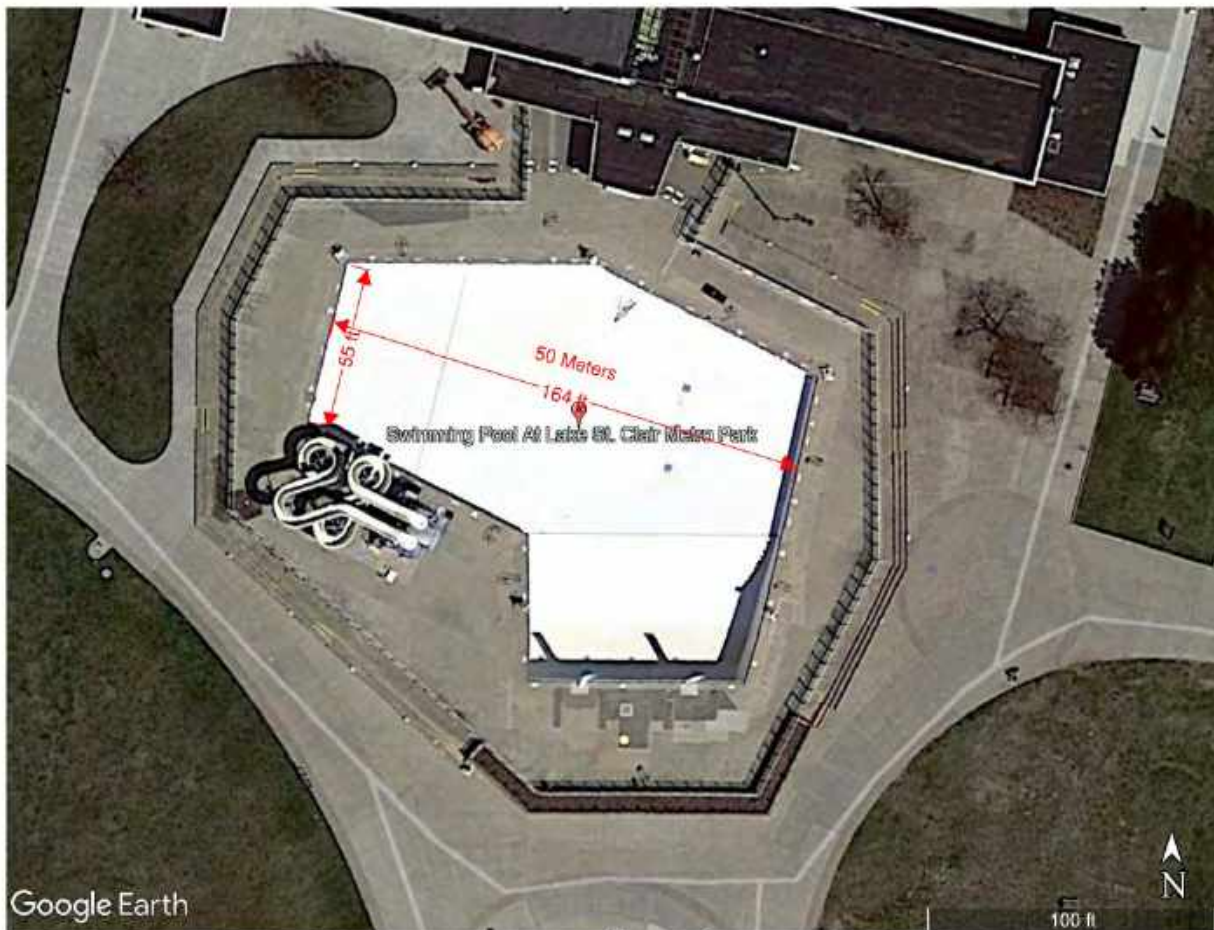
### Competition

The Lake St. Clair Metropark Pool is not currently utilized, not set up for competition swimming. The pool does measure about 50 meters in width. This width is a coveted course length for summer competition swimming as most USA Swimming summer competitions are held in the 50-meter length. Adults, including USA Masters swimmers, also enjoy swimming 50-meter lengths in the summer months.

While the pool does appear to meet length requirements for 50-meter swimming, the pool lacks lane markers and targets at the end of each lane. It appears that some lane attachment



equipment is still available at the pool. If desired, the width of the pool may accommodate anywhere between 5 – 8 lap lanes depending on the desired lane width.



#### *Instruction*

The Lake St. Clair Metropark Pool does not currently provide swim lessons. The pool does have a large open space that would be able to accommodate effective swim lessons, however, its depths may cause difficulty, especially for younger age groups. To accommodate younger children, teaching platforms would need to be used to allow children to stand at a more comfortable depth while waiting for instructions from their swim instructor.

The pool does have appropriate depths for some lifeguard courses and other aquatic sports and activities.

- The American Red Cross Lifeguarding course would likely not be able to be taught in its entirety at this facility as the course requires 7 – 10 feet of depth for some skills. The pool does slope from 6 – 12 feet of depth, but the slope may not provide adequate space for the lifeguarding skills. Other shallow water lifeguarding courses would be able to be taught in their entirety at this facility.
- Scuba classes could be held at the pool. The shallow water is suitable for beginners to get accustomed to the water and equipment in a relatively safe environment, while the

deep water area is appropriate for more experienced divers to practice diving at a deeper depth.

- American Red Cross Water Safety Instructor courses could be held at the facility as the pool does have the appropriate depths needed for the course.
- Water polo or variations of the sport (inner tube polo) could be offered at this facility. Competitions would not be able to be held as the pool does not meet USA Waterpolo depth requirements.
- Other community activities like kayak/canoe training courses, Boy Scouts of America swimming-related badges, and Safety Training for Swim Coaches may be held at the facility depending on the depth requirements for each activity. In most cases, the facility has shallow and deep water to accommodate most activities.

### *Wellness and Therapy*

The Lake St. Clair Metropark Pool does not currently hold fitness or wellness courses, however, it does have the appropriate depths and pool space. The pool depths would accommodate most fitness and wellness courses as most require a minimum depth of 3 feet 6 inches or more, and there is more than enough open pool space for several classes to be held at the same time.

While the pool does meet depth requirements for wellness and therapy courses, there are several attributes of the facility that would make access difficult for some users. Currently, the pool has one ADA pool lift and several ladders to access the pool. While this is acceptable according to pool codes, many users find ladders difficult to use because of the strength required to pull oneself up out of the water. Additionally, many users dislike using pool lifts and would rather enter the water on their own via stairs or a ramp entry.

Lastly, for many wellness and therapy classes, water temperatures are a concern. Fitness classes may be held in pools between 82° F – 87° F, however many wellness classes require water temperatures of 86° and above, and water temperatures below 86° F - 88° F may be too uncomfortable for some users.

### *Recommendations*


The following recommendations were made to address the physical and functional obsolescence observed at the St. Clair Metropark Pool.

#### *Physical Recommendations*

Due to the age of the facility and the potential for catastrophic failure of the pool shell due to the age of the facility, Counsilman-Hunsaker does not recommend pursuing major renovations of the facility. However, if renovations and repairs are desired to keep the facility operating for the next 10 – 15 years, the following are recommended:

- Install UV disinfection – UV systems have become an industry standard for all aquatic facilities that may be considered at an increased risk and require Secondary Disinfection Systems. According to the Model Aquatic Health Code, increased risk facilities are those designed primarily for children under 5 years old or therapy pools. Additionally, pools with interactive water features that spray water are required to have Secondary Disinfection Systems. While the state of Michigan does not require Secondary Disinfection Systems, it is recommended to help make disinfection more effective and improve water quality.

- Slide restoration/Maintenance – this is recommended as an annual item to fix and repair chips or cracks in the slide surface and to rewax or resurface the slide according to manufacturer recommendations.
- Pool Resurface – it is recommended that the pool be resurfaced to fix the major cracks and chips in the pool surface. Prior to the pool being resurfaced, the pool shell may need to be analyzed if water loss is a concern.
- Main Drain Replacement and Pool Shallowing – to ensure the main drains meet VGB Act standards it is recommended that the sumps and covers be replaced. During this replacement, the deep water area may also be shallowed. This would help to re-design and slope the pool floor to allow for VGB Act compliant sumps and covers and could help to create a slightly more comfortable environment for weaker swimmers.
- New Pool Lift – and additional lift or secondary access point is required for ADA access.
- New Tile Markers – replacement depth marker tiles
- Lifeguard chair seat replacements
- Pipe hanger replacements – to replace corroded pipe hangers in the pool mechanical room.
- Waterslide flow meters – it is recommended that waterslides have appropriate flow meters measuring the water flow to the slide flume. This helps to ensure the slide is operating as designed.
- Slide entrance chain and signs – it is recommended that a safety barrier (chain or gate) be installed at the entrance to the slide to indicate the slide is closed when it is not in use.
- Safety line – it is recommended that the lane lines currently used to demark the deep water section and the slide catch pool areas are replaced with safety rope and buoys.

 <b>Counsilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority *PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
ITEM	COST
Lake St. Clair	
UV Disinfection System	\$119,762
Slide Refinish/Maintenance	\$40,000
Pool Resurface	\$780,000
Main Drain Replacement and Pool Shallowing	\$180,000
New Pool Lift	\$22,500
New Tile Markers	\$170 per tile
Lifeguard Chair Seat Replacements	\$350
Pipe Hanger Replacement	\$75 per hanger
Slide Flow Meters	\$3,000
Slide entrance chain and sign	\$100
100' Safety Line	\$600
<i>Pool Subtotal</i>	<b>\$1,146,557</b>

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### Functional Recommendations

Due to the age of the facility, Counsilman-Hunsaker does not recommend major renovations to address the functional aspects of the facility. At best, any major renovations would give the facility another 10 – 15 years of operation, at which time the facility would need to be replaced.

*Immediate Improvement Recommendations*

In order to immediately meet the needs of aquatic user groups, the following recommendations could be considered:


- Competition lane lines – Competition lane lines could be added to accommodate lap swimming. Swim competitions would not be recommended at the facility due to the lack of adequate deck space around the pool and sufficient depths for diving starts.


If the competition user group is to be accommodated, it is recommended that the Metroparks secure multiple swim groups willing to rent and utilize the lanes prior to any renovations.

*Cost - \$86,000 - \$144,000 – includes lanes lines, 2 - 3 storage reels, backstroke flags and stanchions and lane markings. Does not include shipping or installation.*

- ADA stairs – ADA compliant stair systems may be installed for a relatively minimal cost and can be removed if needed or desired by the facility.

*Cost - \$8,000 – Does not include shipping or installation.*

 <b>Councilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority *PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
<u>ITEM</u>	<u>COST</u>
Lake St. Clair	
Competition Lanes (5 lanes)	\$86,000
ADA Accessible Stairs	\$8,000
<i>Pool Subtotal</i>	<b>\$94,000</b>

 <b>Councilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority *PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
<u>ITEM</u>	<u>COST</u>
Lake St. Clair	
Competition Lanes (8 lanes)	\$136,000
ADA Accessible Stairs	\$8,000
<i>Pool Subtotal</i>	<b>\$144,000</b>

## Lake Erie Metropark Great Wave Pool



The Lake Erie Metropark Great Wave Pool is a large wave pool designed and opened in 1982. When constructed, the wave pool was one of the first in Michigan. In the 1980's the pool regularly saw approximately 90,000 visitors annually. In recent years the attendance has dropped to 30,000 – 35,000 visitors annually. The pool features a large zero beach entry area along with a small spray ground section. At the deepest, the pool measures 8 ft. 3 in. in depth. The pool has historically been utilized for recreational swimming and has not offered any additional recreational programming.

The pool is currently in need of major renovations or replacement. The facility was unable to operate in the 2021 and 2022 seasons due to large areas of plaster that had cracked and separated from the pool shell. In the time since the visits were made by Councilman-Hunsaker in 2021, Councilman-Hunsaker was also tasked with an extensive physical audit of the facility to determine what equipment is still in working order and may be salvaged during a major renovation or remodel. A copy of the full report can be found in [Appendix B](#).

### Pool General Information

	Wave Pool	Sprayground
Swimming Pool Opening	1982	2017
Surface Area (Square Feet)	17,100 ft <sup>2</sup>	2,924 ft <sup>2</sup>
Perimeter (Linear Feet)	560 ft	231 ft.
Lanes	None	
Water Depth (Feet)	0 to 8 ft 3 in	0 ft
Pool Volume (Gallons)	453,000 gal	
Flow Rate (Gallons per minute)	1,888 gpm	120 gpm
Turnover Rate (Hours)	4 hours 16 min	
Average Annual Attendance	30,000 – 35,000	





### Observations

The Lake Erie Metropark Great Wave Pool is 40 years old and is likely at the end of its useful life. The pool structure is no longer holding together as intended and requires major renovations to be repaired. Functionally, the pool meets the intended need as designed and is still operating as a wave pool. This function, however, only meets the needs of the recreational user group. Additionally, because of the singular function of the pool, patrons who are not comfortable with the wave action of the pool do not have other amenities to enjoy at the facility. The spray features added in 2017 provide some additional recreational value for children 7 years and younger, but the two amenities are the only available uses for the facility.

### Physical Observations

The Lake Erie Metropark Great Wave Pool is likely at the end of its useful life due to the major renovations needed to continue operation. At the time of the original visit in June of 2021 there were some cracks and chipping of the pool surface, but there was water in the facility, and it appeared that facility staff had repaired the damage. It is evident by the different colors of the pool plaster that several repairs to the pool surface were made over the years. Shortly after the visit, staff found more damage and were unable to operate the pool for the 2021 season.

The following additional observations were made:

1. The facility does not utilize UV disinfection for secondary disinfection.
2. The wave generation equipment is approximately 20 years old.
3. According to staff, the surge tank float valves were not working properly, and the water level in the pool was not regulated as intended.





Visible repairs to the pool surface



Minor cracking and pitting of the pool surface



Pool spray features



Wave generation equipment



Wave pool surge pit

### Functional Observations

The Lake Erie Metropark Great Wave Pool is currently utilized as a recreational pool for daily pass swimming. The pool waves are approximately 3-feet in height, and the facility rents inner tubes to enjoy in the pool on a first come-first served basis. In addition to the wave pool, the facility also has a 2,900 ft<sup>2</sup> spray ground and a large, carpeted lounge area with several large shade structures. The pool provides varying depths from 0 – 8 feet and has a beach entry area as well as a ramp with railings to aid in accessing the pool.

### Recreation

The Lake Erie Metropark Great Wave Pool has the following recreational amenities:

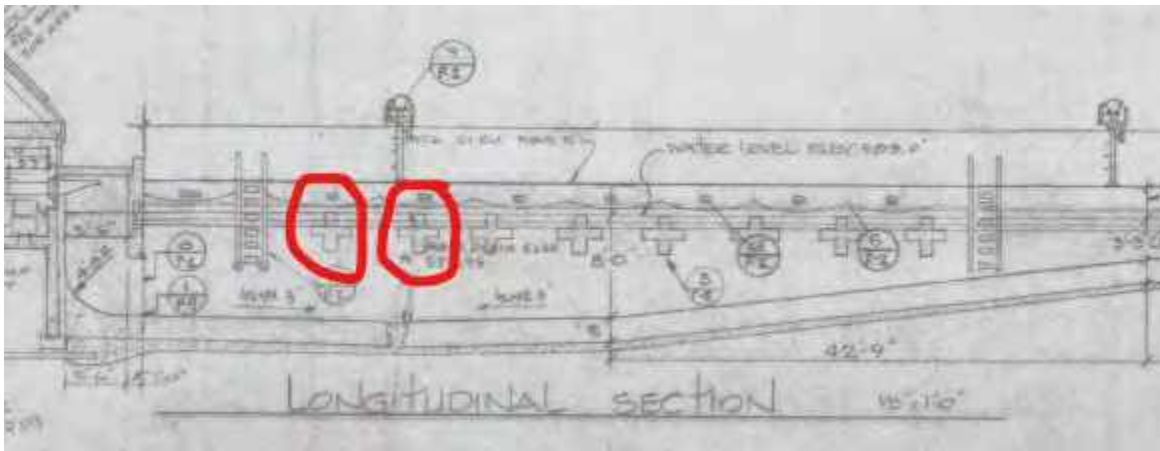
- Beach entry
- Wave action
- Inner tubes (provided by the facility)
- Open water
- Spray features
- Carpeted lounge area

The recreational amenities provided by the facility cater to all age groups, however, the recreational value of the facility is limited. The varying depths provide ease of access and comfortable water depths for all ages and swimmers, but the wave action may be too intense for some patrons to enjoy.

The addition of the spray features provides for more recreational value for younger children and allows for a less intense area where they can play and interact with the water. The large, carpeted lounge area provides a recreation amenity that is often sought after by the 23 and older age groups.

### Competition

The Lake Erie Metropark Great Wave Pool does not currently serve the competition user group. However, it appears that the pool was originally intended to double as a lap swimming space in the 25-meter dimension. The original plans indicate targets for 8 lap lanes, 7 feet wide each. If desired, the wave pool could accommodate lap swimming in the future.



If the competition user group would like to be included in future renovations or new pool designs, the Metroparks should engage area competition groups during any future feasibility processes.

### Instruction

The Lake Erie Metropark Great Wave Pool does not currently provide swim lessons. The pool does have a large open space that would be able to accommodate effective swim lessons, however, the pool's 1:9 slope may make it difficult to hold classes.

The pool does have appropriate depth for some lifeguard courses and other aquatic sports and activities.

- The American Red Cross Lifeguarding course can be taught at this facility. Instructors would need to be aware that the pool is 25 meters wide, not 25 yards.
- American Red Cross Junior Lifeguarding
- Scuba classes could be held at the pool. The shallow water is suitable for beginners to get accustomed to the water and equipment in a relatively safe environment, while the deep water area is appropriate for more experienced divers and to practice diving at a deeper depth.

#### *Wellness and Therapy*

The Lake Erie Metropark Great Wave Pool does not currently hold fitness or wellness courses, but it does have a large open area that could accommodate several fitness class students. While the pool does have a large beach entry and ramp. Neither are ADA accessible, which could make entry difficult for some patrons. Additionally, the pool slopes rapidly from 3'3" to 8'0". This also may make it difficult to hold classes where students need to stand. Alternately there is a large area where deep water fitness classes could be held. Students would either need flotation belts, life jackets, or be able to tread water for an extended amount of time.

The pool could also accommodate patrons that desire to swim laps for fitness and wellness, but not necessarily for competition. The pool does measure 25 meters wide and with proper lane markings the pool could provide general fitness lanes when not operated as a wave pool.

#### Recommendations


The following recommendations were made to address the physical and functional observations at the Lake Erie Metropark Great Wave Pool.

#### Physical Recommendations

Due to the age of the facility and the extent of the existing pool shell and surface renovations needed, an in depth feasibility study would be needed to determine whether the Metroparks should attempt to repair and renovate the existing facility or replace it. If renovations and repairs are desired to keep the facility operating for the next 10 – 15 years, the following are recommended in addition to recommendations outlined in [Appendix B](#).

- Install UV disinfection – UV systems have become an industry standard for all aquatic facilities that may be considered at an increased risk and require Secondary Disinfection Systems. According to the Model Aquatic Health Code, increased risk facilities are those designed primarily for children under 5 years old or therapy pools. Additionally, pools with interactive water features that spray water are required to have Secondary Disinfection Systems. While the state of Michigan does not require Secondary Disinfection Systems, it is recommended to help make disinfection more effective and improve water quality.
- Replace wave generation equipment – The current wave generation equipment is the second generation of equipment at the facility and is approximately 20 years old. While it is still in working condition, it is about at the end of its useful life and should be placed on a replacement schedule.

- Replace surge tank float valves – According to staff the water levels in the pool do not always remain constant, and they suspect that the surge tank float valves are no longer functioning as intended.

 <b>Counsilman - Hunsaker</b> AQUATICS FOR LIFE			
Huron-Clinton Metropolitan Authority		9/10/2021	
*PRELIMINARY Opinion of Probable Construction Cost			
ITEM		COST	
Lake Erie Park Pool			
UV Disinfection System		\$102,286	
Wave Generation Equipment		\$350,000	
Surge Tank Float Valves		\$10,063	
	<i>Pool Subtotal</i>		\$462,348

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### Functional Recommendations


Due to the age of the facility and the extent of the existing pool shell and surface renovations needed, an in-depth feasibility study would be needed to determine whether the Metroparks should attempt to repair and renovate the existing facility or replace it.

### Immediate Improvement Recommendations

In order to immediately meet the needs of aquatic user groups, the following recommendations could be considered:

- Competition lane lines – Competition lane lines could be added to accommodate lap swimming for competitive and recreational use.

*Cost - \$72,000 includes lanes lines, 2 - 3 storage reels, backstroke flags and stanchions and lane markings. Does not include shipping or installation.*

 <b>Counsilman - Hunsaker</b> AQUATICS FOR LIFE			
Huron-Clinton Metropolitan Authority		9/10/2021	
*PRELIMINARY Opinion of Probable Construction Cost			
ITEM		COST	
Lake Erie Park Pool			
Competition Lanes (8 lanes)		\$72,000.00	
	<i>Pool Subtotal</i>		\$72,000

*Willow Metropark Pool*



**Pool General Information**

The Willow Metropark Pool is considered a shallow water “Family Aquatic Center”. The pool features several amenities for various ages and interests. The pool features a beach entry area that brings the depth from 0 to 4 feet in depth as well as a family slide, basketball goals, water volleyball setup, spray features, fitness lanes, bench seating and shade amenities. The pool is currently utilized by the public for recreational open swimming and by many camps during the summer months for recreational swimming.

Swimming Pool Opening	2010
Surface Area (Square Feet)	5,637 ft <sup>2</sup>
Lanes	3
Water Depth (Feet)	0 – 4 ft
Pool Volume (Gallons)	104,552
Flow Rate (Gallons per minute)	901 gpm
Turnover Rate (Hours)	1 hr. (zero depth and plunge), 4 hrs. (lap lanes and rest)
Surface Area (Square Feet)	5,637 ft <sup>2</sup>
Average Annual Attendance	20,000 – 25,000





### Observations

The Willow Metropark Pool is approximately 12 years old and is still in very good condition. The pool did not appear to have any major structural or mechanical repairs needed. Functionally, the pool appears to be able to meet the recreational, instructional and wellness and therapy user groups. The shallow water allows for a comfortable environment for all age groups and minimizes the risks associated with deep water activities. While there are not the high action and intense waterslides that typically attract the 12 – 22 year age groups, the congregation spaces and sport spaces provide amenities that the age group does enjoy.

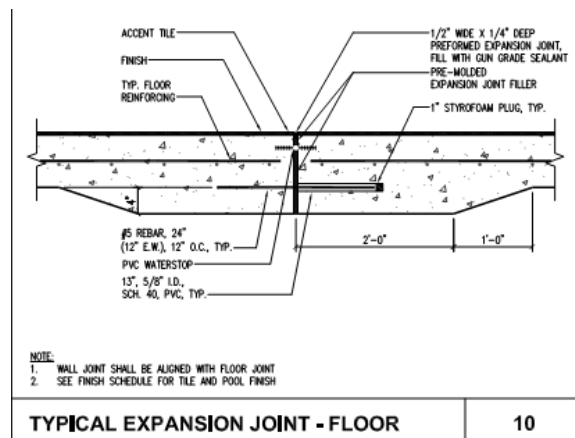
### Physical Observations

The Willow Metropark Pool is just over a decade old and appears to be maintained very well. No significant mechanical or physical concerns were noticed at the time of the visit. The following observations were made and are included in the recommendations for Willow Metropark Pool:

1. The facility does not utilize UV disinfection for secondary disinfection.
2. Some material in the expansion joint that runs the width of the pool between the lap area and the beach entry appears to be corroding and is staining the tile.



Expansion joint staining

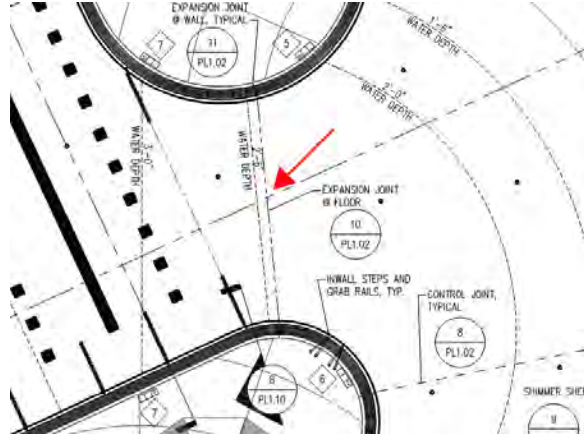


Expansion joint detail





Expansion joint in pool area



Expansion joint on pool plan

### Functional Observations

The Willow Metropark Pool is currently utilized as a recreation pool for daily pass swimming and by camps throughout the summer. The pool has many amenities that cater to the recreational user group but also has amenities and depths that are beneficial and sought out by the wellness and therapy, and instructional user groups.

### Recreation

The Willow Metropark Pool has the following recreational amenities:

- Beach entry
- Family waterslide
- Spray features
- Fitness/lap lanes
- Bench seating
- Two Basketball goals
- Stanchions for volleyball
- Five large shade structures

The amenities provided at the pool cater to all age groups in the recreation user group and meet the definition of a multigenerational “Family Aquatic Center”. Families with small children are drawn to the beach entry, family waterslide, spray features, bench seating and shade structures. Teens and tweens have congregation areas like the open fitness lane area and shade structures and sports features like the basketball goals and volleyball court. Older adults can swim in the fitness/lap lanes, socialize in the bench seating area or under shade structures and enjoy easy access into the water via stairs or the zero-depth beach entry.

### Competition

The Willow Metropark Pool does not currently accommodate competition swimming. While the lap/fitness lanes are 25 yards in length, the availability of 3 lanes in 4 feet of depth does not typically interest the competition user group.

### Instruction

The Willow Metropark Pool does not currently provide swim lessons; however, the pool is perfect for a robust swim lesson program. The pool’s varying depths and play features make it

ideal for younger age groups, and the bench seating area is perfect for staging participants in a comfortable depth as they wait for instructions from the swim instructor. In addition, the lane lines and 25-yard dimensions provide a great environment for higher-level swim classes and stroke training.

The Willow Metropark Pool is appropriate for the following instructional activities:

- American Red Cross Swim Lessons
- American Red Cross Shallow Water Lifeguarding Courses

#### *Wellness and Therapy*

The Willow Metropark Pool does not currently hold fitness or wellness courses but does have the facilities to accommodate most non-deep water fitness courses. The pool meets ADA accessibility guidelines and has an easy beach entry that students can also use. The fitness/lap lane area is a great area to hold classes and the instructor can facilitate from the sizeable deck space.

While the pool could likely not interest the competition user group, it would accommodate patrons that desire to swim laps for fitness and general wellness. The lanes are already designed with lap lane connections, wall targets, and floor lane lines.

#### **Recommendations**

The following recommendations were made to address the physical observations at the Willow Metropark Pool. Functionally, the pool is operating very well and as designed. At this time, there are no functional recommendations for the facility.

#### **Physical Recommendations**

The Willow Metropark Pool is still a fairly new facility and is maintained very well. To continue to provide a healthy swimming environment and to ensure that existing concerns are evaluated, the following are recommended:

- Install UV disinfection – UV systems have become an industry standard for all aquatic facilities that may be considered at an increased risk and require Secondary Disinfection Systems. According to the Model Aquatic Health Code, increased risk facilities are those designed primarily for children under 5 years old or therapy pools. Additionally, pools with interactive water features that spray water are required to have Secondary Disinfection Systems. While the state of Michigan does not require Secondary Disinfection Systems, it is recommended to help make disinfection more effective and improve water quality.
- Engage a structural engineer to assess any damage caused by deterioration at the expansion joint and repair and reseal the expansion joint.



<u>ITEM</u>	<u>COST</u>	
<b>Willow Metropark Pool</b>		
UV Disinfection System	\$102,286	
Expantion Joint Repair		
Structural Engineer Assessment	\$6,000	
Repair and reseal	\$600	
<i>Pool Subtotal</i>		<b>\$108,885.90</b>

The Consultant has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable cost are representative only of the Consultant's judgment as a design professional familiar with the construction industry. The Consultant cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinion of probable costs.

## Summary

Overall, the facilities within the Metroparks charge are maintained very well. Lake Erie Metropark Great Wave Pool and Lake St. Clair Metropark pool are both decades-old facilities showing their age. However, both facilities appear to have been well maintained to continue to operate in some cases with the original equipment. The Willow Metropark Pool is only about 12 years old and is maintained very well.

The following chart describes the general features available at each aquatic facility.



Amenity is available at the facility


Amenity is available to varying degrees

Amenity was originally designed and may be available again with renovations

Features	Lap Lanes	Shallow Water	Diving Area	Bench Seating	Zero Depth	Slide	Play Features	Spray Features
Lake St. Clair Metropark Pool	?	✓	✓			✓	✓	
Lake Erie Metropark Great Wave Pool	?	✓			✓			✓
Willow Metropark Pool	✓	✓		✓	✓	✓	✓	✓


The following recommendations were proposed for the three aquatic facilities in both a physical and functional capacity.

### Physical Recommendations


		
Project Name		
*PRELIMINARY Opinion of Probable Construction Cost		
9/10/2021		
ITEM	COST	
<b>Lake Erie Park Pool</b>		
UV Disinfection System	\$102,286	
Wave Generation Equipment	\$350,000	
Surge Tank Float Valves	\$10,063	
<i>Pool Subtotal</i>	\$462,348	
<b>Lake St. Clair</b>		
UV Disinfection System	\$119,762	
Slide Refinish/Maintenance	\$40,000	
Pool Resurface	\$780,000	
Main Drain Replacement and Pool Shallowing	\$180,000	
New Pool Lift	\$22,500	
New Tile Markers	\$170	per tile
Lifeguard Chair Seat Replacements	\$350	
Pipe Hanger Replacement	\$75	per hanger
Slide Flow Meters	\$3,000	
Slide entrance chain and sign	\$100	
100' Safety Line	\$600	
<i>Pool Subtotal</i>	\$1,146,557	
<b>Willow Metropark Pool</b>		
UV Disinfection System	\$102,286	
Expansion Joint Repair		
Structural Engineer Assessment	\$6,000	
Repair and reseal	\$600	
<i>Pool Subtotal</i>	\$108,885.90	
<b>TOTAL AQUATICS COST ESTIMATE (Inflation &amp; general contractor mark-up not included)</b>		
<b>\$1,717,790.92</b>		
Contingency	20%	<b>\$2,061,349.10</b>
<b>TOTAL AQUATICS COST ESTIMATE</b>		<b>\$2,062,000.00</b>

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## Functional Recommendations

 <b>Councilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority	
*PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
<u>ITEM</u>	<u>COST</u>
Lake Erie Park Pool	
Competition Lanes (8 lanes)	\$72,000.00
<i>Pool Subtotal</i>	\$72,000
Lake St. Clair	
Competition Lanes (5 lanes)	\$86,000
ADA Accessible Stairs	\$8,000
<i>Pool Subtotal</i>	\$94,000
<b>TOTAL AQUATICS COST ESTIMATE (Inflation &amp; general contractor mark-up not included)</b>	
	<b>\$166,000.00</b>
Contingency	20%
	<b>\$199,200.00</b>
<b>TOTAL AQUATICS COST ESTIMATE</b>	<b>\$200,000.00</b>

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 <b>Councilman - Hunsaker</b> AQUATICS FOR LIFE	
Huron-Clinton Metropolitan Authority	
*PRELIMINARY Opinion of Probable Construction Cost	
9/10/2021	
<u>ITEM</u>	<u>COST</u>
Lake Erie Park Pool	
Competition Lanes (8 lanes)	\$72,000.00
<i>Pool Subtotal</i>	\$72,000
Lake St. Clair	
Competition Lanes (8 lanes)	\$136,000
ADA Accessible Stairs	\$8,000
<i>Pool Subtotal</i>	\$144,000
<b>TOTAL AQUATICS COST ESTIMATE (Inflation &amp; general contractor mark-up not included)</b>	
	<b>\$216,000.00</b>
Contingency	20%
	<b>\$259,200.00</b>
<b>TOTAL AQUATICS COST ESTIMATE</b>	<b>\$260,000.00</b>

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## Future Renovation Considerations

When repairing, renovating, or replacing any Metropark aquatic facility, it is recommended that an extensive feasibility process be performed prior to engaging in design of a facility. The feasibility process should perform the following tasks:

- **Needs analysis** — a workshop protocol with community representatives to develop a list of priorities for the facility's uses and objectives
- **Analysis of existing providers** — research and analysis to determine the existing level of service at area facilities and the perceived need for the proposed facility
- **Market analysis** — an analysis of age groups, population density, incomes, and user groups to project attendance, fee schedules and appropriate programming
- **Facility concepts** — conceptual drawings and descriptions indicating a solution to accommodate the desired programming elements
- **Construction cost estimates** — itemized, site-specific cost projections for the "bricks and mortar" of structures and mechanical support equipment
- **Project cost estimates** — total costs including construction, site development and contingencies
- **Revenue and expense projections** — calculations based on the gathered data and analytical research; opinions of financial performance (e.g., positive, or negative cash flow)
- **Sources of funding** — a discussion of possible options to fund the facility
- **Design program analysis** — based on the conceptual designs, a more detailed assessment of the construction materials, techniques and specific equipment recommended for the proposed facility.

## Aquatic Feasibility Study Approach



### *Needs Assessment*

- Evaluate area providers
- Research area demographics
- Identify user groups
- Identify potential community partners
- Site analysis



### *Facility Program & Space Requirements*

- Develop schematic design options for programming
- Develop project cost estimates
- Confirm potential partnerships



### *Operations & Business Plan*

- Opinion of revenue
- Opinion of operating expenses
- Determine cash flow

### Infrastructure Priority Recommendations

Lake Erie Metropark Great Wave Pool and Lake St. Clair Metropark Pool are both passed their useful life and should be planned on being replaced within the next 10 – 15 years at the latest. Lake Erie Metropark Great Wave Pool has seen significant structural issues over the past few years and has not operated over the past few seasons. For these reasons, the Lake Erie Metroparks Great Wave Pool may need to be replaced more immediately.

When considering replacements for the Great Wave Pool or the Lake St. Clair Metropark Pool, the following design program considerations should be made based on the findings in the “State of Swimming” Report and the Metroparks Swim Program's overall goals to improve swimming ability and water competence within the Southeast Michigan Region. Additionally, specific infrastructure recommendations were desired with the ability to support accessible and inclusive swim programming. The following recommendations are categorized into High and Low Priority recommendations.

**High Priority** – meet the goals and objectives of improving swimming ability and water competence within the Southeast Michigan Region, and they meet the needs and desires identified by the community in the Public Swimming Survey.

**Low Priority** – Additional features that may add value to the aquatic center, but do not necessarily meet specific needs outlined in the swim program or survey results.

### High Priority Recommendations

The following recommendations are considered High Priority as they meet the goals and objectives of improving swimming ability and water competence within the Southeast Michigan Region, and they meet the needs and desires identified by the community in the Public Swimming Survey.

1. Indoor Aquatic Facility – Having an indoor aquatic facility that is owned and operated by the Metroparks would meet many of the goals of the Swimming Program and would provide a year-round “base” to conduct trainings and ready staff for the summer season. An indoor year-round aquatic facility meets the following needs:
  - a. Provides a facility that most people tend to frequent. In the survey, 67% of respondents swim at recreation centers or health clubs. Only lakes and ponds ranked higher at 70%.
  - b. Meets 5 of the top 6 items that would [increase respondent's participation](#) in swimming. More indoor swimming pools was 4<sup>th</sup> at 10%.
  - c. Meets goal #1 in the [Staffing](#) category for the Swim Program. Action item #2 is to find year-round facilities to partner with to offer training with the goal of the Metroparks becoming a training hub for the SE Michigan area. A year-round facility would allow the Metroparks to regularly hold training programs that would increase the ability of the Metroparks to staff their facilities and also provide trained staff for other aquatic facilities in the region. Additionally, a year-round facility could meet Action Item #5 by working with the American Red Cross to host IT academy trainings to provide more instructors and instructor trainers to the region.
  - d. Would provide a year-round location to offer low or no-cost swim lessons – working toward the goals of increasing water competency and swimming ability in the SE Michigan youth.

2. Recreation pool with various depths and amenities – Whether indoor or outdoor, a recreation-based pool with various depths and amenities would provide opportunities to meet virtually all goals of the Swim Program. Survey respondents who stated that they are afraid of the water or have a fear of drowning state that swimming is a pleasant way to cool down on a hot day and spend time with family and friends. Recreation pools with comfortable amenities and access points can help to make swimming more accessible to those that are currently afraid of the water or afraid of drowning. The recreation pool should include the following amenities:
  - a. Zero-depth or beach entry – this amenity provides easy access to the pool and provides a depth profile that usually ranges from 0 – 3.5 feet before getting into deeper areas of the pool. This profile makes it ideal for all community members, including non-swimmers who are still interested in the water and aquatic programs, to access the pool comfortably and safely.
  - b. Lap/Fitness Lanes – this space is generally between 3.5 – 4.5 feet deep to accommodate fitness programs, wellness programs, swim lessons and can serve as additional lane space for lap swimming or during competitions.
  - c. Ramp/Stair Access – These ingress and egress amenities make access to the pool easier for all users. Ramp entries, when designed properly, will meet ADA requirements as an accessible means of entry and exit.
3. Competition Pool/Training Lane Space – Lap Swimming tied for #2 in the “very interested” category for swimming programs in the 5-county area. Competition pools not only provide lane space for lap swimming and competitive swimming, but also provide open space for other deep water programs like kayak lessons, adult swim team swimming, lifeguard and water safety training and deep-water exercise classes.

The size required for a competition pool depends on the community supporting the pool and the programs that will be held at the pool. Community size, participating swim team size(s), and number of swimmers expected during prime-time swimming are all factors that go into sizing a facility. Unfortunately, this is too specific to be identified in this report but is part of the feasibility study process and would be identified prior to starting the design of the facility. The graphic below outlines how competition pools are generally sized due according to demographics.



## Low Priority Recommendations

The following recommendations are considered Low Priority as they may add value to the aquatic center. However, they do not necessarily meet the goals and objectives of improving swimming ability and water competence within the Southeast Michigan Region or the needs and desires identified by the community in the Public Swimming Survey.

1. Single purpose pools, or pools with minimal programming potential – Pools or aquatic features that have a single purpose and provide limited programming potential do not meet the needs of the swimming program goals and objectives. They may help to add recreational value and support the business of operating the aquatic center. Examples of these amenities include:
  - a. Wave pools – wave pools can now be engineered in shallower water to allow for additional programming, but this must be identified early in the design process. Traditionally, wave pools provide a more singular recreational use and can be too intense for some users. Wave pools are great capacity holders that can add attendance and revenue to the facility.
  - b. Spas/Hot tubs – spas and hot tubs meet the needs of the older populations and the wellness and therapy group but are generally too small to offer much value to other user groups.
  - c. Spraygrounds – spraygrounds are great features that provide play value for younger children without adding additional staff costs, as they do not need to be lifeguarded. Spraygrounds however do not offer any standing water and do not help to improve swimming and water competency.
2. Recreational features – recreational features provide value and “wow” factors for the users and help to drive revenue and attendance goals, but do not meet the goals of increasing swimming competency and ability within the region. They may help attract patrons to the facility that may not otherwise attend, introducing them to the programs and offerings of the facility. Examples of these features include:
  - a. Waterslides – Waterslides are great amenities that provide recreational and play value, but do not meet the goals of increasing swimming competency and swimming ability in the region. Waterslides provide an attractive recreational amenity that may bring additional users to the facility.
  - b. Artificial surf machines – these amenities are popular amongst the tween and teen age groups, but do not have enough standing water to provide swim instruction or aquatic training.
  - c. Current channels – these amenities meet the needs of the recreational and wellness user groups and can be used for water walking and general recreation, but are too small to hold swim lessons or other classes.
  - d. Play structures – play structures are usually designed within zero beach entry areas and are great for younger children and families. The amenities are highly sought after for aquatic centers, but do not specifically meet the needs of improving swimming ability and water competency.

This is not an exhaustive list of all pools or aquatic amenities but illustrates the need for extensive planning and community participation to ensure that the features and design of a new aquatic center will meet the needs of the community and the Metroparks.



# Swimming Program Goals and Action Plan

Once the information was gathered that makes up the “State of Swimming” report, Councilman-Hunsaker and the Metroparks shared the information with the Steering Committee to gather their thoughts and input and to create a list of goals and objectives related to the information gathered and the overall goal of improving swimming ability and water competence within the Southeast Michigan Region.

Councilman-Hunsaker offered suggestions regarding goals and objectives and first presented them to the committee over two meetings on November 17 and 18, 2021. At the meeting, Councilman-Hunsaker presented the “State of Swimming” report and the proposed goals and objectives to gather feedback from the group. Along with input from the committee, the following goal categories were created:

- Swimming Ability
- Water Competence
- Participation
- Program Focus Areas
- Staffing
- Raise Awareness of Inequities
- Current Facility Improvements

Along with each goal category, the committee proposed several goals. Each category and goal is expanded upon in the following sections. The chart below shows all 7 categories and the associated goals.

HCMA Swim Program Goals						
Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
90% of children can stop/exit the water on their own by age 9	Water safety taught in most schools	Increase access to scholarship programs	Increase vertical swim programs	Develop Metroparks training hub in SE Michigan <ul style="list-style-type: none"> <li>○ Look for partners in all 5 counties</li> </ul>	Develop a SE Michigan Aquatics Board	Lake St. Clair improvements
Add open water swimming to competency list – more than 70% swim in lakes/ponds	Develop relationships with schools	Provide no/low-cost swim lessons		Get more area entities to submit for American Red Cross IT Academics	HCMA Marketing Department – Raising Awareness campaign	HCMA Aquatics Master Plan
		Acquire corporate sponsorships to fun program		Investigate transportation program to parks for training or staffing		Improvements for area facilities
		Investigate transportation programs (low priority)				
		Expand the “Swim in the D” program to more than 2 days				

Once the goals and objectives were agreed upon by the Steering Committee, a list of action plan items related to each goal was created. The action plan items long and short-term steps the Metroparks and partners can take to achieve the goals outlined in the program. Additionally,



Councilman-Hunsaker has included special action item considerations for some goals that may help to enhance the action steps and reach each goal.

HCMA Swim Program Goals						
Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
<b>Action Plan</b>						
Secure funding to expand the "Swim in the D" program.	Develop a list of schools/districts that are interested in swim instruction or swim safety curriculums.	Secure funding to expand the "Swim in the D" program.	Train instructors in other fitness modalities.	Register HCMA with the American Red Cross as an LTP. <ul style="list-style-type: none"> <li>Swim Instruction</li> <li>Lifeguard Training</li> </ul>	Develop marketing collateral for swimming campaign.	Lake St. Clair <ul style="list-style-type: none"> <li>Main drain renovations</li> <li>New pool lift</li> <li>Ramp/zero depth entry</li> <li>Bench seating</li> <li>LIV disinfection</li> <li>Lap lanes</li> </ul>
Expand "Swim in the D" program to continue year round.	Identify areas in school curriculums that can support swim safety training.	Expand "Swim in the D" program to continue year round.	Identify a spectrum of programs that meet facility specs.	Find year-round facilities to partner with an offer training. <ul style="list-style-type: none"> <li>Could be part of the "Swim in the D" Program.</li> </ul>	Create collateral that can be utilized by all swim facilities in the region.	Jake Erie <ul style="list-style-type: none"> <li>LIV disinfection</li> </ul>
Expand the program into the community: <ul style="list-style-type: none"> <li>Apartments</li> <li>Water fronts</li> <li>Metropark Pools</li> <li>Partner facilities</li> </ul>	Identify after school programs interested in participating.	Identify after school programs interested in participating.	Utilize outside vendors/contractors for some programs.	Create a "Junior Guard" program.	Utilize stats from annual/semi-annual swim program survey.	Willow Metropark Pool <ul style="list-style-type: none"> <li>LIV disinfection</li> </ul>
Create a process for annual/semi-annual swim program survey to track swim ability changes.	Provide in-class training collateral.	<b>Considerations:</b> Work with a sponsorship consultant to assist in acquiring corporate sponsorships.	Create a program plan for new programs and profitability goals.	Create an in-house training program within HCMA. <ul style="list-style-type: none"> <li>Lifeguarding</li> <li>Swim Instruction</li> </ul>	Create news media package.	Acquatics Master Plan: <ul style="list-style-type: none"> <li>Identify funding</li> <li>Issue RFP</li> <li>Create plan</li> </ul>
Submit course records for each swim session taught.	Provide pool session time changes.		Work with American Red Cross/HCMA/partners to host IT academy trainings.	Work with American Red Cross/HCMA/partners to host IT academy trainings.	Advertise in schools, radio, local news stations to coincide with "Swim in the D" program sign-ups.	Anna facilities: <ul style="list-style-type: none"> <li>Renovations or new facilities should start with feasibility/programming process</li> <li>Amenities should reflect goals of the facility/users</li> <li>Emphasize amenities that meet multiple-user groups</li> </ul>
<b>Considerations:</b> Register HCMA with the American Red Cross swim instruction program.			<b>Considerations:</b> Create marketing plan for social media marketing. <ul style="list-style-type: none"> <li>TikTok</li> <li>Instagram – reels <ul style="list-style-type: none"> <li>@Fch2e</li> <li>@Roundrocklifeguards</li> <li>@Newbraunfelsaquatics</li> </ul> </li> </ul>		Expand the "brand" of "Swim in the D" to other area providers.	<b>Considerations:</b> Consider creating a funding/grant program through the SE Michigan Aquatics Board.
					Create a process for partnerships.	

## Swimming Ability

### Goals

There are two goals related to Swimming Ability in the Southeast Michigan Swim Program.

- Goal 1. 90% of children can stop and exit the water on their own by age 9.**
- Goal 2. Add open water swimming to competency list.**

Increasing the swimming ability of children and citizens in the Southeast Michigan area is a top priority of the Swimming Program. The Public Swimming Survey found that children in SE Michigan households become more proficient as they age. This was to be expected; however, it appears that after the ages of 10 – 13 years, improvements in swimming ability tend to level off.

According to the data gathered in the survey, the ability of children to be able to enter and exit the water on their own tops out at the age of 9. 83% of respondents said their children can enter and exit the water on their own at that age. However, out of those only about 20% of people who are Black reported that their children can stop, turn around and swim towards the exit of the water on their own. This is a key safety skill taught in virtually all swim lesson curricula.

CHILDREN'S SWIMMING ABILITY BY AGE						
	< 4	4-5	6-9	10-13	14-17	18+
Can enter and exit the water on their own	54%	73%	83%	83%	83%	83%
Can put their entire head under the water on their own	41%	57%	73%	78%	82%	82%
Can stop, turn around and swim towards the exit of the water	17%	39%	64%	72%	77%	78%
Can float on their stomach or back, or tread water for about 1 minute	13%	27%	54%	69%	78%	81%
Can swim the length of a 25 yard pool without a life jacket	8%	10%	40%	73%	86%	88%
None of the above	40%	17%	7%	2%	1%	3%

\* Percentages total more than 100% because of multiple responses to the first 5 questions in the table.

The survey also found that 70% of swimmers used lakes and ponds to swim. This beat out all other categories of places people swim. Because of the number of people that swim in open water areas and the overall number of open water areas there are to swim at in Michigan, it made sense to add a goal of addition open water swimming to the list of skills the Swim Program would like to teach citizens of Southeast Michigan. By adding this skill as necessary for water competency, it will also be included in future surveys.



PLACES PEOPLE SWIM	
	% of respondents
Lake or pond	70%
Swimming pool at a recreation center (Local government or private health club, YMCA, etc.)	67%
Swimming pool when we travel (Hotel, condo, etc.)	55%
Swimming pool at a residence (House, apartment, condo, town house)	31%
High school or college	28%
River	13%

### Action Plan

In order to meet the goals outlined in the Swimming Ability category, the committee has agreed upon the following action items:

- Action Item 1. Secure funding to expand the “Swim in the D” program**
- Action Item 2. Expand “Swim in the D” program to continue year-round**
- Action Item 3. Expand the program into the community to apartments, waterfronts, Metropark pools, and partner facilities.**
- Action Item 4. Create a process for annual/semi-annual swim program survey to track swim ability changes**

Expanding the funding for the “Swim in the D” program will help with action item #2 and will allow for more children to take part in the program, which help to reach the goal of 90% of children able to stop and exit the water by age 9. Currently the “Swim in the D” program is offered only during the summer months, taking the program year-round would help to increase the number of children who are able to take part in the program and could also allow children to stay in the program longer which would help to increase their swimming abilities. Expanding the program to other community venues would serve two purposes. One, the program could be offered in more places that are closer to the students that need the services. Two, by also offering lessons at waterfronts, participants’ knowledge of natural bodies of water and their ability to swim safely in them can increase. Lastly, by creating a regular process for implementing subsequent swim surveys, the Metroparks can track their progress for completing each goal and modify or create new goals if necessary.

### *Special Considerations*

In addition to the above action plan items, Councilman-Hunsaker recommends that the Huron-Clinton Metroparks or other agencies that might provide swim lessons register as a Licensed Training Provider (LTP) of Learn-to-Swim programs with the American Red Cross. Additionally, course records should be entered to document swim lessons that were taught by the LTP organizations. In the future, this documentation may help reach other goals by:

1. Providing documentation enabling Water Safety Instructors to apply to become Water Safety Instructor Trainers.
2. Providing documentation on swim lesson offerings, opening the opportunity for funding through the American Red Cross Centennial Campaign.

### *Potential Partners*

The following partners could provide resources or assistance with the goals and action plan:

- HCMA
- Detroit Riverfront Conservancy
- City of Detroit
- American Red Cross
- Detroit Public Schools Community District
- Boy Scouts – To provide waterfront facilities
- YMCA - To provide waterfront facilities
- DNR/Belle Isle & Pontiac Lake
- Wayne County/Chandler Park Aquatic Center
- Oakland County Parks
- Rutherford Pool (Ypsilanti)
- Aqualyfe

## **Water Competency**

### *Goals*

Two goals are related to Water Competency in the Southeast Michigan Swim Program.

- Goal 1. Develop relationships with Southeast Michigan Schools**
- Goal 2. Have water safety programs taught in most schools**

Water competency means being able to anticipate, avoid, and survive common drowning situations, as well as recognizing and aiding those in need (U.S. Consumer Product Safety Commission (CPSC), 2020). To be able to increase water competency in the Southeast Michigan area, the committee felt the best way would be to develop relationships and partnerships with local schools to the potential for water safety and swim lessons taught at the grade school level. In addition to grade school, water safety programs, lifeguard training, and swim instructor training at the high school level could serve two purposes, One, to increase water competency in the high school age group, and two, to assist the region with training new lifeguards and instructors for area aquatic facilities.

There are already programs in other communities around the country that can serve as a model. The following are some examples:

#### [City of Manistee, Michigan](#)

The City of Manistee Police Department, along with the Great Lakes Water Safety Consortium and local schools, presented water safety information to students in first through 11<sup>th</sup> grade.

<https://www.manisteenews.com/news/article/Manistee-police-team-up-to-help-prevent-student-17203599.php>

#### [Marysville Public Schools, Michigan](#)

Rotarians from the Marysville Rotary Club read “Josh the Baby Otter” to 1<sup>st</sup> grade students at Morton Elementary and Washington Elementary.

<https://www.voicenews.com/2022/05/31/marysville-rotary-brings-lifesaving-message-of-josh-the-baby-otter-to-first-graders/>

#### [Glen Rose ISD, Texas](#)

The Somervell County Safety Coalition in partnership with Glen Rose ISD presented a Water/Summer safety day at Glen Rose Elementary. The presentations discussed safety tips for a number of activities including boating safety and wearing lifejackets.

<https://www.yourglenrosetx.com/2022/05/13/scsc-grisd-team-up-to-teach-water-safety-other-skills/>

#### [McDonald County School District, Missouri](#)

Bog Elk Floats and Camping in Pineville hosted a program at the Elk River to present water safety information to almost 400 students from third to eighth grades.

[https://www.joplinglobe.com/news/local\\_news/mcdonald-county-students-learn-river-safety-tips-ahead-of-summer/article\\_90f5d04a-d888-11ec-ac11-afa0bcbfe2d9.html](https://www.joplinglobe.com/news/local_news/mcdonald-county-students-learn-river-safety-tips-ahead-of-summer/article_90f5d04a-d888-11ec-ac11-afa0bcbfe2d9.html)

#### [Hermiston School District, Oregon](#)

The Hermiston School District offers free swim lessons for second graders at the Hermiston Family Aquatic Center. Over 350 students from five elementary schools participated in 2022. The program is taught over 5 lessons with the first class lasting two hours.

[https://www.nbcrightnow.com/news/hermiston-second-graders-can-learn-to-swim-for-free/article\\_335f881a-dca0-11ec-963d-8fe88efca9d3.html](https://www.nbcrightnow.com/news/hermiston-second-graders-can-learn-to-swim-for-free/article_335f881a-dca0-11ec-963d-8fe88efca9d3.html)

## High School Lifeguard Training Programs

There are several high school swim programs currently operating around the country. The lifeguard program is offered over a semester with students earning a PE credit in addition to certifications. In many instances, this long-form setting can help students who might not otherwise pass a traditional shorter lifeguarding course, especially those students who need additional training and help with basic swimming skills.

[https://www.aquaticsintl.com/lifeguards/how-high-school-lifeguarding-curricula-may-supply-the-answer-to-recruitment-woes\\_o](https://www.aquaticsintl.com/lifeguards/how-high-school-lifeguarding-curricula-may-supply-the-answer-to-recruitment-woes_o)

<https://www.nrpa.org/parks-recreation-magazine/2016/june/swimatx-an-innovative-lifeguard-training-program/>

<http://www.thevillagernewspaper.com/2019/02/18/inaugural-aquatics-lifeguard-training-class-has-three-rrhs-students-earn-certifications/>

### Action Plan

In order to meet the goals outlined in the Water Competence category, the committee has agreed upon the following action items:

**Action Item 1. Develop a list of schools/districts that are interested in swim instruction -or- swim safety curriculums**

**Action Item 2. Identify areas in school curriculums that can support swim safety training**

**Action Item 3. Identify after-school programs interested in participating**

**Action Item 4. Provide in-class training collateral**

**Action Item 5. Provide pool session time**

In order to meet the goals under Water Competency, a step-by-step process was proposed. Action items 1 – 3 could potentially happen simultaneously. Once the schools and after-school or other programs are identified, one or several water safety training programs can be implemented depending on the needs of each school. Stop Drowning Now is an organization that provides curriculum information and collateral to educators for free on their website.

Additionally, to provide some hands-on practice and experience, pool session times will need to be secured and coordinated in areas that will make sense geographically with each school program.

### Potential Partners

The following partners could provide resources or assistance with the goals and action plan:

- HCMA
- Detroit Riverfront Conservancy
- City of Detroit
- [Stop Drowning Now](#)
- Detroit Public Schools Community District
- Ja'Von Waters - Aqualyfe



- American Red Cross (Whale tales, CPR)

## Program Participation

### Goals

There are five goals related to Participation in the Southeast Michigan Swim Program.

- Goal 1. Increase access to scholarship programs**
- Goal 2. Provide no/low-cost swim lessons**
- Goal 3. Acquire corporate sponsorships to fund program**
- Goal 4. Investigate transportation programs**
- Goal 5. ~~Expand the “Swim in the D” program to more than 2 days per week~~**

One of the goals the Metroparks felt was important to the program from the beginning was to encourage program sign-ups in targeted populations and geographic areas. This led to the Participation category and related goals. The goals identified would all currently serve the “Swim in the D” program and expand the participation in the program.

Goal #5 is currently being accomplished in 2022 with classes offered several days throughout the week.

### Action Plan

In order to meet the goals outlined in the Participation category, the committee has agreed upon the following action items:

- Action Item 1. Secure funding to expand the “Swim in the D” program**
- Action Item 2. Expand “Swim in the D” program to continue year-round**
- Action Item 3. Identify after-school programs interested in participating**

In order to increase access to the “Swim in the D” and scholarship programs, the Metroparks would need to secure additional funding to expand the program. This additional funding was part of the action items in the Swimming Ability category and would help to also increase participation.

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### EXAMPLE PROGRAM

*Greensboro Aquatic Center in Greensboro, North Carolina. The Greensboro Sports Council announced the Matt Brown Learn-to-Swim Endowment in 2017 with the goal of raising enough money to fully fund the Learn-to-Swim program annually.*

*The Learn-to-Swim program’s goal is to teach every second-grade child in Guilford County public schools to swim. The county has over 5,600 2nd-grade students, and the annual cost to run the program is estimated to be \$230,000. According to the Greensboro Aquatic Center website, current funding levels allow for about 23% of the second graders to participate.*

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Action items 2 and 3 are part of Swimming Ability and Water Competence, and also would help to increase participation in swimming programs. After-school programs that may be interested in participating in water safety programs, may also be interested in swim lessons for their students. Transportation programs would need to be harnessed to transfer students from schools or afterschool sites to pools and aquatic facilities. It did not appear that lack of transportation was a major issue for most other swim participants, as the survey found that only about 1% of respondents did not have reliable transportation to swimming opportunities in the area.

### *Special Considerations*

In addition to the above action plan items, Councilman-Hunsaker recommends working with a local sponsorship consultant to assist in acquiring corporate or private sponsorships.

### *Potential Partners*

The following partners could provide resources or assistance with the goals and action plan:

- HCMA
- Detroit Riverfront Conservancy
- City of Detroit
- American Red Cross
- USA Swimming Foundation
- Sport Ability – RIM
- Detroit Public Schools Community District
- Detroit Swims (YMCA)

## Program Focus Areas

### *Goals*

The Program Focus Area category refers to focusing on specific aquatic programs to assist in increasing participation in aquatics throughout the Southeast Michigan area.

#### **Goal 1. Increase “vertical” or alternate swim and aquatic programs.**

The swim survey identified about 9% of respondents that did not identify themselves as swimmers, but do enjoy water exercise. Of those respondents, 29% were Detroit residents, 34% were Black, 31% were people of color, and **46% were those afraid of the water or had a fear of drowning**. These figures make it clear that there is a whole population of potential users that are interested in the water, but for programs other than traditional swimming.

### *Action Plan*

In order to meet the goal of increasing “vertical” or alternate swim and aquatic programs, the committee has agreed upon the following action items:

- Action Item 1. Train instructors in other fitness modalities**
- Action Item 2. Identify a spectrum of programs that meet facility specs**
- Action Item 3. Utilize outside vendors/contractors for some programs**
- Action Item 4. Create a program plan for new programs and profitability goals**

To be able to provide alternative programs, aquatic facilities will need to either train their current instructors in other fitness modalities and programs and/or utilize outside vendors to provide programs. In the [Wellness and Therapy](#) user group section [Aquatic Exercise Trends](#) has examples of several aquatic exercise programs and [Vertical Aquatic Programs](#) have examples of programs geared specifically towards those that want to keep their face out of the water and may have a fear of the water.

### *Potential Partners*

The following partners could provide resources or assistance with the goals and action plan:

- HCMA
- Sports Ability – RIM
- Ja’Von Waters - Aqualyfe

## Staffing

### *Goals*

There are three goals related to the Staffing category in the Southeast Michigan Swim Program.

**Goal 1. Develop Metroparks in a training hub in SE Michigan**

**a. Look for partners in all 5 counties**

**Goal 2. Get more area entities to submit for American Red Cross IT Academies**

**Goal 3. Investigate transportation programs to parks for training or staffing**

As discussed in the [Staffing Challenges](#) section of the [Challenges and Barriers for Swim Instruction and Water Competence Programming](#) section, the Southeast Michigan region as a whole shares the same current difficulties with staffing as does the rest of aquatics in the United States along with other industries. The goals agreed upon by the committee assist in creating more opportunities for training and build a larger competent aquatic workforce in the Southeast Michigan area.

### *Action Plan*

In order to meet the goals outlined in the staffing category, the committee has agreed upon the following action items:

**Action Item 1. Register HCMA with the American Red Cross as an LTP**

- Swim Instruction
- ~~Lifeguard Training~~

**Action Item 2. Find year-round facilities to partner with and offer training**

- Could be part of the “Swim in the D” Program.

**Action Item 3. Create a “Junior Guard” program**

**Action Item 4. Create an in-house training program within HCMA**

- Lifeguarding
- Swim Instruction

**Action Item 5. Work with American Red Cross/HCMA/partners to host IT academy trainings**

The Metroparks is already registered with the American Red Cross as a Licensed Training Provider for the American Red Cross Lifeguard Program. As such, part of Action Item 1 is already complete. In addition to registering as a Lifeguard program LTP, the Metroparks can register as a Learn to Swim LTP if and when Metroparks staff start to offer swim lessons.

In addition to being a training provider, the Metroparks may partner with area facilities to offer year-round Lifeguard Training or Swim Instruction. Offering additional classes and certifications could potentially serve as an expansion of the “Swim in the D” program.

As the Metroparks increases its training capabilities, they should work with local partners and facilities to host American Red Cross Instructor Trainer (IT) Academies. Red Cross Instructor Trainer Academies are training programs offered by the American Red Cross to certify seasoned instructors in the skills required to train American Red Cross Instructors. This training course is only offered through the American Red Cross and is offered in areas where there are enough local instructors who have applied for the course. An IT Academy has not been offered in the Southeast Michigan Area in several years because there have been very few applicants applying to the program from the area. As the Southeast Michigan Area trains new instructors, those instructors can then in turn apply to the IT Academy. Once enough have applied, the Metroparks can work with other area partners to find facilities to host IT Academies. This constant circulation of training new instructors helps to ensure adequate staffing for all aquatic facilities in the area.

### *Special Considerations*

In addition to creating a robust training program and establishing the Metroparks as a training hub in the area, Councilman-Hunsaker recommends that the Metroparks create a marketing plan for social media marketing to attract potential employees. Organizations that have year-round established social media campaigns tend to be able to attract employees easier and have a regular pipeline of applicants. It is recommended that the Metroparks concentrate on social media outlets that are popular within the 15 – 21-year-old age group, who make up the majority of lifeguards. Currently, those platforms are TikTok and Instagram, however, they are likely to change regularly. The following Instagram accounts are recommended examples:



[@Fbh2o](#)



[@Roundrocklifeguards](#)



[@Newbraunfelsaquatics](#)

### *Potential Partners*

The following partners could provide resources or assistance with the goals and action plan:

- HCMA

- American Red Cross
- SJ Aquatics

## Raising Awareness of Inequities

### Goals

There are two goals related to the Raising Awareness of Inequities category in the Southeast Michigan Swim Program.

**Goal 1. Develop a SE Michigan Aquatics Board**

**Goal 2. HCMA Marketing Department – Raising Awareness campaign**

In order to continue the process that this Swimming Program Development Plan has started and to continue to raise awareness of the inequities in swimming in the region the goals of creating a Southeast Michigan Aquatics Board and a specific marketing campaign by the Metroparks were agreed upon by the committee. The Southeast Michigan Aquatics Board would help to consolidate the needs and goals of all aquatic facilities in the Southeast Michigan area and serve as an advisory board for the continuation of the Southeast Michigan Swimming Program.

### Action Plan

In order to meet the goals outlined in the staffing category, the committee has agreed upon the following action items:

- Action Item 1. Develop marketing collateral for swimming campaign.**
- Action Item 2. Create collateral that can be utilized by all swim facilities in the region.**
- Action Item 3. Utilize stats from annual/semi-annual swim program survey**
- Action Item 4. Create news media package**
- Action Item 5. Advertise in schools, radio, local news stations to coincide with “Swim in the D” program sign ups.**

The Metroparks currently assist in marketing the Swim in the D program at the start of the summer; however, additional marketing throughout the year should be considered. This is especially important as the program expands into a year-round program. Additionally, the Metroparks can develop marketing collateral for the Swim in the D campaign. The additional marketing items can be housed online and available to any entity that would like to use them. The items should speak to the specific inequities that are apparent in the aquatic industry and in the Southeast Michigan area. As additional surveys are performed to update the benchmarks established during this process, the marketing collateral can utilize these updated stats.

In addition to collateral available to swimming facilities, news media packages can be created to assist the media in stories related to drownings, swimming, or water safety. Once these are created, they can be ready to send to news outlets as new stories emerge.

Lastly, the Metroparks should continue its advertising campaign to coincide with Swim in the D program signups, especially as it expands year-round. As the Metroparks advertise for the Swim in the D program, it should continue to advertise the statistics and facts regarding the

inequities in swimming and how the City of Detroit, the Metroparks and its partners are helping to improve equality.

### *Considerations*

In addition to the above action plan items, Councilman-Hunsaker recommends expanding the “brand” of the Swim in the D program to allow other area providers to “sponsor” the program by advertising materials on the inequities in aquatics and by providing their own low or no cost swim programs. To do this, it’s recommended that the City of Detroit and the Metroparks work to create a process for additional partnerships that may help to expand the Swim in the D brand, without a monetary donation to the City of Detroit.

### *Southeast Michigan Aquatics Board Members to Consider*

- Michigan Recreation and Park Association
- Ja’Von Waters - Aqualyfe
- SJ Aquatics
- Lynda Jeffries
- Katie Kowalski – Huron-Clinton Metropolitan Authority
- David Pitts
- Sheldon Spillor
- Douglas Brooks
- Miklos Valdez – Councilman-Hunsaker

### *Potential Partners*

The following partners could provide resources or assistance with the goals and action plan:

- Diversity in Aquatics
- International Water Safety Foundation
- American Red Cross
- Swim lesson providers
- Zac Foundation

## Improvements to Current Facilities

### *Goals*

There are three goals related to the Improvements to Current Facilities category in the Southeast Michigan Swim Program.

**Goal 1. Current HCMA facility improvements**

**Goal 2. HCMA Aquatics Master Plan**

**Goal 3. Improvements for area facilities**

The goals related to current Metroparks facilities can also be found in the [Huron-Clinton Metropolitan Authority Facility Review](#). In addition to the current facility improvements, several of the facilities are aging and should be considered for replacement. Since there are several facilities that would require replacement, and the Metroparks are considering how best to meet the goals of the Southeast Michigan Swimming Program Plan, the Metroparks should also consider conducting a system-wide Aquatics Master Plan. This master plan will consider Metroparks’s goals and objectives for the future of its aquatic program and provide recommended facilities and amenities to meet those goals. Additionally, the master plan will

consider how the facilities work as a system to complement each other and work with the other area providers so as not to duplicate offerings. Lastly, other area facilities may use the recommendations in this report when considering new facilities or improvements to their own facilities.

### *Action Plan*

In order to meet the goals outlined in the staffing category, the committee has agreed upon the following action items:

#### **Action Item 1. Lake St. Clair**

- **Main drain renovations**
- **New pool lift**
- **Ramp/zero depth entry**
- **Bench seating**
- **UV disinfection**
- **Lap lanes**

#### **Action Item 2. Lake Erie**

- **UV disinfection**

#### **Action Item 3. Willow Metropark Pool**

- **UV disinfection**

#### **Action Item 4. Aquatics Master Plan:**

- **Identify funding**
- **Issue RFP**
- **Create plan**

#### **Action Item 5. Area facilities:**

- **Renovations or new facilities should start with feasibility/programming process**
- **Amenities should reflect goals of the facility/users**
- **Emphasize amenities that meet multiple user groups**

All of the current Metropark facilities can benefit from secondary disinfection systems like UV. While Lake Erie and Willow Metropark pool have spray features that necessitate secondary disinfection systems, Lake St. Clair does not. However, secondary disinfection systems help with overall water quality and can assist in disinfection after an accidental fecal release. In addition to secondary disinfection, Lake St. Clair Metropark pool has several additional items that would help to make it a more attractive pool for all user groups.

As repairs and renovations get underway, it is also recommended that the Metroparks perform an Aquatic Master Plan to plan for the future of its aquatic programs. A single facility feasibility study can cost anywhere between \$30,000 and \$50,000 or more depending on the scope of the study. Similarly, systemwide master plans tend to cost \$120,000 or more depending on scope.



As area organizations bring on new facilities or renovate existing facilities, a feasibility study should be part of the process. This study will help to identify and reflect the goals of the facility and its users so the facility can be better designed to meet those goals. Additionally, facilities can emphasize amenities that will meet the needs of multiple user groups to allow for comprehensive aquatic programming.

### *Special Considerations*

During committee meetings, it was discussed that many regional organizations do not have the funds to adequately maintain their facilities. As a result, pools fall into disrepair and are taken off-line. To help mitigate this, a grant program through the future Southeast Michigan Aquatics Board could be established to provide capital funding for maintenance at area facilities.

### *Potential Partners*

The following partners could provide resources or assistance with the goals and action plan:

- HCMA
- SE Michigan Aquatics Board

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# Appendix A: SE Michigan Swimming Program Survey Full Report

## **HURON-CLINTON METROPARKS**

### **5-COUNTY RECREATION SURVEY**

*Prepared by:*

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**October 2021**

## TABLE OF CONTENTS

Background.....	1
Key Findings.....	3
Conclusions & Recommendations.....	6
Swimming background / Swimming ability.....	8
Children living in the household?.....	10
Children’s swimming ability by age.....	10
Frequency of swimming.....	12
Places people swim.....	14
Reaction to places to change clothes.....	15
Importance of swimming to household members.....	17
Interest in learning to swim / Improving swimming ability.....	18
What people enjoy about swimming / What might interest non-swimmers.....	20
Interest in swimming programs in the 5-county area.....	21
Reaction to swimming opportunities in the area.....	24
Feeling welcome / Safety / Comfort at swimming venues.....	26
Increasing participation in swimming.....	28
Demographics.....	30
Appendix A – Survey instrument	

## BACKGROUND

This report presents the findings of a survey of residents of Livingston, Macomb, Oakland, Washtenaw, and Wayne counties on behalf of the Huron-Clinton Metropolitan Authority (HCMA). The survey is part of a HCMA swimming programming plan in coordination with partner recreation programs in the 5-county area with the goal of enticing non-swimmers to begin to swim and to improve the swimming ability among people who already swim. A vital concern of the plan is to address people's fear of the water and of drowning. The plan is being completed by Counsilman-Hunsaker, a consulting firm that specializes in aquatics. The survey was managed by Left Brain Concepts, Inc., a Denver-area research firm.

The survey determined 5-county area residents':

- ✓ Background in swimming
- ✓ Among adults and children who swim:
  - Their swimming ability
  - How frequently they swim
  - Where they swim
  - The importance of swimming relative to other activities
  - Their interest in improving their swimming ability
  - The benefits they receive from swimming
- ✓ Interest among non-swimmers and their children in learning to swim
- ✓ Among non-swimmers, the benefits of swimming that might appeal to them
- ✓ Swimmers' and non-swimmers' interest in potential swimming programs
- ✓ Barriers to increasing swimming activity because of:
  - Limited access to swimming facilities
  - High or unacceptable fees at water venues
  - Insufficient number of instructors at water facilities
  - Limited staffing at water venues
  - Fear of being in the water
  - Fear of being on the water in boat, canoe, or kayak
  - Feeling unwelcome at water venues
  - Unsafe conditions at water venues
- ✓ The things that would increase peoples' swimming activity
- ✓ Demographics

### Survey distribution

The survey was conducted electronically from early July through September 2021. The survey was publicized extensively by HCMA throughout the 5-county area. Specifically, HCMA distributed a flyer with a QR code that linked to the survey to Metroparks and other swimming and recreation facilities and at libraries and community centers; a link to the survey was placed on Huron-Clinton Metroparks' webpage; a press release was sent to all media in the 5-county area; the survey was publicized on eight of HCMA's social media posts with a link to the survey; yard signs with QR codes were placed at all Metroparks locations and community partners; stories about the survey were written and published in local newspapers; hard copies of the survey were made available to recreation-related organizations in the 5-county area; the survey was regularly publicized to all Metroparks staff; the survey was announced in the July, August and September Metroparks e-newsletter to its 80,000 subscribers; an article was published in the Detroit News and C&G Newspapers about the initiative and survey.



Electronic-only surveys

Electronic-only surveys for local government have become very common, especially on surveys that guide recreation planning. While community surveys are still conducted by mailing to every nth (or every) household in a jurisdiction, electronic-only surveys are being used more and more. That is because that while there is no more defensible methodology than mailing surveys to a random sample of households in a community, many people who do not have an interest in recreation do not respond to Postal Service surveys. Thus, a strong argument can be made that the respondents to an electronic-only survey publicized by the local government is the same as with a mailed survey.

Survey management

The survey was managed by Left Brain Concepts, Inc., a Denver-area market research and marketing consulting firm. Results were compiled, analyzed and this report prepared by Left Brain. The survey was written by Left Brain, Councilman-Hunsaker and senior staff at the Huron-Clinton Metropolitan Authority.

Data analysis

As is common in survey research, the distribution of population from the six geographies in the survey was adjusted to mirror the actual population distribution, based on the 2020 census as shown below. This was done to assure that the results of the survey are representative of people in the 5-county area.

	<b>2020 census</b>	<b>Percent</b>
Livingston	193,866	4%
Macomb	881,217	20%
Oakland	1,274,395	28%
Washtenaw	372,258	8%
Wayne – Other	1,154,450	26%
Wayne – Detroit	639,111	14%
Total	4,515,297	100%

A total of 1,010 surveys were completed. The maximum margin of error for a sample of 1,010 is  $\pm 3.1\%$  at the 95% level of confidence. Responses to the survey were analyzed by the following variables.

- ✓ Six areas of residence – 5 counties and residents of Detroit
- ✓ Households with and without children
- ✓ Gender
- ✓ Race
- ✓ Household income
- ✓ Swimming background (1) Afraid of the water and/or concerned about drowning, (2) never swam or swam years ago, (3) people who splash around in the water, (4) swimmers
- ✓ People who do not swim in either warm or cold weather months vs. all others

## KEY FINDINGS

**Swimming background / Swimming ability:** The top three responses were that people swam competitively in high school, college or beyond (38%), that people are casual, recreational swimmers (33%) and that respondents are more serious but still recreational swimmers (27%). There were many responses from casual swimmers; 17% said they splash around in the water, 11% engage in water exercise programs, and 8% said they exercise in the water for physical therapy. The survey also attracted responses from people who swam years ago but are not currently swimming (8%), area residents who are concerned about the possibility of drowning (8%), those who have never swam (3%), people who are scared to death of the water (1%) and people who once were concerned about the possibility of drowning but are no longer concerned (1%).

As was expected at the beginning of this initiative, residents of Detroit, people of color – especially Blacks, are less proficient swimmers than people in other demographics.

**Children living in the household:** About half (56%) of the respondents have children living with them. The remaining 44% do not.

**Children's swimming ability by age:** As would be expected, swimming proficiency increases as children get older. Proficiency particularly increases from ages 4-5 to 6-9. Another big increase occurs from 6-9 to 10-13. There is considerably less improvement from ages 10-13 to 14-17 and from 14-17 to children 18 and older.

**Frequency of swimming:** Not surprisingly, people swim more in warm weather months than during cold weather months. For example, for those who swim 1-3 times a month, 32% swim in warm weather months but only 15% swim in cold weather months. But the differences were not as stark among people who swim one to three times a week (35% warm weather vs. 27% cold weather) and those who swim 4-7 times a week (22% warm weather vs. 15% cold weather). The percentage of people who do not swim at all is much higher in cold weather months (43%) than warm weather months (11%).

Detroit residents, people of color – especially Blacks, and people in lower income households swim less than people in other demographics.

**Places people swim:** The most frequented are lakes and ponds (70%), pools at recreation centers and health clubs (67%) and pools at hotels and condos when people travel (55%). Less used are pools at private residences (31%), pools at high schools or colleges (28%) and rivers (13%).

**Reaction to places to change clothes:** Only 36% are satisfied with places to change clothes, places to shower (31%) and places to secure valuables (30%). Amenities people would like to see added are lockers (47%), places to change clothes (41%) and showers (39%). About a third (38%) reported they go to swimming venues in their swimming attire.

**Importance of swimming to household members:** Swimming is the most important recreational activity for 29% of families, tied for the most important for 33%, and an occasional activity for 27% of the households. Swimming is less important to people of color, especially Blacks, than people in other demographics.

**Interest in learning to swim / Improving swimming ability:** About two-thirds (69%) of the adults reported that they are very or somewhat interested in learning to swim or improving their swimming abilities. The percentage of combined very and somewhat interested increases to 77% for interest in having their children learn to swim or improve their swimming ability.

Detroit residents, people of color, especially Blacks, are more interested in their learning to swim than people in other demographics.

**What people enjoy about swimming / What might interest non-swimmers:** The things that people enjoy about swimming that reached a 60% or higher mention were that swimming is good for cardiovascular fitness (70%), that it provides a total body training (66%), that swimming is a relaxing and peaceful form of exercise (66%), that it is good for stress relief (64%), that it provides a pleasant way to cool down on a hot day (61%), and that swimming has less joint impact and stress (60%). But only 35% noted that water is easily accessible to them at pools, beaches, lakes, and rivers.

People who are afraid of the water and/or have a fear of drowning were more likely than avid swimmers to state that swimming provides a pleasant way to cool down on a hot day, and, that swimming is a pleasant way to spend time with family and/or friends.

**Interest in swimming programs in the 5-county area:** People were given a list of 18 existing or potential programs and asked to rate their level of interest. The programs that received ratings of very interested of 25% or more were water exercise (34%), water yoga classes (33%), lap swimming (33%), child lessons (32%), water therapy & rehabilitation (28%), receiving education in water safety (27%), kayak lessons (26%), and adult swim team swimming (25%).

The demographic groups that are more interested in many of the existing or potential programs are residents of Detroit, people of color – especially Blacks, people in lower income households, those who are afraid of the water and/or have a fear of drowning, and those who do not swim or rarely swim.

**Reaction to swimming opportunities in the area:** The top three responses were that hours at swimming venues do not work into people's schedules (34%), water venues are too far from their homes for them to participate (28%) and fees at water venues are higher than people want to pay (27%). These sub-questions were deliberately posed with a negative slant. Thus, it should be interpreted that hours at swimming venues **do** work into people's schedules (66%), water venues are **not** too far from people's homes for them to participate (72%) and fees at water venues are **not** higher than people want to pay (73%).

**Feeling welcome / Safety / Comfort at swimming venues:** People were given seven questions and asked to respond on a scale of strongly agree, somewhat agree, somewhat disagree, and strongly disagree. When combining responses of somewhat disagree and strongly disagree, negative ratings ranged from 8% to 15% for five of the seven issues queried. Respondents disagreed the most that swimmers are respectful of others at swim venues (23%) and that people swim safely for themselves (24%).

**Increasing participation in swimming:** People were asked on an open-ended basis the things that would increase their participation in swimming. Twenty-six things were mentioned by at least 1% of respondents. The top six were closer water venues (20%), offering adult swim lessons (13%), more lap swim times (11%), more indoor swimming pools or the ability to use pools at high schools (10%), expanding hours at swimming facilities (9%), and lower fees (9%).

### **Demographics**

**Adults & children in the household:** Half (49%) of the respondents are part of households that have two or more adults and children, 31% of the households represented have two or more adults with no children, 14% were single adults with no children and 6% were single adults with children.

**Gender:** Most (70%) of the respondents were women, 29% were male and 1% identify themselves as non-binary.

**Race / Ethnicity:** Four in five (79%) of the respondents were Caucasian, 12% were African American, 3% were of multiple races, 3% were Hispanic or Latino, and 2% were Asian or Pacific Islander.

**Household income:** One in ten (11%) of the respondents reported household incomes of under \$50,000, 35% noted incomes of \$50,001 to \$99,999 and 54% indicated household incomes of \$100,000 or more.

**Contact information:** A total of 327 people provided their contact information. Five of these gave only their email addresses. The sub-sample of 327 represents 32% of the 1,010 respondents to the survey.



## **CONCLUSIONS & RECOMMENDATIONS**

### **Representative sample**

The survey generated a representative sample of residents in the 5-county area, including residents of Detroit. While respondents' area of residence was adjusted to the 2020 census, this is very common in survey research. Also, while surveys more specific in nature such as recreation always attract people who have an interest in the topic as opposed to surveys that assess delivery of all government services, HCMA's survey successfully attracted avid swimmers to non-swimmers including people who have a fear of water and/or a fear of drowning.

There was also the concern that the surveying process would not generate a sufficient sample size to be representative of residents of the 5-county area. And worse, that the process would not generate large enough sub-samples for Left Brain to determine if there are differences in views of swimming in demographic groups. However, HCMA's efforts to publicize the survey generated sufficient total sample and sub-samples of people in all five counties, Detroit, people of color, low income households, people with and without children, and again, a range of experience, ability, and interest in swimming.

### **Including all demographics**

Another concern in this survey was that even if the target demographics were brought into the survey, that they would not be interested in swimming. That did not turn out to be the case either. While some people might have expressed an interest in swimming programs because they might feel it was the right thing to say – like making New Year's resolutions – that is not the situation either because there was a wide range of percentages of people's stated interest in swimming programs.

### **Baseline data**

Because of the two issues above and because of the number of questions posed on the survey, the survey delivered one of the objectives of the survey of generating baseline data on swimming. The survey determined adults' and children's swimming ability and finger-on-the-pulse of swimmers and non-swimmers regarding how often people swim, where they swim, the importance of swimming in people's lives, interest in learning to swim or improving swimming proficiency, interest in swimming programs, reaction to swimming venues and suggestions from people as to what would entice them to swim or swim more.

### **Barriers to learning to swim**

For some people in the 5-county area, the barriers to learning to swim of the availability of swimming venues, hours of facilities and interest in swimming will never be overcome. While some people will never be interested in swimming, or other recreation activities for that matter, 69% of the respondents reported that they are very or somewhat interested in learning to swim or improving their swimming abilities. And again, the target audiences of Detroit residents, people of color and specifically Blacks are more interested in learning to swim than people in other demographics.

**Serving swimmers better / Attracting non-swimmers**

There are a number of activities that HCMA can implement that will better serve people who already swim and attract infrequent and non-swimmers.

Based on input of area residents, adding amenities of lockers, places to change clothes and showers will better serve all stakeholder groups.

To reach many people who are afraid of the water and/or have a fear of drowning, making life vests available will entice many to start swimming.

HCMA should offer programming that people stated the greatest interest of water exercise, water yoga classes, lap swimming, child lessons, water therapy & rehabilitation, receiving education in water safety, kayak lessons, and adult swim team swimming. The target demographics of residents of Detroit, people of color – especially Blacks, people in lower income households, those who are afraid of the water and/or have a fear of drowning, and those who do not swim or rarely swim are even more interested in these programs.

**Messaging**

The messaging that will be the most effective in increasing swimming activity are the things that avid swimmers, infrequent and non-swimmers voiced for why they swim and what they feel they would benefit from swimming; cardiovascular fitness, total body training, that swimming is a relaxing and peaceful form of exercise, stress relief and that swimming has less joint impact and stress.

Many people who are afraid of the water and/or have a fear of drowning view swimming as a pleasant way to cool down on a hot day, and that swimming is a pleasant way to spend time with family and/or friends. That is, many infrequent and non-swimmers define swimming more as splashing around in the water where they can stand with their heads above water.

Responding to the concern that some people have about the distance to swimming venues, and, to some extent, people's stated comfort at urban, suburban, and rural swimming sites, the location of swimming venues should be publicized to people in their communities.

**Building on success stories**

HCMA should learn about and build on success stories of other organizations that are also charged with serving swimmers and attracting infrequent and non-swimmers – especially people of color, inner city people and low income people.



## SWIMMING BACKGROUND / SWIMMING ABILITY

*Question: How would you describe your **background in swimming** – either in a pool, lake, river, or pond? (Check all that apply)*

### **Overall findings**

The top three responses were that people swam competitively in high school, college or beyond (38%), that people are casual, recreational swimmers (33%) and that respondents are more serious but still recreational swimmers (27%). However, there were many responses from casual swimmers; 17% said that they splash around in the water, 11% engage in water exercise programs and 8% said they exercise in the water for physical therapy. The survey also attracted responses from people who swam years ago but are not currently swimming (8%), area residents who are concerned about the possibility of drowning (8%), those who have never swum (3%), people who are scared to death of the water (1%) and people who formerly were concerned about the possibility of drowning but are no longer concerned (1%).

### **Differences by demographics**

As was expected at the beginning of this initiative, residents of Detroit, people of color, especially Blacks, are less proficient swimmers than people in other demographics.

#### More Detroit residents

- ✓ Splash around in a pool or body of water – where they can stand with their heads above water (36% Detroit, 14% other geographies)
- ✓ Are concerned about the possibility of drowning (22% Detroit, 5% other geographies)
- ✓ Are scared to death of the water (6% Detroit, 1% other geographies)

#### Fewer Detroit residents

- ✓ Swam competitively in high school, college or beyond (15% Detroit, 41% other geographies)
- ✓ Are more serious but are still recreational swimmers (10% Detroit, 30% other geographies)

#### More African Americans

- ✓ Splash around in a pool or body of water – where they can stand with their heads above water (43% Blacks, 11% Whites)
- ✓ Are concerned about the possibility of drowning (33% Blacks, 3% Whites)

#### Fewer African Americans

- ✓ Swam competitively in high school, college or beyond (9% Blacks, 43% Whites)
- ✓ Are more serious but are still recreational swimmers (9% Blacks, 30% Whites)
- ✓ Swam years ago, but not currently (6% Blacks, 17% Whites)

More people of color

- ✓ Splash around in a pool or body of water – where they can stand with their heads above water (39% people of color, 11% Whites)
- ✓ Are concerned about the possibility of drowning (25% people of color, 3% Whites)

Fewer people of color

- ✓ Swam competitively in high school, college or beyond (19% people of color, 43% Whites)
- ✓ Are more serious but are still recreational swimmers (16% people of color, 30% Whites)

Fewer households with incomes under \$50,000 than \$100,000 or more

- ✓ Swam competitively in high school, college or beyond (22% lower income, 42% higher income)

Differences by gender

- ✓ More men than women swam competitively in high school, college or beyond (53% men, 31% women)
- ✓ More women than men reported they are casual, recreational swimmers (38% women, 21% men)
- ✓ More women than men reported they splash around in a pool or open water – where they can stand with their heads above water (20% women, 9% men)

SWIMMING BACKGROUND / SWIMMING ABILITY	
	% of respondents
I swam competitively in high school, college or beyond	38%
I'm a casual, recreational swimmer	33%
I'm a more serious but still recreational swimmer	27%
I splash around in a pool or open body of water – where I can stand with my head above water	17%
I engage in water exercise programs	11%
I swam years ago but not currently	8%
I exercise in the water for physical therapy	8%
I am concerned about the possibility of drowning	8%
I never have swum, but children who live with me do swim	2%
I never have swum	1%
I'm scared to death of the water	1%
I used to be concerned about the possibility of drowning but am no longer concerned	1%

\* Percentages total more than 100% because of multiple responses.

## CHILDREN LIVING IN THE HOUSEHOLD?

*Question: Do you have children living with you?*

### Overall findings

About half (56%) of the respondents have children living with them. The remaining 44% do not.

### Differences by demographics

- ✓ More people who swim at least once a month through the year have children (58% swimmers, 41% non-swimmers)

CHILDREN LIVING IN THE HOUSEHOLD?	
	% of respondents
Yes	56%
No	44%
Total	100%

## CHILDREN'S SWIMMING ABILITY BY AGE

*Question: Please enter the age for each child and note each child's swimming ability.*

### Overall findings

People who have children living with them were asked to note the swimming ability of their children in six age categories. As would be expected, swimming proficiency increases as children get older. Proficiency particularly increases from ages 4-5 to 6-9. Another big increase occurs from 6-9 to 10-13. There is considerably less improvement from ages 10-13 to 14-17 and from kids aged 14-17 to 18 and older.

### Differences by demographics

#### Fewer African Americans regarding children 6-9 years old

- ✓ Can stop, turn around and swim towards the exit the water (20% Blacks, 75% Whites)

#### Fewer African Americans regarding children 10-13 years old

- ✓ Can float on their stomach or back, or tread water for about 1 minute (53% Blacks, 74% Whites)
- ✓ Can swim the length of a 25 yard pool without a life jacket (12% Blacks, 89% Whites)

#### Fewer people of color regarding children 10-13 years old

- ✓ Can swim the length of a 25 yard pool without a life jacket (26% Blacks, 89% Whites)

CHILDREN'S SWIMMING ABILITY BY AGE						
	<4	4-5	6-9	10-13	14-17	18+
Can enter and exit the water on their own	54%	73%	83%	83%	83%	83%
Can put their entire head under the water on their own	41%	57%	73%	78%	82%	82%
Can stop, turn around and swim towards the exit of the water	17%	39%	64%	72%	77%	78%
Can float on their stomach or back, or tread water for about 1 minute	13%	27%	54%	69%	78%	81%
Can swim the length of a 25 yard pool without a life jacket	8%	10%	40%	73%	86%	88%
None of the above	40%	17%	7%	2%	1%	3%

\* Percentages total more than 100% because of multiple responses to the first 5 questions in the table.



## FREQUENCY OF SWIMMING

*Question: If you swim, how frequently do you swim – either in a pool, lake, river, or pond – in warm weather months?*

*Question: If you swim, how frequently do you swim – either in a pool, lake, river, or pond – in cold weather months?*

### Overall findings

As would be expected, people swim more in warm weather months than during cold weather months. For example, for those who swim 1-3 times a month, 32% swim in warm weather months and 15% swim in cold weather months. However, the differences were not as stark among people who swim one to three times a week (35% warm weather vs. 27% cold weather) and those who swim 4-7 times a week (22% warm weather vs. 15% cold weather). For people who do not swim at all, percentages are much higher during cold weather months (43%) than warm weather months (11%).

### Differences by demographics

#### More Detroit residents

- ✓ Do not swim at all in warm weather months (29% Detroit, 8% other geographies)
- ✓ Do not swim at all in cold weather months (71% Detroit, 38% other geographies)

#### More African Americans

- ✓ Reported that they do not swim at all in warm weather months (38% Blacks, 7% Whites)
- ✓ Reported that they do not swim at all in cold weather months (77% Blacks, 38% Whites)

#### More people of color

- ✓ Reported that they do not swim at all in warm weather months (30% people of color, 7% Whites)
- ✓ Reported that they do not swim at all in cold weather months (65% people of color, 38% Whites)

#### More households with incomes under \$50,000 than \$100,000 or more

- ✓ Do not swim at all during warm weather months (26% lower income, 7% higher income)
- ✓ Do not swim at all during cold weather months (60% lower income, 37% higher income)

#### Differences by gender

- ✓ More women than men reported that they do not swim at all during cold weather months (52% women, 23% men)

<b>FREQUENCY OF SWIMMING</b>	
	<b>% of respondents</b>
<b>Warm weather months</b>	
None	11%
1-3 times a month	32%
1-3 times a week	35%
4-7 times a week	22%
Total	100%
<b>Cold weather months</b>	
None	43%
1-3 times a month	15%
1-3 times a week	27%
4-7 times a week	15%
Total	100%



## PLACES PEOPLE SWIM

*Question: If you swim, please note the places you swim. (Check all that apply)*

### Overall findings

Swimmers' most used waters are lakes and ponds (70%), pools at recreation centers and health clubs (67%) and pools at hotels and condos when they travel (55%). Less popular are pools at private residences (31%), pools at high schools or colleges (28%) and rivers (13%).

PLACES PEOPLE SWIM	
	% of respondents
Lake or pond	70%
Swimming pool at a recreation center (Local government or private health club, YMCA, etc.)	67%
Swimming pool when we travel (Hotel, condo, etc.)	55%
Swimming pool at a residence (House, apartment, condo, town house)	31%
High school or college	28%
River	13%

\* Percentages total more than 100% because of multiple responses.

## REACTION TO PLACES TO CHANGE CLOTHES

*Question: If you swim, what do you think about places to change clothes at places where you swim? (Check all that apply)*

### **Overall findings**

Only about a third of swimmers are satisfied with places to change clothes (36%), places to shower (31%) and opportunities to secure valuables (30%). Suggestions for improvements were adding lockers for clothing and valuables (47%), more places to change clothes (41%) and more showers (39%). About a third (38%) reported that they go to swimming venues in their swimming attire.

### **Differences by demographics**

#### More Detroit residents

- ✓ Would like lockers to secure clothing and valuables added to swimming venues (58% Detroit, 45% other geographies)
- ✓ Would like more places to change clothes before and after swimming (55% Detroit, 39% other geographies)
- ✓ Would like showers to be added to places they swim (50% Detroit, 37% other geographies)

#### More African Americans

- ✓ Would like lockers to secure clothing and valuables added to swimming venues (65% Blacks, 44% Whites)

#### More people of color

- ✓ Would like lockers to secure clothing and valuables added to swimming venues (58% people of color, 44% Whites)

<b>REACTION TO PLACES TO CHANGE CLOTHES</b>	
	<b>% of respondents</b>
<b>Would like additional amenities</b>	
We would like lockers to secure clothing and valuables to be added to places where we swim	47%
We would like more places to change clothes before and after swimming	41%
We would like showers to be added to places where we swim	39%
I arrive at and leave the swimming venue in my swimming attire	38%
<b>Needs are being met</b>	
Places to change clothes are meeting my household members' needs	36%
Places to shower after swimming are meeting my household members' needs	31%
Places to secure clothing and valuables are meeting my household members' needs	30%

\* Percentages total more than 100% because of multiple responses.

## IMPORTANCE OF SWIMMING TO HOUSEHOLD MEMBERS

*Question: (For all respondents) How important would you say swimming in a pool or open body of water is to **members of your household**?*

### Overall findings

Swimming is the most important recreational activity for 29% of families, tied for the most important for 33%, and an occasional activity for 27% of the respondents. Other responses were that people do not participate in swimming but that it is important to their families (6%), that it is a rare activity (5%) or that their families do not participate in swimming but that it is important to them (1%).

### Differences by demographics

#### Fewer African Americans

- ✓ Reported that swimming is the most important recreational activity to their families (16% Blacks, 31% Whites)

#### Fewer people of color

- ✓ Reported that swimming is the most important recreational activity to their families (20% people of color, 31% Whites)

IMPORTANCE OF SWIMMING TO HOUSEHOLD MEMBERS	
	% of respondents
It is the most important recreational activity to us	29%
It is tied for our most important recreational activity	33%
It is an occasional recreational activity to us	27%
We do not participate in swimming presently, but it is important to us	6%
It is a rare recreational activity for us	5%
We do not participate in swimming	1%

\* Percentages total more than 100% because of multiple responses.

## INTEREST IN LEARNING TO SWIM / IMPROVING SWIMMING ABILITY

*Question: How interested would you say **you** are in learning to swim or if you already swim, improving your swimming ability?*

*Question: If you have children, how interested are you in having **your children** learning to swim, or if they already swim, improving their swimming ability?*

### **Overall findings**

About two-thirds (69%) of the adults reported that they are very or somewhat interested in learning to swim or improving their swimming abilities. The percentage of very and somewhat interested increases to 77% for interest in having their children learn to swim or improve their swimming ability.

### **Differences by demographics**

#### More adult Detroit residents

- ✓ Are very interested in learning to swim (68% Detroit, 43% other geographies)

#### More adult African Americans

- ✓ Are very interested in learning to swim (79% Blacks, 40% Whites)

#### More adult people of color

- ✓ Are very interested in learning to swim (69% people of color, 40% Whites)

#### Differences by gender

- ✓ More women are very interested in having their **children** learn to swim (67% women, 53% men)

<b>INTEREST IN LEARNING TO SWIM / IMPROVING SWIMMING ABILITY</b>	
	<b>% of respondents</b>
<b>Adults</b>	
Very interested	46%
Somewhat interested	23%
Minimal interest	14%
Not at all interested	14%
Not sure	3%
<b>Total</b>	<b>100%</b>
<b>Children</b>	
Very interested	63%
Somewhat interested	14%
Minimal interest	7%
Not at all interested	6%
Not sure	10%
<b>Total</b>	<b>100%</b>



## WHAT PEOPLE ENJOY ABOUT SWIMMING / WHAT MIGHT INTEREST NON-SWIMMERS

*Question: If you or members of your household:*

*Participate in swimming, what do you enjoy about swimming?*

*Do not participate in swimming, what things below might interest you or your family members?  
(Check all that apply)*

### Overall findings

The things that people enjoy about swimming that reached at least a 60% mention were that swimming is good for cardiovascular fitness (70%), that it provides a total body training (66%), that swimming is a relaxing and peaceful form of exercise (66%), that it is good for stress relief (64%), that it provides a pleasant way to cool down on a hot day (61%), and that swimming has less joint impact and stress (60%). However, only 35% noted that water is easily accessible to them at pools, beaches, lakes, and rivers.

### Differences by demographics

#### More people who are afraid of the water and/or have a fear of drowning

- ✓ Stated that swimming provides a pleasant way to cool down on a hot day compared to avid swimmers (76% fear, 55% swimmers)
- ✓ Stated that swimming is a pleasant way to spend time with family and/or friends compared to avid swimmers (74% fear, 53% swimmers)

WHAT PEOPLE ENJOY ABOUT SWIMMING / WHAT MIGHT INTEREST NON-SWIMMERS	
	% of respondents
Cardiovascular fitness	70%
Total body training	66%
Relaxing and peaceful form of exercise	66%
Stress relief	64%
It provides a pleasant way to cool down on a hot day	61%
Less joint impact and stress	60%
It is a healthy activity for children	59%
It is a pleasant way to spend time with family and/or friends	57%
To maintain a healthy weight	54%
Improves flexibility	40%
It is an activity with less chance of injury	39%
Low-impact therapy for some injuries and conditions	39%
It improves coordination, balance, and posture	37%
Water is easily accessible – at swimming pools, beaches, lakes, and rivers	35%

\* Percentages total more than 100% because of multiple responses.

## INTEREST IN SWIMMING PROGRAMS IN THE 5-COUNTY AREA

*Question: Below is a list of swimming programs in the 5-county area that are presently available or could become available. Please note your or your household members' interest in each program.*

### Overall findings

Programming that received ratings of very interested of 25% or more of the respondents were water exercise (34%), water yoga classes (33%), lap swimming (33%), child lessons (32%), water therapy & rehabilitation (28%), receiving education in water safety (27%), kayak lessons (26%), and adult swim team swimming (25%).

### Differences by demographics

To summarize the data splits below, the demographic groups that are more interested in many of the swimming programs are residents of Detroit, people of color – especially Blacks, people in lower income households, those who are afraid of the water and/or are concerned about drowning, and people who do not swim or rarely swim.

#### People who are more interested (very interested) in private swim lessons

- ✓ Residents of Detroit (52% Detroit, 19% other geographies)
- ✓ African Americans (56% Blacks, 17% Whites)
- ✓ People of color (45% people of color, 17% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (42% vs. 19%)
- ✓ People who do not swim in warm or cold weather months (35% vs. 22% others)

#### People who are more interested (very interested) in group swim lessons

- ✓ Residents of Detroit (38% Detroit, 22% other geographies)
- ✓ African Americans (42% Blacks, 20% Whites)
- ✓ People of color (41% people of color, 20% Whites)

#### People who are more interested (very interested) in adult swim lessons

- ✓ Residents of Detroit (52% Detroit, 17% other geographies)
- ✓ African Americans (64% Blacks, 15% Whites)
- ✓ People of color (49% people of color, 15% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (34% vs. 17%)
- ✓ Afraid of the water and/or have a fear of drowning (50% fear, 16% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (43% vs. 20% others)

#### People who are more interested (very interested) in child swim lessons

- ✓ Residents of Detroit (54% Detroit, 28% other geographies)
- ✓ Women (35% women, 23% men)
- ✓ African Americans (55% Blacks, 27% Whites)
- ✓ People of color (51% people of color, 27% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (49% vs. 26%)
- ✓ Afraid of the water and/or have a fear of drowning (51% fear, 27% avid swimmers)

People who are more interested (very interested) in parent and child swim lessons

- ✓ Residents of Detroit (44% Detroit, 16% other geographies)
- ✓ African Americans (46% Blacks, 14% Whites)
- ✓ People of color (42% people of color, 14% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (37% vs. 14%)
- ✓ Afraid of the water and/or have a fear of drowning (41% fear, 16% avid swimmers)

People who are more interested (very interested) in receiving education in water safety

- ✓ Residents of Detroit (48% Detroit, 23% other geographies)
- ✓ Women (30% women, 19% men)
- ✓ African Americans (53% Blacks, 20% Whites)
- ✓ People of color (47% people of color, 20% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (43% vs. 19%)
- ✓ Afraid of the water and/or have a fear of drowning (50% fear, 21% avid swimmers)

People who are more interested (very interested) in lap swimming

- ✓ Residents of Detroit (49% Detroit, 30% other geographies)
- ✓ African Americans (52% Blacks, 29% Whites)
- ✓ People of color (46% people of color, 29% Whites)

People who are more interested (very interested) in water exercise

- ✓ Residents of Detroit (56% Detroit, 31% other geographies)
- ✓ Women (41% women, 17% men)
- ✓ African Americans (68% Blacks, 29% Whites)
- ✓ People of color (53% people of color, 29% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (49% vs. 26%)
- ✓ Afraid of the water and/or have a fear of drowning (52% fear, 25% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (49% vs. 33% others)

People who are more interested (very interested) in water therapy & rehabilitation

- ✓ Residents of Detroit (55% Detroit, 23% other geographies)
- ✓ Women (31% women, 18% men)
- ✓ African Americans (68% Blacks, 21% Whites)
- ✓ People of color (52% people of color, 21% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (47% vs. 19%)
- ✓ Afraid of the water and/or have a fear of drowning (40% fear, 20% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (47% vs. 26% others)

People who are more interested (very interested) in water yoga classes

- ✓ Residents of Detroit (55% Detroit, 30% other geographies)
- ✓ Women (41% women, 12% men)
- ✓ African Americans (68% Blacks, 27% Whites)
- ✓ People of color (54% people of color, 27% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (46% vs. 23%)
- ✓ Afraid of the water and/or have a fear of drowning (50% fear, 24% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (53% vs. 31% others)

People who are more interested (very interested) in water yoga classes

- ✓ Residents of Detroit (37% Detroit, 23% other geographies)
- ✓ African Americans (39% Blacks, 22% Whites)
- ✓ People of color (36% people of color, 22% Whites)

<b>INTEREST IN SWIMMING PROGRAMS IN THE 5-COUNTY AREA</b>					
	<b>Currently participate</b>	<b>Very interested</b>	<b>Somewhat interested</b>	<b>Not interested</b>	<b>Not sure</b>
Water exercise	11%	34%	26%	25%	4%
Water yoga classes	1%	34%	23%	37%	5%
Lap swimming	36%	33%	15%	13%	3%
Child lessons	9%	32%	10%	43%	6%
Water therapy & rehabilitation	3%	28%	25%	37%	7%
Receiving education in water safety	3%	27%	24%	42%	4%
Kayak lessons	3%	26%	34%	33%	4%
Group swim lessons	10%	25%	21%	39%	5%
Adult swim team swimming	17%	25%	11%	43%	4%
Private swim lessons	6%	24%	22%	41%	7%
Adult swim lessons	5%	22%	22%	45%	6%
Scuba diving training	2%	21%	26%	45%	6%
Joining a swim team	23%	20%	16%	37%	4%
Parent and child swim lessons	2%	20%	9%	60%	9%
Adult lifeguarding training (15 and older)	8%	18%	13%	55%	6%
Junior lifeguarding (14 and younger)	1%	17%	12%	63%	7%
Water polo competition	1%	13%	20%	59%	7%
Artistic swimming (Synchronized swimming)	-	8%	13%	72%	7%

\* Percentages total more than 100% because of multiple responses.



## REACTION TO SWIMMING OPPORTUNITIES IN THE AREA

*Question: What is your reaction to the following statements regarding swimming opportunities in your area? (Check all that apply)*

### Overall findings

Two-thirds (66%) of the respondents checked one or more of the statements while 34% checked only "None of the above." Responses with the highest percentages were that hours at swimming venues do not work into people's schedules (34%), water venues are too far from people's homes for them to participate (28%) and fees at water venues are higher than people want to pay (27%).

The above three sub-questions were deliberately posed with a negative slant. Thus, it should be interpreted that hours at swimming venues **do** work into people's schedules (66%), water venues are **not** too far from people's homes for them to participate (72%) and fees at water venues are **not** higher than people want to pay (73%).

### Differences by demographics

Again, to summarize the data splits below, the demographic groups that more often noted the things about swimming opportunities in the area were again residents of Detroit, people of color – especially Blacks, people in lower income households, those who are afraid of the water and/or have a fear of drowning, and area residents who do not swim or rarely swim.

#### People who said that water venues are too far from my home to participate

- ✓ Residents of Detroit (44% Detroit, 25% other geographies)
- ✓ Women (30% women, 21% men)

#### People who said that fees at water venues are higher than they want to pay

- ✓ African Americans (40% Blacks, 24% Whites)
- ✓ People of color (37% people of color, 24% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (49% vs. 19%)

#### People who said that there are not enough instructors available at pools

- ✓ Residents of Detroit (29% Detroit, 12% other geographies)
- ✓ Women (17% women, 8% men)
- ✓ African Americans (34% Blacks, 10% Whites)
- ✓ People of color (31% people of color, 10% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (27% vs. 11%)
- ✓ Afraid of the water and/or have a fear of drowning (46% fear, 10% avid swimmers)

#### People who said they are not swimmers but enjoy water exercise

- ✓ Residents of Detroit (19% Detroit, 7% other geographies)
- ✓ Women (10% women, 3% men)
- ✓ African Americans (25% Blacks, 5% Whites)
- ✓ People of color (20% people of color, 5% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (18% vs. 5%)
- ✓ Afraid of the water and/or have a fear of drowning (45% fear, 1% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (31% vs. 6% others)

People who said that they are not comfortable in a boat, canoe, or kayak even with a life vest

- ✓ Residents of Detroit (16% Detroit, 4% other geographies)
- ✓ African Americans (20% Blacks, 3% Whites)
- ✓ People of color (16% people of color, 3% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (17% vs. 2%)
- ✓ Afraid of the water and/or have a fear of drowning (27% fear, 1% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (14% vs. 4% others)

People who said they would be interested in learning to swim better if life vests were available

- ✓ Residents of Detroit (25% Detroit, 2% other geographies)
- ✓ African Americans (34% Blacks, 1% Whites)
- ✓ People of color (23% people of color, 1% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (22% vs. 2%)
- ✓ Afraid of the water and/or have a fear of drowning (27% fear, 1% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (28% vs. 2% others)

People who said they would push their children to learn to swim if life vests were available

- ✓ Residents of Detroit (13% Detroit, 2% other geographies)
- ✓ African Americans (17% Blacks, 1% Whites)
- ✓ People of color (14% people of color, 1% Whites)
- ✓ Incomes under \$50,000 vs. \$100,000 or more (9% vs. 1%)
- ✓ Afraid of the water and/or have a fear of drowning (20% fear, 0% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (9% vs. 3% others)

<b>REACTION TO SWIMMING OPPORTUNITIES IN THE AREA</b>	
	<b>% of respondents</b>
Hours at swimming opportunities do not work into my schedule	34%
Water venues are too far from my home for me to participate	28%
Fees at water venues are higher than I want to pay	27%
There are not enough instructors available at pools to teach me or my children to swim	15%
I am not a swimmer, but enjoy water exercise	9%
I am not comfortable in a boat, canoe, or kayak in open water – even with a life vest	6%
I would be interested in learning to swim or swim better if life vests were available	5%
I would push my children to learn to swim if life vests were available	3%
I am not athletic enough to participate in swimming	3%
I do not have reliable transportation to water venues	1%
None of the above	34%

\* Percentages total more than 100% because of multiple responses.



## FEELING WELCOME / SAFETY / COMFORT AT SWIMMING VENUES

*Question: If you have visited a public swimming pool, beach, river, or pond / lake in the 5-county area, how would you rate the following?*

### Overall findings

The first table below is offered only to show the percentage of people who did not have an opinion about swimming venues. Because the survey successfully attracted many respondents who have not been to swimming sites in the 5-county area, many people had no opinion about the venues.

The second table shows how people who have visited the swimming sites react to the venues. When combining responses of somewhat disagree and strongly disagree, negative ratings ranged from 8% to 15% for five of the seven issues queried. Respondents disagreed the most that swimmers are respectful of others at swim venues (23%) and that people swim safely for themselves (24%).

### Differences by demographics

#### People who strongly agree that they feel welcome at urban water venues

- ✓ Residents of Detroit (46% Detroit, 30% other geographies)

#### People who strongly agree that they feel welcome at suburban water venues

- ✓ Residents of areas outside Detroit (47% other geographies, 16% Detroit)
- ✓ Men (49% men, 40% women)
- ✓ Whites (48% Whites, 15% Blacks)
- ✓ Whites (48% Whites, 23% people of color)

#### People who strongly agree that they feel welcome at rural water venues

- ✓ Residents of areas outside Detroit (36% other geographies, 9% Detroit)
- ✓ Whites (37% Whites, 5% Blacks)
- ✓ Whites (37% Whites, 14% people of color)

#### People who strongly agree that activities at water venues are safe

- ✓ Residents of areas outside Detroit (39% other geographies, 21% Detroit)
- ✓ Men (48% men, 31% women)
- ✓ Whites (39% Whites, 21% Blacks)
- ✓ Whites (39% Whites, 26% people of color)

#### People who strongly agree that they feel comfortable swimming with strangers

- ✓ Whites (42% Whites, 26% Blacks)
- ✓ Whites (42% Whites, 29% people of color)

<b>FEELING WELCOME / SAFETY / COMFORT AT SWIMMING VENUES – ALL RESPONDENTS</b>					
	<b>Strongly agree</b>	<b>Somewhat agree</b>	<b>Somewhat disagree</b>	<b>Strongly disagree</b>	<b>No Opinion</b>
I feel welcome at suburban water venues	42%	33%	7%	2%	16%
I feel comfortable swimming with strangers	39%	44%	8%	3%	6%
The activities at the water venues are safe	36%	41%	6%	1%	16%
I feel welcome at urban water venues	32%	28%	6%	2%	32%
I feel welcome at rural water venues	32%	25%	5%	4%	34%
People are respectful of others at swim venues	20%	48%	18%	3%	11%
People swim safely for themselves	20%	43%	17%	3%	17%

<b>FEELING WELCOME / SAFETY / COMFORT AT SWIMMING VENUES – THOSE WITH AN OPINION</b>				
	<b>Strongly agree</b>	<b>Somewhat Agree</b>	<b>Somewhat disagree</b>	<b>Strongly disagree</b>
I feel welcome at suburban water venues	50%	39%	8%	3%
I feel comfortable swimming with strangers	41%	47%	9%	3%
The activities at the water venues are safe	43%	49%	7%	1%
I feel welcome at urban water venues	47%	41%	9%	3%
I feel welcome at rural water venues	48%	37%	8%	7%
People are respectful of others at swim venues	22%	55%	20%	3%
People swim safely for themselves	24%	52%	21%	3%

## INCREASING PARTICIPATION IN SWIMMING

*Question: Metroparks and other recreation-related organizations in the 5-county area would like to encourage people to begin swimming and for those who already swim, to entice them to swim more. What would increase your interest and participation in swimming?*

### **Overall findings**

Twenty-six things were mentioned by at least 1% of area residents for what would increase their participation in swimming. The top six were closer water venues (20%), having adult swim lessons offered (13%), more lap swim times (11%), more indoor swimming pools or the ability to use pools at high schools (10%), expanding hours at swimming facilities (9%), and lower fees (9%).

### **Differences by demographics**

#### More interested in adult swim lessons

- ✓ Residents of Detroit (32% Detroit, 9% other geographies)
- ✓ African Americans (44% Blacks, 7% Whites)
- ✓ People of color (34% people of color, 7% Whites)
- ✓ Afraid of the water and/or have a fear of drowning (42% fear, 7% avid swimmers)
- ✓ People who do not swim in warm or cold weather months (31% vs. 11% others)

#### More interested in an increase in lap swimming times

- ✓ Men (16% men, 9% women)

INCREASING PARTICIPATION IN SWIMMING	
	% of respondents
Need closer water venues	20%
Adult swim lessons	13%
Offer more lap swim times	11%
Provide more indoor pools / Use High School pools	10%
Expand hours at the swimming facilities	9%
Lower fees	9%
Offer time for adult master swimmers	8%
Offer low-cost swim lessons for children	7%
Clean open waters / Pool water	7%
Nothing. Keep doing what you are doing!	6%
Construct Olympic-sized pools	6%
Publicize the current programs	5%
Accommodate longer distance swimming in open waters	4%
Provide more swimming venues in Detroit	3%
Offer water aerobics	3%
Have more lifeguards / Enforce safety measures with other swimmers	3%
Offer open water programs	2%
Hire trained, adult instructors, not High School swimmers	2%
Offer time for children master swimmers / Swim team	2%
Allow pool usage with a Parks pass	2%
Provide more outdoor pools	2%
Maintain pool facilities better / Upgrade facilities	2%
Offer water safety programs	1%
Add places to change clothes	1%
Offer swim lessons (General)	1%
Offer swimming programs for children with disabilities	1%
Provide secure lockers	1%

\* Percentages total more than 100% because of multiple responses.

## DEMOGRAPHICS

*Question: Please tell us about your household:*

*Question: What is your gender?*

*Question: What race / ethnicity best describes you?*

*Question: Considering recent years and not just during Covid-19, into which of the following groups does your household income fall?*

*Question: If you would like to share your contact information so that the Huron-Clinton Metroparks can reach you periodically to inform you of recreational opportunities in the 5-county area, please share that below. Please be legible!*

**Adults & children in the household:** Half (49%) of the respondents are part of households that have two or more adults and children, 31% of the households have two or more adults with no children, 14% were single adults with no children and 6% were single adults with children.

**Gender:** Most (70%) of the respondents were women, 29% were male and 1% identify themselves as non-binary.

**Race / Ethnicity:** Four in five (79%) of the respondents were Caucasian, 12% were African American, 3% were of multiple races, 3% were Hispanic or Latino, and 2% were Asian or Pacific Islander.

**Household income:** One in ten (11%) of the respondents reported household incomes of under \$50,000, 35% noted incomes of \$50,001 to \$99,999 and 54% indicated household incomes of \$100,000 or more.

**Contact information:** A total of 327 people provided their contact information to be shared with Metroparks to inform them of recreational opportunities in the 5-county area. Five of these gave only their email addresses. The sub-sample of 327 represents 32% of the 1,010 respondents to the survey.

*Appendix A*  
*Survey Instrument*



## 5-COUNTY RECREATION SURVEY

We are conducting a survey of residents of Livingston, Macomb, Oakland, Washtenaw, and Wayne counties to determine people's interest and participation in recreation with a specific focus on swimming. Your input will be extremely valuable - even if you have minimal experience in swimming – and will be used to guide recreation programs and facilities in the 5-county area. We ask that a head of household, 18 years-old or older complete the survey.

The survey is being conducted by Counselman-Hunsaker, a consulting firm that specializes in aquatics and the Denver-area research firm, Left Brain Concepts, Inc. All your responses will be anonymous. If you have questions, please contact Ms. Nina Kelly, Chief of Planning and Development at Huron-Clinton Metroparks at [Nina.Kelly@metroparks.com](mailto:Nina.Kelly@metroparks.com) or (810) 494-6043.

You can also respond electronically to this survey at <https://www.surveymonkey.com/r/HuronClinton>

### Swimming background / Swimming ability

1. How would you describe your **background in swimming** – either in a pool, lake, river, or pond?  
(Check all that apply)

1. Never have swam
2. I'm scared to death of the water
3. I am concerned about the possibility of drowning
4. I used to be concerned about the possibility of drowning but am no longer concerned
5. I never have swam, but children who live with me do swim
6. I swam years ago but not currently
7. I splash around in a pool or open body of water – where I can stand with my head above water
8. I exercise in the water for physical therapy
9. I engage in water exercise programs
10. I'm a casual, recreational swimmer
11. I'm a more serious but still recreational swimmer
12. I swam competitively in high school, college or beyond

2. Do you have children living with you?

1. No (Go to Q4)
2. Yes

3. Please enter the age for each child and note each child's swimming ability.

	Child 1	Child 2	Child 3	Child 4	Child 5
<b>Age of each child</b>					
<b>Please note for each child if he/she:</b>					
Can enter and exit the water on their own					
Can put their entire head under water on their own					
Can step, turn around and swim towards the exit of the water					
Can float on their stomach or back, or tread water for about 1 minute					
Can swim the length of a 25 yard pool without a life jacket					
None of the above					

4. If you swim, how frequently do you swim – either in a pool, lake, river, or pond – in **warm weather months**?

1. None
2. 1-3 times a month
3. 1-3 times a week
4. 4-7 times a week

5. If you swim, how frequently do you swim in a pool in **cold weather months**?

1. None
2. 1-3 times a month
3. 1-3 times a week
4. 4-7 times a week

6. If you swim, please note the places you swim. (Check all that apply)

1. Swimming pool at a residence (House, apartment, condo, town house)
2. Swimming pool when we travel (Hotel, condo, etc.)
3. Swimming pool at a recreation center (Local government or private health club, YMCA, etc.)
4. Lake or pond
5. River
6. High school or college

7. If you swim, what do you think about places to change clothes at places where you swim? (Check all that apply)

1. I arrive at and leave the swimming venue in my swimming attire
2. Places to change clothes are meeting my household members' needs
3. Places to shower after swimming are meeting my household members' needs
4. Places to secure clothing and valuables are meeting my household members' needs
5. We would like more places to change clothes before and after swimming
6. We would like showers to be added to places where we swim
7. We would like lockers to secure clothing and valuables to be added to places where we swim

8. How important would you say swimming in a pool or open body of water is to **members of your household**?

1. It is the most important recreational activity to us
2. It is tied for our most important recreational activity
3. It is an occasional recreational activity to us
4. It is a rare recreational activity to us
5. We do not participate in swimming
6. We do not participate in swimming presently, but it is important to us

**Interest in learning to swim / Improving swimming ability**

9. How interested would you say **you** are in learning to swim or if you already swim, improving your swimming ability?

1. Very interested
2. Somewhat interested
3. Minimal interest
4. Not at all interested
5. Not sure

10. If you have children, how interested are you in having **your children** learning to swim, or if they already swim, improving their swimming ability?

1. Very interested
2. Somewhat interested
3. Minimal interest
4. Not at all interested
5. Not sure

11. If you or members of your household:

**Participate in swimming**, what do you enjoy about swimming?

**Do not participate in swimming**, what things below might interest you or your family members?

(Check all that apply)

1. Less joint impact and stress
2. Low-impact therapy for some injuries and conditions
3. Total body training
4. Cardiovascular fitness
5. To maintain a healthy weight
6. Relaxing and peaceful form of exercise
7. Stress relief
8. It improves coordination, balance, and posture
9. Improves flexibility
10. It provides a pleasant way to cool down on a hot day
11. Water is easily accessible – at swimming pools, beaches, lakes, and rivers
12. It is a pleasant way to spend time with family and/or friends
13. It is a healthy activity for children
14. It is an activity with less chance of injury

12. Below is a list of swimming programs in the 5-county area that are presently available or could become available. Please note your or your household members' interest in each program.

	Currently participate	Very interested	Somewhat interested	Not interested	Not sure
Private swim lessons					
Group swim lessons					
Adult swim lessons					
Child lessons					
Parent and child swim lessons					
Joining a swim team					
Adult lifeguarding training (15 and older)					
Junior lifeguarding training (14 and younger)					
Receiving education in water safety					
Lap swimming					
Adult swim team swimming					
Water exercise					
Water therapy & rehabilitation					
Water yoga classes					
Water polo competition					
Scuba diving training					
Kayak lessons					
Synchronized swimming (Water ballet)					

**Reaction to swimming opportunities in the area**

13. What is your reaction to the following statements regarding swimming opportunities in your area?  
(Check all that apply)

1. Water venues are too far from my home for me to participate
2. I am not athletic enough to participate in swimming
3. There are not enough instructors available at pools to teach me or my children to swim
4. I would be interested to learning to swim or swim better if life vests were available
5. I would push my children to learning to swim if life vests were available
6. I am not comfortable in a boat, canoe, or kayak in open water – even with a life vest
7. Fees at water venues are higher than I want to pay
8. I am not a swimmer, but enjoy water exercise
9. Hours at swimming opportunities do not work into my schedule
10. I do not have reliable transportation to water venues
11. None of the above

14. If you have visited a public swimming pool, beach, river, or pond / lake in the 5-county area, how would you rate the following?

	Strongly agree	Somewhat agree	Somewhat disagree	Strongly disagree	No opinion
I feel welcome at urban water venues					
I feel welcome at suburban water venues					
I feel welcome at rural water venues					
The activities at the water venues are safe					
People swim safely for themselves					
People are respectful of others at swim venues					
I feel comfortable swimming with strangers					

**Increasing participation in swimming**

15. Metroparks and other recreation-related organizations in the 5-county area would like to encourage people to begin swimming and for those who already swim, to entice them to swim more. What would increase your interest and participation in swimming?

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**Demographics**

Your responses to the following, as with all your responses in this survey, will be analyzed only when combined with all others. We are asking these demographic questions so we can determine how **all** residents of the 5-county area can be better served.

16. In what zip code is your home located? \_\_\_\_\_

17. Please tell us about your household.
- 1. Single adult, no children living with me
  - 2. Two or more adults, no children living with us
  - 3. Single adult household **with children** living with me
  - 4. Two or more adults in the household **with children** living with us

18. What is your gender?
- 1. Male
  - 2. Female
  - 3. Non-binary

19. Which race / ethnicity best describes you?
- 1. American Indian / Alaska Native
  - 2. Asian / Pacific Islander
  - 3. Black / African American
  - 4. Hispanic / Latino
  - 5. Middle Eastern / North African
  - 6. White / Caucasian
  - 7. Multiple ethnicity

20. Considering recent years and not just during Covid-19, into which of the following groups does your household income fall?
- 1. Under \$25,000
  - 2. \$25,000 to \$49,999
  - 3. \$50,000 to \$74,999
  - 4. \$75,000 to \$99,999
  - 5. \$100,000 to \$149,000
  - 6. \$150,000 and above

If you would like to share your contact information so that the Huron-Clinton Metroparks can reach you periodically to inform you of recreational opportunities in the 5-county area, please share that below. Please be legible!

Thank you for your input!

Your name: \_\_\_\_\_

Email address: \_\_\_\_\_

# Appendix B: Lake Erie Metropark Great Wave Pool Audit (Jan



## Lake Erie Metropark Great Wave Pool

### Swimming Pool Audit



**Counsilman · Hunsaker**  
AQUATICS FOR LIFE

January 20, 2022

2022)



# Table of Contents

A. EXECUTIVE SUMMARY .....	3
B. POOL INFORMATION .....	5
C. POOL ITEMS.....	6
1. Structure and Finish.....	7
2. Main Drains .....	12
3. Perimeter Overflow System.....	13
4. Inlets.....	16
5. Access & Anchors .....	17
6. Markings.....	19
7. Deck and Pool Safety Equipment.....	20
D. POOL MECHANICAL ITEMS.....	23
1. Piping & Valves.....	24
2. Filtration.....	27
3. Pumps.....	30
4. Surge Capacity.....	33
5. Chemical Treatment.....	35
6. Chemical Controller & Water Chemistry .....	38
7. Wave Systems.....	39
8. Make-up Water.....	42
E. OPINION OF PROBABLE COST .....	43
APPENDIX A – NEW POOL STRUCTURE.....	45

## **A. EXECUTIVE SUMMARY**

The Huron Clinton Metroparks (HCMA), commissioned Councilman-Hunsaker (CH) to provide an audit of the existing outdoor wave pool called the Lake Erie Great Wave Pool. A site visit was completed by Carl Nylander and Miklos Valdez of Councilman-Hunsaker and was conducted on January 20, 2022. The purpose of this site visit was to evaluate the existing facility, pool conditions and systems in compliance with current building codes and laws. This report is based on discussions with staff on site, the visual inspection during the site visit, existing available pool plans and assumptions based on industry best practices.

The wave pool was constructed nearly 40 years ago and is in a great location adjacent to Lake Erie and under the management of the Huron Clinton Metroparks system. The wave pool was one of the first constructed in Michigan and when the facility was originally constructed in the 1980s, it would see approximately 90,000 visitors annually. But over the years, attendance has dropped to 30,000-35,000 on an annual basis.

Some modest repairs and enhancements have been implemented including the barrier railing and concrete in 2004. The mechanical systems were generally in very good condition given their age and seasonal use. The original vacuum sand filter was replaced with vertical high rate sand tanks which are approaching the end of their useful life. The pumps are all newer and appeared in good condition.

The chlorination system is newer and both CO<sub>2</sub> and muriatic acid systems were in place to address pH control. While it's generally recommended to keep chemical systems in dedicated closets that are independently exhausted to the exterior, it's likely impractical to add on these spaces to the existing pump house. It's recommended that staff remain vigilant in limiting any fumes to escape. But a shorter expected life on the equipment systems, especially the controllers and electrical panels, is likely.

The original wave system was replaced with more up-to-date equipment in 1996, which included new blowers, air directional valves, splashguards, galvanized steel ducting, pneumatic components, and a motor control center. Aside from the control panel which was replaced in 2017, the wave equipment continues to function well given its age. Some atmospheric conditions have been improved with the addition of a heater in the winter to keep the space dry, a small dehumidification unit to address humidity in the equipment room during the winter, and a fan to keep air moving.

The biggest concern with the existing pool is the structure itself, specifically the floor slab, and interior finishes. HCMA maintenance staff has had to patch and repair localized areas of the pool's floor slab due to deterioration. The interior plaster finish delaminates from the substrate. Staff has reportedly patched it every season for at least 10 years just prior to opening. Specific materials were not provided for these repairs, though staff has indicated that they use a 'soil mixture' to repair the substrate before applying a new layer of Sunstone as the final interior pool finish.

The substrate was very poor in the areas exposed during the site inspection. It's unclear if the repairs are afforded the proper time to cure in the seasonal rush to get the pool operational following the winter once conditions are warm and dry enough. It's also unknown if a proper bond coat is applied

to the substrate prior to the plaster finish, and if either is suitable for installation with any moisture drive through the floor slab. A 2013 structural evaluation report analyzed core samples and recommended at the time for its full replacement.

As a qualification, this report was developed having observed the pool in the offseason once it was fully winterized. This inhibits the evaluation of equipment performance that can only be observed during operation. Councilman-Hunsaker relied on HCMA staff and experience evaluating similar commercial aquatic facilities to make educated assumptions.

This report references the “administrative code” or “code” which is the State of Michigan’s Department of Environment, Great Lakes, and Energy’s (EGLE) Public Act and Rules Governing Public Swimming Pools which is enforced by their internal Drinking Water and Environmental Health Division. Other applicable federal codes and rulebooks referenced are the Americans with Disabilities Act (ADA), the Virginia Graeme Baker Pool and Spa Safety Act (VGB), and ASME/ANSI A112.19.81.

The administrative code requirements must be satisfied if a major modification of the pool is undertaken or if an item or piece of equipment needs repair. The recommended repairs address all administrative code items identified in this report.

The following report also includes observations from Aquatic Development Group who was the manufacturer for the original wave system and the equipment currently in place, as well as McComas/O’Donnell & Naccarato for structural assessment of the 2013 report and current conditions. The following represents the findings of Councilman-Hunsaker, their team, and includes recommendations. Equipment systems and deficiencies that are identified in need of repair, replacement, and renovation are further explained in the report and itemized in the opinion of probably cost section at the conclusion of this report.

**B. POOL INFORMATION**

	Wave Pool	Sprayground
Length	180 feet	
Width	83 to 141 feet	
Surface Area	17,100 ft <sup>2</sup>	2,924 ft <sup>2</sup>
Perimeter	560 feet	231 feet
Depth	0 feet to 8 feet 3 inches	0
Volume	453,000 gallons	
Bather Load	1400 bathers	
Turnover Rate	4 hours 16 minutes	
Design Flow Rate	1768 GPM	
Filtration Method	High Rate Sand	
Filtration Area	117.6 SF	
Filtration Rate	15.03 GPM/SF	

\*All information approximated from field observations and information provided by the HCMA.

### **C. POOL ITEMS**

- 1. Structure and Finish**
- 2. Main Drains**
- 3. Perimeter Overflow System**
- 4. Inlets**
- 5. Access & Anchors**
- 6. Markings**
- 7. Deck & Pool Safety Equipment**



***CH Observations, Comments and Recommendations:***

**1. Structure and Finish**

**Observations and Comments:**

- a) The facility consists of one pool and an attached spray ground. Both are concrete structures with cementitious interior finishes that was reported to be a marcite or Sunstone product, ceramic tile at locations where there are assumed to be movement joints in the structure, and some paint located at the stair risers, depth transition, and a few other areas around the pool.
- b) The cementitious finish has been problematic for many seasons. Surface cracking was observed at areas that weren't fully delaminated or deteriorating. The latter conditions were widespread, especially across the shallow end of the wave pool.
- c) Cementitious pool finishes require submersion for curing. If areas are left exposed for prolonged periods of time, surface cracking is likely. Some products, such as Diamond Brite or Pebble Tec have larger quartz aggregate within the plaster mix which gives some color and added texture to the final pool finish. The quartz aggregate is also better at helping to hold the plaster together, though they are still not recommended for prolonged exposure to the atmosphere.
- d) In areas where the cementitious finish was exposed, there were areas that had a thicker than normal finish layer. Some areas were 1" and thicker. Application procedures including surface preparation, application, and curing, should always be confirmed with the specific manufacturer. But typically, most plaster products are applied at a thickness between 3/8" and 5/8".
- e) The substrate was in equally poor condition and is contributing to the finish deterioration. Staff reported that they typically use a soil mixture to patch the existing concrete prior to patch refinishing in May each year prior to opening the pool on Memorial Day.
- f) In 2013, several core samples were taken of the existing pool and analyzed. At the time, the pool was 30 years old. The key takeaways from that evaluation report were:
  - 1) The concrete in the walls were in relatively good condition with only isolated areas showing surface delamination and deterioration.
  - 2) Much of the concrete in the floor slab was in relatively poor condition at the time. Both the plaster and the top of the slab had significant delamination and debonding.



- 3) The report concluded with recommendations to either replace the entire structure or perform an extensive remediation including replacement of a significantly large portion of the slab.
- g) Due to weather, it was reported that sometimes the concrete patchwork is completed in a day or two, followed immediately by refinishing the pool interior.
  - h) There were a few small areas where corrosion bleed-through was observed from the structural reinforcement within the pool walls.
  - i) Ceramic tile was provided at what appeared to be expansion joints within the pool structure. The Sunstone product was finished up to the ceramic tile on either side of the joint. This is common practice for pool joint installation if a floor slab cannot be poured monolithically. The sealant can be removed and the joint cleaned out between the rows of tile as part of routine maintenance. However, the joint stopped at the stainless steel gutter and did not continue through the structure. As a result, large cracks were observed at the end of the tile and sealant.
  - j) No contrasting nosings were observed on the pool stairs. A minimum 2" wide stripe is required at the leading horizontal edge of all stair treads. The risers were painted; however, this does not comply with current health requirements.
  - k) Staff did not report any known water loss from the pool. For most pools that are not metered and do not have an accessible space under the deck and around the pool walls, water loss is typically not viewed as an issue. However, given the condition of the finishes and substrate, some regular water loss is probable during normal operation. While it's assumed that there are strong winds common at the site, evaporative and "splash out" losses are likely helped by the operating water level being well below the deck elevation.

**Recommendations:**

- a) It is not known if any of the recommendations from the 2013 evaluation report were followed. From the site inspection, it appeared that a large amount of the plaster was removed from the slab and the walls last fall. It also appears that large portions of the exposed concrete slab are cracked and delaminated.
- b) To ensure that a new finish will adhere to the slab, the existing finish and all delaminated concrete must be removed completely to sound concrete. All cracks must be repaired, and all deficient concrete must be replaced.
- c) Based on the visual inspection of the pool structure and the 2013 evaluation report, it's our professional opinion that the structure is at the end of its useful life. Another evaluation could be undertaken to determine the extent of deficient concrete in the

slab. However, since a large portion the structure was already deemed inadequate in the 2013 report, a recommendation to replace the structure is the probable outcome.

- d) An alternative approach to replacing the pool floor slab and providing a new interior finish would be to construct a stainless steel walled pool with a PVC membrane within the existing pool structure. A more in-depth description of this product and the installation process is included in Appendix A at the conclusion of this report.
- e) For most pool concrete repairs, a minimum 28-day cure time is recommended.
- f) Cementitious pool finishes require submersion for curing. If areas are left exposed for prolonged periods of time, surface cracking is likely. Some products, such as Diamond Brite or Pebble Tec have larger quartz aggregate within the plaster mix which gives some color and added texture to the final pool finish. The quartz aggregate is also better at helping to hold the plaster together, though they are still not recommended for prolonged exposure to the atmosphere.
- g) The alternative to a cementitious finish for an outdoor pool is paint. Paint is the cheapest option on the market and allows for a full draining and cleaning of the pool each season. However, most painted pool finishes require repainting every 2-3 seasons. There can also be added preparation work is the pool walls and floor were not cast-in-place or troweled to a smooth finish when the structure was originally placed.
- h) Once the pool floor repairs are properly cured, substrate conditions should be confirmed with the finish manufacturer. Some interior pool finishes can be sensitive, especially if applied over any waterproofing membrane, to elevated pH in the concrete, moisture vapor emissions (MVER), and/or relative humidity levels in the slab. These conditions can be exacerbated when there are high ground water conditions. And given the wave pool's close proximity to Lake Erie, it's presumed that ground water levels are likely above the deepest part of the pool floor.
- i) It is recommended that any local voids or areas that require patching be done so with mortar made from Xypex Patch 'n Plug and Xypex Megamix II. At areas where pool rebar has corrosion bleed-through, treat with rust inhibitor to maintain structural integrity and slow the spread of corrosion.
- j) Provide a minimum 2" wide contrasting nosing along all pool stairs. This 2" wide band should be on the horizontal surface but can also wrap the vertical tread for the top 2".
- k) It's recommended that a water meter be added to the potable water line serving as make-up to the wave pool. Readings on the totalizer should be documented infrequently (weekly or monthly). If higher water consumption is observed, it will be a clear indication that there is an unforeseen issue either with the pool structure or

pipng. Based on internal calculations, the Lake Erie wave pool should conservatively lose 5,300 gallons per day, not accounting for the advantageous gutter conditions.

- l) Should significantly higher water consumption levels be observed, or if the water level is not at the same elevation around the pool's perimeter when filled to the gutter, then it will be an indication that there is likely an issue below the pool floor causing settlement. This is common when a large pool loses water and washes away some of the backfill materials and can leave a void space. Void spaces can be identified through ground penetrating radar. Pool leaks can be identified using a colored dye test or sounding to help target areas of concern. And if buried piping is source of any leaks, then the piping system can be isolated via caps or balloons and pressurized. It's recommended to always use water (hydraulic) pressure instead of pressurizing via air (pneumatic) means.



**Image 1: Wave Pool Deteriorated Finish & Substrate**



**Image 2: Crack Propagating from Termination of Expansion Joint at Gutter**



**Image 3: Delaminated Plaster Finish**



**Image 4: Corrosion Bleed-Through**





**Image 5: Finish & Substrate Deterioration at Expansion Joint**



**Image 6: Hairline Surface Cracking at Step Entry**



**Image 7: Finish Discoloration & Degradation**



**Image 8: Finish Condition in Submerged and Operating Condition**



**Image 9: Deteriorated Finish & Substrate along Side and End Walls**

## 2. Main Drains

### Observations and Comments:

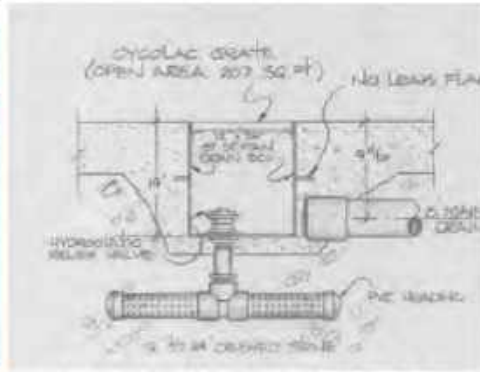
- a) Four (4) sets of 12"x36" main drains are provided in the deep end of the wave pool. Each location has three covers and they appear to be anti-entrapment per Virginia Graeme Baker (VGB) Pool and Spa Safety Act. VGB was enacted nearly 15 years ago. Most plastic covers are only rated from 5 or 10 years of use and require replacement to stay compliant with the federal regulation. The drains are connected with 8" suction pipes.
- b) It is difficult to determine the manufacturer and model of the grates from the pool deck. It appears that the covers are similar to Waterway model 3783-250. Each of those 12" x12" covers are rated for 292 GPM at the code maximum 1.5 ft/sec velocity with the 62.4 square inch open area. If one of the four outlets is taken offline, the resulting velocity of 1.10 ft/sec which would be code compliant. The Waterway outlet covers are rated for 7 years before replacement is required.
- c) Based on the record drawings, each drain outlet should be provided with a hydrostatic relief valve. The purpose of hydrostats are to spring open and allow for ground water to enter into an empty pool through perforated piping when ground water levels are higher than the pool floor. If they are not in place or operational, empty pools risk the possibility of "floating" where hydrostatic pressures can exert an uplifting force to elevate the pool out of the ground.
- d) All main drains should also comply with ASME ANSI/APSP-16-2011 which requires a vertical separate between the top of the drain suction pipe to the underside of the drain cover of 1.5 times the suction pipe diameter.

### Recommendations:

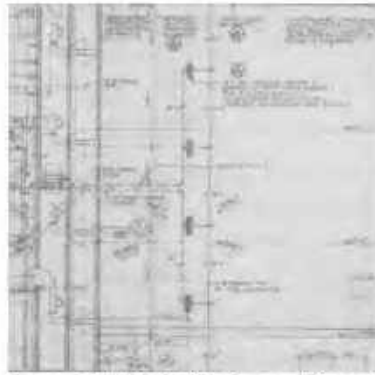
- a) Federal law requires that all VGB drain covers be replaced on the intervals specified by the manufacturer. It is assumed that the covers were installed more than seven (7) years ago and require replacement.
- b) When the pool is drained and the covers removed, confirm there is proper separation between the drain suction lines and the underside of the VGB cover.
- c) Also when the pool is fully drained, confirm that the hydrostatic relief valves are operational.



**Image 10: Main Drains**



**Image 11: Main Drain Detail with Hydrostatic Relief Valve**



**Image 12: Main Drains per Record Drawings**

### 3. Perimeter Overflow System

#### Observations and Comments:

- a) A fully recessed stainless steel gutter is provided for removal of surface debris. The handhold at the gutter is 1'-8" below the deck elevation to allow for the necessary freeboard to accommodate wave amplitudes. For most pools 75-80% of the particulate filtered out of the pool water is lighter materials floating on the surface such as debris, oils, etc. An effective perimeter overflow is critical and an important health code requirement.



- b) There are a total of 20 surge weirs below the gutter handhold. These surge weirs are slotted openings that drain into the gutter trough. During quiescent conditions, the water level is maintained 2" below the handhold at these slotted weir openings. The weirs act more like skimmers in this scenario where surface particulate is only removed at those locations and not in between.
- c) The purpose of the surge weirs is to not only meet the surface treatment requirement, but also the surge capacity needs in an economical manner. Surge capacity is addressed later in this report, but a minimum of one gallon per square foot of pool surface area is required. This allows for displaced water from the body mass of swimmers to be captured in a separate tank and allow the pool to continue operating at the handhold or rim flow elevation for sanitary purposes whether one person is in the pool or several hundred. With surge weir designs, the surge capacity is within the pool itself. As more and more swimmers enter the pool, the water level rises closer and closer to the handhold. But only at peak occupancy is the full gutter trough working as intended.
- d) The gutter trough is not continuous around the full pool perimeter. It only starts along the sides of the wave pool 35 feet from the beach entry. While not compliant with current code regulations, it is assumed that the wave pool has a grandfathered exemption to this requirement based on the age of original construction.
- e) Sealant is provided both above and below the gutter where the stainless steel meets the concrete. The sealant was observed to be deteriorated in both locations at certain points around the pool.
- f) Some discoloration was observed on the stainless steel. Since stainless steel contains carbon, any material that is not fully submerged will discolor based on the amount of carbon content in that grade of stainless steel. This is not as significant of an issue compared to indoor pools because chloramines are exhausted to the atmosphere.

**Recommendations:**

- a) Local health regulations do not allow for skimmers on pools larger than 2,400 square feet. With the wave pool more than seven times larger than this maximum size, they would not be approved for installation. But the surge weirs, which operate in a very similar fashion, just not with direct suction, are permitted. If a larger surge tank is ultimately provided that can accommodate at least 17,100 gallons of capacity, then the surge weirs can be abandoned and the pool can operate at the handhold elevation which would allow for surface particulate removal over the entire length of the gutter trough.
- b) The 35 feet of missing gutter on either side of the pool are assumed to be a grandfathered exemption that would only be required should the pool undergo a

significant renovation. In the meantime, these areas will likely see more debris and bacteriological growth that will need to be addressed by staff.

- c) Replace sealant in joints above and below the stainless steel gutter with a chlorine-resistant material suitable for pool applications.
- d) Clean discoloration from stainless steel with an approved cleaning agent such as SpectraClean by Spectrum Products.



**Image 13: Discoloration on Face of Stainless Steel Gutter Trough**



**Image 14: Interior Gutter Channel Profile**



**Image 15: Surge Weir and Gutter Hand Hold**



**Image 16: Deterioration of Sealant Above Gutter and Concrete**



**Image 17: Gutter Operating at Surge Weir Elevation**



**Image 18: Deterioration of Sealant below the Stainless Steel Gutter**

#### **4. Inlets**

##### **Observations and Comments:**

- a) Filtered and treated water is introduced into the pool via  $\frac{1}{2}$ " openings in the bottom of the stainless steel gutter. A return supply tube is located within the gutter trough. These openings are spaced 22" apart with a total of 170 openings over the length of the gutter. And these openings are located 10" below water level. Current health code requires wall inlets to be at least 12" below the operating water level.
- b) The stainless steel gutter does not run the entire length of the pool. At the beach entry, eight (8) floor inlets are provided.
- c) Assuming each floor inlet is provided approximately 30 GPM, 9.9 GPM is provided at each  $\frac{1}{2}$ " gutter inlet resulting in an orifice velocity of 16.1 ft/sec.
- d) Wall inlets can inhibit recirculated water in quiescent conditions to circulate treated water in the middle of the pool as velocities tend to "short cycle" to the perimeter gutter. Many codes do not allow them for pools as wide as the wave pool for this reason.

##### **Recommendations:**

- a) No action is recommended to the wall inlet system. While velocities may exceed current code requirements, or the depth is shallower than what is allowed per current regulations, the installed system should be 'grandfathered' into acceptance and will not require correction unless a major renovation is undertaken.



**Image 19: 3/8" Gutter Return Tube Inlets**

## **5. Access & Anchors**

### **Observations and Comments:**

- a) Egress ladders with recessed step pockets are provided at four (4) locations on the sides of the wave pool. There was some discoloration due to years of use but were generally in fair condition.
- b) A short ramp entry is provided at one side of the zero beach entry into the wave pool. It's unclear if the original intent of this ramp was to provide ADA access into the wave pool, but it is not compliant with accessibility regulations. The current ramp transitions from the pool deck to the water level that is 20" lower. Only one handrail is provided along the ramp. At the opposite side of the beach entry from the ramp is a wide stair entry with two steps.
- c) A barrier railing is provided along the beach entry, presumably to discourage access into the wave pool from the sides. Another railing is provided alongside of the spray feature area adjacent to the stairs. The railings and anchors appeared to be in good condition.

### **Recommendations:**

- a) All stainless steel that is not fully submerged will exhibit signs of corrosion. Discoloration and corrosion are much less aggressive in an outdoor environment where any chloramines escape to the atmosphere. Spectra Clean or similar stainless steel cleaners for pool environments should be used to clean all stainless steel above the water level, such as barrier railings and ladders.



- b) Compliant ADA access into all pools, regardless of their age of original construction, has been required since the federal government enacted the regulations in 2010. Some exemptions are allowed for wave pools. A secondary means of access is not required, like conventional pools, when the perimeter exceeds 300 lineal feet. And ramp entries do not require landings at 24 to 30 inch changes in elevation. Only two railings are required at the pool's sloped entry and they do not need to be installed next to one another like a conventional ramp entry. Often in wave pools, they are at opposite sides of the beach entry. The railings should extend to at least 24" of pool depth where swimmers are considered buoyant.
- c) Any embeds within 5'-0" of the pool require bonding and grounding per NEC 680.
- d) A minimum 2" wide contrasting band is required by code on the treads of the stair entry.



**Image 20: Ramp Entry and Barrier Railing**



**Image 21: Noncompliant ADA Ramp Entry**



**Image 22: Deep End Ladder Rails**



**Image 23: Egress Ladder**



**Image 24: Splash Pad Railing**



**Image 25: Beach Entry Stairs**

## **6. Markings**

### **Observations and Comments:**

- a) Some of the depth markings around the wave pool's perimeter are manufactured and others are painted. Some of both types appeared faded and very difficult to read. Code requires horizontal depth markings on the deck and vertical depth markings on the pool walls at the same locations. Depth markings are necessary at any depth contour changes, vertical depth changes of 24", and no more than 25 feet apart from one another around the pool's perimeter. Markings are not required at the zero beach entry.
- b) Some "No Entry" signs were observed, but there were not any "No Diving" warning signs. Code requires No Diving warning signs at areas where the water depth is less than five (5) feet and is recommended to be spaced at no more than 25 feet apart.

### **Recommendations:**

- a) Depth markings and warning signs should meet current code requirements, regardless of the original date of construction. Typically, depth markers and warning signs are not subject to grandfathered exemptive status. Vertical depth markings are recommended at all locations where horizontal depths are provided.
- b) "No Diving" warning signs are recommended around the pool at shallow water areas in similar size as the depth markers.
- c) The contrasting depth bands are not continuous across the pool floor and up the side walls and should continue to the handhold per industry standard.





**Image 26: No Entry Perimeter Deck Sign**



**Image 27: Faded Depth Marking**



**Image 28: Faded Painted Deck Markings**



**Image 29: Vertical Depth Marking**

## **7. Deck and Pool Safety Equipment**

### **Observations and Comments:**

- a) Since the site assessment took place during the offseason, little pool safety equipment was observed. Fixed lifeguard stands were observed in fair condition. Ring buoys were seen fixed to perimeter fencing.
- b) Emergency stops for the wave system equipment were observed that the lifeguard stands.

- c) The deck surrounding the pool was all concrete and appeared in good condition given its age. Hairline cracks were observed around the stanchion anchors and above the wave caisson chambers. Some of these appear to have been patched.
- d) Since the pool was not operating during the site inspection, drainage couldn't be confirmed. However, there was little staining to indicate low spot areas, aside from atop the wave caisson chambers where no drainage is present.
- e) There are areas where the sealant between the back of the pool wall and the surrounding deck as deteriorated, is missing, or the backing material isn't set.

**Recommendations:**

- a) During operation, the ring buoys are recommended to be adjacent to the lifeguard stands for quicker access by lifeguards during a rescue operation.
- b) Regularly test the wave system emergency stops to confirm proper operation.
- c) Confirm that at least one spineboard with head immobilizer, first aid kit, blood borne pathogen kit, shepherd's hook and reaching pole, a megaphone for public address and for each lifeguard during peak occupancy, one resuscitation mask, rescue tube, and whistle. These are the minimum safety requirements of local health code for a public pool.
- d) Significant forces are typical at wave pool caisson chambers. Minor hairline cracks are common and should just be monitored.
- e) The sealant around the pool is recommended to be replaced. Deck-O-Seal, or a similar product rated for pool deck applications and in the presence of chlorinated water, is recommended. Backing material will need to be replaced as needed.



**Image 30: Wave Pool Emergency Stop**



**Image 31: Ring Buoy and Throw Rope**



**Image 32: Deck Discoloration Likely from Standing Water**



**Image 33: Deck Cracking at Wave Caissons**



**Image 34: Deteriorating Deck Sealant and Exposed Joint Backing**



**Image 35: Missing Deck Sealant between Pool Wall and Deck**



**Image 36: Hairline Cracking at Railing Anchor**

**D. POOL MECHANICAL ITEMS**

- 1. Piping & Valves**
- 2. Filtration**
- 3. Pumps**
- 4. Surge Capacity**
- 5. Chemical Treatment**
- 6. Chemical Controller & Water Chemistry**
- 7. Wave Systems**
- 8. Make-Up Water**



***CH Observations, Comments and Recommendations:***

**1. Piping & Valves**

**Observations and Comments:**

- a) The exposed piping in the pool and spa mechanical rooms is painted Schedule 80 PVC. Most appeared in good condition, but since the inspection happened while the pool was winterized, it could not be confirmed if there were any leaks.
- b) Some valve hardware and supports were corroded in the surge tank and mechanical room. The valves were not manipulated to confirm range of operation. Coatings help protect against discoloration and corrosion; however, the pool chemicals are all within the same climactic space, along with the open top surge tank, and have been allowed to off-gas leading to the corrosion to all uncoated ferrous metals and the deterioration of some equipment.
- c) A few poured concrete thrust blocks were observed which help limit any movement in the piping system.
- d) Two flow meters were installed on the pool's recirculation piping. One was a digital flow meter and the second was an analog model, both from GF Signet. The first was located after the filter and the other after the return line splits downstream. The second location is not common, though it can be used in this installation to ensure that the return line flow rates are balanced following the split or tee. With the pool not in operation during the site inspection, flow meter readings could not be observed to confirm the design flow rates are met.
- e) No flow meter was installed on the backwash piping discharging from filter system.
- f) The suction lines from the surge tank into each recirculation pump is 10" resulting in an internal pipe flow velocity of 8.69 ft/sec (Sch 80) based on a recirculation flow rate of 1918 GPM. A 10" discharge comes off each pump which will have the same velocity. This assumes a recirculation flow rate of 1918 GPM and that the 50 hp pumps are alternated during operation.
- g) The filter system has a 6" backwash line to the waste pit. With a filter area in each vessel of 19.6 SF and a filtration rate of 16.3 GPM/SF, the backwash flow rate is approximately 320 GPM. With a 6" Sch 80 PVC pipe, the velocity is 4.01 ft/sec. One of the valves within the waste pit was reported by staff to not be operable.
- h) The filtered water splits into 8" supplies each serving 50% of the pool. At 50% of the recirculation rate, the water velocity is 6.85 ft/sec.

- i) The sprayground pump pulls approximately 150 GPM from the pool's return line. The suction piping into the feature pump is 3", as is the pump discharge piping into the feature manifold. This results in a velocity of 7.47 ft/sec.

**Recommendations:**

- a) Digital flow meters with magmeters are recommended for the most accurate flow readings. They should be installed at least 10 pipe diameters downstream from the nearest fitting and 4 pipe diameters upstream from the next fitting. The sensors installed were much closer than recommended which likely result in some turbulence at the sensors and less accurate readings.
- b) Valve stems are recommended along with the replacement of any inoperable valves within the waste pit.
- c) Maximum pipe velocities per code are 5 feet per second for any suction piping and 10 feet per second for any return piping. Assuming that the recirculation pumps are sized for 1918 GPM and are alternated, the 10" suction pipe should be at least 16" to comply with code. For the sprayground, the 3" suction line should be increased to 4" at 150 GPM.
- d) Impact flow meters should be provided on the backwash piping for the filter discharge and on the pool drain down line. Impact flow meters should be spaced per manufacturer's directions, typically 10 pipe diameters downstream from the nearest fitting and 4 pipe diameters upstream from the nearest fitting.
- e) All corroded valve hardware, hangers, and supports should be replaced with appropriate materials for the environment. Clevis hangers should be supported from the building structure, not from other piping systems.



**Image 37: Surge Tank Valves**



**Image 38: Valve Corrosion**





**Image 39: Mechanical Room Piping with Concrete Thrust Blocks**



**Image 40: Waste Pit Valves**



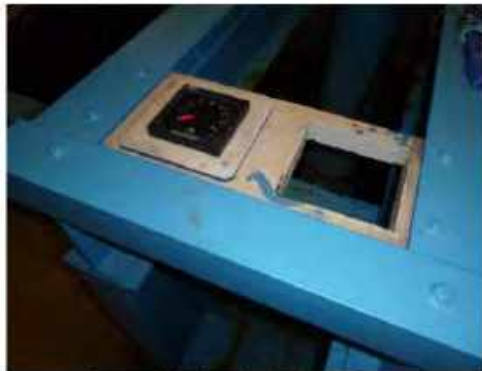
**Image 41: Filter Valves**



**Image 42: Filter Air Relief**



**Image 43: Digital Flow Meter Display & Sensor**



**Image 44: Analog Flow Meter**



**Image 45: Sprayground Flo-Vis Flow Meter**



**Image 46: Sprayground Feature Manifold**



**Image 47: Unsupported Strut and Pipe Guides / Straps**



**Image 48: Flow Meter Sensor**

## **2. Filtration**

### **Observations and Comments:**

- a) The original pool was constructed in 1982/83 with a vacuum sand filter based on the record drawings. It was replaced by six (6) vertical high-rate sand filter tanks in 1998 when the vac sand filter was converted into the wave pool's surge tank.
- b) Vertical sand filtration is not common in current new pool design domestically. If a facility utilizes high-rate sand filtration, the tanks are nearly always horizontal in orientation which allows for more efficient installations. However, vertical sand filters have a greater sand bed depth and can offer superior filtration depending on the amount of gravel and location of the laterals.

- c) The filter appeared in fair to good condition despite its age. The filter manufacturer, Recreonics, is still in the aquatics industry; however, they do not manufacture commercial filters, so outside sources would be required for any servicing or parts.
- d) All of the six (6) filter tanks are steel. Often, steel filters are provided with a lined coating on the interior. Most filter tank coatings get damaged, especially over 20+ years of use. Once the lining is compromised, corrosion will ensue and often becomes visible on the exterior of the filter tank. Little corrosion was evident from outside of the tanks except for the legs and some supports. However, this does not guarantee that the interior of the filter tanks are in good condition.
- e) Each filter tank has 19.6 SF of filter area resulting in a total filter area of 117.6 SF. Based on the recirculation rate of 1918 GPM, the filtration rate is 16.31 GPM/SF. While most sand filters are tested to a maximum filtration rate of 20 GPM/SF, most commercial filter manufacturers do not recommend them for filtration rates above 15 GPM/SF.
- f) The sand within the filters was reportedly replaced five (5) years ago during the offseason.
- g) Backwashing of the filters is done via linked valves to reverse the filter's flow. Since there isn't a VFD, it is assumed that the flow rate remains approximately 320 GPM through each filter tank. This is the same flow rate as is regularly recirculated back to the pool. This will result in a similar backwash rate to the filtration rate, 16.3 GPM/SF which is slightly lower than recommended for backwashing purposes. Fluidization of the media bed is important for a thorough backwashing. Recommended bed expansions typically aren't obtained at rates less than 18-20 GPM/SF.
- h) Staff reported that the filters are typically backwashed on 1-2 week intervals to a 24" diameter gravity well to storm. No flow meter was provided on the backwash pipe to indicate the rate of backwash or discharge to waste.
- i) Each sand filter is provided with a small tap in the top of the tank to bleed any trapped air. Discoloration was observed on some of the filter tanks from the use of these air relief valves.

**Recommendations:**

- a) Given that the vertical sand filters are nearly 25 years old and the manufacturer is no longer in the market for parts and servicing, it's recommended that the existing filters be replaced in the next 2-3 years. High rate sand filters are historically replaced every 25-30 years. Fiberglass filters are recommended for replacement instead of lined steel tanks.



- b) Should Metro Parks look to get more life than 2-3 years out of the filter, the media within the tank will be recommended for replacement. When the sand is removed, close inspection should be performed of each filter tank's interior lining as well as the condition of the internal laterals. It is not uncommon for sand filter laterals to fail at some point during their life. When they do, it is typically evident as sand can be seen in the pool itself.
- c) The installation of a VFD on the recirculation pump may be able to program for a slightly higher flow rate for backwashing purposes to improve on the media bed fluidization.
- d) Provide an impact flow meter on the backwash line with appropriate spacing from fittings and valves per manufacturer's installation recommendations.



**Image 49: Vertical Sand Filtration Tanks**



**Image 50: Corrosion at Filter Support Leg**



**Image 51: Corrosion at Filter Support Legs and Discoloration Likely from a Leak**



**Image 52: Sanitary Waste Pit**



Image 53: Filter Gauge Panel



Image 54: Backwashing Sight Glass

### 3. Pumps

#### Observations and Comments:

- a) Two vertical in-line, split coupled pumps are installed above the surge tank for recirculating the pool water. Both pumps are 50 hp and 3 phase with 10" suction and discharge pipes.
- b) Neither pump had a vacuum or compound gauge on the suction side or a pressure gauge on the discharge side.
- c) Some corrosion was observed on the uncoated pump components, presumably a result of being mounted above the open top surge tank. (Additional narrative on the surge tank and off-gassing later is in more detail later in the report.)
- d) The pump motors appeared to be electrically bonded; however, some of the recirculation equipment did not appear to have a bonding connection including the Accu-Tab chlorinator booster pump, water chemistry controller, or the steel filter tanks.
- e) A 10 horsepower vertical multistage booster pump was installed to supply water to the spray features in the beach entry. It appeared that this pump was installed in 2017 and still appeared to be in good condition. This pump model is provided with 304 (standard) or 316 (premium) stainless steel on all internal wetted parts. Stainless steel with lower carbon content is better suited for chlorinated water as it will discolor and corrode at a slower rate. So, a 316 grade is preferred to 304, and 316L is more suitable than 316. With the pump internals not fully submerged in pool water during periods when the spray features are not on or during the offseason, eventual discoloration and corrosion are very likely.



- f) There appears to be some challenges to service access to the two 50 hp recirculation pumps. Overhead access seems to be utilized for pulling the pump motors.
- g) Conventional motor starters were provided for the three pool pumps. The enclosures appeared in good condition though the chemicals off-gassing from the open-top surge tank should expect to have a deteriorating effect on their life expectancy.

**Recommendations:**

- a) It is recommended that a back-up pump be provided for pool recirculation and the sprayground features. While it's believed that the recirculation pumps still have several years of useful life remaining, pumps like most equipment, are experiencing several month's lead time with current supply chain delays. Should the pump(s) fail, the pool will need to be shut down until a replacement can be purchased and installed and would likely jeopardize the remainder of the summer season. The failure of the sprayground pump wouldn't be as catastrophic; however, the materials and use of this pump make it more susceptible to operational issues.
- b) Operable vacuum/compound gauge should be provided on the suction side of all pumps and a proper pressure gauge on each pump's discharge. These gauges should be located as close to the pump itself for the most accurate readings.
- c) The pump curve for all pumps is recommended to be laminated and wall-mounted for reference within the pool mechanical room. If flow meters fail in the future, pump performance and operational conditions can still be determined by referencing the curves.
- d) When any pumps require replacement, it is recommended to be provided with a fusion bonded epoxy coating, similar to Scotchkote 134, to protect against the chlorinated water.
- e) When the motor starters require replacement, a variable frequency drive is recommended. VFDs typically pay for themselves after approximately 2 years of service from the energy savings on year-round pools. Swimming pool recirculation systems have to be designed for fully-loaded filters which only happen about 5% of the time. During the other 95% of the time, the pumps operate at a less efficient point on the pump curve which is why VFDs are valuable for these installations. Recirculation pump VFDs are typically controlled via flow cells downstream of the recirculation pumps and filters.
- f) All recirculation components should be bonded and grounded per National Electric Code (NEC) 680. This includes pool shell reinforcement, deck embeds within 5'-0" of the pool, at least 3'-0" of deck reinforcement around the pool, all spray features, pumps, filters, heaters, chemical feed pumps, surge tank, and controllers.



**Image 55: Vertical Recirculation Pump**



**Image 56: Corrosion at Recirculation Pump Base and Frame**



**Image 57: Overhead Access for Servicing Recirculation Pumps**



**Image 58: Corrosion at Vertical In-Line Split Coupled Pump**



**Image 59: Wave Pool System Bond Wiring**



**Image 60: Recirculation Pump Starter Panel**



**Image 61: Sprayground Pump**



**Image 62: Sprayground Pump Starter**

#### **4. Surge Capacity**

##### **Observations and Comments:**

- a) An open top steel tank is used for the wave pool's required surge capacity. The facility was originally operated with a vacuum sand filter for the first 13-15 years of the pool's operation. It appears that the current surge tank was this original filter that has been repurposed. Some areas of corrosion were observed.
- b) The rim of the surge tank was 29" above the mechanical room floor slab which appeared to be approximately 5" above the pool's operating water level.
- c) There was no float within the surge tank to balance the draw of water from the main drains and gutter system. The absence of a float valve and with the pool not in operation at the time of the site inspection, it's unknown what the operating water level is within the surge tank. The tank was dimensioned to be 16'-0" long x 6'-0" wide x 8'-0" deep. This results in an empty capacity of 768 cubic feet. A minimum of one (1) gallon of surge capacity is needed per code for each square foot of filter area. For the Lake Erie wave pool, a minimum of 2,286 CF is required.
- d) The atmosphere within a typical surge tank is very aggressive. With the chlorinated water continually churning, chloramines are continually off-gassed. Since the surge tank has an open top, this aggressive air escapes within the pool mechanical areas and will impact the condition of any uncoated ferrous metals and shorten the life of some equipment and control panels.

##### **Recommendations:**



- a) While the surge capacity is only 33 percent of the minimum required per current code (and likely closer to 20-25% during actual operations), the pool qualifies for a 'grandfathered' exemption given the date of original construction. Compliance would only be necessary should the pool undergo a major renovation.
- b) The old vacuum sand filter can continue to serve as the pool's surge tank; however, it's recommended that a new coating be provided to address the corrosion observed. Advanced corrosion can lead to the tank's failure and would lead to leaks.
- c) Covers are available for vacuum sand filters or open surge tanks to limit off-gassing into a pool equipment room. One is recommended to maximize the life expectancy and performance of equipment and systems within the space.



**Image 63: Corrosion at Coated Steel Surge Tank**



**Image 64: Corrosion at Coated Steel Surge Tank**



**Image 65: Make-up Water Fill at Surge Tank**



**Image 66: Surge Tank During Normal Operation**

## 5. Chemical Treatment

### Observations and Comments:

- a) Calcium hypochlorite (solid chlorine) is the primary sanitizer for the wave pool. The Accu-Tab erosion feeder is located within the main pool mechanical space. It was reported to be a new unit and appeared to be in good condition.
- b) A couple of different injection points were observed for the chlorine system, one on each side of the filtered water split. This approach should help ensure a more balanced distribution of treated water back to the pool.
- c) Carbon dioxide (CO<sub>2</sub>) is used for pH control of the pool water. A large 750 lb bulk tank was in the pool mechanical room and appears to be the primary pH buffering agent. CO<sub>2</sub> is an asphyxiating gas that is colorless and odorless. No leak detection system was observed in the mechanical room.
- d) There was also a smaller double-walled muriatic acid tank with a peristaltic pump in the mechanical room. The tank was on an elevated stand and appeared to have a storage capacity of approximately 25 gallons.
- e) Poly tubing is provided between the acid pump and injection point which is at the filter header piping.
- f) NFPA chemical hazard signage and material safety information was not observed where the primary chemicals were used and stored for the pool. No MSDS information was observed during the site visit.

### Recommendations:

- a) The pool chemicals are recommended to be stored in dedicated chemical closets to be exhausted independently to the exterior, typically at rates around 15-20 air changes per hour, depending on specific code requirements. They should be under a negative pressure relative to adjacent spaces and enclosed with a proper fire rating. This will help limit corrosion due to chemical off-gassing attacking the space.
- b) NFPA chemical hazard signage was not provided for the chemicals stored on site and material safety data information was not observed. These should be located on the chemical room doors per code. And each room should be provided with the relevant MSDS information in the event of a spill or accident.
- c) Erosion feeders, chemical product containers, and the bulk acid tank should be kept fully sealed to limit any off-gassing.



- d) An acid scrubber is recommended to be installed on the top of the bulk tank. Since acid is extremely corrosive if allowed to off-gas the scrubber helps to limit these gasses that escape to the atmosphere.
- e) At the point of injection for the chemicals into the recirculation piping, it's recommended that they're installed with threaded pipe saddles which will limit the chemical leaks observed at both pools.
- f) The amount of chemical stored on site should not exceed the fire rating for which the room was designed. For calcium hypochlorite, typically product that is in the hopper does not count towards storage quantities. But under H-2 occupancy, most jurisdictions don't allow for more than 200 lbs to be stored in the same space.
- g) Poly tubing can become brittle and is subject to leaks and failure. It's recommended to plumb the chemical injections with a short run of poly tubing off the feed pump which then can connect to a Sch 80 PVC pipe to route the supply into the main return line.
- h) Dry A:B:C-type fire extinguishers are not recommended in the presence of chlorine-containing oxidizers. The reaction between the oxidizer and the ammonium salts in the fire extinguishing agent may produce an explosive compound ( $\text{NCl}_3$ ). Carbon dioxide or other agents that depend on their smothering action for effective use will be of no value in extinguishing fires involving oxidizers. It is recommended that water-based fire extinguishers be used instead.
- i)  $\text{CO}_2$  is an asphyxiating gas. It should be stored in a space with a minimum of 20 ACH and is recommended that a  $\text{CO}_2$  alarm be provided to detect elevated levels and potentially a life-threatening situation.



**Image 67: Accu-Tab Chlorinator**



**Image 68: Bulk Carbon Dioxide Tank**



**Image 69: Muriatic Acid Storage Tank & Stand**



**Image 70: Chemical Storage**



**Image 71: Chemical Storage Closet**



**Image 72: Chemical Injection Tap**



**Image 73: Chlorinator Side Stream Taps**



**Image 74: Acid Feed Pump and Poly Piping**

## 6. Chemical Controller & Water Chemistry

### Observations and Comments:

- a) A BECSys 2 water chemistry controller is installed. It is a newer controller that is not original to the pool. It has limited functionality as it is one of the basic BECS controllers. It appears that it is only used for chlorine and pH management.
- b) Since the pool was not in operation at the time of the facility assessment, the controller's performance was not observed.
- c) No remote access appeared to be provided for the controller.

### Recommendations:

- a) It is strongly recommended that regular cleaning protocols are maintained for the controller's probes per manufacturer's recommendations. Once the pool is in operation, manual water chemistry readings should be done at the sample cell to confirm the controller's readings and calibrate if needed. A photometric test kit, such as Palintest 6, provides the more accurate readings compared to a standard Taylor test kit, and is recommended for calibration purposes.
- b) Confirm that the pool recirculation systems are interlocked with that recirculation pumps so that if there is no power to the recirculation pump, there is no power to that pool's other recirculation components.
- c) If there is a need for remote alert to maintenance staff when chemistry parameters are out-of-range or in alarm, a wireless module can likely interface with the controller to provide instant notifications via text or email.



Image 75: Water Chemistry Controller



Image 76: Chemical Controller Wiring & Sample Cell





Image 77: Sample Cell

## 7. Wave Systems

### Observations and Comments:

- a) The WaveTek wave system was reported to have been installed as part of the original construction of the pool in 1983. Staff reported that the system was first put into service for the summer of 1985. However, the manufacturer, Aquatic Development Group, and their records indicate that the original wave system was replaced with newer equipment in 1996. These upgrades consisted of new blowers, air directional valves, splashguards, galvanized steel ducting, pneumatic components, and a motor control center.
- b) The existing system at the facility consists of three (3) 100 hp blowers that discharge into fabricated steel ducting that distributes air to four (4) stainless steel, WaveTek, Verawave pneumatically actuated directional valves.
- c) Compressed air is provided by a 20 hp Saylor Beal reciprocating air compressor. The compressor was observed to be significantly corroded.
- d) The pneumatic system piping, fittings, regulators, lubricators, solenoids, and tubing all appear to be in good condition and were reported to be operating properly.
- e) Electronic controls were replaced in 1996 and again by WaveTek in 2017 with an integrated, PLC-based motor control center that includes motor starters.
- f) While the wave system and equipment weren't observed during operation, the entire system appeared to be in good condition given its age. All of the equipment systems appear to have been very well maintained and found to be in much better condition than anticipated, likely due to attentive maintenance practices.

- g) Air movement and noise suppression is important for a wave equipment room. The wave systems were not observed in operation, but staff has installed a portable dehumidifier in the space which has reportedly helped tremendously with the conditions in the space and condition of the wave equipment. Corrosion and an absence of some of the original baffles was observed.

**Recommendations:**

- a) It's recommended that the air compressor be replaced given it's observed condition.
- b) While the remaining wave equipment is in good condition given its age, it is recommended to replace the system in the next few years. Improvements in wave generation technology since 1996 would result in a new wave system able to provide equal performance with less horsepower and save Metro Parks in annual operational costs.
- c) The wave fans are recommended to be supported from the floor until a new system is provided.
- d) Replace the acoustical baffles within the wave equipment space.
- e) If the wave pool structure is modified with a new interior structure (see Appendix), a shallower deep end at the caissons is recommended. Staff reported that there are frequent rescues in this area of the pool. Deep water design was typical in 1980s wave pools, advancements in pool floor and caisson geometry has allowed pool depths to be decreased while maintaining wave performance.



**Image 78: Wave Caissons**



**Image 79: Control Panel**





**Image 80: Corroded Wave System Air Compressor**



**Image 81: Dehumidifier for Wave Pool Equipment Space**



**Image 82: Corroded Baffles in Equipment Room**



**Image 83: Motor and Unsupported Fan**



**Image 84: Wave Generation Starter**



**Image 85: Corroded Fasteners**

## 8. Make-up Water

### Observations and Comments:

- a) The water make-up appears to be controlled manually for the wave pool. An automatic level controller was observed and likely original to the pool; however, it has been abandoned. Staff mentioned that the  $\frac{3}{4}$ " make-up for the automatic water level controller is not able to keep up with water lost due to leaks, splash-out, and evaporation. Approximately 12 GPM should be able to flow through the  $\frac{3}{4}$ " make-up water line. Based on the pool's size, this equates to a little more than 1.5" of depth in the pool per day.
- b) From an image included below during the wave pool's operation, the water does not seem to be maintained at the perimeter overflow gutter.

### Recommendations:

- a) More than 1.5" of water loss per day is much more than should be anticipated, especially for a wave pool where splash-out and evaporation losses are less than conventional pools due to the difference in deck and water level elevations. Once repairs are made to the pool structure, the 1.5" per day losses should be reduced and the  $\frac{3}{4}$ " make-up supply should be able to keep up.
- b) An automated water level controller is recommended to maintain the water at the gutter level to ensure the surface is continually treated and filtered where 80% of the pool debris resides on average.
- c) A dedicated water meter is recommended to be provided for the pool system so that regular water consumption can be monitored to more quickly alert staff if there is a future water loss due to a pipe break below grade or a compromise in the pool structure.



Image 86: Water Shy of Beach Entry Gutter



Image 87: Water Level Control Panel

## E. OPINION OF PROBABLE COST

The following opinion of probable cost addresses the items identified in this report needing repair, replacement or renovation. It is recommended that, when prudent, the renovation tasks should be bundled to be more cost effective. This efficiency may result in an overall savings in the project cost. Please note that several of the items may either be dependent on another item and some may be more or less intensive based on testing results. Additionally, some line items render other options not applicable.

Item	Unit	Unit Cost	Quantity	Total Cost
Remediate joints at the stainless steel gutter and provide new chlorine-resistant sealant	LF	\$ 3	1140	\$ 3,420
Allowance for crack remediation within the existing wave pool structure and treatment of any rebar corrosion with rust inhibitor	Lump Sum	\$ 12,000	1	\$ 12,000
Provide a new floor slab for the entire wave pool with the new deep end shallower per current wave pool industry standards. Dowel new floor slab into the existing walls that are to remain.	Lump Sum	\$ 1,800,000	1	\$ 1,800,000
Provide a new quartz aggregate finish within the renovated pool.	SF	\$ 12	18500	\$ 222,000
Provide an epoxy painted finish within the renovated pool.	SF	\$ 4	18500	\$ 74,000
Provide contrasting nosings, new depth markers and warning signs, and a full contrasting band at the changes in water depth zones per code	Lump Sum	\$ 2,500	1	\$ 2,500
Provide new VGB compliant main drain covers	Each	\$ 250	12	\$ 3,000
Add ADA compliant railings within the wave pool zero entry with bonded and grounded anchors	Lump Sum	\$ 18,000	1	\$ 18,000
Provide variable frequency drives for all three pumps with bypasses	Each	\$ 11,000	3	\$ 33,000
Provide a digital flow meter for the recirculation system to replace the analog model	Each	\$ 1,200	1	\$ 1,200
Provide impact flow meter on the backwash piping	Each	\$ 250	1	\$ 250
Add valve stems and replace valves in the waste pit	Lump Sum	\$ 1,800	1	\$ 1,800
Allowance for replacement of corroded valve hardware, hangars and improper supports	Lump Sum	\$ 8,500	1	\$ 8,500
Provide a spare wave pool recirculation pump and motor as attic stock for emergency replacement	Each	\$ 22,500	1	\$ 22,500
Provide a spare sprayground feature pump and motor as attic stock for emergency replacement	Each	\$ 11,500	1	\$ 11,500
Provide common bonding connection for all recirculation system components and test for continuity	Lump Sum	\$ 5,000	1	\$ 5,000

**Table 1: Opinion of Probable Repair & Renovation Costs**



Item	Unit	Unit Cost	Quantity	Total Cost
Provide compound and pressure gauges for each pump	Each	\$ 120	6	\$ 720
Provide new high rate sand filters	Lump Sum	\$ 165,000	1	\$ 165,000
Provide new sand media for the existing sand filters	Lump Sum	\$ 7,000	1	\$ 7,000
Provide NFPA signage and MSDS information for chemicals stored at the site.	Lump Sum	\$ 75	3	\$ 225
Provide a cover for the surge tank to limit chloramine off-gassing within the pool mechanical room	Each	\$ 3,500	1	\$ 3,500
Provide an acid scrubber for installation on the bulk muriatic acid tank	Each	\$ 850	1	\$ 850
Replace chemical piping and saddles at injection points	Lump Sum	\$ 5,000	1	\$ 5,000
Provide a water-based fire extinguisher	Each	\$ 200	1	\$ 200
Provide a CO <sub>2</sub> alarm and monitor within the pool mechanical room.	Each	\$ 1,200	1	\$ 1,200
Install an automatic water level controller to manage pool water levels from the surge tank	Each	\$ 9,700	1	\$ 9,700
Provide a new air compressor for the existing wave system	Each	\$ 4,750	1	\$ 4,750
Provide a full replacement of the existing wave equipment	Lump Sum	\$ 400,000	1	\$ 400,000
Myrtha RenovAction stainless steel pool structure with PVC membrane	Lump Sum	\$ 1,415,000	1	\$ 1,415,000

**Table 1: Opinion of Probable Repair & Renovation Costs (cont.)**

Notes:

- 1) Repair costs do not account for draining, refilling, heating, or chemical treatment costs.
- 2) The engineer has no control over the cost of labor, materials, equipment, or over the contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to the engineer at this time and represent only the engineer's judgment as a design professional familiar with the construction industry. The engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

## APPENDIX A – NEW POOL STRUCTURE

Given the persistent challenges with the existing pool structure, finishes, and annual repairs, an option that may warrant consideration by the Huron-Clinton Metro Parks is the construction of a new pool within the existing structure. A “RenovAction” solution would give new life to the Lake Erie wave pool for decades to come. This would be a proprietary system from Myrtha Pools. It has been implemented effectively on many similar existing pool shells that exhibit many of the same operational and performance issues that face problematic structural issues over decades of use.

A RenovAction consists of thin rails that are mechanically secured to the existing structure for the installation of modular stainless steel panels and finished with a fiberglass reinforced composite membrane. Since the pool is not used for competitions and exact course lengths are not critical, it will likely be most cost effective to construct the RenovAction system within the existing pool tank reducing the overall pool area minimally. The existing stainless steel gutter would be removed and a new wall panel system with perimeter overflow gutter would be provided. This option would come with a 25-year warranty on the structure and 10-year warranty for waterproofing integrity.

The panels and materials will come from Italy, so there is a significant lead time that needs to be built into the timeline for approvals, fabrication, and shipment. To get a feeling for the procurement time needed, on a recent project for a 50 meter pool RenovAction, Myrtha requested 120 days from time of initial deposit until the materials were on site. Once on site, the actual installation could start and finish easily within one off-season. As mentioned, the RenovAction system would receive a new gutter around the full pool perimeter, as well new main drain sumps and return fittings.

Below are before and after example images from some other RenovAction installations in the U.S.



**Before and After Images #1: Rochester Recreation Center – Rochester, MN**





**Before and After Images #2: Simpson Park – Lakeland, FL**



**Before and After Images #3: Miami Dade College – Miami, FL**



**Before and After Images #4: Memorial Pool – Pasco, WA**

The renovated pool would be provided with a “Softwalk” finish at the shallow ends of the pool. This will provide a superior walking surface for swimmers in the beach entry. The total opinion of cost for the Myrtha RenovAction system with Softwalk membrane is \$1,415,000.

Other options are available, such as the Myrtha “Skin” which provides a complete steel pool solution as the product consists of the same Myrtha steel/PVC technology, but with a thickness of 0.5mm (25 Gauge) and is supplied in rolls. The installation follows a similar procedure as the Myrtha Evolution membrane, with expansion joints to allow for any future potential movement of the floor.



**Myrtha Skin: Stainless Steel Rolls & Installation**



## Appendix C: Southeast Michigan Aquatic Facilities

### Facilities

Facility Name	Street Address	City	Zip Code	County	Public/Private/Non-Profit	Indoor/Outdoor
Adams Butzel Recreation Complex	10500 Lyndon St	Detroit	48238	Wayne	Public	Indoor
Anchor Bay Aquatic Center	52401 Ashley St.	New Baltimore	48047	Macomb	Public	Indoor
Ann Arbor YMCA	400 W. Washington St.	Ann Arbor	48103	Washtenaw	Non-Profit	Indoor
Aqua-Tots Swim School - Canton	43335 Joy Rd.	Canton	48187	Wayne	Private	Indoor
Aqua-Tots Swim School - Dearborn	24365 Michigan Ave.	Dearborn	48124	Wayne	Private	Indoor
Aqua-Tots Swim School - Farmington Hills	31221 W. 14 Mile Rd.	Farmington Hills	48334	Oakland	Private	Indoor
Aqua-Tots Swim School - Novi	44225 W. 12 Mile Rd. Suite 103	Novi	48377	Oakland	Private	Indoor
Aqua-Tots Swim School - Sterling Heights	44891 Hayes Rd.	Sterling Heights	48313	Macomb	Private	Indoor
Aqua-Tots Swim School - Troy	846 E. Big Beaver Rd.	Troy	48083	Oakland	Private	Indoor
Beechview Swim and Tennis Club	27000 Westmeath Ct.	Farmington Hills	48334	Oakland	Private	Outdoor
Birmingham Athletic Club	4033 Maple Road	Bloomfield Hills	48301	Oakland	Private	Outdoor
Birmingham Family YMCA	400 E. Lincoln St.	Birmingham	48009	Oakland	Non-Profit	Indoor
Boll Family YMCA	1401 Broadway	Detroit	48226	Wayne	Non-Profit	Indoor
Brandon Aquatic & Fitness Center	1025 S. Ortonville Rd.	Ortonville	48462	Oakland	Public	Indoor
Brennan Pools	21415 Plymouth	Detroit	48228	Wayne	Public	Outdoor
British Swim School - Northwest Detroit	42100 Crescent Blvd.	Novi	48375	Oakland	Private	Indoor
British Swim School - South Lyon	22185 Pontiac Trail	South Lyon	48178	Oakland	Private	Indoor
British Swim School - Wise Academy	922 N. Beech Daly Rd.	Dearborn Heights	48127	Wayne	Private	Indoor
Buhr Park Pool	2751 Packard St.	Ann Arbor	48108	Washtenaw	Public	Outdoor
Carls Family YMCA	3300 Family Dr.	Milford	48381	Oakland	Non-Profit	Both
Castle Garden Swim Club	14501 Hix St.	Livonia	48154	Wayne	Private	Outdoor
Charles S. Cameron Pool	445 Mayer Dr.	Chelsea	48118	Washtenaw	Public	Indoor
Chelsea Wellness Center	14800 E. Old Hwy 12	Chelsea	48118	Washtenaw	Private	Indoor
Chippewa Club	2525 Gofside Dr.	Ypsilanti	48197	Washtenaw	Private	Outdoor

Clements Circle Park Pool	9999 Harrison St.	Livonia	48150	Wayne	Public	Outdoor
Coleman A. Young Recreation Center	2751 Robert Bradby Dr.	Detroit	48207	Wayne	Public	Indoor
Colony Swim Club	8300 N. Beck Rd.	Canton	48187	Wayne	Private	Outdoor
Cranbrook Swim Club	30580 Evergreen Rd.	Southfield	48076	Oakland	Private	Outdoor
Dearborn Country Club	800 N. Military St.	Dearborn	48124	Wayne	Private	Outdoor
Dexter Community Pool	3060 Kensington St.	Dexter	48130	Washtenaw	Public	Indoor
Donald B. Canham Natatorium - University of Michigan	500 E. Hoover Ave.	Ann Arbor	48104	Washtenaw	Private	Indoor
Downriver Family YMCA	16777 Northline Rd.	Southgate	48195	Wayne	Non-Profit	Indoor
Dunworth Pool & Water Park	801 N. Denwood St.	Dearborn	48128	Wayne	Public	Outdoor
Edgewood Country Club	8399 Commerce Rd.	Commerce Charter Township	48383	Oakland	Private	Outdoor
Eisenhower High School Pool	6500 25 Mile Rd.	Shelby Township	48316	Macomb	Private	Indoor
Farmington Family YMCA	28100 Farmington Rd.	Farmington Hills	48334	Oakland	Non-Profit	Indoor
Flat Rock Community Center	1 Maguire St.	Flat Rock	48134	Wayne	Public	Indoor
Ford Woods Pool & Water Park	5700 Greenfield Rd.	Dearborn	48126	Wayne	Public	Outdoor
Forest Lake Country Club	1401 Club Drive	Bloomfield Hills	48302	Oakland	Private	Outdoor
Franklin Hills Country Club	31675 Inkster Road	Franklin	48025	Oakland	Private	Outdoor
Fraser Aquatics	34270 Garfield	Fraser	48026	Macomb	Private	Indoor
Fuller Park Pool	1519 Fuller Rd.	Ann Arbor	48105	Washtenaw	Public	Outdoor
Georgetown Country Club	1365 King George Blvd.	Ann Arbor	48108	Washtenaw	Private	Outdoor
Goldfish Swim School - Ann Arbor	2107 West Stadium Blvd.	Ann Arbor	48103	Washtenaw	Private	Indoor
Goldfish Swim School - Birmingham	2388 Cole St. Ste. 101	Birmingham	48009	Oakland	Private	Indoor
Goldfish Swim School - Canton	225 Sheldon Rd.	Canton	48187	Wayne	Private	Indoor
Goldfish Swim School - Clarkston	6340 Waldon Center Dr.	Village of Clarkston	48346	Oakland	Private	Indoor
Goldfish Swim School - Farmington Hills	22710 Haggerty Rd. #200	Farmington Hills	48335	Oakland	Private	Indoor
Goldfish Swim School - Macomb	18377 Hall Rd.	Macomb	48044	Macomb	Private	Indoor



Goldfish Swim School - Rochester	550 South Street	Rochester	48307	Oakland	Private	Indoor
Great Lakes Athletic Club	3800 Baldwin Rd.	Lake Orion	48359	Oakland	Private	Both
Grosse Pointe Shores Pool	800 Lake Shores Rd.	Grosse Pointe Shores	48236	Wayne	Private	Outdoor
Hamburg Fitness Center & Campsite	8540 Hamburg Rd.	Brighton	48116	Livingston	Private	Indoor
Hartland Caroselli Aquatic Center	10635 Dunham Rd.	Hartland	48353	Livingston	Public	Indoor
Heilmann Recreation Center Pool	19601 Crusade St.	Detroit	48205	Wayne	Public	Indoor
Highlander Aquatic & Fitness Center	1224 W. Grand River Rd.	Howell	48843	Livingston	Public	Indoor
Huron Valley Pools & Fitness	1630 Bogie Lake Rd.	White Lake	48383	Oakland	Private	Indoor
Huron Valley Swim Club	4601 Park Rd.	Ann Arbor	48103	Washtenaw	Private	Outdoor
Island Lake of Novi Swimming Pool	50444 Drakes Bay Dr.	Novi	48374	Oakland	Private	Outdoor
Jack E. Kirksey Livonia Community Recreation Center	15100 Hubbard St.	Livonia	48154	Wayne	Public	Indoor
Jewish Community Center of Metropolitan Detroit	6600 W. Maple Rd.	West Bloomfield Township	48322	Oakland	Non-Profit	Both
Joseph Walker Williams Center	8431 Rosa Parks Blvd.	Detroit	48206	Wayne	Public	Indoor
Kennedy Aquatic Center	3101 West Rd.	Trenton	48183	Wayne	Public	Outdoor
Knollwood Country Club	5050 West Maple Road	West Bloomfield	48322	Oakland	Private	Outdoor
LA Fitness - Bloomfield Hills	2050 South Telegraph Rd.	Bloomfield Hills	48302	Oakland	Private	
LA Fitness - Clinton Township	17500 Hall Road	Clinton Township	48038	Macomb	Private	Indoor
LA Fitness - Grosse Pointe Woods	22327 Moross Rd.	Detroit	48236	Wayne	Private	Indoor
LA Fitness - Livonia	30273 Plymouth Rd.	Livonia	48150	Wayne	Private	Indoor
LA Fitness - Livonia North	29659 7 Mile Rd.	Livonia	48152	Wayne	Private	Indoor
LA Fitness - Plymouth	41128 Ann Arbor Rd. E	Plymouth	48170	Wayne	Private	Indoor
LA Fitness - Roseville	31055 Gratiot Ave.	Roseville	48066	Macomb	Private	Indoor
LA Fitness - Royal Oaks	25352 Woodward Ave.	Royal Oak	48067	Oakland	Private	Indoor
LA Fitness - Southfield	28661 Telegraph Rd.	Southfield	48034	Oakland	Private	Indoor
LA Fitness - Sterling Heights	44777 Mpimd Rd.	Sterling Heights	48314	Macomb	Private	Indoor
LA Fitness - Troy Big Beaver Rd.	710 E. Big Beaver Rd.	Troy	48083	Oakland	Private	Indoor

LA Fitness - Troy Maple Rd.	3501 West Maple Rd. Suite A	Troy	48084	Oakland	Private	Indoor
Lac Sainte Clair Pool	27600 Jefferson Ave.	St. Clair Shores	48081	Macomb	Public	Outdoor
Lake Erie Metropark	32481 W. Jefferson Ave.	Brownstown Charter Township	48173	Wayne	Non-Profit	Outdoor
Lapeer Pool	13614 Michigan Ave.	Dearborn	48126	Wayne	Public	Outdoor
Liberty Athletic Club	2975 W. Liberty Rd.	Ann Arbor	48103	Washtenaw	Private	Both
Life Time - Canton	1700 N. Haggerty Rd.	Canton	48187	Wayne	Private	Both
Life Time - Commerce Charter	2901 Commerce Crossing	Commerce Charter Township	48390	Oakland	Private	Both
Life Time - Novi	40000 High Pointe Blvd.	Novi	48375	Oakland	Private	Both
Life Time - Rochester Hills	200 W. Avon Rd.	Rochester Hills	48307	Oakland	Private	Both
Life Time - Shelby Township	14843 Lakeside Blvd. N	Shelby Township	48315	Macomb	Private	Both
Life Time - Troy	4700 Investment Dr.	Troy	48098	Oakland	Private	Indoor
Lower Huron Metropark Turtle Cove Family Aquatic Center	40151 E Huron River Dr	Belleville	48111	Wayne	Non-Profit	Outdoor
Mack Indoor Pool	715 Brooks St.	Ann Arbor	48103	Washtenaw	Public	Indoor
Macomb Family YMCA	10 N. River Rd.	Mt. Clemens	48043	Macomb	Non-Profit	Indoor
Macomb Township Recreation Center	20699 Macomb St.	Macomb	48042	Macomb	Public	Indoor
Matthaei Center Pool - Wayne State University	42 W. Warren Ave.	Detroit	48202	Wayne	Private	Indoor
Melvindale Veterans Memorial Pool	3155 Oakwood Boulevard	Melvindale	48122	Wayne	Public	Outdoor
Meri Lou Murray Recreation Center	2960 Washtenaw Ave.	Ann Arbor	48104	Washtenaw	Public	Indoor
Michael H. Jones Natatorium - Eastern Michigan University	100 Olds/Robb	Ypsilanti	48197	Washtenaw	Private	Indoor
Neff Park Pool	17150 E. Jefferson Ave.	Grosse Pointe	48230	Wayne	Public	Outdoor
Neighborhood Club	17150 Waterloo St.	Grosse Pointe	48230	Wayne	Private	Indoor
Newburgh Swim Club	15915 Newburgh Rd.	Livonia	48154	Wayne	Private	Outdoor
North Campus Recreation Building - University of Michigan	2375 Hubbard Rd.	Ann Arbor	48109	Washtenaw	Private	Indoor
Northville Swim Club	646 W. Baseline Rd.	Northville	48167	Oakland	Private	Outdoor

Northwest Activities Center	18100 Myers Rd.	Detroit	48235	Wayne	Public	Indoor
Oak Park Municipal Pool	14300 Oak Park Blvd.	Oak Park	48237	Oakland	Public	Outdoor
Oak Pointe Country Club	4500 Club Dr.	Brighton	48116	Livingston	Private	Outdoor
Oakland University Aquatic Center	2200 N. Squirrel Rd.	Rochester	48309	Oakland	Public	Indoor
Orchard Hills Athletic Club	2050 Prairie St.	Ann Arbor	48105	Washtenaw	Private	Outdoor
Orchard Hills Athletic Club - Dolphin Pool	2050 Prairie St.	Ann Arbor	48105	Washtenaw	Private	Outdoor
Paint Creek Country Club	2375 Stanton Rd.	Lake Orion	48362	Oakland	Private	Outdoor
Patton Community Center Pool	2301 Woodmere St.	Detroit	48209	Wayne	Public	Indoor
Pier Park Pool & Beach	350 Lake Shore Rd.	Grosse Pointe Farms	48236	Wayne	Public	Outdoor
Pleasant Ridge Community Pool	4 Ridge Rd.	Pleasant Ridge	48069	Oakland	Public	Outdoor
Plum Hollow Country Club	21631 Lahser Road	Southfield	48033	Oakland	Private	Outdoor
Powerhouse Gym - Novi	44125 12 Mile Rd. Ste. E-123	Novi	48377	Oakland	Private	Indoor
Powerhouse Gym - West Bloomfield	4805 Haggerty Rd.	West Bloomfield	48323	Oakland	Private	Indoor
Racquet Club of Ann Arbor	3010 Hickory Lane	Ann Arbor	48104	Washtenaw	Private	Outdoor
Red Oaks Waterpark	1455 E. Thirteen Mile Rd.	Madison Heights	48071	Oakland	Private	Outdoor
Richmond Community Pool	69310 Beebe St.	Richmond	48062	Macomb	Public	Outdoor
Rolling Hills Water Park	7660 Stony Creek Rd.	Ypsilanti	48197	Washtenaw	Public	Outdoor
Romulus Athletic Center	35765 Northline Rd.	Romulus	48174	Wayne	Public	Indoor
Royal Oak Township Recreation Center	21272 Mendota Ave.	Ferndale	48220	Oakland	Public	Outdoor
Rutherford Pool	975 Congress St.	Ypsilanti	48197	Washtenaw	Private	Outdoor
Saline Park & Recreation Aquatic Center	1866 Woodland Dr. E	Saline	48176	Washtenaw	Public	Indoor
Shelden Swimming Pool	33123 Van Ct. Ave.	Livonia	48150	Wayne	Public	Outdoor
Somerset Swim Club	18525 Masonic	Fraser	48026	Macomb	Private	Outdoor
South Oakland Family YMCA	1016 W. Eleven Mile Rd.	Royal Oak	48067	Oakland	Non-Profit	Indoor

Southfield Sports Arena Pool	26000 Evergreen Rd.	Southfield	48076	Oakland	Public	Outdoor
Stoney Creek High School Pool	575 East Tienken Road	Rochester Hills	48307	Oakland	Private	Indoor
Summer-Stephens Pool	Stephens St.	Dearborn	48124	Wayne	Public	Outdoor
Summit on the Park Aquatic Center	46000 Summit Pkwy.	Canton	48188	Wayne	Public	Indoor
Swimming Pool at Lake St. Clair Metro Park	31300 Metro Pkwy.	Harrison Township	48045	Macomb	Non-Profit	Outdoor
Ten Eyck Park Pool	18541 Pine St.	Dearborn	48124	Wayne	Public	Outdoor
The Hawk - Farmington Hills Community Center	29995 W. 12 Mile Rd.	Farmington Hills	48334	Oakland	Public	Indoor
The Health & Fitness Center at Washtenaw Community College	4833 E. Huron River Dr.	Ann Arbor	48105	Washtenaw	Private	Indoor
Troy Community Centre Pool	3179 Livernois Rd.	Troy	48083	Oakland	Public	Indoor
Troy Family Aquatic Center	52401 Ashley St.	New Baltimore	48047	Oakland	Public	Outdoor
Troy Gym	1311 Maplelawn	Troy	48084	Oakland	Private	Indoor
Veteran's Memorial Park Pool & Ice Arena	2150 Jackson Ave.	Ann Arbor	48103	Washtenaw	Public	Outdoor
Wabeek Country Club	4000 Clubgate Dr.	Bloomfield Township	48302	Oakland	Private	Outdoor
Warren Community Center	5460 Arden Ave.	Warren	48092	Macomb	Public	Indoor
Waterford Mott High School Pool & Fitness Center	1151 Scott Lake Road	Waterford	48328	Oakland	Public	Indoor
Waterford Oaks Waterpark	1702 Scott Lake Rd.	Waterford Township	48328	Oakland	Public	Outdoor
Water's Edge Pool	9339 Bellevue Rd.	Grosse Ile Township	48138	Wayne	Public	Outdoor
West Bloomfield Family Aquatic Center	6200 Farmington Road	West Bloomfield Township	48322	Oakland	Public	Outdoor
Whitmore Lake Community Pool	8845 Main St.	Whitmore Lake	48189	Washtenaw	Public	Indoor
Willow Pool at Willow Metropark	23200 S. Huron Rd.	New Boston	48164	Wayne	Non-Profit	Outdoor
Windmill Pointe Park Pool	14920 Windmill Pointe Dr.	Grosse Pointe	48230	Wayne	Public	Outdoor

## Facilities and Amenities

Facility Name	Indoor/Outdoor	Multipurpose Pool	Lap Pool	Slide	Diving Board	Recreation Pool
Adams Butzel Recreation Complex	Indoor	Yes	Yes	No	No	
Anchor Bay Aquatic Center	Indoor	Yes			Yes	
Ann Arbor YMCA	Indoor	Yes	Yes			
Aqua-Tots Swim School - Canton	Indoor	Yes				
Aqua-Tots Swim School - Dearborn	Indoor					
Aqua-Tots Swim School - Farmington Hills	Indoor	Yes				
Aqua-Tots Swim School - Novi	Indoor	Yes				
Aqua-Tots Swim School - Sterling Heights	Indoor					
Aqua-Tots Swim School - Troy	Indoor	Yes				
Beechview Swim and Tennis Club	Outdoor	Yes			Yes	
Birmingham Athletic Club	Outdoor	Yes			Yes	
Birmingham Family YMCA	Indoor					
Boll Family YMCA	Indoor		Yes			Yes
Brandon Aquatic & Fitness Center	Indoor	Yes			Yes	
Brennan Pools	Outdoor					Yes
British Swim School - Northwest Detroit	Indoor					
British Swim School - South Lyon	Indoor					
British Swim School - Wise Academy	Indoor					
Buhr Park Pool	Outdoor	Yes				Yes
Carls Family YMCA	Both		Yes			Yes
Castle Garden Swim Club	Outdoor	Yes		Yes		
Charles S. Cameron Pool	Indoor	Yes			Yes	
Chelsea Wellness Center	Indoor		Yes			
Chippewa Club	Outdoor	Yes			Yes	
Clements Circle Park Pool	Outdoor	Yes		Yes		
Coleman A. Young Recreation Center	Indoor	Yes				
Colony Swim Club	Outdoor	Yes		Yes	Yes	
Cranbrook Swim Club	Outdoor	Yes	Yes			
Dearborn Country Club	Outdoor	Yes			Yes	



Dexter Community Pool	Indoor	Yes		Yes
Donald B. Canham Natatorium - University of Michigan	Indoor	Yes		Yes
Downriver Family YMCA	Indoor	Yes	Yes	
Dunworth Pool & Water Park	Outdoor	Yes	Yes	
Edgewood Country Club	Outdoor	Yes		Yes
Eisenhower High School Pool	Indoor			Yes
Farmington Family YMCA	Indoor		Yes	
Flat Rock Community Center	Indoor	Yes	Yes	
Ford Woods Pool & Water Park	Outdoor	Yes	Yes	
Forest Lake Country Club	Outdoor	Yes		Yes
Franklin Hills Country Club	Outdoor	Yes		Yes
Fraser Aquatics	Indoor	Yes		Yes
Fuller Park Pool	Outdoor	Yes	Yes	
Georgetown Country Club	Outdoor	Yes		Yes
Goldfish Swim School - Ann Arbor	Indoor	Yes		
Goldfish Swim School - Birmingham	Indoor	Yes		
Goldfish Swim School - Canton	Indoor	Yes		
Goldfish Swim School - Clarkston	Indoor	Yes		
Goldfish Swim School - Farmington Hills	Indoor	Yes		
Goldfish Swim School - Macomb	Indoor	Indoor		
Goldfish Swim School - Rochester	Indoor	Yes		
Great Lakes Athletic Club	Both	Yes	Yes	Yes
Grosse Pointe Shores Pool	Outdoor	Yes		
Hamburg Fitness Center & Campsite	Indoor	Yes		
Hartland Caroselli Aquatic Center	Indoor	Yes	Yes	Yes
Heilmann Recreation Center Pool	Indoor	Ywa		
Highlander Aquatic & Fitness Center	Indoor	Yes	Yes	
Huron Valley Pools & Fitness	Indoor	Yes		Yes
Huron Valley Swim Club	Outdoor	Yes	Yes	Yes
Island Lake of Novi Swimming Pool	Outdoor			Yes
Jack E. Kirksey Livonia Community Recreation Center	Indoor		Yes	Yes

Jewish Community Center of Metropolitan Detroit	Both	Yes			Yes
Joseph Walker Williams Center	Indoor	Yes			
Kennedy Aquatic Center	Outdoor	Yes		Yes	
Knollwood Country Club	Outdoor	Yes			
LA Fitness - Bloomfield Hills					
LA Fitness - Clinton Township	Indoor			Yes	
LA Fitness - Grosse Pointe Woods	Indoor			Yes	
LA Fitness - Livonia	Indoor				
LA Fitness - Livonia North	Indoor			Yes	
LA Fitness - Plymouth	Indoor			Yes	
LA Fitness - Roseville	Indoor			Yes	
LA Fitness - Royal Oaks	Indoor	Yes		Yes	
LA Fitness - Southfield	Indoor			Yes	
LA Fitness - Sterling Heights	Indoor			Yes	
LA Fitness - Troy Big Beaver Rd.	Indoor			Yes	
LA Fitness - Troy Maple Rd.	Indoor			Yes	
Lac Sainte Clair Pool	Outdoor	Yes		Yes	
Lake Erie Metropark	Outdoor				Yes
Lapeer Pool	Outdoor				Yes
Liberty Athletic Club	Both	Yes		Yes	Yes
Life Time - Canton	Both			Yes	Yes
Life Time - Commerce Charter	Both			Yes	Yes
Life Time - Novi	Both			Yes	Yes
Life Time - Rochester Hills	Both			Yes	Yes
Life Time - Shelby Township	Both			Yes	Yes
Life Time - Troy	Indoor			Yes	Yes
Low					
er Huron Metropark Turtle Cove Family Aquatic Center	Outdoor			Yes	Yes
Mack Indoor Pool	Indoor	Yes			
Macomb Family YMCA	Indoor	Yes			
Macomb Township Recreation Center	Indoor	Yes		Yes	Yes

Matthaei Center Pool - Wayne State University	Indoor		Yes		
Melvindale Veterans Memorial Pool	Outdoor				Yes
Meri Lou Murray Recreation Center	Indoor	Yes			
Michael H. Jones Natatorium - Eastern Michigan University	Indoor	Yes		Yes	
Neff Park Pool	Outdoor	Yes		Yes	
Neighborhood Club	Indoor	Yes			
Newburgh Swim Club	Outdoor	Yes		Yes	Yes
North Campus Recreation Building - University of Michigan	Indoor	Yes			
Northville Swim Club	Outdoor	Yes			
Northwest Activities Center	Indoor	Yes			
Oak Park Municipal Pool	Outdoor	Yes			
Oak Pointe Country Club	Outdoor	Yes		Yes	Yes
Oakland University Aquatic Center	Indoor	Yes		Yes	
Orchard Hills Athletic Club	Outdoor			Yes	Yes
Orchard Hills Athletic Club - Dolfen Pool	Outdoor	Yes		Yes	
Paint Creek Country Club	Outdoor	Yes			Yes
Patton Community Center Pool	Indoor		Yes		
Pier Park Pool & Beach	Outdoor	Yes		Yes	Yes
Pleasant Ridge Community Pool	Outdoor			Yes	Yes
Plum Hollow Country Club	Outdoor	Yes		Yes	
Powerhouse Gym - Novi	Indoor		Yes		
Powerhouse Gym - West Bloomfield	Indoor		Yes		
Racquet Club of Ann Arbor	Outdoor	Yes		Yes	Yes
Red Oaks Waterpark	Outdoor			Yes	Yes
Richmond Community Pool	Outdoor			Yes	Yes
Rolling Hills Water Park	Outdoor			Yes	Yes
Romulus Athletic Center	Indoor		Yes	Yes	Yes
Royal Oak Township Recreation Center	Outdoor				Yes
Rutherford Pool	Outdoor	Yes		Yes	
Saline Park & Recreation Aquatic Center	Indoor	Yes		Yes	
Shelden Swimming Pool	Outdoor	Yes			

Somerset Swim Club	Outdoor				Yes
South Oakland Family YMCA	Indoor	Yes			
Southfield Sports Arena Pool	Outdoor	Yes		Yes	
Stoney Creek High School Pool	Indoor		Yes		
Summer-Stephens Pool	Outdoor				Yes
Summit on the Park Aquatic Center	Indoor		Yes	Yes	Yes
Swimming Pool at Lake St. Clair Metro Park	Outdoor			Yes	Yes
Ten Eyck Park Pool	Outdoor				Yes
The Hawk - Farmington Hills Community Center	Indoor	Yes		Yes	
The Health & Fitness Center at Washtenaw Community College	Indoor		Yes		
Troy Community Centre Pool	Indoor	Yes		Yes	
Troy Family Aquatic Center	Outdoor	Yes			
Troy Gym	Indoor	Yes			
Veteran's Memorial Park Pool & Ice Arena	Outdoor	Yes		Yes	
Wabeek Country Club	Outdoor				Yes
Warren Community Center	Indoor			Yes	Yes
Waterford Mott High School Pool & Fitness Center	Indoor		Yes	Yes	Yes
Waterford Oaks Waterpark	Outdoor				Yes
Water's Edge Pool	Outdoor	Yes			
West Bloomfield Family Aquatic Center	Outdoor	Yes		Yes	
Whitmore Lake Community Pool	Indoor		Yes	Yes	Yes
Willow Pool at Willow Metropark	Outdoor	Yes		Yes	Yes
Windmill Pointe Park Pool	Outdoor	Yes		Yes	

## Facilities and Swim Programs

Facility Name	Open Swimming	Lap Swimming	Fitness Classes	Child Swim Lessons	Adult Swim Lessons	Public Lifeguard Classes
Adams Butzel Recreation Complex	Yes	Yes	Yes	Yes		
Anchor Bay Aquatic Center	Yes	Yes	Yes	Yes		
Ann Arbor YMCA	Yes	Yes	Yes	Yes	Yes	
Aqua-Tots Swim School - Canton	Yes			Yes		
Aqua-Tots Swim School - Dearborn				Yes		
Aqua-Tots Swim School - Farmington Hills	Yes			Yes		
Aqua-Tots Swim School - Novi	Yes			Yes		
Aqua-Tots Swim School - Sterling Heights				Yes		
Aqua-Tots Swim School - Troy	Yes			Yes		
Beechview Swim and Tennis Club	Yes	Yes				
Birmingham Athletic Club	Yes	Yes		Yes		
Birmingham Family YMCA	Yes	Yes	Yes			
Boll Family YMCA				Yes	Yes	
Brandon Aquatic & Fitness Center	Yes	Yes	Yes	Yes		
Brennan Pools	Yes	Yes		Yes		
British Swim School - Northwest Detroit				Yes		
British Swim School - South Lyon				Yes	Yes	
British Swim School - Wise Academy				Yes	Yes	
Buhr Park Pool	Yes	Yes				
Carls Family YMCA		Yes		Yes	Yes	
Castle Garden Swim Club	Yes	Yes		Yes		
Charles S. Cameron Pool	Yes	Yes		Yes	Yes	Yes
Chelsea Wellness Center		Yes	Yes	Yes		
Chippewa Club	Yes	Yes		Yes		
Clements Circle Park Pool	Yes	Yes		Yes		
Coleman A. Young Recreation Center	Yes	Yes	Yes	Yes		
Colony Swim Club				Yes		
Cranbrook Swim Club	Yes	Yes		Yes		



Dearborn Country Club				Yes	
Dexter Community Pool	Yes	Yes	Yes	Yes	
Donald B. Canham Natatorium - University of Michigan					
Downriver Family YMCA	Yes	Yes	Yes	Yes	
Dunworth Pool & Water Park	Yes	Yes			
Edgewood Country Club					
Eisenhower High School Pool		Yes	Yes	Yes	Yes
Farmington Family YMCA	Yes	Yes	Yes	Yes	Yes
Flat Rock Community Center	Yes	Yes	Yes	Yes	Yes
Ford Woods Pool & Water Park	Yes			Yes	Yes
Forest Lake Country Club	Yes	Yes		Yes	
Franklin Hills Country Club	Yes	Yes		Yes	
Fraser Aquatics				Yes	
Fuller Park Pool	Yes	Yes	Yes		
Georgetown Country Club	Yes	Yes		Yes	
Goldfish Swim School - Ann Arbor	Yes			Yes	
Goldfish Swim School - Birmingham	Yes			Yes	
Goldfish Swim School - Canton	Yes			Yes	
Goldfish Swim School - Clarkston	Yes			Yes	
Goldfish Swim School - Farmington Hills	Yes			Yes	
Goldfish Swim School - Macomb	Yes			Yes	
Goldfish Swim School - Rochester				Yes	
Great Lakes Athletic Club	Yes	Yes	Yes	Yes	
Grosse Pointe Shores Pool	Yes	Yes			
Hamburg Fitness Center & Campsite	Yes	Yes	Yes	Yes	
Hartland Caroselli Aquatic Center	Yes	Yes	Yes	Yes	Yes
Heilmann Recreation Center Pool	Yes	Yes	Yes	Yes	
Highlander Aquatic & Fitness Center	Yes	Yes	Yes	Yes	
Huron Valley Pools & Fitness	Yes	Yes	Yes	Yes	
Huron Valley Swim Club				Yes	

Island Lake of Novi Swimming Pool	Yes				
Jack E. Kirksey Livonia Community Recreation Center	Yes	Yes			
Jewish Community Center of Metropolitan Detroit	Yes	Yes	Yes	Yes	
Joseph Walker Williams Center	Yes	Yes		Yes	
Kennedy Aquatic Center	Yes	Yes	Yes	Yes	
Knollwood Country Club	Yes	Yes			
LA Fitness - Bloomfield Hills		Yes	Yes		
LA Fitness - Clinton Township		Yes	Yes		
LA Fitness - Grosse Pointe Woods		Yes	Yes		
LA Fitness - Livonia		Yes	Yes		
LA Fitness - Livonia North		Yes	Yes		
LA Fitness - Plymouth		Yes	Yes		
LA Fitness - Roseville		Yes	Yes		
LA Fitness - Royal Oaks	Yes	Yes	Yes	Yes	Yes
LA Fitness - Southfield		Yes	Yes		
LA Fitness - Sterling Heights		Yes	Yes		
LA Fitness - Troy Big Beaver Rd.		Yes	Yes		
LA Fitness - Troy Maple Rd.		Yes	Yes	No	No
Lac Sainte Clair Pool				Yes	
Lake Erie Metropark	Yes				
Lapeer Pool	Yes	Yes			
Liberty Athletic Club	Yes	Yes		Yes	
Life Time - Canton	Yes	Yes	Yes		
Life Time - Commerce Charter	Yes	Yes	Yes	Yes	
Life Time - Novi	Yes	Yes	Yes	Yes	
Life Time - Rochester Hills	Yes	Yes	Yes	Yes	
Life Time - Shelby Township	Yes	Yes	Yes		
Life Time - Troy	Yes	Yes	Yes	Yes	
Lower Huron Metropark Turtle Cove Family Aquatic Center					
Mack Indoor Pool	Yes	Yes		Yes	

Macomb Family YMCA	Yes	Yes	Yes	Yes	Yes	
Macomb Township Recreation Center	Yes	Yes			Yes	
Matthaei Center Pool - Wayne State University	Yes	Yes				
Melvindale Veterans Memorial Pool	Yes					
Meri Lou Murray Recreation Center	Yes	Yes	Yes	Yes		
Michael H. Jones Natatorium - Eastern Michigan University	Yes	Yes	Yes			
Neff Park Pool	Yes	Yes			Yes	Yes
Neighborhood Club	Yes	Yes	Yes	Yes		Yes
Newburgh Swim Club					Yes	
North Campus Recreation Building - University of Michigan	Yes	Yes	Yes			
Northville Swim Club	Yes	Yes			Yes	
Northwest Activities Center	Yes	Yes	Yes			
Oak Park Municipal Pool	Yes	Yes			Yes	Yes
Oak Pointe Country Club	Yes	Yes			Yes	Yes
Oakland University Aquatic Center	Yes	Yes				
Orchard Hills Athletic Club	Yes	Yes			Yes	Yes
Orchard Hills Athletic Club - Dolfin Pool	Yes	Yes				
Paint Creek Country Club	Yes	Yes				
Patton Community Center Pool	Yes	Yes	Yes	Yes		
Pier Park Pool & Beach	Yes	Yes				
Pleasant Ridge Community Pool		Yes			Yes	
Plum Hollow Country Club	Yes	Yes			Yes	
Powerhouse Gym - Novi		Yes	Yes			
Powerhouse Gym - West Bloomfield		Yes	Yes			
Racquet Club of Ann Arbor	Yes	Yes			Yes	
Red Oaks Waterpark	Yes					
Richmond Community Pool					Yes	Yes
Rolling Hills Water Park	Yes					
Romulus Athletic Center	Yes	Yes	Yes	Yes		
Royal Oak Township Recreation Center	Yes					

Rutherford Pool	Yes	Yes	Yes	Yes	
Saline Park & Recreation Aquatic Center	Yes	Yes	Yes	Yes	Yes
Shelden Swimming Pool	Yes	Yes		Yes	
Somerset Swim Club	Yes	Yes			
South Oakland Family YMCA	Yes	Yes		Yes	Yes
Southfield Sports Arena Pool	Yes	Yes	Yes	Yes	
Stoney Creek High School Pool	Yes	Yes			
Summer-Stephens Pool	Yes				
Summit on the Park Aquatic Center	Yes	Yes	Yes	Yes	Yes
Swimming Pool at Lake St. Clair Metro Park	Yes				
Ten Eyck Park Pool	Yes		Yes		
The Hawk - Farmington Hills Community Center	Yes	Yes	Yes	Yes	Yes
The Health & Fitness Center at Washtenaw Community College	Yes	Yes	Yes		Yes
Troy Community Centre Pool	Yes	Yes	Yes	Yes	
Troy Family Aquatic Center	Yes	Yes		Yes	Yes
Troy Gym	Yes	Yes	Yes	Yes	Yes
Veteran's Memorial Park Pool & Ice Arena	Yes	Yes		Yes	
Wabeek Country Club	Yes				
Warren Community Center		Yes	Yes	Yes	
Waterford Mott High School Pool & Fitness Center	Yes	Yes	Yes	Yes	Yes
Waterford Oaks Waterpark	Yes				
Water's Edge Pool	Yes	Yes	Yes	Yes	
West Bloomfield Family Aquatic Center	Yes	Yes			
Whitmore Lake Community Pool	Yes	Yes	Yes	Yes	
Willow Pool at Willow Metropark	Yes				
Windmill Pointe Park Pool	Yes	Yes		Yes	

## Facilities and Membership Rates

Facility Name	Adult Resident Fee	Family Resident Fee	Group Lesson Fee/Per Lesson
Adams Butzel Recreation Complex	\$5/day; \$10/membership		6
Anchor Bay Aquatic Center	\$40/summer		10
Ann Arbor YMCA	\$52/month membership	\$100/month membership	8.57
Aqua-Tots Swim School - Canton			23
Aqua-Tots Swim School - Dearborn			23
Aqua-Tots Swim School - Farmington Hills			23
Aqua-Tots Swim School - Novi			23
Aqua-Tots Swim School - Sterling Heights			23
Aqua-Tots Swim School - Troy			23
Beechview Swim and Tennis Club			16.25
Birmingham Athletic Club			Unable to determine
Birmingham Family YMCA	\$49/month	\$86/month	
Boll Family YMCA	\$49/month	\$86/month	11
Brandon Aquatic & Fitness Center	\$2/day		7
Brennan Pools		2	Free for residents (called no pickup)
British Swim School - Northwest Detroit			28.5
British Swim School - South Lyon			22
British Swim School - Wise Academy			22
Buhr Park Pool		6	
Carls Family YMCA		49	86 13.6
Castle Garden Swim Club			475 30
Charles S. Cameron Pool		3	5
Chelsea Wellness Center	\$70/year		7
Chippewa Club	\$495/season	\$945/season	Unable to determine
Clements Circle Park Pool		5	10
Coleman A. Young Recreation Center		10	6
Colony Swim Club	\$425/year	\$900/year	8



Cranbrook Swim Club		\$650/year		17.5
Dearborn Country Club				Unable to determine
Dexter Community Pool	3		15	No swim lessons at this time
Donald B. Canham Natatorium - University of Michigan				
Downriver Family YMCA	\$49/month	\$86/month		15
Dunworth Pool & Water Park			5	
Edgewood Country Club		\$280/month		
Eisenhower High School Pool	Not open to public			Unable to determine
Farmington Family YMCA	\$49/month	\$86/month		13
Flat Rock Community Center				Unable to determine
Ford Woods Pool & Water Park			4	24
Forest Lake Country Club				Unable to determine
Franklin Hills Country Club				Unable to determine
Fraser Aquatics				9
Fuller Park Pool			6	
Georgetown Country Club	\$680/year	\$1595/year		11
Goldfish Swim School - Ann Arbor				28
Goldfish Swim School - Birmingham				27.5
Goldfish Swim School - Canton				27.5
Goldfish Swim School - Clarkston				27.5
Goldfish Swim School - Farmington Hills				27.5
Goldfish Swim School - Macomb				27.5
Goldfish Swim School - Rochester				25
Great Lakes Athletic Club	\$60/month			20
Grosse Pointe Shores Pool	Open only to residents; free for residents			Open to residents only; free for residents (Cannot find info)
Hamburg Fitness Center & Campsite	\$40/month			10
Hartland Caroselli Aquatic Center			6	14
Heilmann Recreation Center Pool			10	6
Highlander Aquatic & Fitness Center	\$4.50/session			15
Huron Valley Pools & Fitness	\$5/day			12.5

Huron Valley Swim Club		\$1210/season	25
Island Lake of Novi Swimming Pool	Community pool; open to only community members		
Jack E. Kirksey Livonia Community Recreation Center	\$8.50/day		10
Jewish Community Center of Metropolitan Detroit	\$45/month	\$70/month	Unable to determine
Joseph Walker Williams Center		10	Covid Testing Site (called no pickup)
Kennedy Aquatic Center		5	10
Knollwood Country Club	\$320/month		
LA Fitness - Bloomfield Hills		33	
LA Fitness - Clinton Township	\$33/month		
LA Fitness - Grosse Pointe Woods	\$32/month		
LA Fitness - Livonia	\$33/month		
LA Fitness - Livonia North	\$33/month		
LA Fitness - Plymouth	\$33/month		
LA Fitness - Roseville	\$33/month		
LA Fitness - Royal Oaks	\$40/month		24
LA Fitness - Southfield	\$33/month		
LA Fitness - Sterling Heights	\$33/month		
LA Fitness - Troy Big Beaver Rd.	\$33/month		
LA Fitness - Troy Maple Rd.	\$40/month		
Lac Sainte Clair Pool	\$4.25/day	\$11/day	11
Lake Erie Metropark		8	
Lapeer Pool		3	
Liberty Athletic Club	\$103/month	\$219/month	21.5
Life Time - Canton	\$89/month		
Life Time - Commerce Charter	\$89/month		20
Life Time - Novi	\$89/month		20
Life Time - Rochester Hills	\$89/month		20
Life Time - Shelby Township	\$89/month		
Life Time - Troy	\$89/month		20

Lower Huron Metropark Turtle Cove Family Aquatic Center		12	
Mack Indoor Pool		5	10
Macomb Family YMCA		49	15
Macomb Township Recreation Center		5	11
Matthaei Center Pool - Wayne State University	\$383.25/year		
Melvindale Veterans Memorial Pool		7	
Meri Lou Murray Recreation Center		9	7
Michael H. Jones Natatorium - Eastern Michigan University	\$60/month	\$110/month	
Neff Park Pool	No public access; for residents only	No public access; for residents only	7
Neighborhood Club	\$59/month	\$106/month	13
Newburgh Swim Club		\$570/season	Unable to determine
North Campus Recreation Building - University of Michigan	\$41/3 visits		
Northville Swim Club			25
Northwest Activities Center		10	
Oak Park Municipal Pool		3	12
Oak Pointe Country Club		\$520/month	Unable to determine
Oakland University Aquatic Center	\$45/month		
Orchard Hills Athletic Club	\$220/season	\$500/season	7.5
Orchard Hills Athletic Club - Dolfon Pool	\$220/season	\$500/season	
Paint Creek Country Club		\$599/year	
Patton Community Center Pool	\$5/day; \$10 membership		6
Pier Park Pool & Beach			
Pleasant Ridge Community Pool			Unable to determine
Plum Hollow Country Club			Unable to determine
Powerhouse Gym - Novi	\$25/month		
Powerhouse Gym - West Bloomfield	\$25/month		
Racquet Club of Ann Arbor	\$1395/season	\$1765/season	20

Red Oaks Waterpark		17	
Richmond Community Pool		3	20
Rolling Hills Water Park	\$13/day		
Romulus Athletic Center	\$40/month	\$70/month	16
Royal Oak Township Recreation Center		3	
Rutherford Pool		4	\$275/season 10
Saline Park & Recreation Aquatic Center	\$50/month	\$99/month	12
Shelden Swimming Pool		5	10
Somerset Swim Club	\$200/season	\$350/season	
South Oakland Family YMCA	\$49/month	\$86/month	9
Southfield Sports Arena Pool		5	11
Stoney Creek High School Pool	Not open to public		
Summer-Stephens Pool		3	
Summit on the Park Aquatic Center		7	\$65/month 17.75
Swimming Pool at Lake St. Clair Metro Park		4	
Ten Eyck Park Pool		3	
The Hawk - Farmington Hills Community Center	\$10/day	\$44/month	20
The Health & Fitness Center at Washtenaw Community College	\$70/month		
Troy Community Centre Pool	\$24/month		20
Troy Family Aquatic Center		7	\$60/season 20
Troy Gym			20
Veteran's Memorial Park Pool & Ice Arena		6	7
Wabeek Country Club	\$600/month		
Warren Community Center	\$20/month	\$50/month	16
Waterford Mott High School Pool & Fitness Center	\$23/month	\$45/month	Unable to determine
Waterford Oaks Waterpark		17	
Water's Edge Pool		6	\$170/season 12
West Bloomfield Family Aquatic Center			
Whitmore Lake Community Pool	Free		20

Willow Pool at Willow Metropark	10
Windmill Pointe Park Pool	\$400/year



# Appendix D: Swimming Program Development Plan Steering Committee Presentations

May 26, 2021

1

## Agenda

1. Committee introductions
2. Program Plan Goals and Objectives
3. Survey Questions Review and Discussion – See attachment
4. Survey Implementation
5. Timeline Review



# SPDP Steering Committee

- Huron Clinton Metroparks
  - Amy McMillan
  - Nina Kelly
  - Leah Blizinski
  - Janet Van De Winkle
  - Jay Bibby
  - Jeff Linn (Lake Erie Metropark)
  - Holly Clegg (Lower Huron/Willow Metroparks)
  - Jeff Schuman (Lower Huron/Willow Metroparks)
- Rachel Frierson (Detroit Riverfront Conservancy)
- Erin Casey (City of Detroit Parks and Recreation)

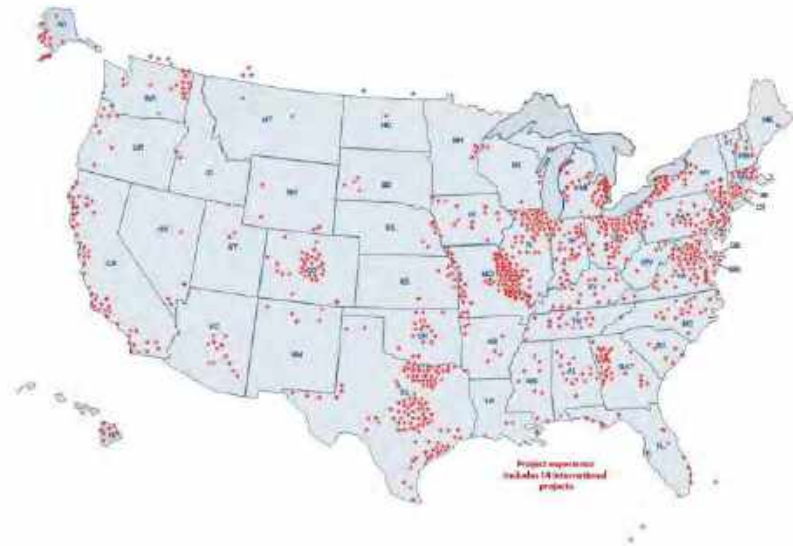


# COUNSILMAN-HUNSAKER

50 years of experience

39 team members

4 locations: St. Louis, Los Angeles, Denver, Dallas



Councilman/Hunsaker & Associates

1970



COUNSILMAN/HUNSAKER  
AND ASSOCIATES

1993



COUNSILMAN · HUNSAKER  
The Ultimate Aquatic Advantage

2005



Councilman · Hunsaker  
AQUATICS FOR LIFE

2013



# ADDITIONAL TEAM MEMBERS

## Sue and Mick Nelson

Total Aquatic Programming

- Stakeholder and community meetings
- Develop goals and objectives
- Aquatic continuum and programming and education expertise



## Jeff Haugen

Left Brain Concepts, Inc.

- Survey development and delivery
- Actionable analysis and reporting



# Goals and Objectives

- 5-county area: Livingston, Macomb, Oakland, Washtenaw and Wayne
  - City of Detroit is a special focus area
- Swim Instruction Programs Inventory
  - ARC/Starguard/Proprietary
- Swimming Ability Improvement
- Water Competence
- Safety Programs
- Facilities Inventory
  - Pertinent features/amenities





# Program Plan Process

- Existing Conditions Study and Report
  - 5-county facility inventory
  - 5-county swim instruction/water safety programs
  - Challenges for swim instruction and water competency
  - Representative survey
- Swimming – related Goals and Objectives
  - Regional stakeholder meetings – August
  - Roles for participation in implementation
- Programming Action Plan
  - Recommendations for Metroparks infrastructure
  - General recommendations for partner agencies
  - Outreach strategy recommendations
  - Focus area recommendations
  - Lifeguard hiring/retention strategies
  - Strategies for raising awareness



# Facility/Program Inventory and Matrix

- Facility and Address
- Instructional Program
- Facility Makeup
  - Indoor/Outdoor
  - Types of Pools
  - Pool Amenities
    - Lap Pool
    - Slides
    - Diving Boards
  - Open Swimming
  - Lap Swimming
- Swim Lessons
  - Average group lesson Fee
  - Adult and child lessons
- Entrance fees
  - Adult resident
  - Family resident
- Lifeguard Program
  - Public lifeguard classes
  - Guard Start/Junior Lifeguarding



# Facility/Program Inventory and Matrix

Lifeguard Agency	(All)
Lifeguards Utilized	(All)

Row Labels	Sum of Estimated Number of Lifeguards	Count of Institution
Bimini	10	1
Eleuthera and Harbour Island	18	0
Grand Bahama/Freeport	31	10
Long Island	0	1
Nassau and Paradise Island	116	18
San Salvador	10	2
The Abacos	0	4
The Berry Islands	10	1
The Exumas	10	5
<b>Grand Total</b>	<b>216</b>	<b>51</b>

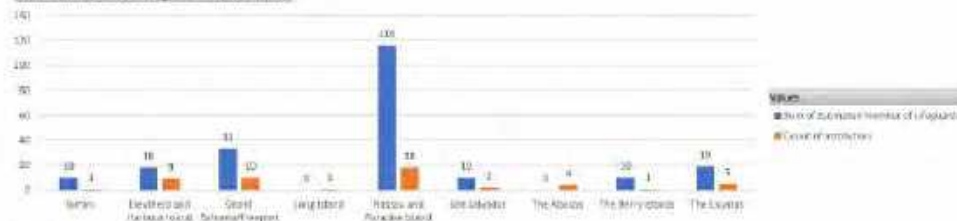
Area
Bimini
Eleuthera and Harbour...
Grand Bahama/Freeport
Long Island
Nassau and Paradise Is...
San Salvador
The Abacos
The Berry Islands

Lifeguards Utilized
No
Unsure
Yes

Area	Institution	Lifeguards Utilized	Lifeguard Agency
The Abacos	Abaco Beach Resort	No	None
Nassau and Paradise Island	Atlantis - Paradise Island	Yes	Starguard
Nassau and Paradise Island	Betty Kelly - Kenning Natatorium	Yes	Unknown
Grand Bahama/Freeport	Bishop Michael Eldon Anglican High School	No	None
Nassau and Paradise Island	Breezes Resort and Spa	Yes	Red Cross
Nassau and Paradise Island	British Colonial Hilton	Yes	Red Cross
Eleuthera and Harbour Island	Cape Eleuthera Resort and Marina	No	None
San Salvador	Carnival Half Moon Cay	Yes	Starguard
San Salvador	Club Med Columbus Isle	Yes	Unknown
The Berry Islands	CocoCay Bahamas	Yes	Starguard
Eleuthera and Harbour Island	Coral Sands Hotel	No	None
The Exumas	Embrace Resort	Unsure	Unknown
Grand Bahama/Freeport	Grand Lucayan Resort	Unsure	Unknown
Grand Bahama/Freeport	Grand Memories Splash	Unsure	Unknown
The Abacos	Green Turtle Club	No	None

Lifeguard Agency: Lifeguards Utilized

Sum of Estimated Number of Lifeguards: Count of Institution



# Survey Discussion

- Goals
  - Swimming abilities
  - Barriers to access
  - Barriers to education
  - Facility use
  - Swim programs
- Survey Review



# Southeast Michigan Swimming Program Development Plan revised 05/27/21



May-21



# Next Meeting Dates

- Survey Final Draft – June 4
- Facility Review Dates (June 10-11)
  - Willow Metropark Pool
  - Lake Erie Metropark Great Wave Pool
  - Lake St. Clair Metropark Pool
- Community Meetings - August





THANK YOU!!



May-21

November 17 and 18, 2021



# Huron-Clinton Metroparks



# Agenda

- Introductions
- Swim Program Overview
- Committee Tasks
- Existing Conditions Review
- Goals and Objectives Discussion

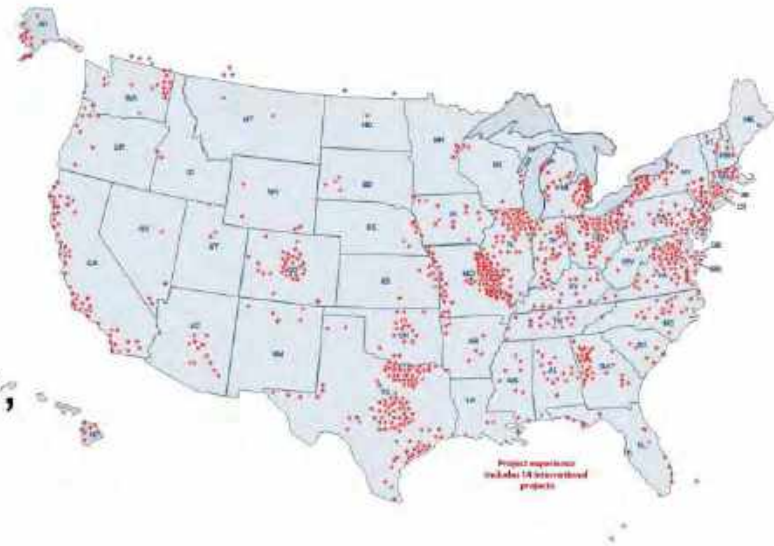


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The Ultimate Aquatic Advantage

2005



Councilman · Hunsaker  
AQUATICS FOR LIFE

2013





# Introductions

- Name
- Organization
- Aquatic background
- Why the swim program interests you



# Southeastern Michigan Swim Program

## ✓ Existing Conditions – “State of Swimming”

- ✓ Inventory and compare amenities and features of public and nonprofit facilities
- ✓ Inventory and categorize swim instruction/water safety programs
- ✓ Identify challenges for swim instruction and water competence programming at Public/Non-Profit Pools
- ✓ Conduct representative survey on swimming abilities, identify barriers to access.

## • Develop Goals and Objectives

- Review “State of Swimming Report” and survey findings
- Identify roles for participating agencies in goals and objectives

## • Develop Programming Action Plan

- Recommendations for Metroparks facility infrastructure renovations to support accessible and inclusive swim programming
- General recommendations for partner facility infrastructure renovations
- Outreach strategies to encourage sign-ups in targeted populations and geographic areas
- Program focus areas
- Strategy for hiring/training/retaining lifeguards
- Marketing strategy for a plan to raise awareness around swimming inequities



# Committee Tasks

- Assist in developing goals/objectives
- Identify areas for partnerships or ways your agency can participate





# FACILITY/PROGRAM INVENTORY



# Facility Inventory

- 146 facilities identified
- 9 different instruction programs identified
  - American Red Cross
  - AQUA Swim School
  - British Swim School
  - Created themselves; American Red Cross-based
  - Custom curriculum
  - Goldfish Swim School curriculum
  - Lifetime curriculum
  - SafeSplash
  - YMCA Swim Lesson curriculum
- Differences in curriculums
  - Ratios
  - Age cutoffs
  - Class names





# Curriculums

	Red Cross	AQUA	British Swim School	Goldfish	Lifetime	Safe Splash	YMCA
<b>Ages</b>	6 months +	2 months +	3 months +	4 months – 12 years	4 month +	6 months +	6 months +
<b>Levels</b>	6 Levels Parent and child Specialty	8 Levels Parent and tot	3 Parent and Tot 6 Levels Specialty	4 Parent and Tot 8 Levels Specialty	2 Parent and Tot Ripple – 4 Wave – 5 Surf - 5	2 Parent and Tot 2 Toddler 8 Levels Specialty	3 Parent and Tot 6 Levels
<b>Ratios</b>	1:6 and 1:10 Most operate at lower	1:3 – L1-L3 1:4 – L4-L8 1:8 - PT	1:4,6 – PT 1:4,6 – All others	1:6,3 – PT 1:4 – All others	1:8,3 – PT 1:3,4 – Ripple 1:3-6 – Wave 1:3 – 6 - Surf	1:6 – PT 1:3 – Toddler 1:4 – All others	1:12 – PT 1:6,8 – All others



# Facility Inventory

- Swim Program

1. American Red Cross
2. YMCA
3. Goldfish

- Number of Pools

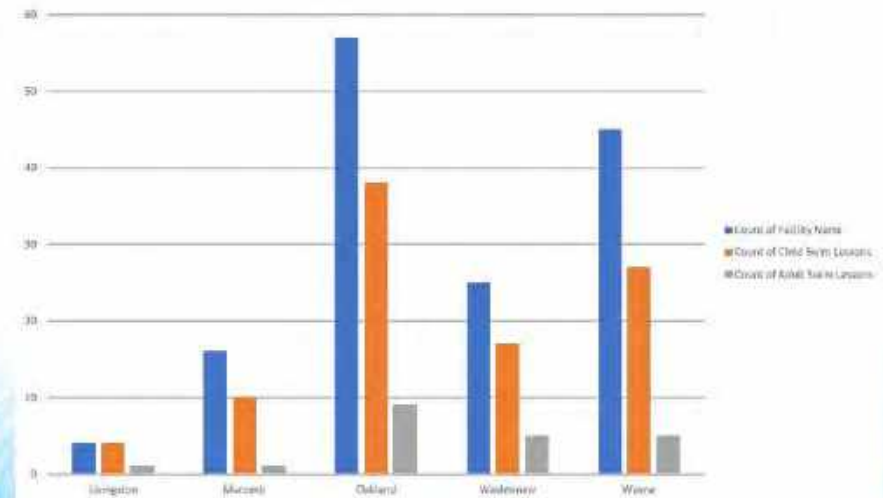
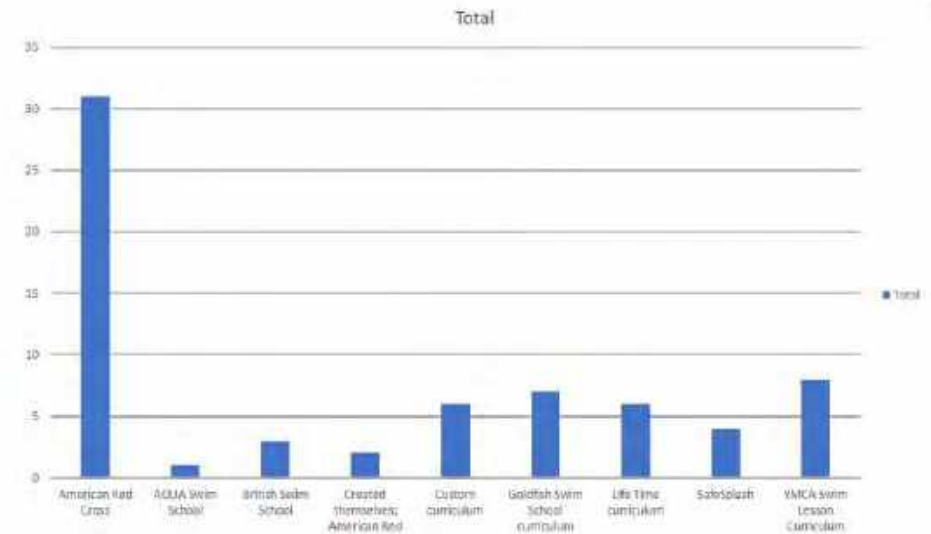
1. Oakland County
2. Wayne County
3. Washtenaw County

- Average fee per lesson - \$18.56






- 96 facilities have child swim lessons

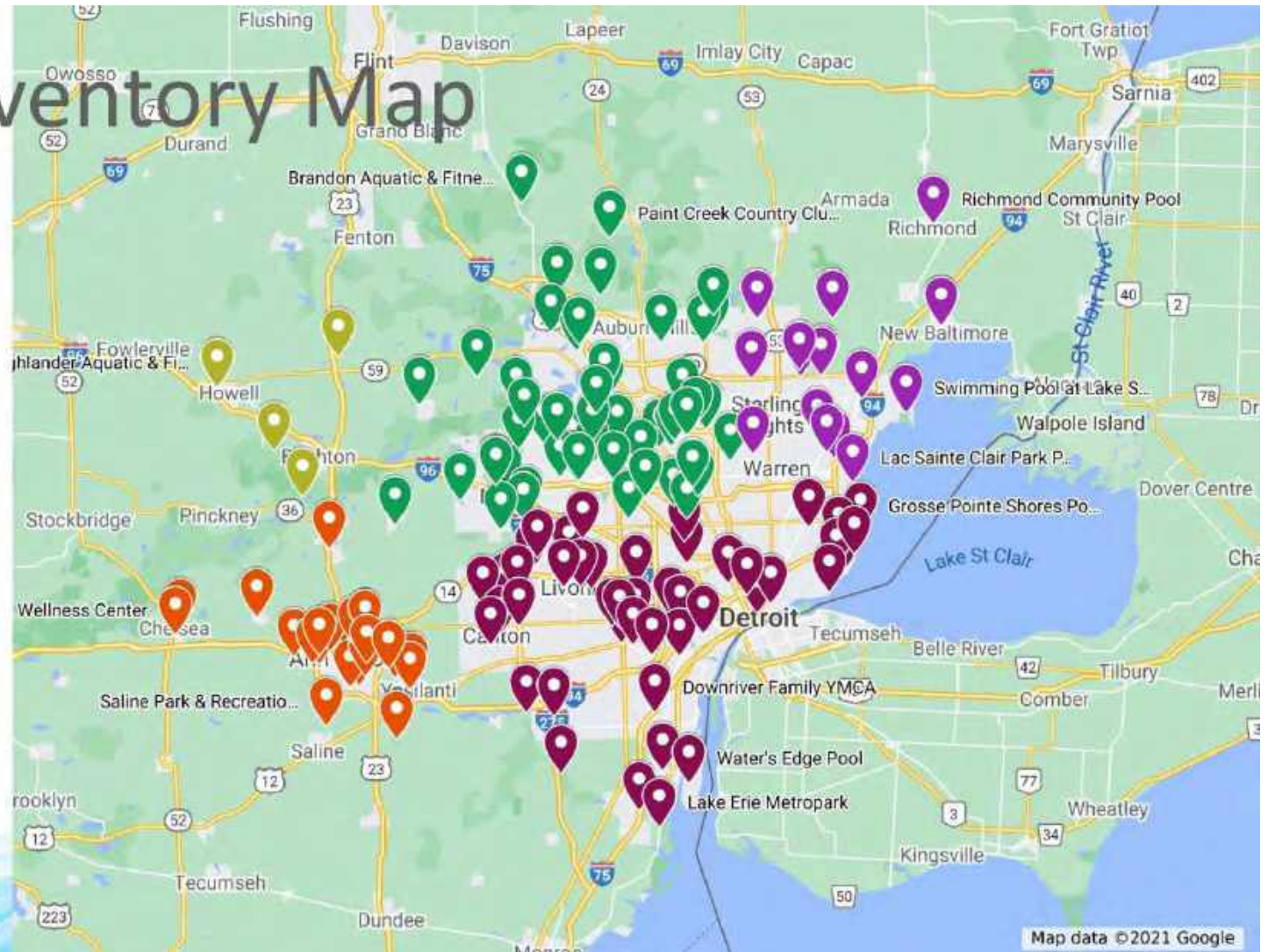
- 21 have adult swim lessons

- Long-term – the map may be able to be updated regularly by each facility



# Facility Inventory Map

-  Oakland
-  Wayne
-  Washtenaw
-  Macomb
-  Livingston



# Challenges to Swim Instruction

- Wait lists

- Workforce shortage
- Increase in swim lesson needs

- Staffing challenges

- COVID – 19
- Training ability
  - Few Water Safety Instructor Trainers in the area
  - No training “Hubs”
- Swim competency

- American Red Cross

- Lifeguard Instructor Trainers – less than 15
- Water Safety Instructor Trainers – less than 6





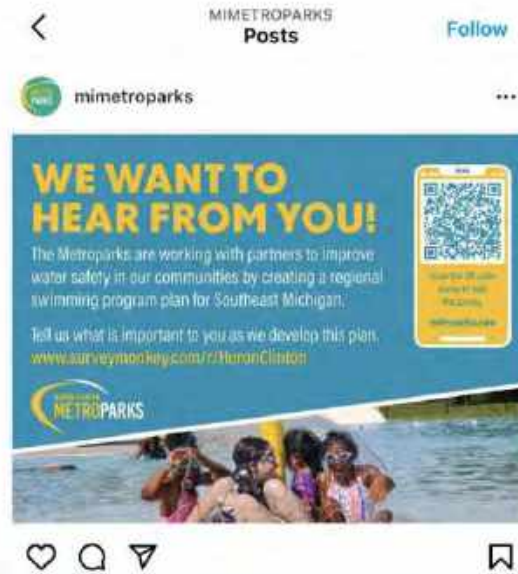


# 5-COUNTY SURVEY



# Survey Marketing

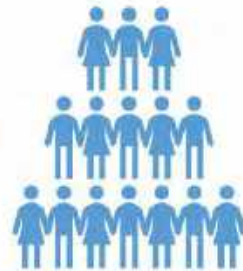
- Hosted online
- Flier distributed to libraries and community centers
- Press releases
  - Article in Detroit News
  - C&G Newspapers
- Social Media
- Yard signs
- Metroparks E-Newsletter



# Survey Results



1010 Surveys  
Returned



Representative  
population



Covers all user  
groups



# Key Takeaways




---

Amenities needed– lockers, changing rooms, showers

---

Enhance access to life vests for natural water bodies and pools

---

Offer a variety of programs to attract non-swimmers and underserved populations

---

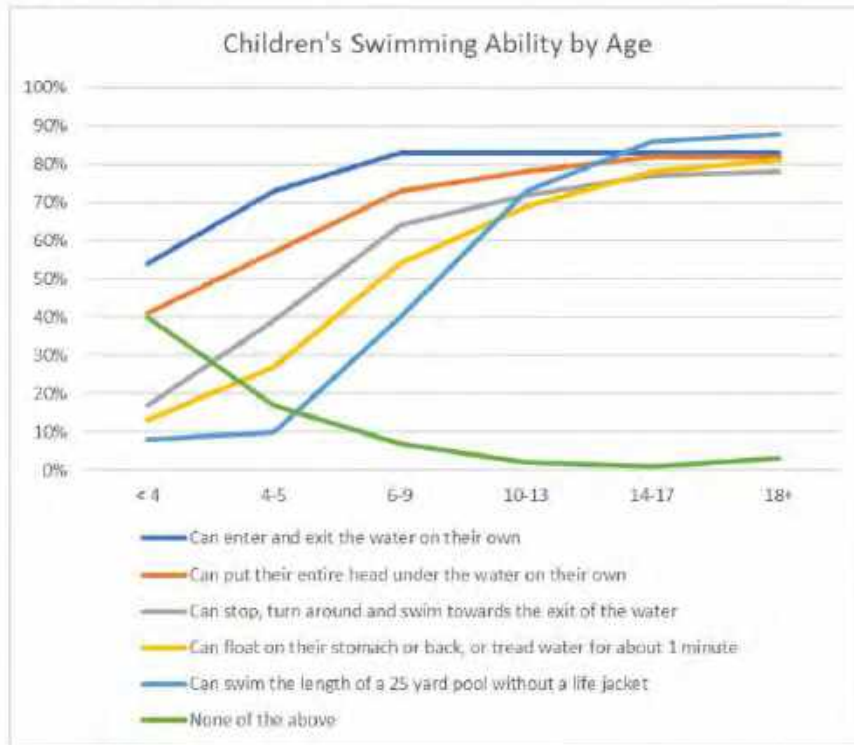
Swimming = splashing and playing with their head above water

---





# Key Takeaways



Detroit residents and people of color self report that they are less proficient swimmers than others

Detroit residents, people of color are more interested in learning to swim

Swimming proficiency appears to increase as children get older

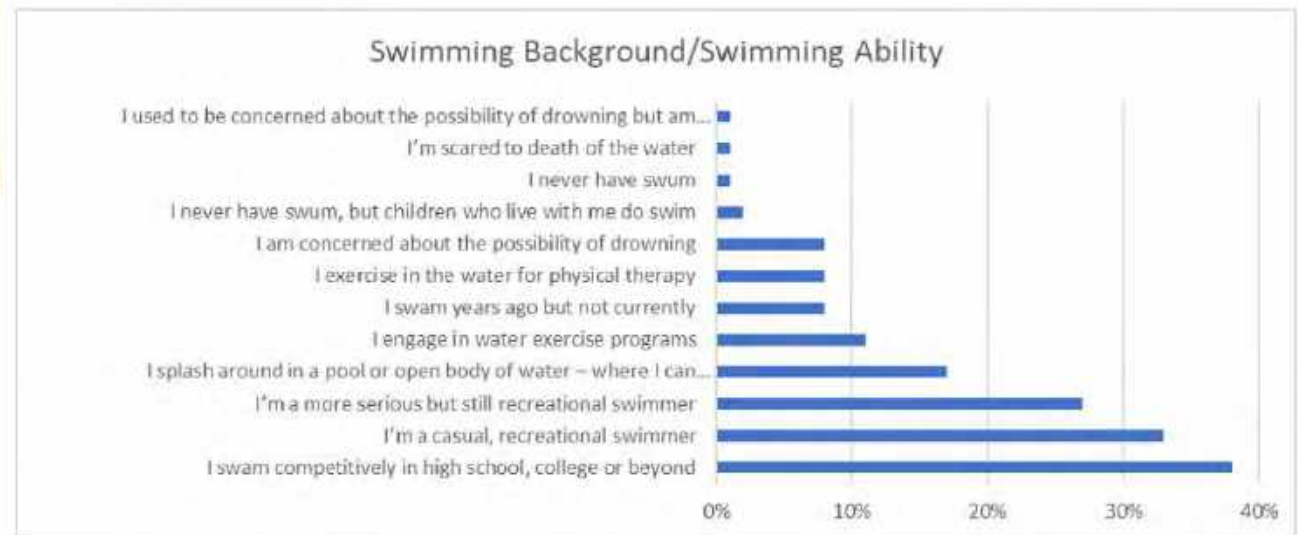
People who are afraid of the water state swimming provide a pleasant way to cool down and spend time with family



# Swimming Background and Ability

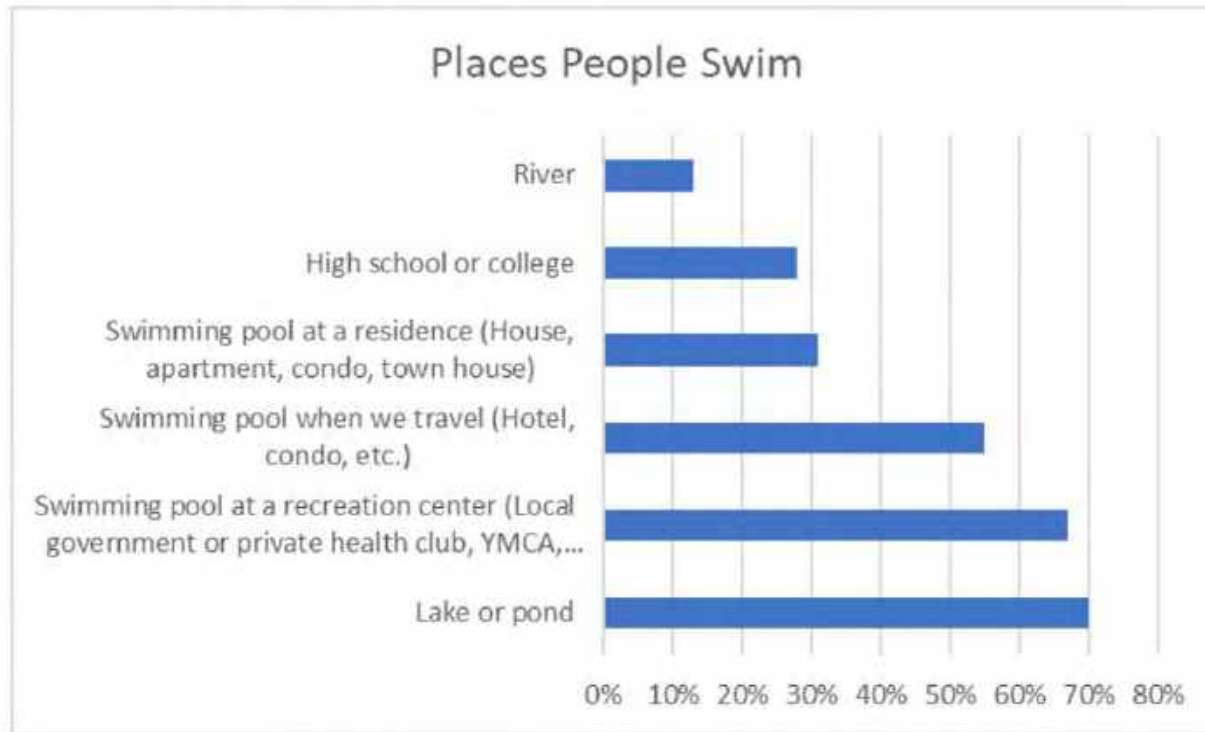
More Detroit residents and people of Color

- Are concerned about drowning
- Splash in a pool or body of water where they can stand with their heads above the water



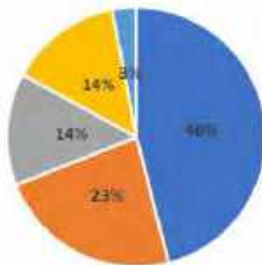


# Places People Swim

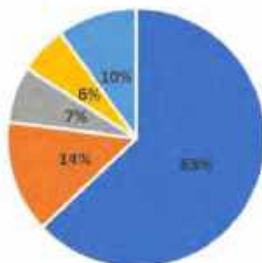


# Interest in Swim Instruction

Interest in Adult Swim Instruction



Interest in Child Swim Instruction



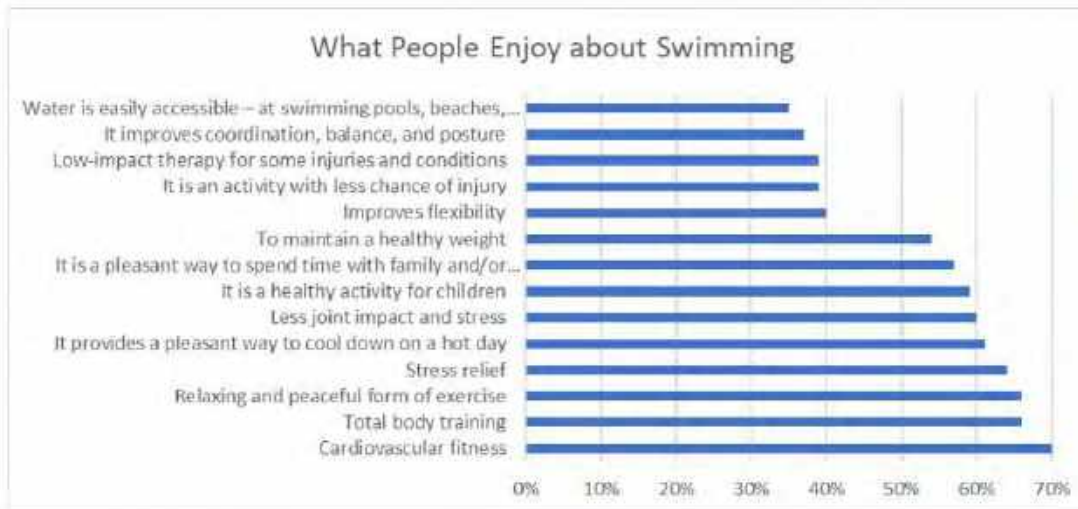
■ Very interested    ■ Somewhat interested    ■ Minimal interest  
 ■ Not at all interested    ■ Not sure

Demos very interested in swim instruction

- Detroit residents
- People of Color
- Women (interested in having children learn to swim)



# What People Enjoy about Swimming

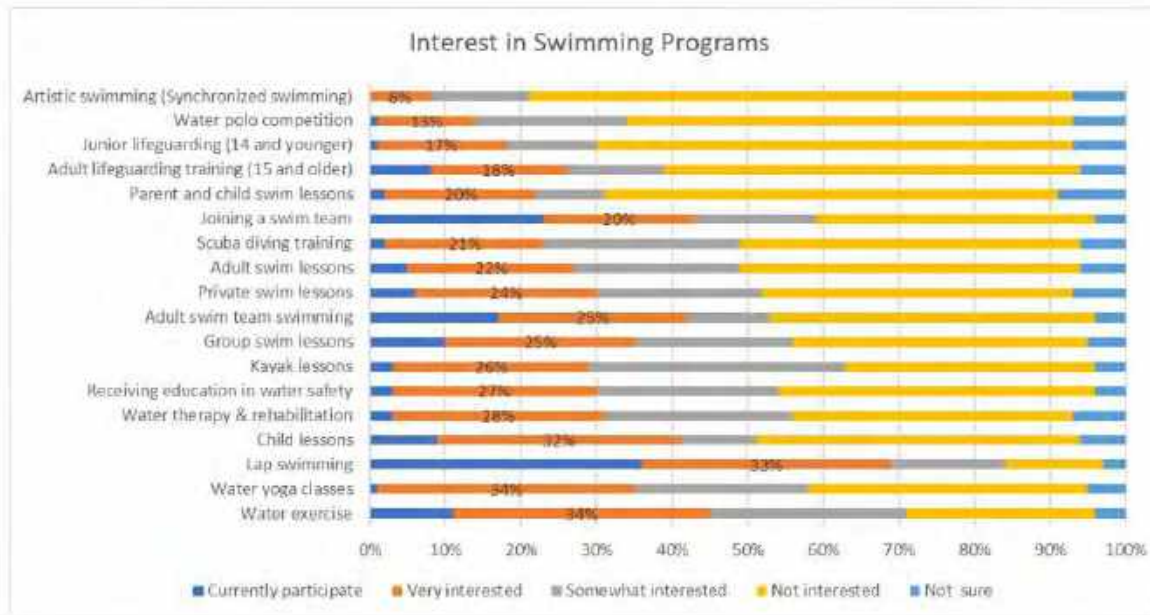


People who are afraid of the water say...

- Swimming provides a pleasant way to cool down
- Pleasant way to spend time with family and friends



# Interest in Swimming Programs



Groups that are **more** interested in existing and potential programs:

- Detroit residents
- People of Color
- Lower income households
- Those that are afraid of the water
- Do not swim/rarely swim





# Reaction to Swimming Opportunities



## Water venues are too far

- Residents of Detroit
- Women

## Fees are too high

- People of Color
- Incomes under \$50,000

## Not enough instructors

- Detroit residents
- Women
- People of color
- Incomes under \$50,000
- Afraid of water

## Not swimmers, but enjoy water exercise

- Detroit residents
- Women
- People of Color
- Incomes under \$50,000
- Afraid of water
- Do not swim in cold weather months





# Feeling Welcome/Safe/Comfortable at Swimming Venues

## Feel welcome at urban venues

- Detroit residents

## Feel welcome at suburban venues

- Residents outside Detroit
- Men
- Whites

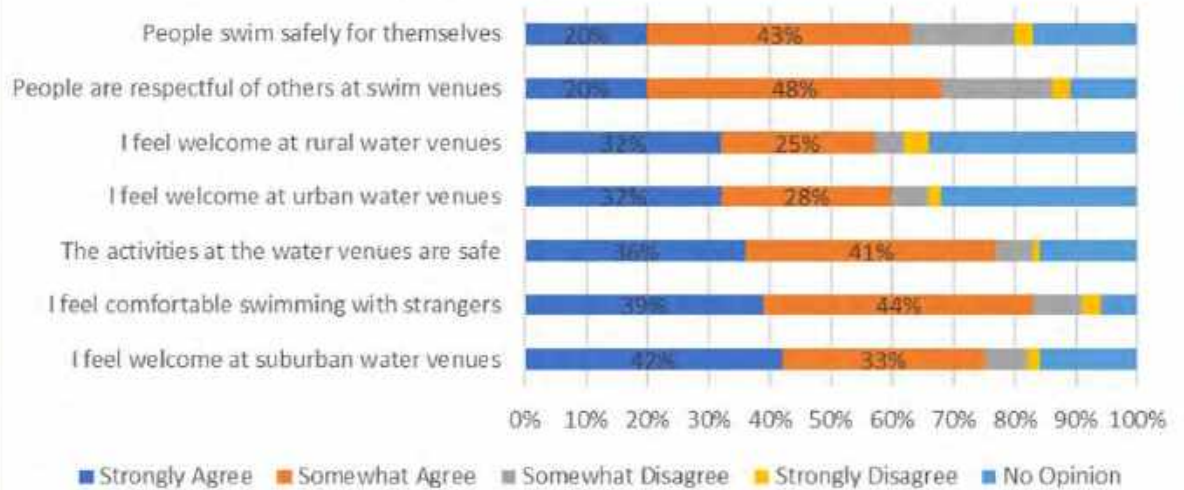
## Feel welcome at rural venues

- Residents outside Detroit
- Men
- Whites

## Feel comfortable swimming with strangers

- Whites

### Feeling Welcome/Safe/Comfortable at Swim Venues





# SITE REVIEW

# AQUATIC USER GROUPS

RECREATION



COMPETITION



INSTRUCTION



WELLNESS & THERAPY



# HCMA Facility Review – Lake St. Clair Metropark Pool

## Amenities

- Ladder Entry
- ADA Lift
- Two waterslides
- Minimum depth – 3 ft.
- Maximum depth – 12 ft.
- Inflatable play structure
- Two climbing walls





# HCMA Facility Review – Lake Erie Metropark Great Wave Pool

## Amenities

- Zero beach entry
- ADA ramp
- Minimum depth – 0 ft.
- Maximum depth – 8 ft.
- Spray features
- Wave action





# HCMA Facility Review – Willow

## Metropark Pool Amenities

- Zero beach, stair, ADA lift
- Minimum depth – 0 ft.
- Maximum depth – 4 ft.
- 25 – Yard Lap Lanes (3)
- Spray features
- Family slide
- Bench seating
- Basketball



# Facility Review

Features	Lap Lanes	Shallow Water	Diving Area	Bench Seating	Zero Depth	Slide	Play Structure	Spray Features
Lake St. Clair Metropark Pool	✗	✓	✓			✓	✓	✓
Lake Erie Metropark Great Wave Pool	✗	✓			✓			✓
Willow Metropark Pool	✓	✓		✓	✓	✓	✓	✓



# Facility Review

- Changes to facilities/new facilities should all start with a feasibility process
- Amenities should reflect goals of the facility/users
- Many user groups seek similar amenities
  - Shallow water – learn to swim, recreation, wellness/therapy
  - Easy accessibility – recreation, instruction, wellness/therapy
  - Bench seating - recreation, instruction, wellness/therapy
  - Moving water/jets - recreation, wellness/therapy
- Minimize attractions that meet the needs of smaller groups
  - Wave pools – recreation (can be designed differently now)
  - Body slides – attractions, not for use for everyone
  - Ladder only entrances – great for competition pools
  - Deep only water – great for competition pools



# Goals, Objectives and Partnerships

## Improve Swimming Ability and Water Competence

Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities
<ul style="list-style-type: none"><li>90% of children can stop/exit the water on their own by age 9</li></ul>	<ul style="list-style-type: none"><li>Water safety taught in most schools</li></ul>	<ul style="list-style-type: none"><li>Increase access to scholarship programs</li></ul>	<ul style="list-style-type: none"><li>Increase vertical swim programs</li></ul>	<ul style="list-style-type: none"><li>Create training hub</li></ul>	<ul style="list-style-type: none"><li>Develop a SE Michigan Aquatics Board</li></ul>





THANK YOU!!



December 15 and 16, 2021



# Huron-Clinton Metroparks

# Agenda

- Introductions
- Map Review
- Goals and Objectives Discussion



# Southeastern Michigan Swim Program

## ✓ Existing Conditions – “State of Swimming”

- ✓ Inventory and compare amenities and features of public and nonprofit facilities
- ✓ Inventory and categorize swim instruction/water safety programs
- ✓ Identify challenges for swim instruction and water competence programming at Public/Non-Profit Pools
- ✓ Conduct representative survey on swimming abilities, identify barriers to access.

## ✓ Develop Goals and Objectives

- ✓ Review “State of Swimming Report” and survey findings
- ✓ Identify roles for participating agencies in goals and objectives

## • Develop Programming Action Plan

- Recommendations for Metroparks facility infrastructure renovations to support accessible and inclusive swim programming
- General recommendations for partner facility infrastructure renovations
- Outreach strategies to encourage sign-ups in targeted populations and geographic areas
- Program focus areas
- Strategy for hiring/training/retaining lifeguards
- Marketing strategy for a plan to raise awareness around swimming inequities



# Committee Tasks

- Assist in developing goals/objectives
- Identify areas for partnerships or ways your agency can participate





# Proposed Goals and Objectives

- **Swimming Ability**
  - 90% of children can stop/exit the water on their own by age 9
  - Add open water swimming to competency list – more than 70% swim in lakes/ponds
- **Water Competence**
  - Water safety taught in most schools
    - Develop relationships with schools
- **Participation**
  - Increase access to scholarship programs
    - Lessons do not need to be self supporting – can find partnerships
    - Wayne county – chandler pool
    - Provide no/low cost swim lessons
    - Corporate sponsorships, Michigan based
  - Transportation needs
    - HCMA Transportation Programs
    - Detroit bus company
    - Summer only transportation services
  - Look at lesson package structure – be more flexible
- **Program Focus Areas**
  - Increase vertical swim programs
- **Staffing**
  - Create training hub
    - One in each county
    - Sharing resources across counties
  - Locations to train indoors
    - Gibraltar – Carleson SD
  - Get more area entities to submit for IT Academies
- **Raising Awareness of Inequities**
  - Develop a SE Michigan Aquatics Board
    - Identify makeup of board
- **Current Facility Improvements**
  - Lake St. Clair improvements
  - Improvements for area facilities





# Questions Raised

- How do the pool locations match population?
- What are the drive times to pools?
- Does the number/location of pools meet the needs of the community?



# Standards

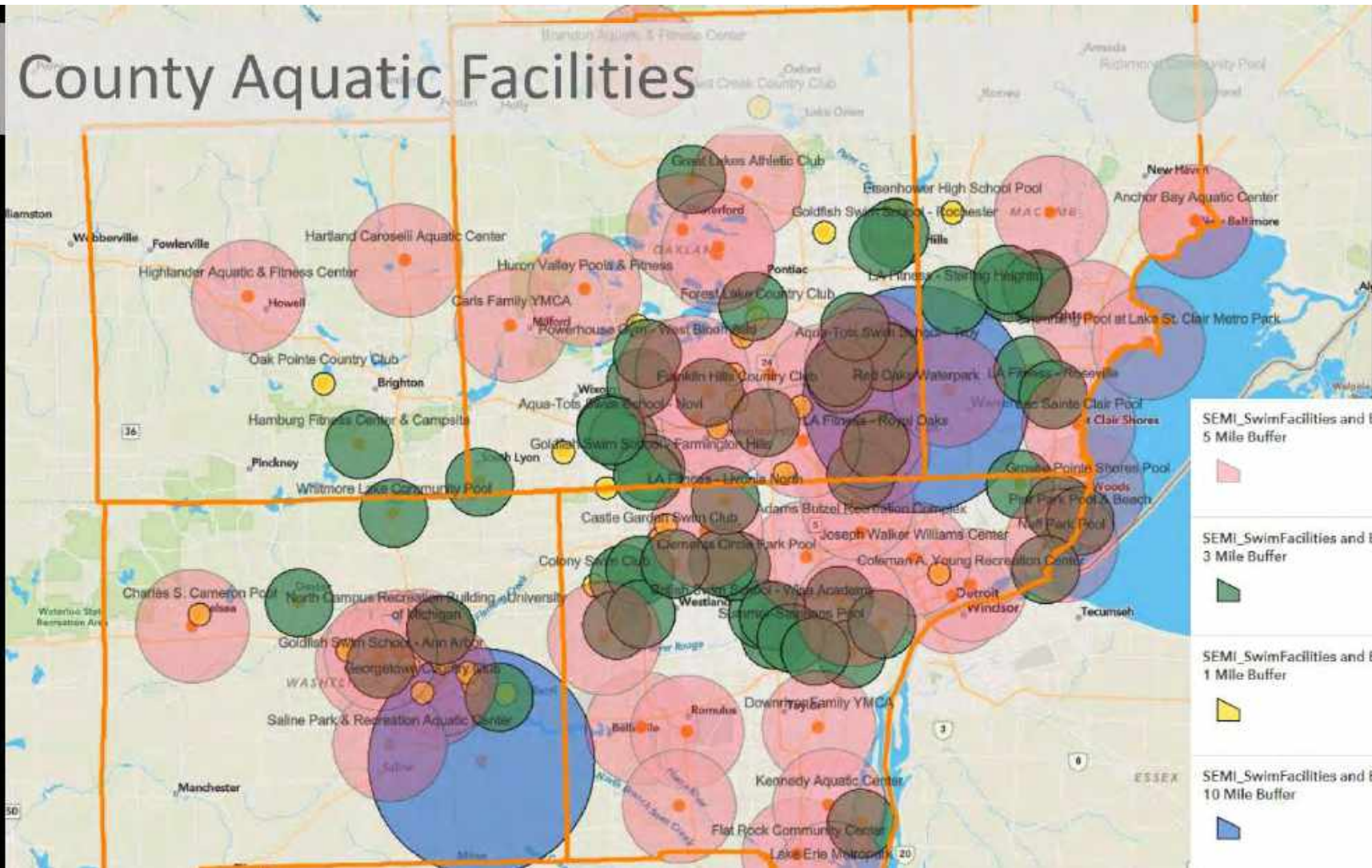
- **Neighborhood Model – Walking time**
  - Pre-1990's
  - Each neighborhood had a pool within walking distance
  - One pool per every 20,000 in population
- **Regional/Central Model – Driving time**
  - Post 1990's
  - Pools are now within an appropriate drive time
- **Current Master Plans**
  - Blend of both Neighborhood and Regional/Central Approach







# 5 County Aquatic Facilities



SEMI\_SwimFacilities and Buffers - 5 Mile Buffer

SEMI\_SwimFacilities and Buffers - 3 Mile Buffer

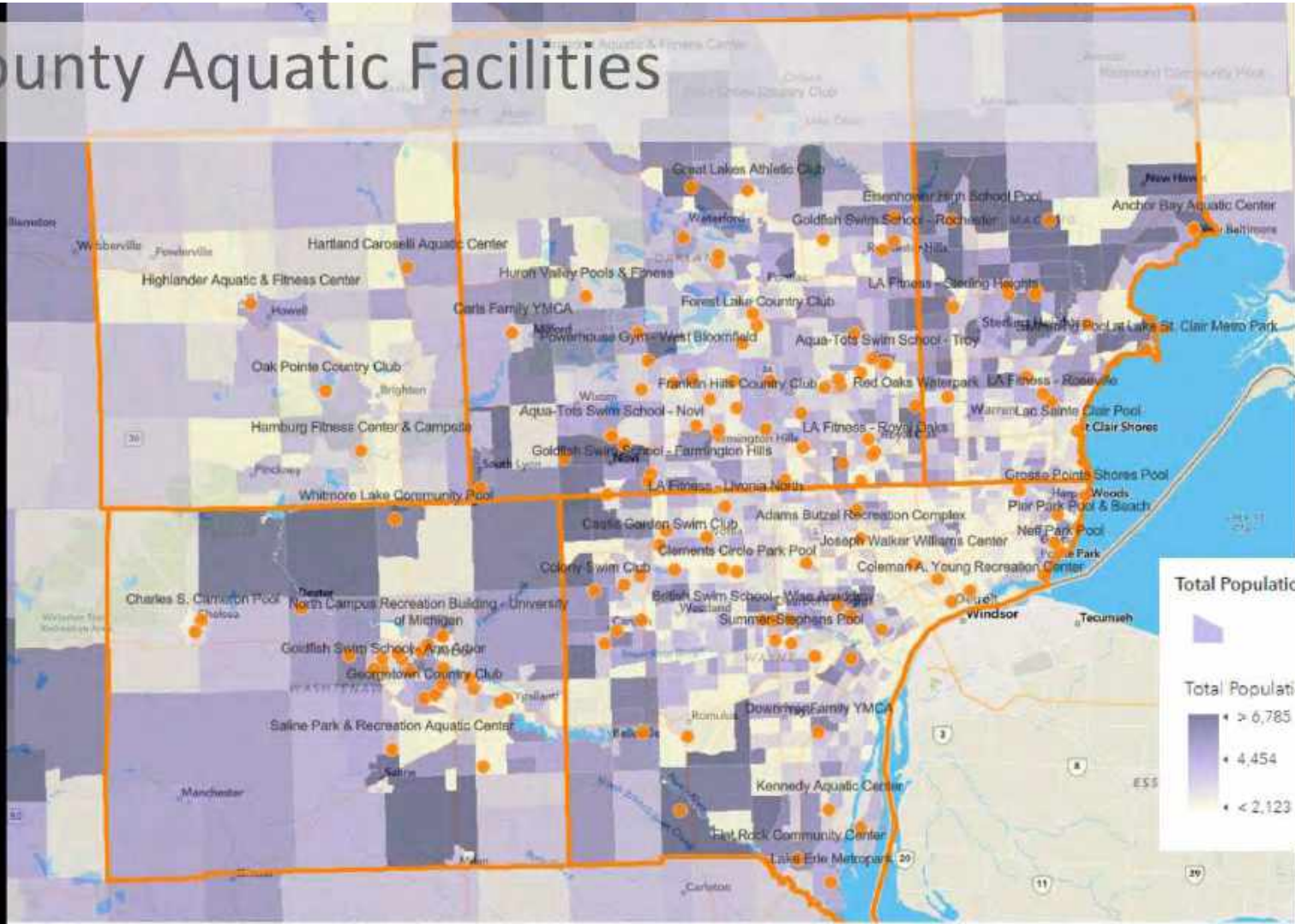
SEMI\_SwimFacilities and Buffers - 1 Mile Buffer

SEMI\_SwimFacilities and Buffers - 10 Mile Buffer

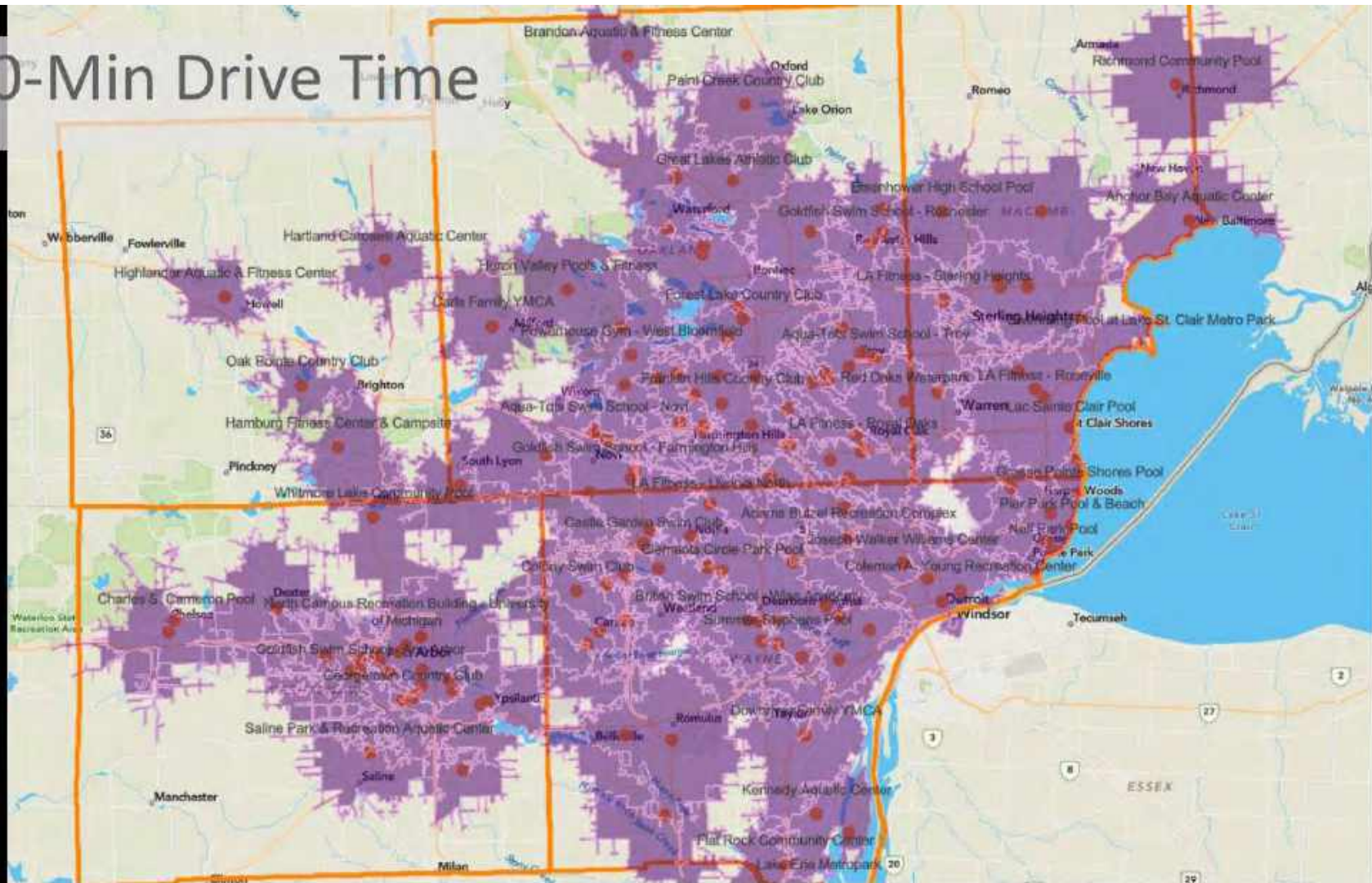




# 5 County Aquatic Facilities

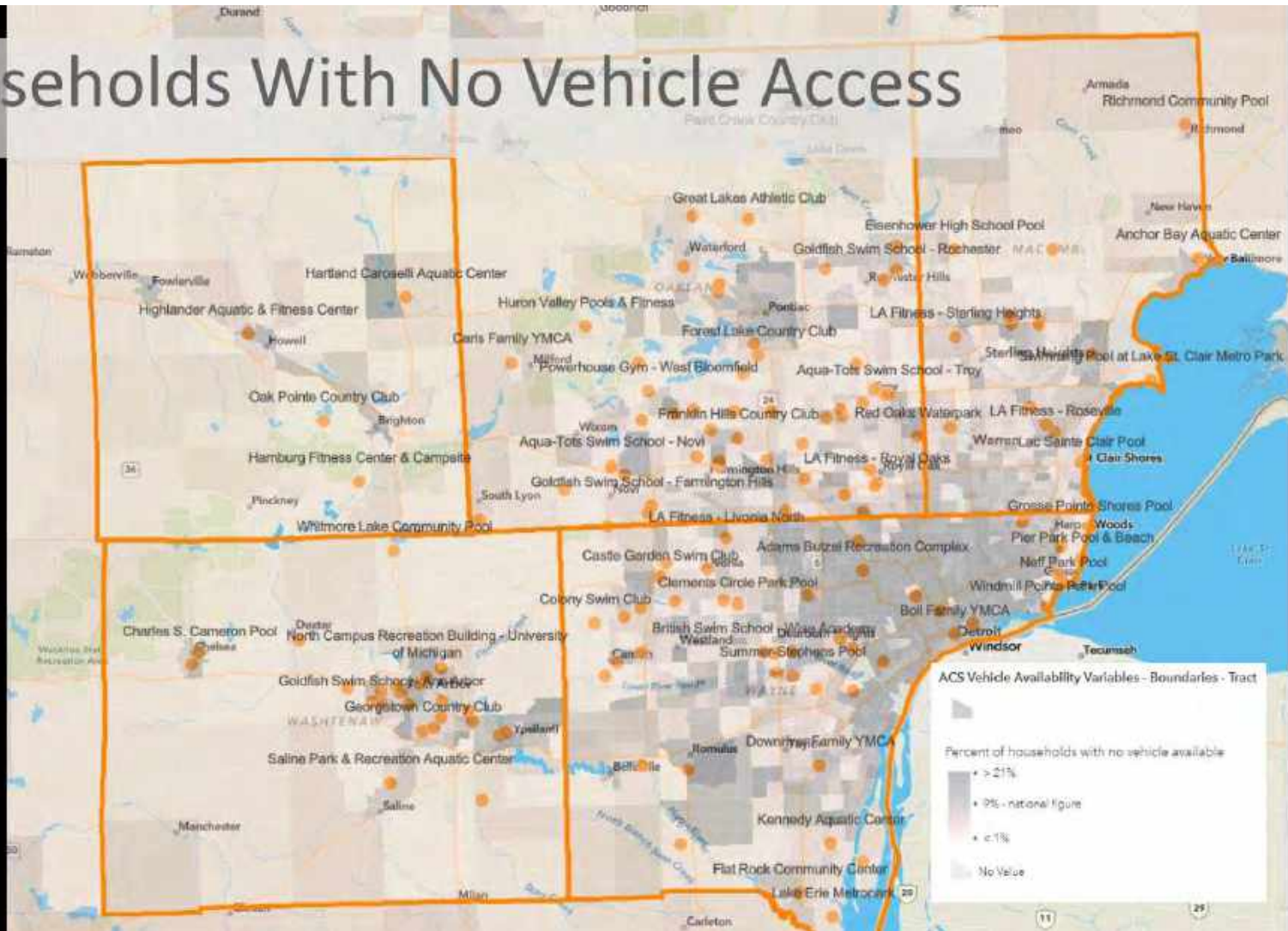


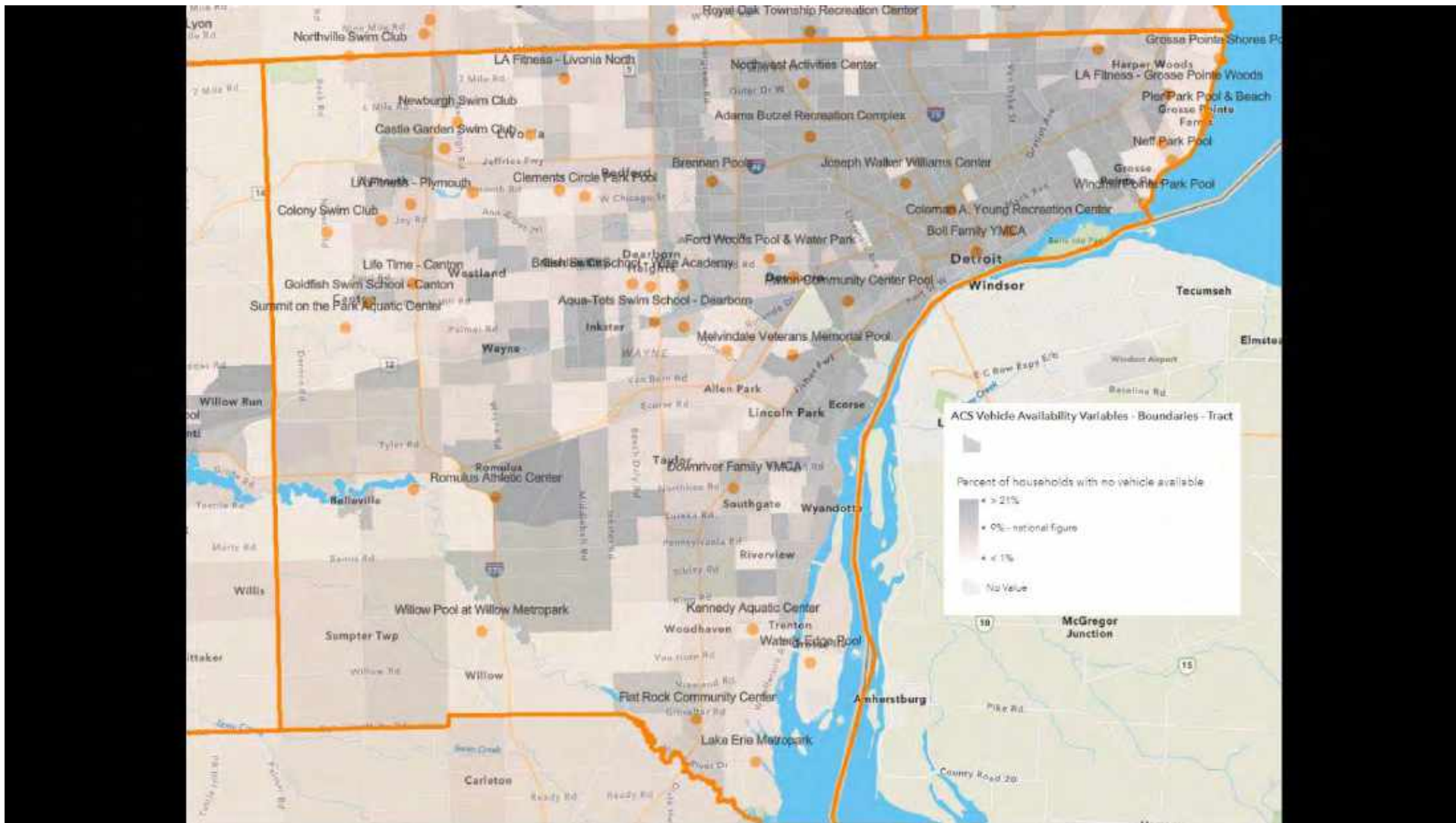
# 10-Min Drive Time





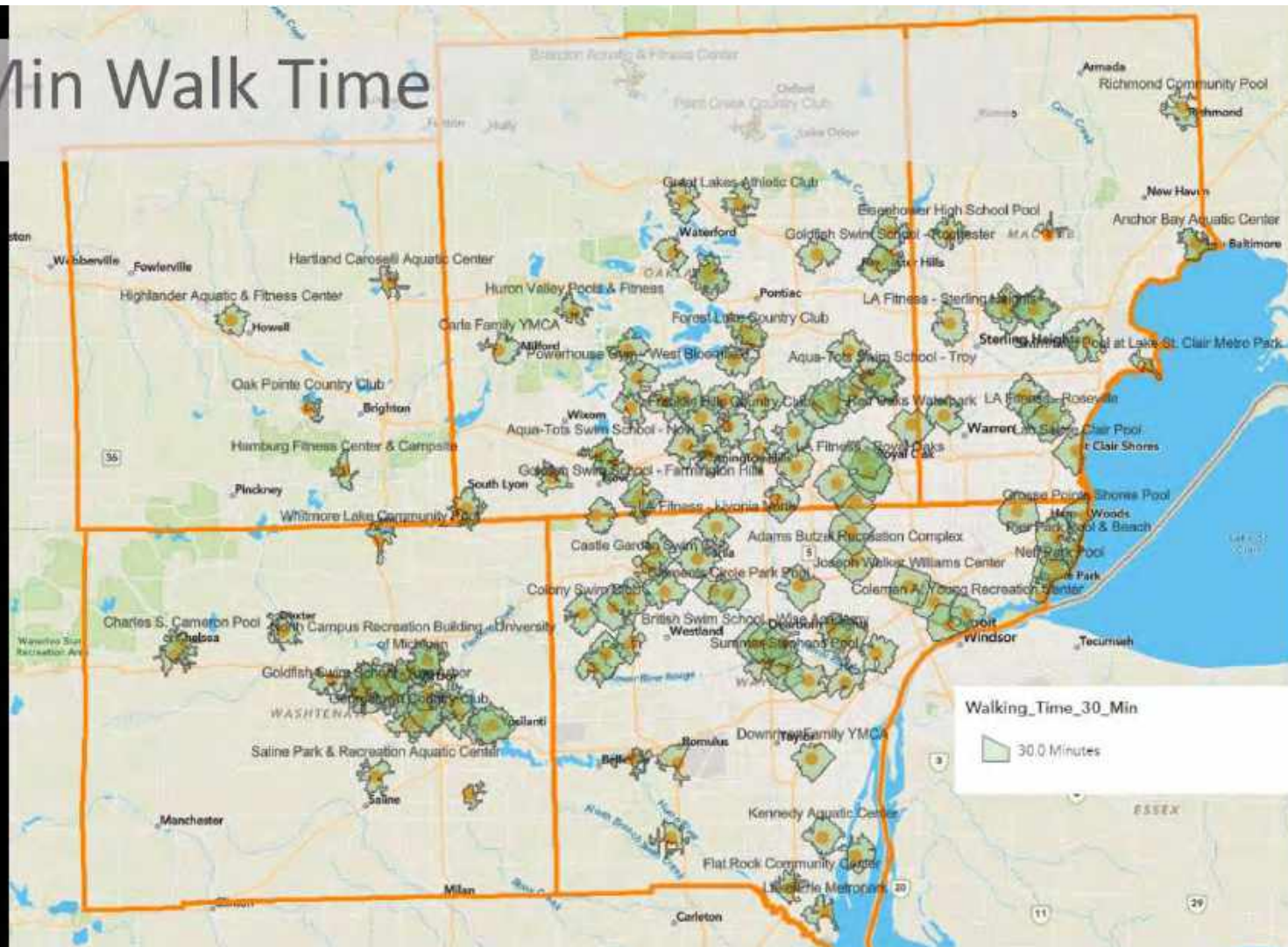
# Households With No Vehicle Access



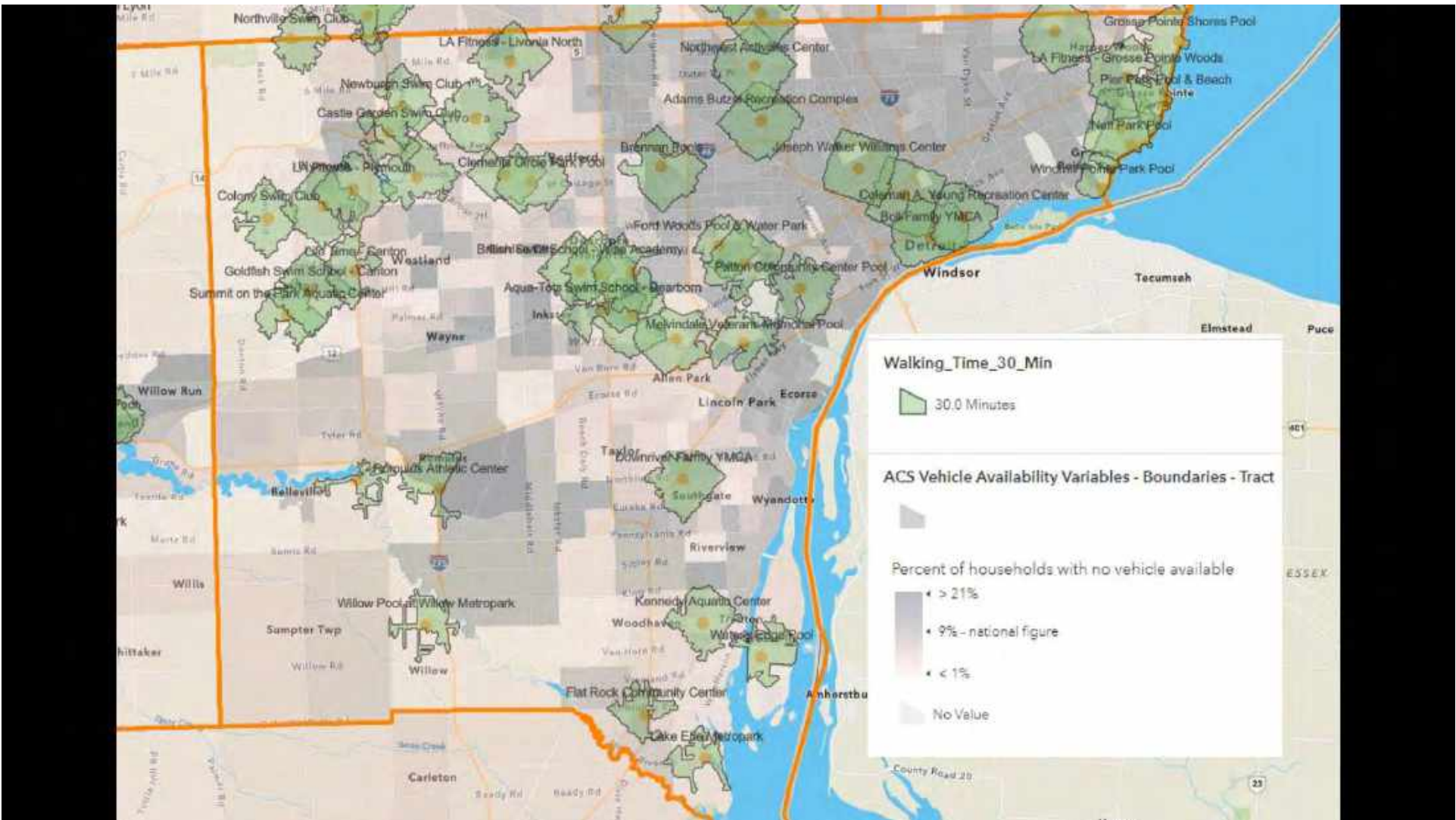




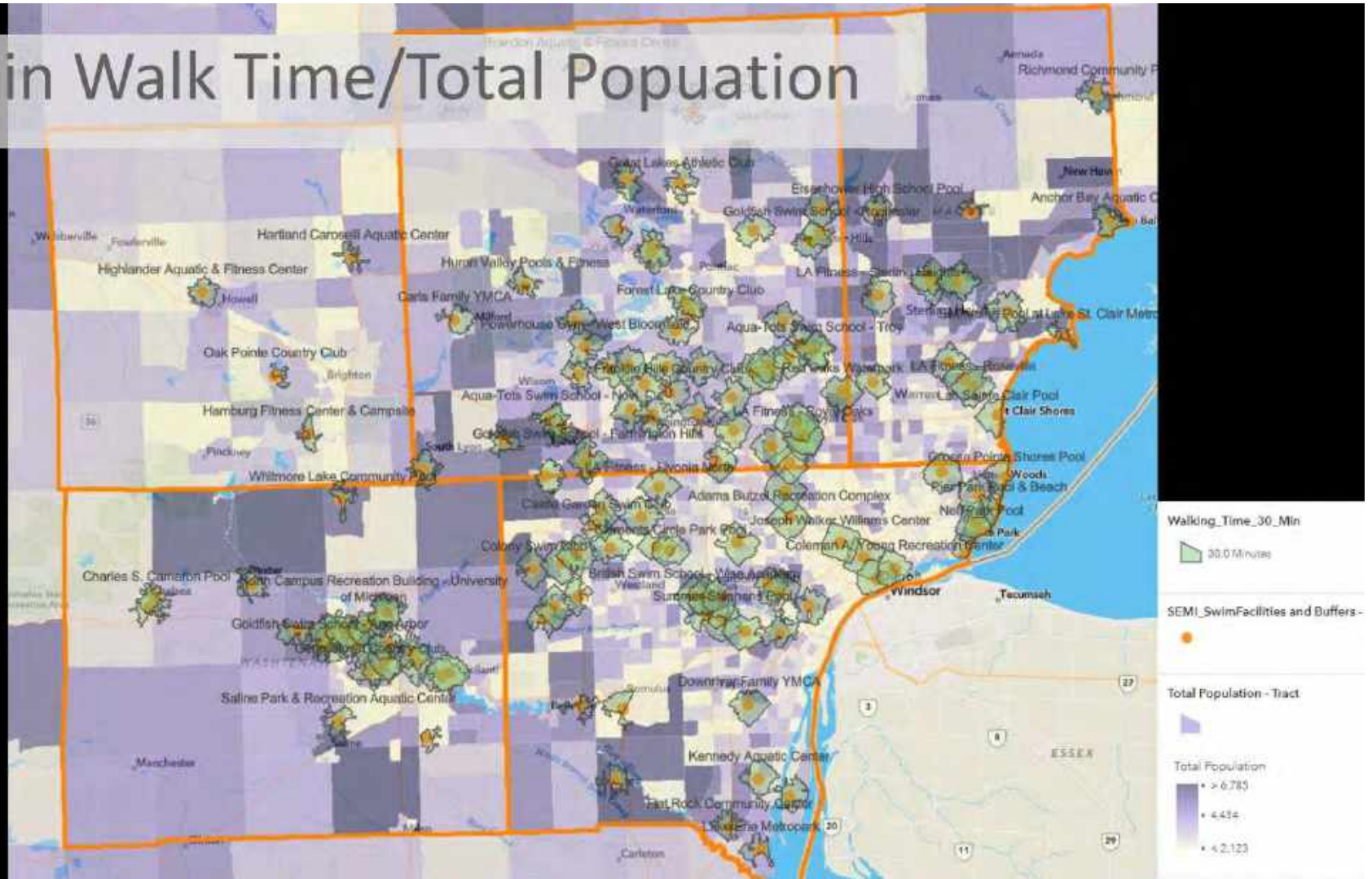
# 30-Min Walk Time







# 30-Min Walk Time/Total Population



# Summary

- Well-served areas

- Suburban
- Areas with high access to vehicles

- Not well-served

- Areas with low access to vehicles
- Rural areas

- Gaps appear when considering reasonable service areas

County	Population	Facilities	One facility per
Livingston	193,866	4	48,467
Macomb	881,217	16	55,076
Oakland	1,274,395	56	22,757
Washtenaw	372,258	25	14,890
Wayne	1,793,561	45	39,857





# Proposed Goals and Objectives

- **Swimming Ability**
  - 90% of children can stop/exit the water on their own by age 9
  - Add open water swimming to competency list – more than 70% swim in lakes/ponds
- **Water Competence**
  - Water safety taught in most schools
    - Develop relationships with schools
- **Participation**
  - Increase access to scholarship programs
    - Lessons do not need to be self supporting – can find partnerships
    - Wayne county – chandler pool
    - Provide no/low-cost swim lessons
    - Corporate sponsorships, Michigan based
  - Transportation needs
    - HCMA Transportation Programs
    - Detroit bus company
    - Summer only transportation services
  - Look at lesson package structure – be more flexible
- **Program Focus Areas**
  - Increase vertical swim programs
- **Staffing**
  - Create training hub
    - One in each county
    - Sharing resources across counties
  - Locations to train indoors
    - Gibraltar – Carleson SD
  - Get more area entities to submit for IT Academies
- **Raising Awareness of Inequities**
  - Develop a SE Michigan Aquatics Board
    - Identify makeup of board
- **Current Facility Improvements**
  - Lake St. Clair improvements
  - Improvements for area facilities



Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
<ul style="list-style-type: none"> <li>90% of children can stop/exit the water on their own by age 9</li> <li>Add open water swimming to competency list - more than 70% swim in lakes/ponds</li> </ul>	<ul style="list-style-type: none"> <li>Water safety taught in most schools               <ul style="list-style-type: none"> <li>Develop relationships with schools</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Increase access to scholarship programs               <ul style="list-style-type: none"> <li>Lessons do not need to be self supporting - see find partnerships</li> <li>Wayne county - Chandler pool</li> <li>Provide no/low cost swim lessons</li> <li>Corporate sponsorships Michigan based</li> </ul> </li> <li>Transportation needs               <ul style="list-style-type: none"> <li>HCMA Transportation Programs</li> <li>Detroit bus company</li> <li>Summer only transportation services</li> </ul> </li> <li>Look at lesson package structure - be more flexible</li> </ul>	<ul style="list-style-type: none"> <li>Increase vertical swim programs</li> </ul>	<ul style="list-style-type: none"> <li>Create training hubs               <ul style="list-style-type: none"> <li>One in each county?</li> <li>Sharing resources across counties</li> </ul> </li> <li>Locations to train indoors               <ul style="list-style-type: none"> <li>Gibraltar - Carleton SD</li> </ul> </li> <li>Get more area entities to submit for IT Academies</li> <li>Transportation to parks for training or staffing</li> </ul>	<ul style="list-style-type: none"> <li>Develop a SE Michigan Aquatics Board               <ul style="list-style-type: none"> <li>Identify makeup of board</li> </ul> </li> <li>HCMA Marketing Department - raising awareness               <ul style="list-style-type: none"> <li>Create marketing campaign</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lake St. Clair Improvements</li> <li>Improvements for area facilities</li> </ul>
Participating Agencies						
<ul style="list-style-type: none"> <li>HCMA</li> <li>Detroit Riverfront Conservancy</li> <li>American Red Cross</li> <li>Detroit public schools community district</li> </ul>	<ul style="list-style-type: none"> <li>HCMA</li> <li>Detroit Riverfront Conservancy</li> <li>Stop Drowning Now</li> <li>Zach Foundation</li> <li>Detroit public schools community district</li> </ul>	<ul style="list-style-type: none"> <li>HCMA</li> <li>Detroit Riverfront Conservancy</li> <li>American Red Cross</li> <li>USA Swimming Foundation</li> <li>Sport Ability - RIM</li> <li>Detroit public schools community district</li> </ul>	<ul style="list-style-type: none"> <li>HCMA</li> <li>Sport Ability - RIM</li> </ul>	<ul style="list-style-type: none"> <li>HCMA</li> <li>American Red Cross</li> <li>SI Aquatics</li> </ul>	<ul style="list-style-type: none"> <li>M Parks</li> <li>Diversity in Aquatics</li> <li>International Water Safety Foundation</li> <li>SI Aquatics - Board</li> <li>Lynda Jeffries</li> </ul>	<ul style="list-style-type: none"> <li>HCMA</li> </ul>





THANK YOU!!

March 15 and 16, 2022



# Huron-Clinton Metroparks

# Agenda

- Swim Program Action Plan
- Action Plan Discussion





# Southeastern Michigan Swim Program

## ✓ Existing Conditions – “State of Swimming”

- ✓ Inventory and compare amenities and features of public and nonprofit facilities
- ✓ Inventory and categorize swim instruction/water safety programs
- ✓ Identify challenges for swim instruction and water competence programming at Public/Non-Profit Pools
- ✓ Conduct representative survey on swimming abilities, identify barriers to access.

## ✓ Develop Goals and Objectives

- ✓ Review “State of Swimming Report” and survey findings
- ✓ Identify roles for participating agencies in goals and objectives

## • Develop Programming Action Plan

- Recommendations for Metroparks facility infrastructure renovations to support accessible and inclusive swim programming
- General recommendations for partner facility infrastructure renovations
- Outreach strategies to encourage sign-ups in targeted populations and geographic areas
- Program focus areas
- Strategy for hiring/training/retaining lifeguards
- Marketing strategy for a plan to raise awareness around swimming inequities



# Committee Tasks

- Assist in developing goals/objectives
- Identify areas for partnerships or ways your agency can participate





# Proposed Goals and Objectives

## HCMA Swim Program Goals

Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
<p>90% of children can stop/exit the water on their own by age 9</p> <p>Add open water swimming to competency list – more than 70% swim in lakes/ponds</p>	<p>Water safety taught in most schools</p> <p>Develop relationships with schools</p>	<p>Increase access to scholarship programs</p> <p>Provide no/low-cost swim lessons</p> <p>Acquire corporate sponsorships to fund program</p> <p>Investigate transportation programs (low priority)</p> <p>Expand the "Swim in the D" program to more than 2 days</p>	<p>Increase vertical swim programs</p>	<p>Develop Metroparks in training hub in SE Michigan</p> <ul style="list-style-type: none"> <li>○ Look for partners in all 5 counties</li> </ul> <p>Get more area entities to submit for American Red Cross IT Academies</p> <p>Investigate transportation program to parks for training or staffing</p>	<p>Develop a SE Michigan Aquatics Board</p> <p>HCMA Marketing Department – Raising Awareness campaign</p>	<p>Lake St. Clair improvements</p> <p>HCMA Aquatics Master Plan</p> <p>Improvements for area facilities</p>

## HCMA Swim Program Goals

Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
<b>Action Plan</b>						
Secure funding to expand the "Swim in the D" program	Develop a list of schools/districts that are interested in swim instruction -or- swim safety curriculums	Secure funding to expand the "Swim in the D" program	Train instructors in other fitness modalities	Register HCMA with the American Red Cross as an LTP <ul style="list-style-type: none"> <li>○ Swim Instruction</li> <li>○ Lifeguard Training</li> </ul>	Develop marketing collateral for swimming campaign.	Lake St. Clair <ul style="list-style-type: none"> <li>○ Main drain renovations</li> <li>○ New pool lift</li> <li>○ Ramp/zero depth entry</li> <li>○ Bench seating</li> <li>○ UV disinfection</li> <li>○ Lap lanes</li> </ul>
Expand "Swim in the D" program to continue year round	Identify areas in school curriculums that can support swim safety training	Expand "Swim in the D" program to continue year round	Identify a spectrum of programs that meet facility specs	Find year-round facilities to partner with an offer training <ul style="list-style-type: none"> <li>○ Could be part of the "Swim in the D" Program.</li> </ul>	Create collateral that can be utilized by all swim facilities in the region.	
Expand the program into the community: <ul style="list-style-type: none"> <li>○ Apartments</li> <li>○ Water fronts</li> <li>○ Metropark Pools</li> <li>○ Partner facilities</li> </ul>	Identify after school programs interested in participating	Identify after school programs interested in participating	Utilize outside vendors/contractors for some programs	Create a "Junior Guard" program	Utilize stats from annual/semi-annual swim program survey	Lake Erie <ul style="list-style-type: none"> <li>○ UV disinfection</li> </ul>
Create a process for annual/semi-annual swim program survey to track swim ability changes	Provide in-class training collateral	<b>Considerations:</b> Work with a sponsorship consultant to assist in acquiring corporate sponsorships	Create a program plan for new programs and profitability goals	Create an in-house training program within HCMA <ul style="list-style-type: none"> <li>○ Lifeguarding</li> <li>○ Swim Instruction</li> </ul>	Create news media package	Willow Metropark Pool <ul style="list-style-type: none"> <li>○ UV disinfection</li> </ul>
Submit course records for each swim session taught	Provide pool session time			Work with American Red Cross/HCMA/partners to host IT academy trainings	Advertise in schools, radio, local news stations to coincide with "Swim in the D" program sign ups.	Aquatics Master Plan: <ul style="list-style-type: none"> <li>○ Identify funding</li> <li>○ Issue RFP</li> <li>○ Create plan</li> </ul>
<b>Considerations:</b> Register HCMA with the American Red Cross swim instruction program				<b>Considerations:</b> Create marketing plan for social media marketing <ul style="list-style-type: none"> <li>○ Tiktok</li> <li>○ Instagram – reels                             <ul style="list-style-type: none"> <li>○ @Fbh2o</li> <li>○ @Roundrocklifeguards</li> <li>○ @Newbraunfelsaquatics</li> </ul> </li> </ul>	Expand the "brand" of "Swim in the D" to other area providers	Area facilities: <ul style="list-style-type: none"> <li>○ Renovations or new facilities should start with feasibility/programming process</li> <li>○ Amenities should reflect goals of the facility/users</li> <li>○ Emphasize amenities that meet multiple user groups</li> </ul>
					Create a process for partnerships	<b>Considerations:</b> Consider creating a funding/grant program through the SE Michigan

# Swimming Ability

- **Goals**

- 90% of children can stop/exit the water on their own by age 9
- Add open water swimming to competency list – more than 70% swim in lakes/ponds

- **Action Plan**

1. Secure funding to expand the “Swim in the D” program
2. Expand “Swim in the D” program to continue year round
3. Expand the program into the community:
  - Apartments
  - Water fronts
  - Metropark Pools
  - Partner facilities
4. Create a process for annual/semi-annual swim program survey to track swim ability changes



# Swimming Ability

- Considerations

- Register HCMA with the American Red Cross swim instruction program
- Submit course records for each swim session taught

- Potential Partners

- HCMA
- Detroit Riverfront Conservancy
- City of Detroit
- American Red Cross
- Detroit public schools community district
- Boy Scouts – Waterfront
- YMCA - Waterfront





# Water Competence

- Goals

- Water safety taught in more schools
- Develop relationships with schools

- Action Plan

1. Develop a list of schools/districts that are interested in swim instruction -or- swim safety curriculums
2. Identify areas in school curriculums that can support swim safety training
3. Identify after school programs interested in participating
4. Provide in-class training collateral
5. Provide pool session time





# Swimming Ability

- Considerations

- N/A

- Potential Partners

- HCMA
- Detroit Riverfront Conservancy
- City of Detroit
- **Stop Drowning Now**
- Detroit public schools community district
- American Red Cross (Whale tales, CPR)

The screenshot shows a dark-themed interface for educators. On the left, a teal banner reads 'Educator' followed by 'Use the full Stop Drowning Now curriculum, FREE for educators with a .edu email address!' and 'Requires a valid .edu email address.' On the right, a dark grey box titled 'Online Access to:' lists: 'Full Curriculum', 'Parent/Caregiver Presentation', 'Kids Assembly', 'Make Your Own Water Watcher Tag', and 'Basic Supporting Materials'. Below this list, the word 'FREE' is displayed in large blue letters, and a teal 'SELECT' button is at the bottom.



# Participation

## •Goals

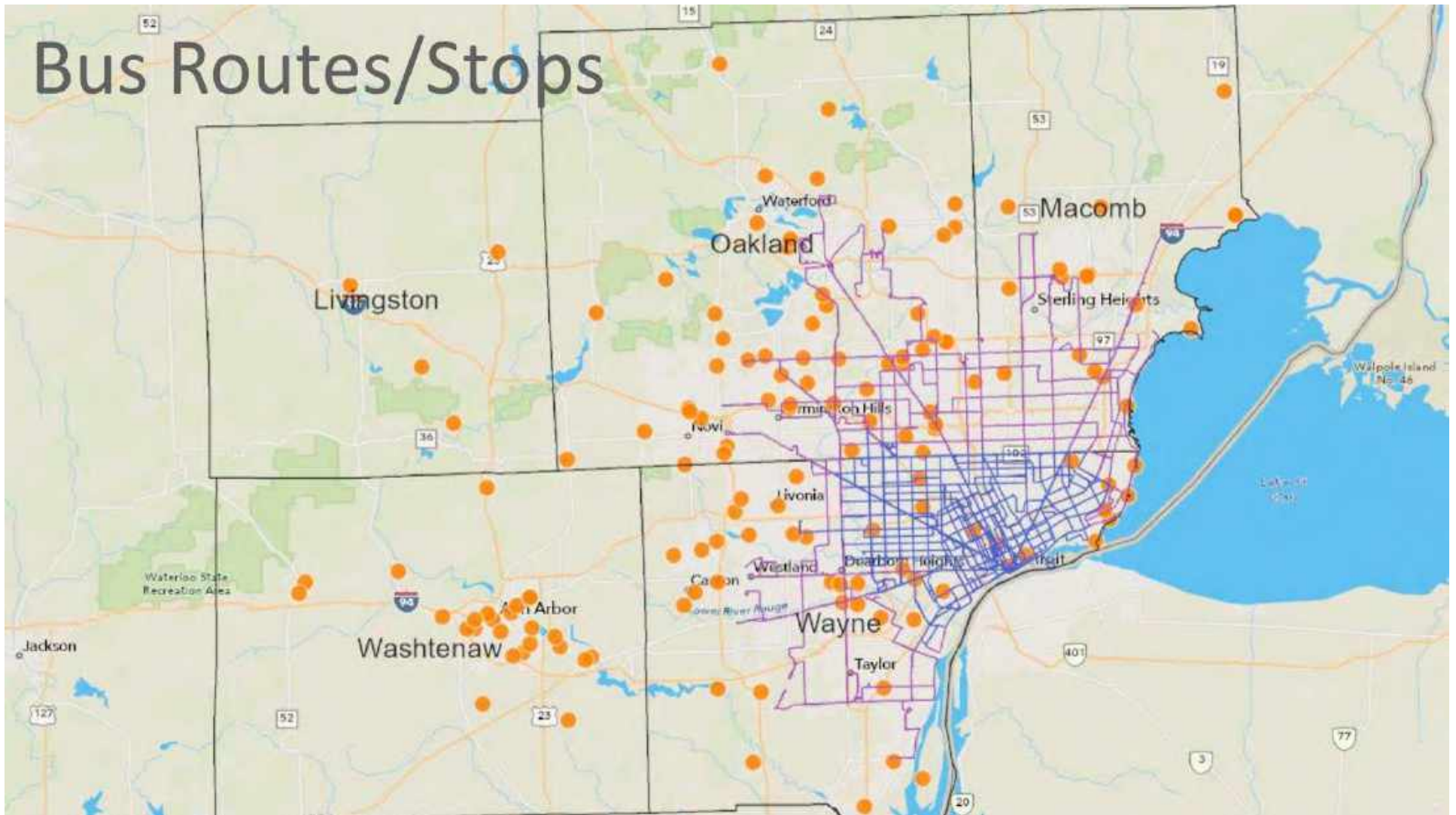
- Increase access to scholarship programs
- Provide no/low-cost swim lessons
- Acquire corporate sponsorships to fun program
- Investigate transportation programs (low priority)
- Expand the “Swim in the D” program to more than 2 days

## •Action Plan

1. Secure funding to expand the “Swim in the D” program
2. Expand “Swim in the D” program to continue year round
3. Identify after school programs interested in participating



# Bus Routes/Stops



# Participation

- Considerations

- Work with a sponsorship consultant to assist in acquiring corporate/large sponsorships

- Potential Partners

- HCMA
- Detroit Riverfront Conservancy
- City of Detroit
- American Red Cross
- USA Swimming Foundation
- Sport Ability – RIM
- Detroit public schools community district





# Program Focus Areas

- Goals

- Increase vertical swim programs

- Action Plan

1. Train instructors in other fitness modalities
2. Identify a spectrum of programs that meet facility specs
3. Utilize outside vendors/contractors for some programs
4. Create a program plan for new programs and profitability goals





# Program Focus Areas

- Considerations

- N/A

- Potential Partners

- HCMA
- Sports Ability - RIM



# Staffing

- Goals

- Develop Metroparks in training hub in SE Michigan
  - Look for partners in all 5 counties
- Get more area entities to submit for American Red Cross IT Academies
- Investigate transportation program to parks for training or staffing

- Action Plan

1. Register HCMA with the American Red Cross as an LTP
  - Swim Instruction
  - Lifeguard Training
2. Find year-round facilities to partner with an offer training
  - Could be part of the “Swim in the D” Program
3. Create a “Junior Guard” program
4. Create an in-house training program within HCMA
  - Lifeguarding
  - Swim Instruction
5. Work with American Red Cross/HCMA/partners to host IT academy trainings



# Staffing

## • Considerations

- Create marketing plan for social media marketing
  - TikTok
  - Instagram – reels
    - [@Fbh2o](#)
    - [@Roundrocklifeguards](#)
    - [@Newbraunfelsaquatics](#)

## • Potential Partners

- HCMA
- American Red Cross
- SJ Aquatics





# Raise Awareness of Inequities

## •Goals

- Develop a SE Michigan Aquatics Board
- HCMA Marketing Department – Raising Awareness campaign

## •Action Plan

1. Develop marketing collateral for swimming campaign
2. Create collateral that can be utilized by all swim facilities in the region
3. Utilize stats from annual/semi-annual swim program survey
4. Create news media package
5. Advertise in schools, radio, local news stations to coincide with “Swim in the D” program sign ups





# Raise Awareness of Inequities

- Considerations

- Expand the “brand” of “Swim in the D” to other area providers
- Create a process for partnerships

- Potential Partners

- MParks
- Diversity in Aquatics
- International Water Safety Foundation
- American Red Cross
- SJ Aquatics – Board
- Lynda Jeffries
- Swim lesson providers
- Zac Foundation



# Current Facility Improvements

- Goals

- HCMA Facility Improvements
- HCMA Aquatics Master Plan
- Improvements for area facilities

- Action Plan

1. Lake St. Clair
  - Main drain renovations
  - New pool lift
  - Ramp/zero depth entry
  - Bench seating
  - UV disinfection
  - Lap lanes
2. Lake Erie
  - UV disinfection
3. Willow Metropark Pool
  - UV disinfection
4. Aquatics Master Plan:
  - Identify funding
  - Issue RFP
  - Create plan
5. Area facilities:
  - Renovations or new facilities should start with feasibility/programming process
  - Amenities should reflect goals of the facility/users
  - Emphasize amenities that meet multiple user groups



# Current Facility Improvements

- Considerations

- Consider creating a funding/grant program through the SE Michigan Aquatics Board

- Potential Partners

- HCMA
- SE Michigan Aquatics Board



## HCMA Swim Program Goals

Swimming Ability	Water Competence	Participation	Program Focus Areas	Staffing	Raise Awareness of Inequities	Current Facility Improvements
<p>90% of children can stop/exit the water on their own by age 9</p> <p>Add open water swimming to competency list – more than 70% swim in lakes/ponds</p>	<p>Water safety taught in more schools</p> <p>Develop relationships with schools</p>	<p>Increase access to scholarship programs</p> <p>Provide no/low cost swim lessons</p> <p>Acquire corporate sponsorships to fun program</p> <p>Investigate transportation programs (low priority)</p> <p>Expand the "Swim in the D" program to more than 2 days</p>	<p>Increase vertical swim programs</p>	<p>Develop Metroparks in training hub in SE Michigan</p> <ul style="list-style-type: none"> <li>o Look for partners in all 5 counties</li> </ul> <p>Get more area entities to submit for American Red Cross IT Academies</p> <p>Investigate transportation program to parks for training or staffing</p>	<p>Develop a SE Michigan Aquatics Board</p> <p>HCMA Marketing Department – Raising Awareness campaign</p>	<p>Lake St. Clair Improvements</p> <p>HCMA Aquatics Master Plan</p> <p>Improvements for area facilities</p>

## Action Plan

<p>Secure funding to expand the "Swim in the D" program</p> <p>Expand "Swim in the D" program to continue year round</p> <p>Expand the program into the community:</p> <ul style="list-style-type: none"> <li>o Apartments</li> <li>o Water fronts</li> <li>o Metropark Pools</li> </ul>	<p>Develop a list of schools/districts that are interested in swim instruction -or- swim safety curriculums</p> <p>Identify areas in school curriculums that can support swim safety training</p> <p>Identify after school programs interested in participating</p>	<p>Secure funding to expand the "Swim in the D" program</p> <p>Expand "Swim in the D" program to continue year round</p> <p>Identify after school programs interested in participating</p> <p><b>Considerations:</b> Work with a sponsorship consultant to assist in</p>	<p>Train instructors in other fitness modalities</p> <p>Identify a spectrum of programs that meet facility specs</p> <p>Utilize outside vendors/contractors for some programs</p> <p>Create a program plan for new</p>	<p>Register HCMA with the American Red Cross as an LTP</p> <ul style="list-style-type: none"> <li>o Swim Instruction</li> <li>o Lifeguard Training</li> </ul> <p>Find year-round facilities to partner with an offer training</p> <ul style="list-style-type: none"> <li>o Could be part of the "Swim in the D" Program.</li> </ul> <p>Create a "Junior Guard" program</p> <p>Create an in-house training program within HCMA</p>	<p>Develop marketing collateral for swimming campaign.</p> <p>Create collateral that can be utilized by all swim facilities in the region.</p> <p>Utilize stats from annual/semi-annual swim program survey</p> <p>Create news media package</p>	<p>Lake St. Clair</p> <ul style="list-style-type: none"> <li>o Main drain renovations</li> <li>o New pool lift</li> <li>o Ramp/zero depth entry</li> <li>o Bench seating</li> <li>o UV disinfection</li> <li>o Lap lanes</li> </ul> <p>Lake Erie</p> <ul style="list-style-type: none"> <li>o UV disinfection</li> </ul> <p>Willow Metropark Pool</p> <ul style="list-style-type: none"> <li>o UV disinfection</li> </ul>
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<ul style="list-style-type: none"> <li>Partner facilities</li> </ul> <p>Create a process for annual/semi-annual swim program survey to track swim ability changes</p> <p><b>Considerations:</b> Register HCMA with the American Red Cross swim instruction program</p> <p>Submit course records for each swim session taught</p>	<p>Provide in-class training collateral</p> <p>Provide pool session time</p>	<p>acquiring corporate sponsorships:</p>	<p>programs and profitability goals</p>	<ul style="list-style-type: none"> <li>Lifeguarding</li> <li>Swim Instruction</li> </ul> <p>Work with American Red Cross/HCMA/partners to host IT academy trainings</p> <p><b>Considerations:</b> Create marketing plan for social media marketing</p> <ul style="list-style-type: none"> <li>Tiktok</li> <li>Instagram – reels <ul style="list-style-type: none"> <li>Fbh2o</li> <li>Roundrocklifeguards</li> <li>newbraunfelsaquatics</li> </ul> </li> </ul>	<p>Advertise in schools, radio, local news stations to coincide with “Swim in the D” program sign ups.</p> <p><b>Considerations:</b> Expand the “brand” of “Swim in the D” to other area providers</p> <p>Create a process for partnerships</p>	<p><b>Aquatics Master Plan:</b></p> <ul style="list-style-type: none"> <li>Identify funding</li> <li>Issue RFP</li> <li>Create plan</li> </ul> <p><b>Area facilities:</b></p> <ul style="list-style-type: none"> <li>Renovations or new facilities should start with feasibility/programming process</li> <li>Amenities should reflect goals of the facility/users</li> <li>Emphasize amenities that meet multiple user groups</li> </ul> <p><b>Considerations:</b> Consider creating a funding/grant program through the SE Michigan Aquatics Board</p>
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## Potential Participants

<p>HCMA</p> <p>Detroit Riverfront Conservancy</p> <p>City of Detroit</p> <p>American Red Cross</p> <p>Detroit public schools community district</p> <p>Boy Scouts – Waterfront</p> <p>YMCA - Waterfront</p>	<p>HCMA</p> <p>Detroit Riverfront Conservancy</p> <p>City of Detroit</p> <p>Stop Drowning Now</p> <p>Detroit public schools community district</p> <p>American Red Cross (Whale tales, CPR)</p>	<p>HCMA</p> <p>Detroit Riverfront Conservancy</p> <p>City of Detroit</p> <p>American Red Cross</p> <p>USA Swimming Foundation</p> <p>Sport Ability – RIM</p> <p>Detroit public schools community district</p>	<p>HCMA</p> <p>Sport Ability - RIM</p>	<p>HCMA</p> <p>American Red Cross</p> <p>SJ Aquatics</p>	<p>MParks</p> <p>Diversity in Aquatics</p> <p>International Water Safety Foundation</p> <p>American Red Cross</p> <p>SJ Aquatics – Board</p> <p>Lynda Jeffries</p> <p>Swim lesson providers</p> <p>Zac Foundation</p>	<p>HCMA</p> <p>SE Michigan Aquatics Board</p>
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THANK YOU!!



To: Board of Commissioners  
From: Sarah Plumer, Chief of Planning and Development  
Subject: Report – Avian Monitoring Update  
Date: September 2, 2022

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

That the Board of Commissioners receive and file the Avian Monitoring update as submitted by Jay Bibby and staff.

**Fiscal Impact:** None

**Background:** In 2020, the Metroparks received a grant from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) through their Non-Point Source Pollution program for Lake St. Clair's Beach Restoration project. The basis for this project is to reduce avian sources of E. coli (mainly geese and gulls) from the beach area to reduce beach closure days.

The U.S. Geological Survey (USGS) conducts regular water quality and groundwater monitoring as part of this grant project, which began in May 2022 and will continue through fall 2023.

Avian monitoring is part of the grant requirements to help EGLE and the Metroparks understand if these bird deterrents are having any impact. The monitoring consists of counting geese and gulls in six different zones along the beach at least four times per week. Volunteers and staff conduct the counts. The first complete data set is from June 2021; staff can now compare June and July 2021 to June and July 2022 and can be viewed in the attached report.

The Macomb County Health Department still conducts regular water quality testing, and the Goosebusters program is ongoing.

**Attachment: Avian Monitoring Report**

# AVIAN MONITORING AT LSC

## Survey Zones

The monitoring consists of counting geese and gulls in 6 different zones along the beach, at least four times per week. The counts are done by volunteers and staff. Our first complete data set is from June 2021, and therefore we are now able to compare June and July 2021 to June and July 2022. Results are sorted by zone below. Overall the total numbers for June decreased from 143.7 in 2021 as a daily average for all zones to 141.7 in 2022; and from 165.2 in July 2021 to 156.1 in July 2022.



## Comparison: June 2021 and June 2022

### June 2021 Daily Average totals

A1		A2		B1		B2		C1		C2	
Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls
8.4	12.4	2.4	1.9	1.4	76.5	0.0	6.8	17.4	11.4	0.0	5.1

### June 2022 Daily Average totals

A1		A2		B1		B2		C1		C2	
Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls
2.1	17.1	0.0	1.3	0.0	62.2	0.5	1.0	3.4	38.8	0.0	15.3

## Comparison: July 2021 and July 2022

### July 2021 Daily Average totals

A1		A2		B1		B2		C1		C2	
Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls
1.1	8.9	0.8	2.6	3.6	99.8	0.0	9.4	21.0	13.3	3.7	1.1

### July 2022 Daily Average totals

A1		A2		B1		B2		C1		C2	
Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls	Geese	Gulls
5.1	10.1	0	0	3.4	86.1	3	1.8	12.0	20.4	4.2	9.9



To: Board of Commissioners  
From: Sarah Plumer, Chief of Planning and Development  
Subject: Approval/Resolution – Cherry Island Trail Improvements  
Date: September 2, 2022

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

That the Board of Commissioners approve a resolution authorizing staff to execute the forthcoming Project Agreement for the Michigan Natural Resources Trust Fund (MNRTF) Grant for the Lake Erie Metropark – Cherry Island Trail Improvements Project as recommended by Chief of Planning and Development Sarah Plumer and staff.

**Fiscal Impact:** This is a reimbursement grant. The total cost of the project is estimated at \$871,800 dollars, of which, the Metroparks will be responsible for \$192,500 in cash outlay, \$79,300 in workforce labor, \$300,000 award from the Ralph C. Wilson, Jr. Foundation to match the \$300,000 award for the MNRTF grant. This project was included on the list of 2022 projects budgeted in the capital project fund.

**Background:** In March 2021, the Board authorized staff to apply for an MNRTF grant to redevelop Lake Erie Metroparks Cherry Island Nature Trail. The project was recommended for award in December 2021 and staff has received notice from staff at the Department of Natural Resources (DNR) that the Project Agreement was ready for approval in August 2022.

The project comprises of (1) concrete pads for three accessible van parking spaces; (2) an 8-foot wide aggregate trail from parking to new trailhead; (3) a 6-foot wide accessible aggregate path at viewing area; (4) accessible-related amenities (viewing scopes, picnic tables, bike hoops); (5) removal and replacement of a land-bridge dirt trail with 10-wide wide boardwalk; (6) new split rail fence; (7) relocation and access to benches; (8) improvements to the existing boardwalk for accessibility; (9) five native trees; and (10) overall elevation and modification of aggregate trail for accessibility.

In order to move forward with accepting the grant funding, the Metroparks is required to submit the executed Project Agreement, Resolution, Boundary Map, and Property Description to the DNR. The project is anticipated for completion by end of 2024.

**Attachment: Board Resolution  
Project Agreement**

HURON-CLINTON METROPOLITAN AUTHORITY  
13000 HIGH RIDGE DRIVE, BRIGHTON, MICHIGAN 48114

ACCEPTANCE OF MDNR TRUST FUND GRANT FOR  
LAKE ERIE METROPARK – CHERRY ISLAND TRAIL IMPROVEMENTS

Resolution No. 2022-07

Motion made by: Commissioner \_\_\_\_\_

Supported by: Commissioner \_\_\_\_\_

**AT A MEETING OF THE BOARD OF COMMISSIONERS OF THE HURON-CLINTON METROPOLITAN AUTHORITY HELD ON SEPTEMBER 8, 2022, THE BOARD ADOPTED THE FOLLOWING RESOLUTION:**

**WHEREAS**, the Huron-Clinton Metropolitan Authority (AUTHORITY) previously supported the submission of an application titled, Lake Erie Metropark – Nature Trail Improvements, to the Michigan Natural Resources Trust Fund grant program (renamed Lake Erie Metropark – Cherry Island Trail Improvements); and

**WHEREAS**, the AUTHORITY desires to redevelop Lake Erie Metroparks Cherry Island Nature Trail to comprise: (1) concrete pads for three accessible van parking spaces; (2) an 8-foot wide aggregate trail from parking to new trailhead; (3) a 6-foot wide accessible aggregate path at viewing area; (4) accessible-related amenities [viewing scopes, picnic tables, bike hoops]; (5) removal and replacement of a land-bridge dirt trail with 10-foot wide boardwalk; (6) new split rail fence; (7) relocation and access to benches; (8) improvements to the existing boardwalk for accessibility; (9) five native trees; and (10) overall elevation and modification of aggregate trail for accessibility; and

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Commissioners of the Huron-Clinton Metropolitan Authority does hereby accept the terms of the Agreement for TF21-0016 as received from the Michigan Department of Natural Resources (DEPARTMENT),

**BE IT FURTHER RESOLVED** that the AUTHORITY does hereby specifically agree, but not by way of limitation, as follows:

1. To appropriate all funds necessary to complete the project during the project period and to provide \$571,800 dollars (\$192,500 in cash outlay, \$79,300 in workforce labor, and \$300,000 award from the Ralph C. Wilson, Jr. Foundation) match for the grant authorized by the DEPARTMENT.
2. To maintain satisfactory financial accounts, documents, and records to make them available to the DEPARTMENT for auditing at reasonable times.
3. To construct the project and provide such funds, services and materials as may be necessary to satisfy the terms of said Agreement.
4. To regulate the use of the facility constructed and reserved under this Agreement to assure the use thereof by the public on equal and reasonable terms.
5. To comply with any and all terms of said Agreement including all terms not specifically set forth in the foregoing portions of this Resolution.

AYES: Commissioners: \_\_\_\_\_

NAYS: Commissioners: \_\_\_\_\_

ABSTAIN: Commissioners: \_\_\_\_\_

ABSENT: Commissioners: \_\_\_\_\_

I hereby certify that the above is a true and correct copy of the Resolution adopted by the Huron-Clinton Metropolitan Authority, on Thursday, Sept. 8, 2022.

\_\_\_\_\_  
Shawn Athayde, Recording Secretary





Michigan Department of Natural Resources - Grants Management

Michigan Natural Resources Trust Fund
Development Project Agreement

This information is required by authority of Part 5 of Act 451, P.A. 1994 as amended, to receive funds.

This Agreement is between Huron-Clinton Metropolitan Authority in the county of Livingston County, hereinafter referred to as the "GRANTEE," and the MICHIGAN DEPARTMENT OF NATURAL RESOURCES, an agency of the State of Michigan, hereinafter referred to as the "DEPARTMENT."

The purpose of this Agreement is to provide funding in exchange for completion of the project named below. This Agreement is subject to the terms and conditions specified herein.

Project Title: Lake Erie Metropark Cherry Island Trail Improvements Project #: TF21-0016
Grant Amount: \$300,000.00 34% PROJECT TOTAL: \$871,800.00
Match Amount: \$571,800.00 66%
Start Date: Date of Execution by DEPARTMENT End Date: 07/31/2024

As a precondition to the effectiveness of the Agreement, the GRANTEE is required to sign the Agreement and return it to the DEPARTMENT with the required attachments by 09/18/2022 or the Agreement may be cancelled by the DEPARTMENT. This Agreement is not effective until the GRANTEE has signed it, returned it, and the DEPARTMENT has signed it.

The individuals signing below certify by their signatures that they are authorized to sign this Agreement on behalf of their agencies, and that the parties will fulfill the terms of this Agreement, including any attached appendices, as set forth herein.

GRANTEE

SIGNED
By [Print Name]: Amy McMillan
Title: Director
Organization: Huron-Clinton Metropolitan Authority

0742339170000
DUNS Number
CV0048158 AD008
SIGMA Vendor Number SIGMA Address ID

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

SIGNED
By:
Grants Section Manager
Date of Execution by DEPARTMENT

1. This Agreement shall be administered on behalf of the DEPARTMENT by the Grants Management Section within the Finance and Operations Division. All notices, reports, documents, requests, actions or other communications required between the DEPARTMENT and the GRANTEE shall be submitted through the department's online grant management system, MiGrants, which is accessed through [www.michigan.gov/dnr-grants](http://www.michigan.gov/dnr-grants), unless otherwise instructed by the DEPARTMENT. Primary points of contact pertaining to this agreement shall be:

**GRANTEE CONTACT**

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Name/Title

---

Organization

---

Address

---

Address

---

Telephone Number

---

E-mail Address

**DEPARTMENT CONTACT**

---

MNRTF Grant Program Manager

---

Name/Title

---

Grants Management/DNR Finance & Operations

---

Organization

---

525 W. Allegan Street, Lansing, MI 48933

---

Address

---

P.O. Box 30425, Lansing, MI 48909

---

Address

---

517-284-7268

---

Telephone Number

---

DNR-Grants@michigan.gov

---

E-mail Address

2. The legal description of the project area, boundary map of the project area, and the development grant application bearing the number **TF21-0016** uploaded to MiGrants are by this reference made part of this Agreement. The Agreement together with the referenced documents in MiGrants constitute the entire Agreement between the parties and may be modified only in writing and executed in the same manner as the Agreement is executed.
3. The time period allowed for project completion is from **07/20/2022** through **07/31/2024**, hereinafter referred to as the "project period." Requests by the GRANTEE to extend the project period shall be submitted in MiGrants before the expiration of the project period. Extensions to the project period are at the discretion of the DEPARTMENT and may only be extended by an amendment to this Agreement.
4. The words "project area" shall mean the land and area described in the uploaded legal description and shown on the uploaded boundary map.
5. The words "project facilities" shall mean the following individual components, as further described in the application.

- Access Pathway 6' wide or more
- Bench(es)
- Bike Rack(s)
- Boardwalk
- Fence
- Landscaping
- Overlook or Observation Deck
- Paved ADA Parking Space(s)
- Picnic Table(s)
- Trail 8' wide or more
- Trailhead Kiosk Structure
- Viewing Scope

6. The DEPARTMENT will:

- a. grant to the GRANTEE a sum of money equal to **Thirty-Four percent (34%) of Eight Hundred and Seventy-One Thousand Eight Hundred dollars (\$871,800.00)**, which is the total eligible cost of construction of the project facilities including engineering costs, but in any event not to exceed **Three Hundred Thousand dollars (\$300,000.00)**.
- b. grant these funds in the form of reimbursements to the GRANTEE for eligible costs and expenses incurred as follows:
  - i. Payments will be made on a reimbursement basis at **Thirty-Four percent (34%)** of the eligible expenses incurred by the GRANTEE up to 90% of the maximum reimbursement allowable under the grant.
  - ii. Reimbursement will be made only upon DEPARTMENT review and approval of a complete reimbursement request submitted by the GRANTEE through the MiGrants website, including but not limited to copies of invoices, cancelled checks, EFTs, list of volunteer and/or force account time and attendance records.
  - iii. The DEPARTMENT shall conduct an audit of the project's financial records upon approval of the final reimbursement request by DEPARTMENT staff. The DEPARTMENT may issue an audit report with no deductions or may find some costs ineligible for reimbursement.
  - iv. The final 10% of the grant amount will be released upon completion of a satisfactory audit by the DEPARTMENT and documentation that the GRANTEE has erected an MNRTF sign in compliance with Section 7(j) of this Agreement.

7. The GRANTEE will:

- a. immediately make available all funds needed to incur all necessary costs required to complete the project and to provide **Five Hundred and Seventy-One Thousand Eight Hundred dollars (\$571,800.00)** in local match. This sum represents **Sixty-Six percent (66%)** of the total eligible cost of construction including engineering costs. Any cost overruns incurred to complete the project facilities called for by this Agreement shall be the sole responsibility of the GRANTEE.
- b. with the exception of engineering costs as provided for in Section 8, incur no costs toward completion of the project facilities before execution of this Agreement and before DEPARTMENT approval of plans, specifications and bid documents.
- c. complete construction of the project facilities to the satisfaction of the DEPARTMENT and to comply with the development project procedures set forth by the DEPARTMENT in completion of the project, including but not limited to the following:
  - i. Retain the services of a professional architect, landscape architect, or engineer, registered in the State of Michigan to serve as the GRANTEE'S Prime Professional. The Prime Professional shall prepare the plans, specifications and bid documents for the project and oversee project construction.
  - ii. **Within 180 days** following execution of this Agreement by the GRANTEE and the DEPARTMENT and before soliciting bids or quotes or incurring costs other than costs associated with the development of plans, specifications, or bid documents, provide the DEPARTMENT with plans, specifications, and bid documents for the project facilities, sealed by the GRANTEE'S Prime Professional.
  - iii. Upon DEPARTMENT approval of plans, specifications and bid documents, openly advertise and seek written bids for contracts for purchases or services with a value equal to or greater than \$50,000 and accept the lowest qualified bid as determined by the GRANTEE'S Prime Professional.
  - iv. Upon DEPARTMENT approval of plans, specifications and bid documents, solicit three (3) written quotes for contracts for purchases or services between \$5,000 and \$50,000 and accept the lowest qualified bid as determined by the GRANTEE'S Prime Professional.
  - v. Maintain detailed written records of the contracting processes used and submit these records to the DEPARTMENT upon request.
  - vi. Complete construction to all applicable local, state and federal codes, as amended; including but not limited to the federal Americans with Disabilities Act (ADA) of 2010, as amended; the Persons with Disabilities Civil Rights Act, Act 220 of 1976, as amended; the Playground Equipment Safety Act, P.A. 16 of 1997, as amended; the Utilization of Public Facilities by Physically Limited Act, P.A. 1 of 1966, as amended; the Elliott-Larsen Civil Rights Act, Act 453 of 1976, as amended; and the 2013 Access Board's Final Guidelines for Outdoor Developed Areas.
  - vii. Bury all new utilities within the project area.
  - viii. Correct any deficiencies discovered at the final inspection within 90 days of written notification by the

DEPARTMENT. These corrections shall be made at the GRANTEE'S expense and are eligible for reimbursement at the discretion of the DEPARTMENT and only to the degree that the GRANTEE'S prior expenditures made toward completion of the project are less than the grant amount allowed under this Agreement.

- d. operate the project facilities for a minimum of their useful life as determined by the DEPARTMENT , to regulate the use thereof to the satisfaction of the DEPARTMENT , and to appropriate such monies and/or provide such services as shall be necessary to provide such adequate maintenance.
  - e. provide to the DEPARTMENT for approval, a complete tariff schedule containing all charges to be assessed against the public utilizing the project area and/or any of the facilities constructed thereon, and to provide to the DEPARTMENT for approval, all amendments thereto before the effective date of such amendments. Preferential membership or annual permit systems are prohibited on grant-assisted sites, except to the extent that differences in admission and other fees may be instituted on the basis of residence. Nonresident fees shall not exceed twice that charged residents. If no resident fees are charged, nonresident fees may not exceed the rate charged residents at other comparable state and local public recreation facilities.
  - f. adopt such ordinances and/or resolutions necessary to effectuate the provisions of this Agreement ; certified copies of all such ordinances and/or resolutions adopted for such purposes shall be forwarded to the DEPARTMENT before the effective date thereof.
  - g. separately account for any revenues received from the project area which exceed the demonstrated operating costs and to reserve such surplus revenues for the future maintenance and/or expansion of the GRANTEE'S park and outdoor recreation program.
  - h. furnish the DEPARTMENT, upon request, detailed statements covering the annual operation of the project area and/or project facilities, including income and expenses and such other information the DEPARTMENT might reasonably require.
  - i. maintain the premises in such condition as to comply with all federal, state, and local laws which may be applicable, and to make any and all payments required for all taxes, fees, or assessments legally imposed against the project area.
  - j. erect and maintain a sign on the property which designates this project as one having been constructed with the assistance of the MNRTF. The size, color and design of this sign shall be in accordance with DEPARTMENT specifications.
  - k. conduct a dedication/ribbon-cutting ceremony as soon as possible after the project is completed and the MNRTF sign is erected within the project area. At least 30 days prior to the dedication/ribbon-cutting ceremony, the DEPARTMENT must be notified in writing of the date, time, and location of the dedication/ribbon-cutting ceremony. GRANTEE shall provide notice of ceremony in the local media. Use of the grant program logo and a brief description of the program are strongly encouraged in public recreation brochures produced by the GRANTEE. At the discretion of the DEPARTMENT, the requirement to conduct a dedication/ribbon-cutting ceremony may be waived.
8. Only eligible costs and expenses incurred toward completion of the project facilities after execution of the Project Agreement shall be considered for reimbursement under the terms of this Agreement. Eligible engineering costs incurred toward completion of the project facilities beginning **January 1, 2022** and throughout the project period are also eligible for reimbursement. Any costs and expenses incurred after the project period shall be the sole responsibility of the GRANTEE.
9. To be eligible for reimbursement, the GRANTEE shall comply with DEPARTMENT requirements. At a minimum, the GRANTEE shall:
- a. Submit a progress report every 180 days during the project period.
  - b. Submit complete requests for partial reimbursement when the GRANTEE is eligible to request at least 25 percent of the grant amount and construction contracts have been executed or construction by force account labor has begun.
  - c. Submit a complete request for final reimbursement **within 90 days of project completion and no later than 10/31/2024**. If the GRANTEE fails to submit a complete final request for reimbursement by **10/31/2024**, the DEPARTMENT may audit the project costs and expenses and make final payment based on documentation on file as of that date or may terminate this Agreement and require full repayment of grant funds by the GRANTEE .
10. During the project period, the GRANTEE shall obtain prior written authorization from the DEPARTMENT before adding, deleting or making a significant change to any of the project facilities as proposed. Approval of changes is solely at the discretion of the DEPARTMENT. Furthermore, following project completion, the GRANTEE shall obtain prior written authorization from the DEPARTMENT before implementing a change that significantly alters the project facilities as constructed and/or the project area, including but not limited to discontinuing use of a project facility or making a significant

change in the recreational use of the project area. Changes approved by the DEPARTMENT pursuant to this Section may also require prior approval of the BOARD, as determined by the DEPARTMENT.

11. All project facilities constructed or purchased by the GRANTEE under this Agreement shall be placed and used at the project area and solely for the purposes specified in the application and this Agreement .
12. The project area and all facilities provided thereon, as well as the land and water access ways to them, shall be open to the general public at all times on equal and reasonable terms. No individual shall be denied ingress or egress thereto or the use thereof because of sex, race, color, religion, national origin, residence, age, height, weight, familial status, marital status, or disability.
13. Unless an exemption has been authorized by the DEPARTMENT pursuant to this Section , the GRANTEE hereby represents that it possesses fee simple title, free of all liens and encumbrances, to the project area. The fee simple title shall not be subject to: 1) any possibility of reversion or right of entry for condition broken or any other executory limitation which may result in defeasance of title or 2) to any reservation or prior conveyance of coal, oil, gas, sand, gravel or other mineral interests. For any portion of the project area that the GRANTEE does not possess in fee simple title, the GRANTEE hereby represents that it has:
  - a. Received an exemption from the DEPARTMENT before the execution of this Agreement , and
  - b. Received prior approval from the DEPARTMENT of a lease and/or easement for any portion of the property not held in fee simple title as indicated in written correspondence from the DEPARTMENT dated \_\_\_\_\_, and
  - c. Supplied the DEPARTMENT with an executed copy of the approved lease or easement, and
  - d. Confirmed through appropriate legal review that the terms of the lease or easement are consistent with GRANTEE'S obligations under this Agreement and will not hinder the GRANTEE'S ability to comply with all requirements of this Agreement. In no case shall the lease or easement tenure be less than 20 years from the date of execution of this Agreement.
14. The GRANTEE shall not allow any encumbrance, lien, security interest, mortgage or any evidence of indebtedness to attach to or be perfected against the project area or project facilities included in this Agreement .
15. None of the project area, nor any of the project facilities constructed under this Agreement , shall be wholly or partially conveyed in perpetuity, either in fee, easement or otherwise, or leased for a term of years or for any other period, nor shall there be any whole or partial transfer of the lease title, ownership, or right of maintenance or control by the GRANTEE except with the written approval and consent of the DEPARTMENT. The GRANTEE shall regulate the use of the project area to the satisfaction of the DEPARTMENT.
16. The assistance provided to the GRANTEE as a result of this Agreement is intended to have a lasting effect on the supply of outdoor recreation, scenic beauty sites, and recreation facilities beyond the financial contribution alone and permanently commits the project area to Michigan's outdoor recreation estate , therefore:
  - a. The GRANTEE agrees that lands in the project area are being acquired with MNRTF assistance and shall be maintained in public outdoor recreation use in perpetuity. No portion of the project area shall be converted to other than public outdoor recreation use without the approval of the DEPARTMENT. The DEPARTMENT shall approve such conversion only upon such conditions as it deems necessary to assure the substitution by GRANTEE of other outdoor recreation properties of equal or greater market value and of reasonably equivalent usefulness and location. Such substituted land shall become part of the project area and will be subject to all the provisions of this Agreement.
  - b. Approval of a conversion shall be at the sole discretion of the DEPARTMENT .
  - c. Before completion of the project, the GRANTEE and the DEPARTMENT may mutually agree to alter the project area through an amendment to this Agreement to provide the most satisfactory public outdoor recreation area .
17. Should title to the lands in the project area or any portion thereof be acquired from the GRANTEE by any other entity through exercise of the power of eminent domain, the GRANTEE agrees that the proceeds awarded to the GRANTEE shall be used to replace the lands and project facilities affected with outdoor recreation lands and project facilities of equal or greater market value, and of equal or greater usefulness and location. The DEPARTMENT and BOARD shall approve such replacement only upon such conditions as it deems necessary to assure the replacement by GRANTEE of other outdoor recreation properties and project facilities of equal or greater market value and of equal or greater usefulness and location.



Such replacement land shall be subject to all the provisions of this Agreement.

18. The GRANTEE acknowledges that:
  - a. The GRANTEE has examined the project area and has found the property safe for public use or actions will be taken by the GRANTEE before beginning the project to assure safe use of the property by the public, and
  - b. The GRANTEE is solely responsible for development, operation, and maintenance of the project area and project facilities, and that responsibility for actions taken to develop, operate, or maintain the property is solely that of the GRANTEE, and
  - c. The DEPARTMENT'S involvement in the premises is limited solely to the making of a grant to assist the GRANTEE in developing the project site.
19. The GRANTEE assures the DEPARTMENT that the proposed State-assisted action will not have a negative effect on the environment and, therefore, an Environmental Impact Statement is not required.
20. The GRANTEE hereby acknowledges that this Agreement does not require the State of Michigan to issue any permit required by law to construct the outdoor recreational project that is the subject of this Agreement. Such permits include, but are not limited to, permits to fill or otherwise occupy a floodplain, and permits required under Parts 301 and 303 of the Natural Resources and Environmental Protection Act, Act 451 of the Public Acts of 1994, as amended. It is the sole responsibility of the GRANTEE to determine what permits are required for the project, secure the needed permits and remain in compliance with such permits.
21. Before the DEPARTMENT will approve plans, specifications, or bid documents; or give approval to the GRANTEE to advertise, seek quotes, or incur costs for this project, the GRANTEE must provide documentation to the DEPARTMENT that indicates either:
  - a. It is reasonable for the GRANTEE to conclude, based on the advice of an environmental consultant, as appropriate, that no portion of the project area is a facility as defined in Part 201 of the Michigan Natural Resources and Environmental Protection Act, Act 451 of the Public Acts of 1994, as amended;  
or
  - b. If any portion of the project area is a facility, documentation that Department of Environment, Great Lakes and Energy-approved response actions have been or will be taken to make the site safe for its intended use within the project period, and that implementation and long-term maintenance of response actions will not hinder public outdoor recreation use and/or the resource protection values of the project area.
22. If the DEPARTMENT determines that, based on contamination, the project area will not be made safe for the planned recreation use within the project period, or another date established by the DEPARTMENT in writing, or if the DEPARTMENT determines that the presence of contamination will reduce the overall usefulness of the property for public recreation and resource protection, the grant may be cancelled by the DEPARTMENT with no reimbursement made to the GRANTEE.
23. The GRANTEE shall acquire and maintain insurance which will protect the GRANTEE from claims which may arise out of or result from the GRANTEE'S operations under this Agreement, whether performed by the GRANTEE, a subcontractor or anyone directly or indirectly employed by the GRANTEE, or anyone for whose acts may hold them liable. Such insurance shall be with companies authorized to do business in the State of Michigan in such amounts and against such risks as are ordinarily carried by similar entities, including but not limited to public liability insurance, worker's compensation insurance or a program of self-insurance complying with the requirements of Michigan law. The GRANTEE shall provide evidence of such insurance to the DEPARTMENT at its request.
24. Nothing in this Agreement shall be construed to impose any obligation upon the DEPARTMENT to operate, maintain or provide funding for the operation and/or maintenance of any recreational facilities in the project area.
25. The GRANTEE hereby represents that it will defend any suit brought against either party which involves title, ownership, or any other rights, whether specific or general rights, including appurtenant riparian rights, to and in the project area of any lands connected with or affected by this project.
26. The GRANTEE is responsible for the use and occupancy of the premises, the project area and the facilities thereon. The GRANTEE is responsible for the safety of all individuals who are invitees or licensees of the premises. The GRANTEE will defend all claims resulting from the use and occupancy of the premises, the project area and the facilities thereon. The

DEPARTMENT is not responsible for the use and occupancy of the premises, the project area and the facilities thereon.

27. Failure by the GRANTEE to comply with any of the provisions of this Agreement shall constitute a material breach of this Agreement.
28. Upon breach of the Agreement by the GRANTEE, the DEPARTMENT, in addition to any other remedy provided by law, may:
  - a. Terminate this Agreement; and/or
  - b. Withhold and/or cancel future payments to the GRANTEE on any or all current recreation grant projects until the violation is resolved to the satisfaction of the DEPARTMENT; and/or
  - c. Withhold action on all pending and future grant applications submitted by the GRANTEE under the Michigan Natural Resources Trust Fund, Land and Water Conservation Fund and Recreation Passport Grant Program; and/or
  - d. Require repayment of grant funds already paid to GRANTEE; and/or
  - e. Require specific performance of the Agreement.
29. This Agreement may be canceled by the DEPARTMENT, upon 30 days written notice, due to Executive Order, budgetary reduction, other lack of funding, upon request by the GRANTEE, or upon mutual agreement by the DEPARTMENT and GRANTEE. The DEPARTMENT may honor requests for just and equitable compensation to the GRANTEE for all satisfactory and eligible work completed under this Agreement up until 30 days after written notice, upon which time all outstanding reports and documents are due to the DEPARTMENT and the DEPARTMENT will no longer be liable to pay the GRANTEE for any further charges to the grant.
30. The GRANTEE agrees that the benefit to be derived by the State of Michigan from the full compliance by the GRANTEE with the terms of this Agreement is the preservation, protection and net increase in the quality of public outdoor recreation facilities and resources which are available to the people of the State and of the United States and such benefit exceeds to an immeasurable and unascertainable extent the amount of money furnished by the State of Michigan by way of assistance under the terms of this Agreement. The GRANTEE agrees that after final reimbursement has been made to the GRANTEE, repayment by the GRANTEE of grant funds received would be inadequate compensation to the State for any breach of this Agreement. The GRANTEE further agrees therefore, that the appropriate remedy in the event of a breach by the GRANTEE of this Agreement after final reimbursement has been made shall be the specific performance of this Agreement.
31. The GRANTEE shall return all grant money if the project area or project facilities are not constructed, operated or used in accordance with this Agreement.
32. The GRANTEE agrees not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of religion, race, color, national origin, age, sex, sexual orientation, height, weight, marital status, partisan considerations, or a disability or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. The GRANTEE further agrees that any subcontract shall contain non-discrimination provisions which are not less stringent than this provision and binding upon any and all subcontractors. A breach of this covenant shall be regarded as a material breach of this Agreement.
33. The DEPARTMENT shall terminate this Agreement and recover grant funds paid if the GRANTEE or any subcontractor, manufacturer, or supplier of the GRANTEE appears in the register compiled by the Michigan Department of Licensing and Regulatory Affairs pursuant to Public Act No. 278 of 1980.
34. The GRANTEE may not assign or transfer any interest in this Agreement without prior written authorization of the DEPARTMENT.
35. The rights of the DEPARTMENT under this Agreement shall continue in perpetuity.





To: Board of Commissioners  
From: Sara Plumer, Chief of Planning and Development  
Subject: Approval – Wyandot of Anderdon Nation Memo of Understanding  
Project: EPA Grant Protecting Lake Erie Marsh & Waters with Green Infrastructure Practices  
Date: September 8, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners approve a collaborative partnership Memorandum of Understanding between the Huron-Clinton Metropolitan Authority and Wyandot of Anderdon Nation as recommended by Chief of Planning and Development Sara Plumer and staff

**Fiscal Impact:** The MOU does not obligate the Metroparks or Wyandot of Anderdon Nation (Wyandot) to contribute or transfer any funds.

**Background:** The proposed EPA grant project will be a collaborative effort between Wyandot and the Metroparks to assist with the restoration and/or enhancement of Six Points property and in the implementation of grant activities.

This will include Wyandot working with the Metroparks natural resources staff, cross promotion of the partnership with public outreach and marketing strategies associated with the grant project. Wyandot will also provide at least one representative to participate on and attend monthly stakeholder meetings. All final decisions affecting the infrastructure, aesthetics, and programming on the Six Points property will be made under the direction of the Wyandot Tribal Council.

**Attachment: Metroparks-Wyandot of Anderdon Nation Memo of Understanding**



To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 510-21-319B  
Project Title: Bids –Big Bend Parking Lot Removal  
Project Type: Capital Improvement  
Location: Willow Metropark  
Date: September 2, 2022  
  
Bids Received: August 30, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners award Contract No. 510-21-319B to the low responsive, responsible bidder, Best Asphalt Inc., in the amount of \$138,218.50 as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** This project is budgeted at \$501,593. There are two contracts for the completion of this grant work. This current bid is in the amount of \$138,218.50 and will leave a remaining project balance of \$363,374.50 to complete the project. The total project will be reimbursed by a National Fish and Wildlife Grant in the anticipated amount of \$250,000.

**Scope of Work:** The work includes furnishing all labor, equipment and materials necessary including approximately 5000 square yards pavement removal, demolition of a picnic shelter, grading, restoration, adding aggregate for the kayak launch and all incidental construction.

**Background:** This project is being constructed as a component of the National Fish and Wildlife Grant to restore the shoreline erosion along the Huron River in Willow Metropark.

The removal of the parking lot will fulfill one of the grant requirements to reduce impermeable surfaces. In addition, the project is moving forward with the internal objective to reduce unneeded paved areas. Willow, in particular, has areas that are conducive to pavement reduction without any significant impact to park users as ample parking exists throughout the park and in this vicinity. The area of the existing lot will be restored to native prairie habitat, which will enhance the biodiversity in this area. Also, as part of this work, improvements will be made to make access to the river easier for watercraft and fishing. Park users currently access the river in this area; however, it currently is not providing the most ease of use. The work will place a natural aggregate base mixture and will formalize the entrance area by providing a more suitable surface and grade.

<u>Contractor</u>	<u>City</u>	<u>Total</u>
Best Asphalt	Romulus	\$138,218.50
Gibraltar Construction	Trenton	\$167,130.60
Erie Construction LLC	Woodhaven	\$222,058.00
Budget Amount for Contract Services - Big Bend Shoreline Protection		\$501,593.00
Work Order Amount		
- Contract Amount – Best Asphalt Paving, Inc.		\$138,218.50
- Contract Administration		<u>\$ 11,000</u>
o Total Proposed Work Order Amount (Rounded)		\$149,219.00

*This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Construction Connect, Construction Market Data, Dodge Data & Analytics, Washtenaw Contractors Association, Construction News Corporation, Construction News Service, Construction Journal, HCMA Websit*





To: Board of Commissioners  
From: Mike Henkel, Chief of Engineering Services  
Project No: 510-21-319  
Project Title: Bids – Big Bend Erosion and Habitat Restoration  
Project Type: Capital Improvement  
Location: Willow Metropark  
Date: September 2, 2022  
  
Bids Received: August 30, 2022

**Action Requested: Motion to Approve**

That the Board of Commissioners award Contract No. 510-21-319 to the low responsive, responsible bidder, Erie Construction, Inc. in the amount of \$334,750.00 as recommended by Chief of Engineering Services Mike Henkel and staff.

**Fiscal Impact:** This is the second of two projects to complete this work. This project is under the remaining project balance of \$363,374.50 in the amount of \$28,624.50. The total project was budgeted at \$501,593.00 of which it is anticipated to be reimbursed in the amount of \$250,000 by a National Fish and Wildlife grant.

**Scope of Work:** The work includes furnishing all labor, equipment and materials necessary for the restoration for approximately 360 feet of river embankment in conjunction with habitat enhancements.

**Background:** Due to past high-water flow events, extensive erosion has occurred to the river embankment at the Big Bend picnic area in Willow Metropark. The existing shared use trail and sewer line is adjacent to the river in this area and further erosion has the potential to cause more damage to those structures. The grant project will provide natural streambank stabilization by the use of coir blocks and blankets, plantings, and toe wood. The engineered structure incorporates large logs, tree roots, and different sized woody structures to create an interlocking structure at the toe of the river embankment. The structure is further layered with soil, natural coir blocks made from coconut fiber, and plant plugs to form a matrix. Over time, the structure forms a naturalize embankment structure, which provides natural erosion control and habitat.

<u>Contractor</u>	<u>City</u>	<u>Total</u>
Erie Construction LLC	Woodhaven	\$334,750.00
Anglin Civil LLC	Livonia	\$351,895.00
M-K Construction Co. LLC	Brownstown	\$632,397.88
TSP Services, Inc.	Redford	\$725,112.22

Budget Amount for Contract Services	
- Big Bend Shoreline Protection	\$501,593.00
- Project #1 Big Bend Parking Lot Removal	<u>\$138,218.50</u>
o Remaining Project Budget	\$363,374.50

Work Order Amount	
- Contract Amount – Erie Construction LLC	\$334,750.00
- Contract Administration	<u>\$ 26,000.00</u>
o Total Proposed Work Order Amount (Rounded)	\$361,530.00

*This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Construction Connect, Construction Market Data, Dodge Data & Analytics, Washtenaw Contractors Association, Construction News Corporation, Construction News Service, Construction Journal, HCMA Website.*

**HURON-CLINTON METROPARKS MONTHLY STATISTICS**

**August, 2022**

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	146,511	75,388	72,444	102%	\$ 201,905	\$ 183,080	\$ 216,990	-7%
Wolcott Mill	4,761	3,654	3,699	29%	\$ 3,423	\$ 2,981	\$ 3,322	3%
Stony Creek	78,511	93,529	95,764	-18%	\$ 214,081	\$ 195,941	\$ 260,112	-18%
Indian Springs	12,893	14,015	14,396	-10%	\$ 34,347	\$ 27,511	\$ 32,443	6%
Kensington	93,807	85,493	99,491	-6%	\$ 204,473	\$ 195,833	\$ 291,577	-30%
Huron Meadows	13,735	13,988	14,132	-3%	\$ 4,577	\$ 1,243	\$ 7,642	-40%
Hudson Mills	25,443	30,665	30,505	-17%	\$ 51,221	\$ 44,874	\$ 56,401	-9%
Lower Huron/Willow/Oakwoods	62,235	69,752	65,521	-5%	\$ 141,226	\$ 100,249	\$ 116,766	21%
Lake Erie	22,455	25,893	25,589	-12%	\$ 27,541	\$ 25,937	\$ 40,605	-32%
<b>Monthly TOTALS</b>	<b>460,351</b>	<b>412,377</b>	<b>421,540</b>	<b>9%</b>	<b>\$ 882,794</b>	<b>\$ 777,649</b>	<b>\$ 1,025,857</b>	<b>-14%</b>

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	445,371	410,917	380,381	17%	\$ 1,810,492	\$ 1,819,603	\$ 1,650,800	10%
Wolcott Mill	34,262	30,132	22,704	51%	\$ 33,229	\$ 26,936	\$ 35,268	-6%
Stony Creek	444,460	537,821	515,811	-14%	\$ 2,174,135	\$ 2,450,232	\$ 2,404,731	-10%
Indian Springs	71,338	78,340	74,366	-4%	\$ 307,202	\$ 324,844	\$ 294,693	4%
Kensington	572,139	660,099	631,141	-9%	\$ 2,481,260	\$ 2,724,811	\$ 2,566,271	-3%
Huron Meadows	78,948	88,951	76,417	3%	\$ 61,245	\$ 53,259	\$ 46,116	33%
Hudson Mills	166,082	196,488	180,793	-8%	\$ 493,269	\$ 529,668	\$ 487,964	1%
Lower Huron/Willow/Oakwoods	393,426	438,024	406,296	-3%	\$ 897,476	\$ 805,592	\$ 790,434	14%
Lake Erie	153,732	168,651	161,365	-5%	\$ 469,887	\$ 516,733	\$ 528,037	-11%
<b>Monthly TOTALS</b>	<b>2,359,758</b>	<b>2,609,423</b>	<b>2,449,275</b>	<b>-4%</b>	<b>\$ 8,728,195</b>	<b>\$ 9,251,678</b>	<b>\$ 8,804,314</b>	<b>-1%</b>

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	\$ 341,513	\$ 362,337	\$ 336,437	2%	\$ 2,610,082	\$ 2,545,566	\$ 2,257,168	16%
Wolcott Mill	\$ 6,786	\$ 19,778	\$ 18,398	-63%	\$ 84,002	\$ 110,988	\$ 130,663	-36%
Stony Creek	\$ 577,141	\$ 679,435	\$ 658,439	-12%	\$ 4,081,173	\$ 4,495,339	\$ 4,067,292	0%
Indian Springs	\$ 256,473	\$ 238,751	\$ 217,163	18%	\$ 1,342,288	\$ 1,297,049	\$ 1,052,821	27%
Kensington	\$ 621,593	\$ 738,078	\$ 754,357	-18%	\$ 4,626,759	\$ 4,997,107	\$ 4,402,988	5%
Huron Meadows	\$ 215,956	\$ 217,656	\$ 202,416	7%	\$ 1,066,451	\$ 1,065,927	\$ 842,412	27%
Hudson Mills	\$ 214,531	\$ 217,966	\$ 216,316	-1%	\$ 1,228,076	\$ 1,254,921	\$ 1,084,237	13%
Lower Huron/Willow/Oakwoods	\$ 514,538	\$ 468,209	\$ 472,582	9%	\$ 2,345,294	\$ 2,000,288	\$ 1,985,923	18%
Lake Erie	\$ 232,577	\$ 245,125	\$ 267,487	-13%	\$ 1,423,111	\$ 1,523,113	\$ 1,434,323	-1%
<b>Y-T-D TOTALS</b>	<b>\$ 2,981,109</b>	<b>\$ 3,187,335</b>	<b>\$ 3,143,594</b>	<b>-5%</b>	<b>\$ 18,807,235</b>	<b>\$ 19,290,298</b>	<b>\$ 17,257,827</b>	<b>9%</b>

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	924,093	978,870	918,896	1%	6,775,257	7,151,893	6,455,123	5%
Western	888,507	1,023,878	962,717	-8%	8,263,574	8,615,004	7,382,457	12%
Southern	547,158	606,675	567,662	-4%	3,768,405	3,523,401	3,420,246	10%

HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2022

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	7,220	6,615	6,911	4%	\$ 241,258	\$ 235,688	\$ 224,476	7%
Indian Springs	6,631	6,467	5,833	14%	\$ 213,799	\$ 195,574	\$ 177,296	21%
Kensington	6,922	6,681	6,781	2%	\$ 223,977	\$ 222,046	\$ 222,054	1%
Huron Meadows	6,499	6,337	6,118	6%	\$ 210,819	\$ 214,923	\$ 194,124	9%
Hudson Mills	5,505	5,112	5,317	4%	\$ 151,596	\$ 144,135	\$ 135,263	12%
Willow	6,186	4,769	5,569	11%	\$ 182,330	\$ 141,983	\$ 163,748	11%
Lake Erie	6,144	6,098	5,910	4%	\$ 172,118	\$ 179,130	\$ 169,739	1%
Total Regulation	45,107	42,079	42,438	6%	\$ 1,395,897	\$ 1,333,479	\$ 1,286,700	8%
LSC Par 3	1,291	1,270	1,330	-3%	\$ 10,670	\$ 9,780	\$ 10,581	1%
LSC Foot Golf	142	120	181	-22%	\$ 1,074	\$ 1,000	\$ 1,378	-22%
<b>Total Golf</b>	<b>46,540</b>	<b>43,469</b>	<b>43,949</b>	<b>6%</b>	<b>\$ 1,407,641</b>	<b>\$ 1,344,259</b>	<b>\$ 1,298,659</b>	<b>8%</b>

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	29,908	29,561	26,032	15%	\$ 1,047,567	\$ 1,031,290	\$ 860,033	22%
Indian Springs	28,710	27,363	22,322	29%	\$ 935,610	\$ 855,129	\$ 684,638	37%
Kensington	30,837	31,816	28,079	10%	\$ 1,031,926	\$ 1,036,204	\$ 889,958	16%
Huron Meadows	28,485	27,112	23,708	20%	\$ 935,386	\$ 949,656	\$ 758,131	23%
Hudson Mills	23,558	23,252	20,063	17%	\$ 637,445	\$ 623,954	\$ 503,755	27%
Willow	23,435	22,676	20,237	16%	\$ 662,005	\$ 686,484	\$ 598,466	11%
Lake Erie	26,328	26,935	22,683	16%	\$ 762,628	\$ 803,925	\$ 642,114	19%
Total Regulation	191,261	188,715	163,124	17%	\$ 6,012,567	\$ 5,986,643	\$ 4,937,095	22%
LSC Par 3	4,647	5,153	5,082	-9%	\$ 41,186	\$ 43,670	\$ 41,609	-1%
LSC Foot Golf	472	569	617	-23%	\$ 4,041	\$ 4,388	\$ 4,466	-10%
<b>Total Golf</b>	<b>196,380</b>	<b>194,437</b>	<b>168,823</b>	<b>16%</b>	<b>\$ 6,057,794</b>	<b>\$ 6,034,701</b>	<b>\$ 4,983,169</b>	<b>22%</b>

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	12,872	18,271	11,737	10%	\$ 60,519	\$ 91,477	\$ 56,941	6%
Stony Creek Rip Slide	5,946	8,884	5,415	10%	\$ 35,398	\$ 51,148	\$ 30,264	17%
KMP Splash	7,980	19,276	14,435	-45%	\$ 53,430	\$ 130,939	\$ 86,725	-38%
Lower Huron	16,597	18,566	14,035	18%	\$ 148,209	\$ 174,690	\$ 148,422	0%
Willow	4,472	7,751	5,317	-16%	\$ 20,835	\$ 32,813	\$ 23,445	-11%
Lake Erie	0	0	2,607	-	\$ -	\$ -	\$ 21,023	-
<b>TOTALS</b>	<b>47,867</b>	<b>72,748</b>	<b>53,545</b>	<b>-11%</b>	<b>\$ 318,390</b>	<b>\$ 481,066</b>	<b>\$ 366,820</b>	<b>-13%</b>

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	54,867	47,643	34,295	60%	\$ 270,628	\$ 225,249	\$ 163,228	66%
Stony Creek Rip Slide	21,989	27,987	16,809	31%	\$ 127,652	\$ 155,402	\$ 90,919	40%
KMP Splash	38,220	52,050	42,209	-9%	\$ 254,905	\$ 323,094	\$ 247,995	3%
Lower Huron	48,826	31,624	37,776	29%	\$ 486,470	\$ 305,125	\$ 413,250	18%
Willow	21,739	20,160	16,187	34%	\$ 101,677	\$ 86,875	\$ 72,041	41%
Lake Erie	0	0	10,447	-	\$ -	\$ -	\$ 84,761	-
<b>TOTALS</b>	<b>185,641</b>	<b>179,464</b>	<b>157,723</b>	<b>18%</b>	<b>\$ 1,241,332</b>	<b>\$ 1,095,746</b>	<b>\$ 1,072,194</b>	<b>16%</b>

HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2022

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	8	6	3	140%	\$ 17,700	\$ 11,800	\$ 5,700	211%
Shelters	42	38	39	8%	\$ 9,928	\$ 10,900	\$ 10,170	-2%
Boat Launches	593	1,585	1,776	-67%	\$ -	\$ -	\$ -	-
Marina	493	342	420	17%	\$ 3,782	\$ 3,778	\$ 3,905	-3%
Mini-Golf	2,554	3,114	2,981	-14%	\$ 11,963	\$ 14,417	\$ 12,644	-5%
<b>Wolcott</b>								
Activity Center	0	4	3	-	\$ -	\$ 1,850	\$ 1,783	-
<b>Stony Creek</b>								
Disc Golf Daily	1,870	2,012	2,167	-14%	\$ 6,506	\$ 6,828	\$ 7,328	-11%
Disc Golf Annual	3	1	1	200%	\$ 180	\$ 60	\$ 60	200%
Total Disc Golf	1,873	2,013	2,168	-14%	\$ 6,686	\$ 6,888	\$ 7,388	-10%
Shelters	36	52	51	-29%	\$ 7,989	\$ 11,700	\$ 11,375	-30%
Boat Rental	34,291	4,986	5,878	483%	\$ 32,721	\$ 52,493	\$ 60,893	-46%
Boat Launches	16	14	83	-81%	\$ -	\$ -	\$ -	-
<b>Indian Springs</b>								
Shelters	12	6	7	80%	\$ 1,625	\$ 1,000	\$ 950	71%
Event Room	3	5	2	29%	\$ 6,500	\$ 14,500	\$ 5,833	11%
<b>Kensington</b>								
Disc Golf Daily	2,593	2,759	3,061	-15%	\$ 7,991	\$ 8,383	\$ 9,219	-13%
Disc Golf Annual	0	1	1	-	\$ -	\$ 60	\$ 60	-
Total Disc Golf	2,593	2,760	3,062	-15%	\$ 7,991	\$ 8,443	\$ 9,279	-14%
Shelters	51	58	63	-19%	\$ 11,000	\$ 11,300	\$ 13,031	-16%
Boat Rental	1,325	4,202	5,425	-76%	\$ 23,080	\$ 71,431	\$ 75,614	-69%
<b>Huron Meadows</b>								
Shelters	3	9	4	-25%	\$ 600	\$ 1,500	\$ 650	-8%
<b>Hudson Mills</b>								
Disc Golf Daily	1,788	1,142	1,110	61%	\$ 5,364	\$ 3,426	\$ 3,329	61%
Disc Golf Annual	4	1	1	200%	\$ 240	\$ 60	\$ 80	200%
Total Disc Golf	1,792	1,143	1,111	61%	\$ 5,604	\$ 3,486	\$ 3,409	64%
Shelters	16	11	11	45%	\$ 2,600	\$ 2,400	\$ 1,983	31%
Canoe Rental	3,170	3,702	3,376	-6%	\$ -	\$ 20,789	\$ 17,280	-
<b>Lower Huron / Willow / Oakwoods</b>								
Disc Golf Daily	193	130	193	0%	\$ 579	\$ 390	\$ 580	0%
Disc Golf Annual	0	0	0	-	\$ -	\$ -	\$ -	-
Total Disc Golf	193	130	193	0%	\$ 579	\$ 390	\$ 580	0%
Shelters	52	43	36	44%	\$ 10,350	\$ 8,550	\$ 7,483	38%
<b>Lake Erie</b>								
Shelters	7	5	8	-9%	\$ 1,500	\$ 1,200	\$ 1,717	-13%
Boat Launches	1,735	1,867	1,989	-13%	\$ -	\$ -	\$ -	-
Marina	0	0	0	-	\$ 30,979	\$ 38,278	\$ 33,732	-8%

HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2022

PARK	Seasonal Activities Y-T-D				Seasonal Revenue Y-T-D			
	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	31	31	31	0%	\$ 69,700	\$ 58,500	\$ 39,008	79%
Shelters	384	417	336	14%	\$ 98,434	\$ 88,170	\$ 77,214	27%
Boat Launches	2,640	6,309	6,225	-58%	\$ -	\$ -	\$ -	-
Marina	2,268	1,147	1,310	73%	\$ 18,743	\$ 17,343	\$ 15,334	22%
Mini-Golf	9,277	8,304	7,748	20%	\$ 43,312	\$ 38,211	\$ 32,416	34%
<b>Wolcott</b>								
Activity Center	5	10	21	-76%	\$ 4,380	\$ 9,075	\$ 11,518	-62%
<b>Stony Creek</b>								
Disc Golf Daily	10,033	13,144	11,371	-12%	\$ 33,986	\$ 44,368	\$ 38,345	-11%
Disc Annual	124	122	90	38%	\$ 7,286	\$ 7,120	\$ 5,180	41%
Total Disc Golf	10,157	13,266	11,461	-11%	\$ 41,272	\$ 51,488	\$ 43,525	-5%
Shelters	460	513	412	12%	\$ 103,189	\$ 115,194	\$ 92,523	12%
Boat Rental	101,590	17,692	20,932	385%	\$ 159,882	\$ 207,070	\$ 218,418	-27%
Boat Launches	365	376	643	-43%	\$ -	\$ -	\$ -	-
<b>Indian Springs</b>								
Shelters	100	84	67	49%	\$ 13,625	\$ 11,250	\$ 8,834	54%
Event Room	28	36	24	18%	\$ 76,750	\$ 91,100	\$ 51,533	49%
<b>Kensington</b>								
Disc Golf Daily	16,595	23,531	19,266	-14%	\$ 55,436	\$ 81,752	\$ 65,198	-15%
Disc Annual	235	341	231	2%	\$ 13,860	\$ 19,900	\$ 13,513	3%
Total Disc Golf	16,830	23,872	19,497	-14%	\$ 69,296	\$ 101,652	\$ 78,712	-12%
Shelters	450	567	489	-8%	\$ 98,900	\$ 119,997	\$ 104,603	-5%
Boat Rental	10,312	13,707	17,094	-40%	\$ 179,854	\$ 238,835	\$ 234,340	-23%
<b>Huron Meadows</b>								
Shelters	48	58	38	25%	\$ 9,200	\$ 9,700	\$ 6,650	38%
<b>Hudson Mills</b>								
Disc Golf Daily	5,989	7,726	6,277	-5%	\$ 17,967	\$ 23,178	\$ 18,832	-5%
Disc Annual	118	90	129	-9%	\$ 6,880	\$ 5,280	\$ 7,567	-9%
Total Disc Golf	6,107	7,816	6,406	-5%	\$ 24,847	\$ 28,458	\$ 26,399	-6%
Shelters	169	143	91	86%	\$ 29,900	\$ 25,400	\$ 16,300	83%
Canoe Rental	10,893	11,213	9,543	14%	\$ 17,123	\$ 34,572	\$ 29,252	-41%
<b>Lower Huron / Willow / Oakwoods</b>								
Disc Golf Daily	825	1,417	1,127	-27%	\$ 2,775	\$ 4,257	\$ 3,382	-18%
Disc Annual	10	9	7	36%	\$ 540	\$ 500	\$ 420	29%
Total Disc Golf	835	1,426	1,134	-26%	\$ 3,315	\$ 4,757	\$ 3,802	-13%
Shelters	353	443	301	17%	\$ 82,175	\$ 79,375	\$ 58,917	39%
<b>Lake Erie</b>								
Shelters	50	83	69	-27%	\$ 10,200	\$ 17,700	\$ 14,750	-31%
Boat Launches	11,786	11,072	12,983	-9%	\$ -	\$ -	\$ -	-
Marina	0	0	0	-	\$ 174,573	\$ 192,007	\$ 164,229	6%



HURON-CLINTON METROPARKS MONTHLY STATISTICS

August, 2022

INTERPRETIVE FACILITIES								
PARK	Monthly Patrons Served				YTD 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	18,826	15,574	17,300	9%	108,176	109,466	109,424	-1%
Wolcott Mill	1,724	4,530	2,673	-36%	11,485	36,105	19,109	-40%
Wolcott Farm	7,298	8,328	7,165	2%	34,900	36,627	28,877	21%
Stony Creek	17,127	22,088	19,836	-14%	112,863	150,782	130,949	-14%
Eastern Mobile Center	594	910	501	18%	13,482	2,797	5,784	133%
Indian Springs	6,804	6,560	6,400	6%	37,968	33,448	36,943	3%
Kens NC	30,126	26,121	31,304	-4%	220,891	259,793	250,967	-12%
Kens Farm	29,009	5,905	21,546	35%	183,998	174,179	156,958	17%
Western Mobile Center	611	217	276	121%	6,499	2,648	3,700	76%
Hudson Mills	3,640	3,538	3,559	2%	28,357	24,757	25,475	11%
Oakwoods	17,290	13,678	15,690	10%	102,882	99,421	106,153	-3%
Lake Erie	16,976	15,497	16,649	2%	113,880	130,787	126,080	-10%
Southern Mobile Center	0	1,271	424	-	11,579	4,591	6,027	92%
Totals	150,025	124,217	143,323	5%	986,960	1,065,401	1,006,446	-2%

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	\$ 1,541	\$ 1,573	\$ 1,222	26%	\$ 17,972	\$ 4,489	\$ 10,552	70%
Wolcott Mill	\$ -	\$ 49	\$ 39	-	\$ -	\$ 3,513	\$ 2,794	-
Wolcott Farm	\$ 5,439	\$ 3,184	\$ 2,015	170%	\$ 19,423	\$ 7,557	\$ 22,665	-14%
Wagon Rides	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-
Livestock/Produce	\$ 1,389	\$ 10,371	\$ 8,225	-83%	\$ 22,666	\$ 35,632	\$ 34,060	-33%
FARM TOTAL	\$ 6,828	\$ 13,555	\$ 10,240	-33%	\$ 42,089	\$ 43,189	\$ 56,725	-26%
Stony Creek	\$ 1,501	\$ 439	\$ 355	323%	\$ 15,806	\$ 3,904	\$ 7,405	113%
Eastern Mobile Center	\$ -	\$ 325	\$ 317	-	\$ 2,088	\$ 1,400	\$ 4,500	-54%
Indian Springs	\$ 202	\$ 166	\$ 640	-68%	\$ 8,981	\$ 3,754	\$ 9,106	-1%
Kens NC	\$ 1,034	\$ 956	\$ 1,107	-7%	\$ 15,159	\$ 8,049	\$ 12,755	19%
Kens Farm	\$ 2,123	\$ 1,274	\$ 1,611	32%	\$ 49,970	\$ 26,363	\$ 29,025	72%
Wagon Rides	\$ 1,552	\$ -	\$ 870	78%	\$ 9,494	\$ 2,096	\$ 5,946	60%
Livestock/Produce	\$ -	\$ 2,541	\$ 1,753	-	\$ 3,376	\$ 3,481	\$ 3,350	1%
FARM TOTAL	\$ 3,675	\$ 3,815	\$ 4,234	-13%	\$ 62,840	\$ 31,941	\$ 38,322	64%
Western Mobile Center	\$ 1,887	\$ 650	\$ 967	95%	\$ 8,496	\$ 2,474	\$ 7,810	9%
Hudson Mills	\$ 856	\$ 225	\$ 168	409%	\$ 14,214	\$ 7,425	\$ 6,489	119%
Oakwoods	\$ 404	\$ 478	\$ 388	4%	\$ 2,378	\$ 3,362	\$ 7,011	-66%
Lake Erie	\$ 439	\$ 580	\$ 370	19%	\$ 5,823	\$ 2,923	\$ 3,772	54%
Southern Mobile Center	\$ -	\$ -	\$ 521	-	\$ 7,180	\$ -	\$ 5,394	33%
Totals	\$ 18,366	\$ 22,811	\$ 20,568	-11%	\$ 203,027	\$ 116,424	\$ 172,636	18%

**HURON-CLINTON METROPARKS MONTHLY STATISTICS**

**August, 2022**

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	27	561	23	1,043	4	1,034	-	-
Wolcott Mill	1	18	-	-	-	-	-	-
Wolcott Farm	23	787	31	244	1	1,750	7	3,500
Stony Creek	35	581	8	88	-	46	-	-
Eastern Mobile Center					5	594	13	910
Indian Springs	5	171	6	60	-	-	-	-
Kens NC	25	531	10	213	-	-	-	-
Kens Farm	113	4,343	9	103	-	-	-	-
Western Mobile Center					19	611	11	217
Hudson Mills	13	140	3	38	-	-	-	-
Oakwoods	9	113	20	322	12	1,317	12	554
Lake Erie	15	76	18	121	-	-	1	46
Southern Mobile Center					-	-	31	1,271
<b>Totals</b>	<b>266</b>	<b>7,321</b>	<b>128</b>	<b>2,232</b>	<b>41</b>	<b>5,352</b>	<b>75</b>	<b>6,498</b>

BREAKDOWN OF ATTENDANCE	OTHER VISITORS (Non-programs)	
	Current	Previous
Lake St Clair	17,231	14,531
Wolcott Mill	1,706	4,530
Wolcott Farm	4,761	4,584
Stony Creek	16,500	22,000
Indian Springs	6,633	6,500
Kens NC	29,595	25,908
Kens Farm	24,666	5,802
Hudson Mills	3,500	3,500
Oakwoods	15,860	12,802
Lake Erie	16,900	15,330
<b>Totals</b>	<b>137,352</b>	<b>115,487</b>

"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.