City of Buffalo
Local Waterfront Revitalization Program

Adopted:
City of Buffalo Common Council, July 24, 2018

Approved:
NYS Secretary of State, Rossana Rosado, April 5, 2019

Concurred:
U.S. Office for Coastal Management, July 1, 2020
This Local Waterfront Revitalization Program (LWRP) has been prepared and approved in accordance with provisions of the Waterfront Revitalization of Coastal Areas and Inland Waterways Act (Executive Law, Article 42) and its implementing Regulations (19 NYCRR 601). Federal concurrence on the incorporation of this Local Waterfront Revitalization Program into the New York State Coastal Management Program as a routine program change has been obtained in accordance with provisions of the U.S. Coastal Zone Management Act of 1972 (P.L. 92-583), as amended, and its implementing regulations (15 CFR 923). The preparation of this program was financially aided by a federal grant from the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Office of Coastal Management, under the Coastal Zone Management Act of 1972, as amended. [Federal Grant No. NA-07-NOS-4190072.] The New York State Coastal Management Program and the preparation of Local Waterfront Revitalization Programs are administered by the New York State Department of State, Office of Planning, Development & Community Infrastructure, 99 Washington Avenue, Suite 1010, Albany, New York 12231-0001.
July 1, 2020

Ms. Sarah Crowell  
New York Coastal Management Program  
New York State Department of  
State 99 Washington Ave., Suite 
1010 Albany, NY 12231

Dear Ms. Crowell,

Thank you for the June 2, 2020, request for approval of changes to the New York Coastal Management Program pursuant to the National Oceanic and Atmospheric Administration (NOAA) Coastal Zone Management Act (CZMA) regulations at 15 CFR part 923, subpart H with the incorporation of the Local Waterfront Revitalization Program (LWRP) for the City of Buffalo into the New York Coastal Management Program (NY CMP).\(^1\)

NOAA’s Office for Coastal Management approves the request subject to the qualifications below.

NOAA’s regulations require that the state post this decision by the Office for Coastal Management for public notice.\(^2\) The public notice should state that as of the date of this decision letter the enforceable policies identified in the attached Table of Approved Changes shall be applicable in reviewing federal actions pursuant to the federal consistency requirements of the CZMA and its implementing regulations found at 15 CFR part 930.\(^3\) Please send a copy of the public notice to the Office for Coastal Management for our records to close out this file.

**PUBLIC AND FEDERAL AGENCY COMMENTS**

The Office for Coastal Management did not receive any comments on this program change submission.

**CHANGES APPROVED**

See the attached Table of Approved Changes to the New York Coastal Management Program.

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\(^1\) This program change request was submitted under NOAA’s revised CZMA program change regulations at 15 CFR part 923, subpart H (84 Federal Register (FR) 38118 (Aug. 6, 2019)). The Office for Coastal Management’s decision due date was July 2, 2020 subject to extension.

\(^2\) 15 CFR § 923.81(e)(5), as described at 84 FR 38133 (Aug. 6, 2019).

\(^3\) 15 CFR § 923.81(f), as described at 84 FR 38133 (Aug. 6, 2019).
QUALIFICATIONS

As with previous approval of NY CMP LWRPs, the enforceable provisions of Section II are only the stated policies and sub-policies. The enforceable policies do not include the explanatory text that accompanies each policy. While the explanatory text may be advisory as to how activities can show consistency with the LWRP policies, the State may not use the explanatory text as a basis for issuing an objection under its CZMA authority. Please also note that for the review of federal actions pursuant to the CZMZ, the requirements of the statute and implementing regulations at 15 CFR part 930 are controlling over any conflicting interpretation of the discussion of the CZMA federal consistency requirements within the City of Buffalo LWRP.

As a standard qualification applying to all program changes, states may not incorporate enforceable policies by reference. If an approved enforceable policy refers to another statute, regulation, policy, standard, guidance, or other such requirement or document, the referenced policy must be submitted to and approved by the Office for Coastal Management as an enforceable policy in order to be applied under the federal consistency review provisions of the CZMA. No referenced policy may be applied for CZMA federal consistency review purposes unless that policy has been separately reviewed and approved as an enforceable policy by the Office for Coastal Management.

Thank you for your cooperation in this review. Please contact Nelle D’Aversa at (908) 399-7756, if you have any questions. For future correspondence regarding these program changes, please refer to the file number assigned to this action, NY-2020-01.

Sincerely,

Joelle Gore, Chief
Stewardship Division

Attachment: Table of Approved Changes (NY-2020-01)
TABLE OF APPROVED CHANGES TO THE NEW YORK COASTAL MANAGEMENT PROGRAM (NY-2020-1)

Please reference the Office for Coastal Management July 1, 2020, decision letter for clarifications, exceptions and qualifications pertaining to this approval.

<table>
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<th>Legal citation</th>
<th>Title of policy, section, or other descriptor</th>
<th>Is the change new, revised, or deleted</th>
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<td>City of Buffalo Local Waterfront Revitalization Program (LWRP)</td>
<td>New</td>
<td>04/05/2019</td>
<td>Yes (Section II only)</td>
<td>Executive Law, Article 42</td>
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April 5, 2019

Honorable Byron W. Brown
Mayor
City of Buffalo
65 Niagara Square, City Hall Room 201
Buffalo, NY 14202

Dear Mayor Brown:

I am pleased to inform you that I have approved the City of Buffalo Local Waterfront Revitalization Program (LWRP), pursuant to the Waterfront Revitalization of Coastal Areas and Inland Waterways Act.

Everyone who participated in the preparation of the LWRP is to be commended for developing such a comprehensive management program that promotes the balanced preservation, enhancement, and utilization of valuable waterfront resources along the Niagara River, Lake Erie, Scapaquada Creek, Buffalo River and Cazenovia Creek. Congratulations on a job well done.

I am notifying all State agencies that I have approved the Buffalo LWRP and advising them that agency activities must now be undertaken in a manner consistent, to the maximum extent practicable, with the LWRP.

The approved Buffalo LWRP will be available on the website of the Department of State, at http://www.dos.ny.gov/opd/programs/WFRRevitalization/LWRP_status.html.

If you have any questions, please contact Barbara Kendall, the LWRP Coordinator within the Office of Planning, Development & Community Infrastructure, at (518) 473-8928.

Sincerely,

Rossana Rosado
Secretary of State

Enclosure: Approval Certificate
CITY CLERK'S OFFICE
CITY HALL
BUFFALO
August 15, 2018

To Whom It May Concern:
I hereby Certify, that at a Session of the Common Council of the City of Buffalo, held in the City Hall, on
The 24th day of July 2018. The attached Resolution was Passed of which the following is a true copy.

18-1250
Adoption of Buffalo Local Waterfront Revitalization Program Update

ATTEST
Deputy City Clerk

The above resolution was signed by the Mayor on 08/01/2018 and returned to the City Clerk on 08/01/2018
DEAR SIR:

Pursuant to the provisions of Section 3-19 of the Charter, I present herewith the attached resolution item.

PASSED July 24, 2018

No: 18-1250

MAYEX – Adoption of Buffalo Local Waterfront Revitalization Program Update

Gerald A Chwalinski
City Clerk

APPROVED
AUG - 1 2018

Mayor
Adoption of Buffalo Local Waterfront Revitalization Program - Update

The purpose of this communication is to request the review and adoption of the attached Local Waterfront Revitalization Program (LWRP).

This item is an update to the LWRP document submitted prior to the June 12, 2018 Common Council meeting. The only revision is an to update Policy Number 29 on page 17 of the LWRP, under “Other State Policies,” to reflect the current state policy language.

The City of Buffalo Office of Strategic Planning, with consultant planning assistance, has prepared a Local Waterfront Revitalization Program (LWRP) in cooperation with the New York State Department of State (NYS DOS) in accordance with the provisions of Executive Law, Article 42. An adopted LWRP has a number of benefits, including:

- The LWRP reflects community consensus and provides a clear direction for appropriate future waterfront development.
- The LWRP establishes a long-term partnership among local government, community-based organizations, and the State.
- Funding for implementation of the LWRP is available under Title 11 of the New York State Environmental Protection Fund Local Waterfront Revitalization Program (EPF LWRP) among other sources.
- State permitting, funding, and direct actions must be consistent, to the maximum extent practicable, with an approved LWRP.
- Within the federally defined coastal area, federal agency activities are also required to be consistent with an approved LWRP.

The key implementation tool of the LWRP is the Waterfront Consistency Review Law, which will ensure that proposed actions and development along the waterfront take place in a coordinated and comprehensive manner and are consistent with the policies of the adopted LWRP. The Waterfront Consistency Review Law is being filed with the Common Council as a separate item.

On September 19, 2017 the Council accepted the Draft LWRP, allowing for inter-agency review of the LWRP from State and Federal agencies. The NYS DOS conducted the inter-agency review of the LWRP from November 22, 2017 to February 20, 2018, presenting the Draft LWRP for review and requesting comments from Federal, State, and local agencies and organizations. Several comments were received, all of which were responded to by the City and NYS DOS. Based on these comments, a number of minor edits and updates were made to the LWRP, as follows:

- General edits and grammatical changes;
- Updates to status of existing projects and the addition of new projects, names of facilities/resources and organizations; and
- References to and descriptions of additional identified environmental and master plans.

Updated: 7/26/2018 1:56 PM by Carin Gordon K
The Office of Strategic Planning requests your Honorable Body adopt the City of Buffalo Local Waterfront Revitalization Program.

Discharge from Leg to CC 7/24/2018

Mr. Franczyk moved:

That the above item be, and the above communication from the Buffalo City Clerk, dated July 24, 2018, be approved; and

That the following agenda item # 18-1250, “The review and adoption of the Local Waterfront Revitalization Program (LWRP),” was discharged from the Legislation Committee from further consideration, and that said item was then placed before the Common Council for its consideration.

Approved.

HISTORY:
06/26/18 Common Council REFERRED TO LEG
07/03/18 Legislation Committee TABLED
07/17/18 Legislation Committee W/O REC

Discharged to CC meeting of 7/24/2018

ATTACHMENTS:
- LWRP_June_2018_Updated (PDF)
- Appendix A - LWRP Boundaries (PDF)
- Appendix B - Waterfront Consistency Review Law (PDF)
- Appendix C - Coastal Assessment FORM (PDF)
- Appendix D - State and Federal Actions updated (PDF)
- Appendix E - Waterfront Corridor Zone (PDF)
- Appendix F - City of Buffalo Harbor Management Plan updated (PDF)
- Appendix G - Fish & Wildlife Habitats (PDF)

RESULT: APPROVED
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CITY OF BUFFALO

Byron W. Brown, Mayor

Elizabeth A. Ball, Deputy Mayor

OFFICE OF STRATEGIC PLANNING

Brendan R. Mehaffy, Executive Director

CONSULTANT TEAM

Wendel

WWS Planning

*This document was prepared with funding provided by the New York State Department of State under Title 11 of the Environmental Protection Fund.*
APPENDICES
A. Local Waterfront Revitalization Area Boundary
B. Local Consistency Law
C. Coastal Assessment Form
D. State and Federal Programs
E. UDO Waterfront Zone
F. Harbor Management Plan References
G. Coastal Fish & Wildlife Habitat Rating Forms
SECTION 1: LOCAL WATERFRONT REVITALIZATION AREA (LWRA) BOUNDARY

The City of Buffalo Local Waterfront Revitalization Area (LWRA) expands the original New York State Coastal Area boundary to better mimic the Niagara River Greenway Focus Area boundary and to ensure that the LWRA included:

- The full reach of Scajaquada Creek (above ground only) and Hoyt Lake, Buffalo River, Cazenovia Creek and South Park Lake within the City of Buffalo;
- The full reach of the Great Lakes Seaway Trail National Scenic Byway in Buffalo, particularly the full extent along Niagara Street, as it serves as the City’s primary local waterfront corridor;
- The City’s five waterfront Olmsted Parks including Riverside, the southern half of Delaware Park, Front Park, Cazenovia Park and South Park; and
- The Canalside and Cobblestone areas.

Whenever possible, major roadway, rail line or property boundaries were utilized to simplify the boundary delineation. A full detailed description of the original New York State Coastal Management Area boundary established in accordance with the Coastal Zone Management Act in 1972, the LWRA boundary description, and justification for the boundary expansion has been included as Appendix A.

Map 1 provides a graphic representation of the City of Buffalo LWRA boundary.
SECTION II – LWRP POLICIES

Introduction

Water is a necessary ingredient for all life in Buffalo. Each year, the City of Buffalo community relies upon 43 inches of rain and snow combined with 22 billion gallons of water drawn from the Niagara River and the Great Lakes. That fresh water is essential for:

- Drinking;
- Growing, producing, and cooking food;
- Bathing, cleaning, and sanitation;
- Medicine;
- Cooling, heating, and energy;
- Construction and manufacturing;
- Tourism;
- Fire fighting and street cleaning;
- Energy production;
- Sports and recreation, including swimming, fishing, boating, hockey, and field sports;
- Fish and wildlife; and
- The trees, lawns, and landscapes that we call home.

The New York State Coastal Management Program (CMP), which implements the federal Coastal Zone Management Act, recognizes the importance of water to all New York communities. The CMP establishes 44 policies that collaborate to safeguard the state’s natural water resources, water-based economic development, and community interests. All state and federal actions within the area subject to the CMP, called the Coastal Zone, should be consistent with these policies.

The Buffalo Local Waterfront Revitalization Program (LWRP) is intended to be consistent with the 44 policies of the CMP. In addition, the LWRP:

- Establishes local policies that have been organized in a way that can be easily understood by all stakeholders;
- Identifies key, local factors to be considered during consistency review; and
- Includes new policies where necessary to reflect local conditions.

Policies

The LWRP policies and sub-policies, collectively referred to as “policies”, presented in this section consider the economic, social and environmental characteristics of the City of Buffalo’s waterfront. The policies represent a balance between economic development and preservation that will permit beneficial use of, and prevent adverse effects on, coastal resources. They also represent the enforceable policies of the New York State Coastal Management Program for the waterfront area subject to this LWRP. These policies are comprehensive and reflect the city’s concerns; and, they will be enforced through use of State laws and authorities, and local laws and regulations. These policies are the basis for Federal and State consistency reviews for activities affecting the local waterfront area. The policies are enforceable as a matter of state and local law. However, for reviews conducted under the federal Coastal Zone Management Act, the explanatory text for each policy is for explanatory purposes only. If an enforceable policy or explanatory text refers to other state policies, laws, technical manuals, or other such requirements or documents, the referenced requirement or document cannot be applied for CZMA federal consistency review unless previously submitted to and approved by the Office for Coastal Management as an enforceable policy.

With this LWRP, Buffalo has organized and will apply the state’s coastal policies to achieve the following goals:

1. Holistically protect the state’s coastal economic, social, and environmental interests;
2. Safeguard the City’s access to clean, Great Lakes fresh water for generations to come;
3. Promote water-based industry and enterprise;
4. Encourage commercial and recreational boating;
5. Build water-enhanced places that enliven the waterfront and attract the public;
6. Promote the City as an international gateway;
7. Protect and rebuild the Lake Erie/Niagara River food web – recognizing local fish as an important food source;
8. Provide for public water access in support of the public trust;
9. Maximize coastal resilience; and
10. Minimize environmental degradation from solid waste and hazardous substances.
GOAL 1. HOLISTIC COASTAL PROGRAM

Many inter-related interests come together within the City of Buffalo Waterfront Revitalization Area (WRA.) The City’s LWRP takes a holistic approach to waterfront revitalization, working to not only to balance these interests, but capitalize upon their inter-dependence to build a sustainable waterfront economy, community, and environment.

Policy IA: To safeguard the vital economic, social and environmental interests of the state and of its citizens, proposed major actions in the coastal area must give full consideration to those interests, and to the safeguards which the state has established to protect valuable coastal resources (State Policy 18).

GOAL 2. SAFEGUARD QUALITY AND QUANTITY OF GREAT LAKES FRESH WATER

Buffalo is fortunate to be located on the Great Lakes, home to 20% of the world’s surface fresh water. The entire flow of the upper four Great Lakes travels past the City on its route north to Lake Ontario - 200,000 cubic feet per second of flow - twice the water flowing over Niagara Falls. The City draws its entire drinking water supply from Lake Erie.

Today, Buffalonians take access to clean, fresh water for granted. But this was not always the case. Substantial investment in the Colonel Ward water treatment facility, hazardous waste remediation, industrial and municipal sewage treatment and sediment remediation have dramatically improved the City’s access to clean water. The City has also benefited from long standing bi-national efforts1 to protect and improve Lake Erie and Niagara River water quality and quantity upstream of the water intakes.

Continued local investment in the water supply system, storm water management, combined sewer overflow reduction, sanitary sewer overflow elimination, septic maintenance and industrial pollution prevention are necessary to safeguard water quality for generations to come. In addition, the City will depend upon the continued success of bi-national Great Lakes level efforts1 to reduce contaminants of concern and address excess nutrients in Lake Erie.

Looking forward, the Great Lakes are also facing emerging water quantity issues as water shortages generate pressure from outside the basin for water withdrawal and climate change threatens to reduce overall lake levels. The Great Lakes Compact provides a framework for managing these demands, but requires all Great Lakes States to implement water conservation measures, helping to ensure that water consumption does not outpace the Lakes’ one percent annual recharge rate.

The following policies are designed to safeguard the water quality and quantity of Buffalo’s Great Lakes fresh water resources.

2A - Municipal, industrial and commercial discharges of pollutants, including but not limited to toxic and hazardous substances, into coastal waters will conform to state and national water quality standards (State Policy 30).

SEQRA, site plan, and consistency review of actions within the WRA should consider efforts to improve and protect the City’s waterways such as the Lake Erie Lakewide Management Plan, bi-national Niagara River Toxics Management Plan, Niagara River Remedial Action Plan, Buffalo River Remedial Action Plan; and the NY Great Lakes Action Agenda.

2B - Best management practices will be used to ensure the control of combined sewer overflows, storm water runoff and nonpoint source pollution, including nutrients, organics and soils, draining into coastal waters (State Policies 33 and 37).

SEQRA, site plan and consistency review of actions within the WRA should consider

a. Compliance with Buffalo storm water management requirements;2

1 See Inventory, Section VI, Water Supply and Wastewater.
2 City of Buffalo Unified Development Ordinance (Proposed, December 2016), Sec. 7.3, “Stormwater.”
b. the Buffalo Sewer Authority Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP)\(^3\) to address sewer overflows through a balance of traditional “gray” infrastructure, as well as innovative “green” solutions; and

c. Buffalo and the Western New York Stormwater Coalition’s efforts to implement New York State Stormwater Regulations and prevent storm water pollution to local waterways.\(^4\)

### 2C - Discharge of waste materials into coastal waters from vessels subject to state jurisdiction will be limited so as to protect significant fish and wildlife habitats, recreational areas and water supply areas (State Policy 34).

SEQRA, site plan, and consistency review of policy 2C within the Buffalo LWRA should consider the Lake Erie Lakewide Management Plan, Buffalo and Niagara River Remedial Action Plan activities, and other efforts to improve water quality in support of the City’s waterfront revitalization.

### 2D - State coastal area policies and purposes of approved local waterfront revitalization programs will be considered while reviewing coastal water classifications and while modifying water quality standards; however, those waters already overburdened with contaminants will be recognized as being a development constraint (State Policy 31).

SEQRA, site plan, and consistency review of actions within the WRA should consider the Lake Erie Lakewide Management Plan, Niagara River Toxics Management Plan, Buffalo and Niagara River Remedial Action Plan activities, and other efforts to improve water quality in support of the City’s waterfront revitalization:

#### 2E - The quality and quantity of surface waters and groundwater supplies will be conserved and protected, particularly where such waters constitute the primary or sole source of water supply (State Policy 38).

a. Remediate environmental contamination to tributaries of Lake Erie, including the Buffalo River, Scajaquada Creek, and Cazenovia Creek;

b. Implement the Great Lakes Compact\(^5\) water quantity management and conservation provisions;

c. Minimize adverse impacts from operational changes by the Buffalo River Improvement Corporation\(^6\) industrial water supply system on the quality and quantity of flow of the Buffalo River; and

d. Protect the historic Jubilee Springs and West Side Consolidated Aquifer groundwater resources.

### 2G - Support Great Lakes and New York State efforts to prevent emerging contaminants of concern such as pharmaceuticals, silicone, microplastics, and cyanobacteria from adversely impacting the Lake Erie-Niagara River public water supply and food web (Buffalo Policy).

#### GOAL 3. PROMOTE WATER BASED INDUSTRY & ENTERPRISE

Access to abundant, fresh water creates unique opportunities for waterborne transport, water dependent industry, enterprise and energy development. By definition, water dependent uses must be located on or adjacent to water for success.

The following policies protect and support Buffalo’s working waterfront.

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\(^3\) Buffalo Sewer Authority Combined Sewer Overflow (CSO) Long Term Control Plan (available at http://bsascoimprovements.org/cso-control-plan/january-2014-ltcp/)

\(^4\) Buffalo and the Western New York Stormwater Coalition (information available at: http://www2.erie.gov/environment/index.php?q=western-new-york-stormwater-coalition

\(^5\) http://www.glscompactcouncil.org/

\(^6\) Buffalo River Improvement Corporation (see Section VIII, Inventory, P. I 38)
3A - Further develop the state's major ports of Albany, Buffalo, New York, Ogdensburg and Oswego as centers of commerce and industry, and encourage the siting, in these port areas, including those under jurisdiction of state public authorities, of land use and development which is essential to or in support of waterborne transportation of cargo and people (State Policy 3).

3B - Protect existing land uses that are, and encourage new development that is, water dependent or that supports water dependent activities; and ensure that proximate new uses do not negatively impact the operations of such water dependent or supportive land uses (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the Buffalo WRA should consider:

a. waterborne industrial transport associated with the grain elevators and other water dependent industrial users located on industrially zoned waterfront land such as Kelly Island;
b. opportunities to expand water borne transport; and
c. recreational and commercial boating throughout the City's waterfront.

3C - Facilitate the siting of water-dependent uses and facilities on or adjacent to coastal waters (State Policy 2)

SEQRA, site plan and consistency review of actions within the Buffalo WRA should consider:

a. Potential adverse impacts or interference with the continued operation of existing water-dependent uses; and
b. Support for the development of new water-dependent uses where:
   i. The need for dredging is minimized;
   ii. Waterside and landside access, as well as upland space for parking and other facilities, is adequate;
   iii. Necessary infrastructure exists or is easily accessible, including adequate shoreline stabilization structures, roads, water supply and sewage disposal facilities, and vessel waste pump-out and waste disposal facilities;
   iv. Water quality classifications are compatible;
   v. Impacts to important natural resources, such as wetlands and fish and wildlife habitats, could be avoided or minimized to the greatest extent practicable; and
   vi. Public access to the water's edge can be maintained, to the greatest extent practicable.

3D - Strengthen the economic base of smaller harbor areas by encouraging the development and enhancement of those traditional uses and activities which have provided such areas with their unique maritime identity (State Policy 4).

SEQRA, site plan, and consistency review of actions within the WRA should examine opportunities to encourage “blue-economy” enterprise and water dependent and related institutions and businesses within the WRA. Candidate ventures include, but are not limited to, water and Great Lakes research and educational facilities, fish hatcheries, aquaculture, marinas, boat manufacturing, boat sales and services, and fishing-related businesses, including fishing charter companies, bait, equipment and license sales shops.

3E - Decisions on the siting and construction of major energy facilities in the coastal area will be based on public energy needs, compatibility of such facilities with the environment and the facility’s need for a shorefront location (State Policy 27).

SEQRA, site plan and consistency review of actions within the WRA should thoroughly examine and document potential adverse impacts to:

a. the environment; and
b. the Buffalo community’s use and enjoyment and access to local waters for recreation, transportation and economic development.
GOAL 4. ENCOURAGE COMMERCIAL AND RECREATIONAL BOATING

Commercial and recreational boating are critical components of the WRA economy and community waterfront experience. These activities include, but are not limited to, Great Lakes cruise ships, the Queen City Ferry, excursion boats such as the Miss Buffalo and Moondance and Spirit of Buffalo, floating classrooms Buffalo Outdoor Education Foundation, fishing charters, party boats, motorized and human powered pleasure craft.

Approximately, 24,500 boats were registered in Erie County in 2013. The Great Lakes region ranks first, accounting for more than a quarter (27 percent) of registered boats in the United States. A full description of boating facilities in the Buffalo WRA has been presented in this LWRP Inventory Section III regarding Harbor Management.

Commercial and recreational boating activities are compatible with many residential, commercial uses, and open space uses, and can locate throughout the waterfront where market and site conditions permit.

The following policies are designed to encourage commercial and recreational boating within the Buffalo WRA:

4A - Support the provision of launches and platforms for human powered boating in suitable locations (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the WRA should consider the following factors in determining a site's suitability:

a. adjacent upland and in-water uses;

b. avoidance of U.S. Coast Guard designated safety and security zones and sensitive ecological areas;

c. health and safety factors including larger vessel traffic, water quality and presence of detritus;

d. upland attributes including destination and attractions, proximity to parks, boat storage and proximity to public restrooms;

e. water conditions including strength of current, wave and wake action, and water depth; and

f. upland transportation, including proximity to bike networks and greenways, transit, and parking facilities.

4B - Minimize potential safety hazards at access points for human-powered boating (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the WRA should consider the following factors:

a. operational measures to secure the facility to avoid unmonitored use;

b. appropriate training of users;

c. safety measures to avoid conflicts with commercial vessels, including communication with water dependent industrial users; and

d. safety measures for avoiding exposure to contaminated water and sediments.

4C - Encourage the design of piers, docks and boating facilities to accommodate multiple water dependent uses, a wide range of users and dynamic water levels (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the WRA should consider:

a. Potential uses may include recreational boating (motorized and human powered), tie up for historic and educational ships, passenger ferries, and charter facilities;

b. Use of universal design to ensure that facilities can be used by virtually everyone, regardless of their ability or disability; and

c. The impacts of high winds, seiche and flood events, climate change and long term lake level decline.

4D - Incorporate, where feasible and appropriate, safety features on bulkheads such as safety ladders, to allow emergency access from the waterway onto land. These features should not promote entry into the water where conditions may not be appropriate for recreation (Buffalo Policy):
4E - Minimize conflicts between recreational, commercial, and freight vessels (Buffalo Policy).

SEQRA, site plan and consistency review of actions within the WRA for boating facilities, marinas, and boat launches, should consider the following factors:

a. Giving priority to commercial vessels when determining rights to navigable waters;

b. Siting recreational boating facilities, particularly those serving vessels with limited power and maneuverability, in waters without heavy concentrations of maritime and industrial, ferry, and commercial vessel activity;

c. Siting, mooring, or docking facilities for recreational boats in areas where there is adequate natural protection or where structurally adequate and environmentally sound protection can be created; and

d. Siting facilities for human and wind powered vessels so as to avoid locations with strong currents and those prone to heavy wave or wake action.

4F - Minimize the impact of commercial and recreational boating activities and facilities on the aquatic environment and surrounding land and water uses (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the WRA for boating facilities, marinas, and boat launches, should consider the following factors:

a. Compliance with Lake Erie No Discharge Zone and other vessel waste discharge regulations and the provision of adequate pump out facilities; and

4G - Dredging and harbor operations, including vessel speed limits, should be managed to protect ecological resources, particularly Buffalo River and City Ship Canal in-situ capping and ecological restoration sites (Buffalo Policy).

4H - Protect public health and the environment from adverse impacts associated with the ongoing implementation or development of contaminated sediment confined disposal facilities (CDFs) that are located within the WRA (Buffalo Policy).

SEQRA, site plan, and consistency review of actions in the WRA on or adjacent CDFs should consider:

a. Potential contamination impacts on water quality and habitat; and

b. Periodic monitoring of water quality in adjacent recreational and habitat area waters.

GOAL 5. BUILD WATER-ENHANCED PLACES THAT ENLIVEN THE WATERFRONT AND ATTRACT THE PUBLIC

Where traditional industrial uses have declined or relocated, many coastal areas offer opportunities for commercial and residential development that would revitalize the waterfront. Benefits of redevelopment include providing new housing opportunities, fostering economic growth, and reestablishing the public’s connection to the waterfront. Strategic transportation projects should be implemented to improve multi-modal travel within and between WRA places and reduce the adverse impacts of WRA highway facilities. Redevelopment activities should protect and enhance the unique scenic, historic and cultural elements of the Buffalo WRA. New activities generated by redevelopment of the coastal area should comply with applicable state and national air quality standards and should be carried out in accordance with zoning regulations for the waterfront.

The following policies are designed to encourage the development of great, water-enhanced mixed use areas that capitalize upon the water’s ability to define places and enhance quality of life within the Buffalo WRA:

5A - New water enhanced, mixed use development shall be directed to the waterfront enhanced mixed use development areas proposed in this LWRP. These areas feature access to the water, waterfront parks, trails and views; the presence of adequate

7 See LWRP Section VIII, P. 141 (F. Vessel Discharge).
8 See LWRP Section VIII, Inventory, IIC, Habitat Resources; (P. 111) and Map 10, Natural Resources.
9 See LWRP Map 15, Contamination Hazards.
10 See Section III, Action Strategy: II Proposed Water Enhanced Mixed Use Development Areas
shoreline protection structures and utility service; location on strategic waterfront transportation routes; waterfront heritage resources; and potential to elevate adjacent neighborhood property values. These sites are uniquely suited to the development of water-enhanced uses that derive benefit from a waterfront location, but do not require such a location to function, such as restaurants, residential, and open space. (State Policies 1 and 5).

The LWRP proposed waterfront enhanced mixed use development areas include:

Black Rock Harbor Village
Scajaquada Creek Harbor/Buffalo State Campus
Niagara Street/Upper Rock
Cotter Point
Niagara Gateway
Erie Street
Canalside
Ohio Street
Ford Terminal Complex

5B - Protect, restore or enhance natural and manmade resources which are not identified as being of state-wide significance, but which contribute to the overall scenic quality of the coastal areas (State Policy 25).

SEQRA, site plan, and consistency review of actions within the Buffalo WRA should examine protection and enhancement of:

a. the Great Lakes Seaway Trail National Scenic Byway in Buffalo through the implementation of the City's Complete Streets ordinance and incorporation of landscaping, heritage interpretation and pedestrian amenities into roadway improvement projects; and

b. marinas, piers, wharfs and mooring areas as unique waterfront landscapes.

5C - Protect and enhance existing, and encourage opportunities for new, Niagara River Globally Significant Important Bird Area viewing sites (Buffalo Policy).

5D - Protect, enhance and restore structures, districts, areas or sites that are of significance in the history, architecture, archeology or culture of the state, its communities or the nation (State Policy 23).

In addition to compliance with historic preservation laws, SEQRA, site plan and consistency review of actions within the WRA should consider impacts on the following Buffalo waterfront heritage themes:

a. Native American archeological resources;

b. War of 1812;

c. Erie Canal;

d. Historic waterfront grain elevators;

e. Underground Railroad structures and routes;

f. Waterfront industrial heritage resources;

g. Waterfront Frederick Law Olmsted parks, particularly park features designed to provide views of, and access to, the City's waterways; and

h. Historic waterfront lighthouses and bridges.

5E - Actions and development should provide multi-modal transportation facilities in support of the City of Buffalo Complete Streets Ordinance (Buffalo Policy).

g. Streets should enable safe access for all users including persons with disabilities, pedestrians, bicyclists, motorists, and transit riders; and

h. Streets should be designed to be consistent with the Transportation Network article of the Buffalo Green Code Unified Development Ordinance.

5F - The following short term waterfront transportation projects should be encouraged within the WRA (Buffalo Policy):

See Inventory Section II.C, Habitat Resources
a. Reinforce the Great Lakes Seaway Trail and Ohio Street as the City’s primary multi-modal local waterfront transportation corridors with streetscape improvements and clear wayfinding signage;

b. Reinforce the Shoreline Trail and Jesse Kregal Creekside Trail multi-modal off-road routes with improved signage and amenities;

c. Minimize the adverse impact of NYS Route 198 on Delaware Park, Scajaquada Creek, public water access, noise, light, and property values;

d. Minimize the adverse impact of I-190 on waterfront public access, noise, light pollution and property values in the short term through:
   
i. Improved pedestrian connections below Route I-190 in Black Rock/Riverside;
   
ii. Improvement of the former Breckenridge Toll Plaza land along Black Rock Canal for public access, habitat regeneration, and stormwater management;
   
iii. Improvements to the parking facilities located beneath the I-190 to maximize parking, manage stormwater, and provide attractive gateways between the downtown and the water; and
   
iv. Improvements to the Virginia/Carolina Thruway interchange;
   
e. Minimize at-grade parking facilities within the WRA to preserve land for public access along the water’s edge and adjacent in-land commercial development;
   
f. Minimize waterfront truck traffic to the maximum extent practicable, redirecting through traffic to non-waterfront routes, while supporting truck traffic associated with local business; and

g. Improve the connection between Main Street and the waterfront by returning cars to Main Street, reestablishing the Erie Street radial between Main Street and Lakefront Boulevard, and calming traffic along Church Street (Buffalo Policy).

5G - The following long term waterfront transportation projects should be encouraged within the WRA (Buffalo Policy):

5H - Utilize signage within the WRA to assist in wayfinding and celebrate unique WRA cultural, recreational and environmental features (Buffalo Policy).

SEQRA, site plan and consistency review of actions within the WRA should review consistency with:

a. The Unified Development Ordinance;

b. Federal National Scenic Byway signage regulations; and


GOAL 6. PROMOTE BUFFALO AS AN INTERNATIONAL GATEWAY

The international border between the US and Canada serves as the western boundary of the Buffalo WRA. The Buffalo Niagara region serves as the second largest port of entry along the nation’s northern border, home to 15%
of all trade between the U.S. and Canada. Within the City of Buffalo WRA, the Peace Bridge, International Railroad bridge and the Erie Basin Marina Outlying Area Reporting Station serve as gateways for people, boats and cargo travelling between the US and Canada.

The following policies promote the development of the City and WRA as a high quality international gateway.

**6A** - Support the location of water dependent or enhanced International Trade Gateway hard and soft infrastructure, within the WRA (Buffalo Policy)

**6B** - Support the creation of attractive landscapes that welcome travelers from Canada (Buffalo Policy).

a. Revitalization of former industrial structures and vacant lands along Niagara Street, north of the Peace Bridge to Ferry Street; and

b. Develop international gateway landscapes:
   i. along Route I-190 at Porter Avenue and in LaSalle Park
   ii. between the Hope VI housing project and Route I-190
   iii. at the Carolina/Virginia Thruway interchange,
   iv. at Porter Avenue
   v. along the Route I-190 on and off ramps, and
   vi. at the US Peace Bridge Plaza.

**6C** - Improve connections between the US Shoreline Trail and the Niagara River Parkway bicycle and pedestrian trail system (Buffalo Policy).

**6D** - Encourage and expand marine border check-in sites to increase cross-border recreational boating and fishing (Buffalo Policy).

**6E** - Improve passenger train connections from downtown Buffalo through Niagara Falls to Toronto (Buffalo Policy).

**6F** - Facilitate efficient border crossing for travelers at the Peace Bridge and other Western New York border entry points (Buffalo Policy)

   a. Encourage enrollment in the Nexus trusted traveler program.

**6G** - Improve cross border interpretation of the War of 1812, Underground Railroad and bi-national water/energy/ecological management efforts (Buffalo Policy).

**6H** - Minimize adverse impacts of international gateway functions on the WRA, with particular emphasis on vulnerable environmental justice populations, migratory bird populations, historic resources, and water resources (Buffalo Policy)

**GOAL 7. PROTECT AND REBUILD THE LAKE ERIE/NIAGARA RIVER FOOD WEB**

While no commercial fisheries are known to exist on Lake Erie in New York, Lake Erie remains the largest freshwater commercial fishery in Canada, and one of the most valuable freshwater commercial fisheries in the world. In 2011, the Lake Erie commercial fishing industry caught nearly 22 million pounds of fish worth $28 million, much of which were sold to food stores and restaurants in Ontario, the U.S., and around the world. The total value of Lake Erie’s commercial fishery was $194 million in 2011.

Within the Buffalo WRA, Lake Erie and Niagara River are home to several sport fishing charter businesses, bait shops, and shoreline fishing sites. In addition, there are a number of neighborhoods within the WRA that are home to a significant population, including growing immigrant communities, many of whom rely upon locally caught fish for sustenance.


13 See Inventory
In addition, WRA natural systems host large native deer and turkey communities; several rare, threatened or endangered species; and a globally significant bird corridor. Because hunting is prohibited due to urban site conditions, the City, and the WRA in particular, serves as an informal regional wildlife preserve.

The following policies will help rebuild the Lake Erie-Niagara River food web, supporting sport and subsistence fishing in the short term and contributing to the long term restoration of sustainable commercial fishing in NY’s Lake Erie waters. These policies will also contribute to the protection of the City’s globally significant bird area; and rare, threatened and endangered species.

7A - Expand recreational use of fish and wildlife resources in coastal areas by increasing access to existing resources, supplementing existing stocks and developing new resources. (State Policy 9).

SEQRA, site plan, and consistency review of actions within the WRA should examine:

a. protection of the local habitat sites, including breeding grounds\(^\text{14}\);

b. protection and management of native stocks and the restoration of sustainable populations of indigenous fish living in Lake Erie, Niagara River, Buffalo River and Scajaquada Creek systems\(^\text{15}\); and

c. protection of fishing access sites and wildlife viewing facilities\(^\text{16}\).

7B - Significant coastal fish and wildlife habitats, will be protected, preserved, and where practical, restored so as to maintain their viability as habitats (State Policy 7).

Consistency review of actions within the Buffalo WRA shall consider the Times Beach, North Buffalo Harbor, Buffalo Harbor State Park, and Tifft Nature Preserve state-designated Significant Coastal Fish and Wildlife Habitats, as described in Inventory Section II C1 and on Map 11

\(^\text{14}\) See Inventory Section II C.4, Local Habitat Areas and Restoration Sites  
\(^\text{15}\) See Inventory Section II D, Fish Resources  
\(^\text{16}\) See Inventory Section V C.5, Fishing Facilities

7C - Preserve and protect tidal and freshwater wetlands and preserve the benefits derived from these areas (State Policy 44).

7D - Further develop commercial finfish, shellfish and crustacean resources in the coastal area by: (1) encouraging the construction of new or improvement of existing on shore commercial fishing facilities; (2) increasing marketing of the state’s seafood products; and (3) maintaining adequate stocks; and (4) expanding aquaculture facilities. Such efforts shall be made in a manner which ensures the protection of such renewable fish resources and considers other activities (State Policy 10).

7E - Effluent discharge from major steam electric generating and industrial facilities into coastal waters will not be unduly injurious to fish and wildlife and shall conform to state water quality standards (State Policy 40).

SEQRA, site plan and consistency review of actions should consider the migratory, spawning and nursery patterns of Niagara River and Lake Erie fish and wildlife communities.

7F - Water intakes shall minimize, to the maximum extent practicable, impingement or entrainment of fish and wildlife (Buffalo Policy).

7G - Protect, preserve, improve and restore, where practicable, publicly-owned areas identified as habitats of local significance, including the Times Beach diked disposal site, North Buffalo Harbor, Buffalo Harbor State Park, and Tifft Nature Preserve (Buffalo Policy).

7H - Protect, improve and restore naturalized shoreline areas within the Buffalo and Niagara River Great Lakes Areas of Concern (Buffalo Policy).

Consistency review of actions within the Buffalo WRA should consider the City’s protection of State and Federal wetlands located within the WRA as open space under the UDO as well as opportunities for constructing wetlands in support of the Buffalo and Niagara River Remedial Action Plan habitat restoration objectives.
a. Support the Buffalo and Niagara River Great Lakes Areas of Concern Delisting Criteria for Beneficial Use Impairment #14, which requires that a minimum of 25% of the shoreline in Areas of Concern be restored to natural slope, shallows, and aquatic vegetation.

7I - Prevent, to the maximum extent practicable, the introduction of aquatic invasive species to the Great Lakes (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the WRA should consider:

a. Implementation of controls on ballast water from ships and boats entering the Great Lakes;

b. Improvement to vessel pump-out stations and wash down facilities at local marinas to discourage the transport of aquatic invasive species;

c. Implementation of management techniques such as educational programming, informational signage, and watercraft inspection policies.

d. Protection against non-native species in nearby ecosystems, such as the Asian carp; and

e. Coordination with U.S. and Canadian governments, at all levels, to manage invasive species, including the continued collaboration through the NY Great Lakes Action Agenda.

7J - Protect public health from contaminated fish (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the WRA should consider:

a. Support of Buffalo and Niagara River Remedial Action Plan, Niagara River Toxics Management Plan and Lake Erie Lakewide Area Management Plan efforts to reduce contamination and restore local fisheries so that New York State Department of Health Fish Consumption Advisories are no longer required to protect public health; and

b. Support efforts to educate local subsistence anglers on New York State Department of Health fish consumption advisory provisions.

7K - Protect and enhance the Niagara River Globally Significant Important Bird Area (IBA) (Buffalo Policy).

SEQRA, site plan and consistency review of actions within the WRA should consider:

a. Protection and enhancement of bird habitat areas; and

b. Avoidance of disruptions to bird migration to the maximum extent practicable.

GOAL 8. PROVIDE PUBLIC WATER ACCESS IN SUPPORT OF THE PUBLIC TRUST

Throughout the City of Buffalo’s waterfront planning history, there has been a consistent, unwavering call for public access to the City’s shoreline and waterways.

The following policies support public access to the shoreline and waterways.

8A - Access to the publicly owned foreshore and to lands immediately adjacent to the foreshore or the water’s edge that are publicly owned shall be provided, and it should be provided in a manner compatible with adjoining uses. Such lands shall be retained in public ownership (State Policy 20).

SEQRA, site plan, and consistency review of actions within the WRA should examine:

a. Protection and enhancement of public access to the water, foreshore, and adjacent lands on publicly-held waterfront lands;

b. the public access objectives of the Niagara River Greenway Commission; and

c. Protection of public real property interests in waterfront lands

17 See Inventory Section II.G, Invasive Species
18 See Inventory Section II.H, Great Lakes Areas of Concern (AOC)
8B - Protect, maintain and increase the levels and types of access to public water-related recreation resources and facilities (State Policy 19).

SEQRA, site plan, and consistency review of actions within the WRA should examine:

a. Protection, maintenance and improvements to existing public waterfront access and water-dependent recreation facilities;\(^{20}\)

b. The development and implementation of a long term parks/recreation/open space master plan\(^{21}\) for the WRA and City as a whole, as described in the Action Strategy, that strategically addresses the many opportunities for creating new public water-based recreation access within the context of operations and maintenance constraints and economic development objectives;

c. Use of universal design to ensure that facilities can be used by virtually everyone, regardless of their ability or disability, is recommended;

d. Preparation of detailed operations, maintenance, and funding plans for new open spaces;

e. The public access objectives of the Niagara River Greenway and One Region Forward plans; and

f. Limits on public access and recreational activities where uncontrolled public use would lead to disruption of the environmental cleanup measures, fish and wildlife resources, erosion control, or flood protection functions

8C - Water dependent and enhanced recreation shall be encouraged and facilitated and shall be given priority over non-water-related uses along the coast (State Policy 21).

8D - Development, when located adjacent to the shore, will provide for water-related recreation, as a multiple use, whenever such recreational use is compatible with reasonably anticipated demand for such activities, and is compatible with the primary purpose of the development (State Policy 22).

GOAL 9. MAXIMIZE COASTAL RESILIENCY

Portions of the WRA are subject to periodic flooding associated with snow melt, heavy rain, high Lake Erie winds, and Lake seiche events. In addition, the release of the Lake Erie ice flow has potential impacts on erosion, sedimentation, waterfront structures, and the Niagara Power Project intakes. Both the state and federal government have actively engaged communities in coastal resilience planning, promoting the use of green infrastructure, natural protective features, land use regulation, and strategic structural protection.

The following policies are designed to maximize resiliency to high water and wind events in accordance with state and federal coastal resiliency guidance. In addition, a period review of Ice Boom operations is suggested to fully consider both the protective function of the boom as well as any adverse impacts.

9A - Activities or development in the coastal area will be undertaken so as to minimize damage to natural resources and property from flooding by protecting natural protective features including beaches, dunes, barrier islands and bluffs. Primary dunes will be protected from all encroachments that could impair their natural protective capacity (State Policy 12).

9B - Buildings and other structures will be sited in the coastal areas so as to minimize damage to property and the endangering of human lives caused by flooding and erosion (State Policy 11).

SEQRA, site plan, and consistency review of actions within the WRA should consider:

a. Limiting damage from flooding and erosion by:

i. Preserving existing publicly held open space along the City’s waterfront,

ii. Requiring that new development be set back from the high water mark,

iii. Requiring the maintenance of a vegetated riparian buffer, and

iv. Requiring on site storm water management for most new development; and

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\(^{20}\) See Inventory Section III, Harbor Management, and Section V, Recreation

\(^{21}\) See Action Strategy Section IV, Proposed Projects
b. City of Buffalo Charter Article 31 regarding Flood Damage Prevention which regulates land use and development that occurs within the 100-year floodplain;

c. Construction and insurance requirements of the Federal Emergency Management Agency and the US Department of Housing and Urban Development; and

d. City of Buffalo, Buffalo Sewer Authority, and Western New York Stormwater Coalition efforts to implement storm water management best practices throughout the region to reduce the speed and volume of storm water flow to area waterways during precipitation and snow melt events.

9C - Non-structural measures to minimize damage to natural resources and property from flooding and erosion shall be used whenever possible (State Policy 17).

9D - Activities and development, including construction or reconstruction of erosion protection structures, shall be undertaken so that there will be no measurable increase in erosion or flooding at the site of such activities or development, or at other locations (State Policy 14).

9E - The construction or reconstruction of erosion protection structures shall be undertaken only if there is a reasonable probability of controlling erosion for at least thirty years as demonstrated in design and construction standards and/or assured maintenance or replacement programs (State Policy 13).

9F - Public funds shall only be used for erosion protective structures where necessary to protect human life and new development which requires a location within or adjacent to an erosion hazard area to be able to function, or existing development; and only where the public benefits outweigh the long term monetary and other costs including the potential for increasing erosion and adverse effects on natural protective features (State Policy 16).

9G - Mining, excavation or dredging in coastal waters shall not significantly interfere with the natural coastal processes which supply beach material to land adjacent to such waters and shall be undertaken in a manner which will not cause an increase in erosion of such land (State Policy 15).

9H - Ice management practices shall not damage significant fish and wildlife and their habitats, increase shoreline erosion or flooding, or interfere with the production of hydroelectric power (State Policy 28).

9I - Preserve the natural protective functions of the following:

a. Times Beach Nature Preserve;

b. Outer Harbor Greenbelt (including the Bell Slip);

c. Tifft Nature Preserve;

d. Buffalo Harbor State Park;

e. Cazenovia Park;

f. Stachowski Park;

g. Seneca Bluffs;

h. LaSalle Park;

i. Delaware Park;

j. Jesse Kregal Pathway;

k. Unity Island; and

l. Local habitat areas (Buffalo Policy)

9J - Protect and maintain the following shoreline protective features:

a. Bird Island Pier, Buffalo Harbor break walls, and the Erie Basin Marina, to protect the City shoreline from Lake Erie related flooding and erosion;

b. Erosion control structures that protect the Colonel Ward Pumping Station and Buffalo Sewer Authority Bird Island Treatment Plant;
c. Erosion control structures associated with WRA remediated sites or confined disposal facilities; and

d. Erosion control structures associated with WRA waterfront transportation facilities (Buffalo Policy).

9K - Activities and development shall consider the potential impacts of climate change on the Buffalo WRA and consider the City’s unique location on the Niagara River strait (Buffalo Policy).

SEQRA, site plan, and consistency review of actions within the Buffalo WRA should consider activities related to bi-national water level management agreements, permitted discharge agreements, dredging, and ice and flood management (Buffalo Policy):

9L - Minimize the potential adverse impacts of the Niagara River Ice Boom (Buffalo Policy).

GOAL 10. MINIMIZE ENVIRONMENTAL DEGRADATION FROM SOLID WASTE AND HAZARDOUS SUBSTANCES

The disposal of solid waste (residential, industrial, and commercial waste; demolition and construction debris; sleges from air, water pollution control, or resource recovery facilities; and dredge spoils) can affect the use and quality of the city’s waterways and coastal lands. Among the concerns associated with the disposal and treatment of solid wastes and hazardous substances are the environmental damage caused by illegal dumping and the potential for contamination of water resources and coastal habitat areas, filling of wetlands and littoral areas, and degradation of scenic resources in the coastal zone.

Projects involving the handling, management, transportation, or discharge of solid wastes and hazardous substances need to comply with the applicable state and local laws or their successors. Solid wastes are those materials defined under ECL 27-0701 and 6 NYCRR Part 360-1.2. Hazardous wastes are those materials defined under ECL 27 -0901 and 6 NYCRR Part 371. Substance hazardous to the environment are defined under ECL 37-0101. Toxic pollutants are defined under ECL 17-0105. Radioactive materials are defined under 6 NYCRR Part 380. Pesticides are those substances defined under ECL 330101 and 6 NYCRR Part 325.

The following policies are designed to minimize environmental degradation from solid waste and hazardous substances.

10A - Protect fish and wildlife resources in the coastal area from the introduction of hazardous wastes and other pollutants which bioaccumulate in the food chain or which cause significant sublethal or lethal effects on those resources (State Policy 8).

SEQRA, site plan, and consistency review of actions within the WRA should consider the ongoing implementation of the Remedial Action Plans (RAPs) for the Buffalo and Niagara River Great Lakes Areas of Concern, the Lake Erie Lakewide Area Management Plan (LAMP) and the Bi-National Niagara River Toxics Management Plan.

10B - Dredging and dredge spoil disposal in coastal waters will be undertaken in a manner that meets existing state dredging permit requirements, and protects significant fish and wildlife habitats, scenic resources, natural protective features, important agricultural lands and wetlands (State Policy 35).

10C - Activities related to the shipment and storage of petroleum and other hazardous materials will be conducted in a manner that will prevent or at least minimize spills into coastal waters; all practicable efforts will be taken to expedite the cleanup of such discharges; and restitution for damages will be required when these spills occur (State Policy 36).

10D - The transport, storage, treatment and disposal of solid wastes, particularly hazardous wastes, within coastal areas will be conducted in such a manner so as to protect groundwater and surface water supplies, significant fish and wildlife habitats, recreation areas, important agricultural lands and scenic resources (State Policy 39).

SEQRA, site plan, and consistency review of actions within the Buffalo WRA should consider compliance with...
on-site hazardous and solid waste disposal area clean-up performance standards.

10E - Support the strategic removal of contaminated sediments from the Buffalo River (Buffalo Policy).

10F - Support efforts to characterize and address contaminated sediment and/or botulism concerns in Black Rock Canal, Scajaquada Creek, Hoyt Lake, Mirror Lake, and South Park Lake (Buffalo Policy).

10G - Avoid the siting of new petroleum and other hazardous material shipment and storage facilities, junk/salvage yards, recycling facilities, and waste transfer facilities within the WRA (Buffalo Policy).

10H – Development and improvements of all chemical and petroleum facilities shall prevent and control chemical discharges within the WRA (Buffalo Policy).

All major chemical and petroleum facilities should submit plans for the prevention and control of petroleum and chemical discharges to the City Emergency Management Services office.

10I - Chemical or petroleum storage facilities, including gas stations, and junk and salvage yards, must be designed and maintained in such a manner as to prevent or reduce water pollution, air pollution, noise pollution, obnoxious odors, litter, vector infestation, and other conditions harmful to public health and the environment (Buffalo Policy).

OTHER STATE POLICIES

Policy 6 – Expedite permit procedures in order to facilitate the siting of development activities at suitable locations.

Policy 24 - Prevent the impairment of scenic resources of statewide significance.

Policy 26 – Conserve and protect agricultural lands in the state’s coastal area.

Policy 29 - The development of offshore uses and resources, including renewable energy resources, shall accommodate New York’s long-standing ocean and Great Lakes industries, such as commercial and recreational fishing and maritime commerce, and the ecological functions of habitats important to New York.

Policy 32 - Encourage the use of alternative or innovative sanitary waste systems in small communities where the costs of conventional facilities are unreasonably high given the size of the existing tax base of these communities.

As per Buffalo Sewer Authority use regulation 10075.4, sanitary sewer facilities for all structures in the City of Buffalo shall be provided in accordance with the Buffalo City Code and shall be connected with the facilities of the Buffalo Sewer Authority.

Policy 41 – Land use or development in the coastal area will not cause national or state air quality standards to be violated.

Policy 42 - Coastal management policies will be considered if the State reclassifies land areas pursuant to the prevention of significant deterioration regulations of the Federal Clean Air Act.

No land areas have been designated under the Federal Clean Air Act to prevent significant deterioration.

Policy 43 – Land use or development in the coastal area must not cause the generation of significant amounts of acid rain precursors: nitrates and sulfates.
The vision for the City is to reestablish the waterfront as a thriving and vital part of the community and a destination for tourism and economic activity.

Over the last 20 years, substantial investments have been made in the City’s public waterfront access infrastructure, including canals, boat launches, marinas, fishing sites, waterfront trails, promenades, active recreation parks and nature preserves. Significant ecological improvements have also been made, including sewer overflow reductions, brownfield cleanups, habitat restoration projects and the Buffalo River sediment remediation project. Together, these efforts have dramatically transformed Buffalo’s former industrial, polluted waterfront into a vibrant asset showing real signs of recovery. Opportunities exist to expand and improve upon these improvements but capital and operational funding constraints remain the primary impediment to new investments.

While open space and recreational opportunities have been expanded, year round waterfront entertainment, retail, housing, and employment opportunities remain limited. Recent programming efforts sponsored by Erie Canal Harbor Development Corporation (ECHDC) have generated high-volume visitor activity. There is, however, a need to build self-sustaining mixed uses in the City’s redevelopment focus area. The goal is for the waterfront to be an “exciting urban place, where restaurants, retail, entertainment, recreational activities, and cultural and family destinations - in short, “things to do” - are embedded into an authentic, walkable district”.¹

This City of Buffalo LWRP proposes a waterfront revitalization strategy that activates the City’s built waterfront and develops a long-term funding strategy for the implementation of the Niagara River Greenway open space and heritage preservation vision.

Specically, the action strategy aims to:

- Clearly identify waterfront redevelopment and open space areas in the Unified Development Ordinance (UDO) based upon the Brownfield Opportunity Area and Local Waterfront Revitalization Program inventories and analyses;
- Make strategic public investments in those redevelopment areas to encourage private development investments and generate long-term revenue;
- Develop a mechanism to capture new waterfront revenue for reinvestment in the LWRA; and
- Leverage that waterfront revenue to improve, expand and maintain public boating, fishing, open space, habitat and heritage assets.

I. Proposed Land Uses

Buffalo’s Comprehensive Plan was adopted by the Buffalo Common Council in 2006. The Plan set the agenda for the city’s future by outlining five fundamental principles: fix the basics; build on assets; implement smart growth; embrace sustainability and invest strategically. The LWRP and the Buffalo Harbor, Buffalo River Corridor, South Buffalo and Tonawanda Street Corridor BOA’s generated a detailed inventory of the City’s waterfront resources. The LWRP’s policies utilize the inventory to tailor State coastal policies to reflect local conditions.

Based upon these guiding documents, the City of Buffalo Land Use Map and UDO:

- Include a Waterfront Corridor Overlay Zone that shares that same boundary as the WRA and requires minimum waterfront setbacks, restricts certain uses that may be inappropriate along the waterfront, and includes a special review area for proposed development within the Outer Harbor,

¹ Mayor’s Waterfront Forum Summary
Protect existing water-dependent industrial uses, such as the General Mills and Archer Daniels Midland (ADM) facilities through industrial zoning provisions and setback exceptions for water dependent uses;

Promotes water-enhanced uses that get added value from their waterfront location including housing, restaurants and cultural amenities through zoning that reflects actual conditions;

Encourages new water-enhanced infill and redevelopment of waterfront vacant land and buildings through mixed use zoning at:

1. Black Rock Harbor;
2. Scajaquada Creek Corridor*;
3. Niagara Street/Upper Rock*;
4. Cotter Point;
5. Erie Street Corridor*;
6. Canalside*;
7. Cobblestone District
8. Ohio Street/Buffalo River Corridor*; and
9. Ford Terminal Complex/Freezer Queen*.

*indicates a Brownfield Opportunity Area Strategic Site.

Supports light industrial redevelopment in the LWRA at Silo City, Lakeside Commerce Park, Riverbend (adjacent South Park), Elk Street and Niagara Street;

Protects publicly held water-dependent and water-enhanced recreation and natural resources through open space zones;

Protects the numerous ecological functions of shoreline buffer areas through required waterfront setbacks and vegetated buffer requirements; and

Minimizes the impacts of non-water dependent or water-enhanced activities such as trucking and junkyard operations, while limiting the introduction of new uses that would be deleterious in a waterfront environment.

Map 2 illustrates the proposed land uses and zoning for the City’s LWRA. Map 3 indicates the City’s priority mixed use, water enhanced development areas.

II. Proposed Water Enhanced Mixed Use Development Areas

Under the City’s Land Use Plan and Unified Development Ordinance, several major waterfront mixed use nodes are proposed. These areas, highlighted on Map 3, offer access to the water, waterfront parks, trails and views; the presence of adequate utilities and shoreline protection structures; location on strategic waterfront transportation routes; waterfront heritage resources; and the potential to elevate adjacent neighborhood property values. These sites are uniquely suited to the development of water-enhanced uses that derive benefit from a waterfront location, but do not require such a location to function, such as a restaurant or residential properties.

Some of these mixed use waterfront areas have seen significant recent and ongoing development, such as at Canalside, the Ohio Street/Buffalo River Corridor, and along Niagara Street. Though other locations haven’t seen as much new development, they hold great potential for a mix of water-enhanced development that can help transform their neighborhoods and contribute to Buffalo’s 21st century waterfront.
MAP 2 - FUTURE LAND USE PLAN / UDO ZONES
MAP 3 - WATER ENHANCED MIXED USE DEVELOPMENT ZONES
The following table summarizes the major development nodes and sites, the acreage at each site and building square footage where available, whether the site build out is complete or would involve infill, building reuse or construction on a vacant lot, site ownership and the UDO place type that will govern its redevelopment.

**TABLE III-A. WATER ENHANCED MIXED USE DEVELOPMENT ZONES**

<table>
<thead>
<tr>
<th>Area</th>
<th>Site</th>
<th>Acres</th>
<th>Estimated Sq Foot</th>
<th>Build Out (Complete/Infill Opportunity/Vacant)</th>
<th>Ownership</th>
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<td>Ownership</td>
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<td>NFTA&lt;sup&gt;5&lt;/sup&gt;</td>
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1. BURA - Buffalo Urban Renewal Agency  
2. BMHA - Buffalo Municipal Housing Agency  
3. ECHDC - Erie Canal Harbor Development Corporation  
4. ECIDA - Erie County Industrial Development Agency  
5. NFTA - Niagara Frontier Transportation Authority  
6. NYPA - New York Power Authority
WATER ENHANCED MIXED USE DEVELOPMENT AREA PROFILES

For each Water Enhanced Mixed Use Development Area, a summary description including images and conceptual renderings are provided on the pages below. These waterfront locations range from areas that have seen significant recent development, but that still have the potential for considerable more progress, to areas that haven’t seen much development, but that hold great promise to become valuable waterfront destinations in the future.

WE1. Black Rock Harbor;
WE2. Scajaquada Creek Corridor*;
WE3. Niagara Street/Upper Rock*;
WE4 Cotter Point;
WE5. Erie Street Corridor*
WE6. Canalside*
WE7. Cobblestone District
WE8. Ohio Street/Buffalo River Corridor*; and
WE9. Ford Terminal Complex/Freezer Queen*.
WE1. Black Rock Harbor

The earlier Horizons Waterfront Action Plan proposed a 45 acre Black Rock Harbor Village concept with mixed-use infill development in the area between Black Rock Canal Park and the US Army Corps of Engineers site in Black Rock. Many of these ideas are still valid today. Proposed public investments include strengthening the neighborhood connections to the water through improvements to Niagara Street, Hertel Avenue, Austin Street, Ontario Street and Hamilton Street (including sidewalks, repaving and landscaping) and sewer and water service to the development sites. Additional support, including brownfield and historic tax credits, may be necessary for the Buffalo Smelting Works. The Black Rock waterfront continues to have strong potential for redevelopment.
WE2. Scajaquada Creek Corridor

This is a Strategic Site within the Tonawanda Street Corridor Brownfield Opportunity Area, located along Scajaquada Creek at the nexus of Buffalo State College, the Niagara River/Black Rock Channel, Black Rock and West Side neighborhoods. The site is also historically significant, having been the location of key War of 1812 events. The proposed redevelopment for the site includes adaptive reuse of abandoned and under utilized industrial lands for a mix of uses, including recreational amenities, office and educational support businesses, and residential uses. The following concept images were prepared in support of the Tonawanda Street Corridor Brownfield Opportunity Area outreach process.
**WE3 Niagara Street/”Upper Rock”**

Several former industrial facilities in the Niagara Street corridor enjoy unparalleled views of the Niagara River, Canada and Lake Erie. It is estimated that over one million square feet of redevelopment space may be available in the corridor’s existing structures. The businesses and community organizations have advocated for the redevelopment of the many vacant and under utilized waterfront structures in this corridor as water/view enhanced.

Create an environment that strengthens existing anchors, such as Rich Products, and provides opportunities for newer community-focused businesses with (1) residential –mixed income office and/or live work spaces (2) restaurants/entertainment venues, capitalizing upon regionally significant views, unique structures, and (3) resident and employee support facilities including car share hub, fitness center, day and/or after school care, pet care, and banking.

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**Niagara Street Waterfront Corridor Concept**

(Artist’s rendering for illustration purposes only)

**Westerly View towards River and Peace Bridge**
WE4. Cotter Point

Several water related organizations are clustered at the foot of Porter Avenue, including the Colonel Ward Pump Station, Buffalo Yacht Club, Navy Station, State University of New York Great Lakes Research Center, Frank Lloyd Wright Fontana Boathouse, West Side Rowing Club and recently restored historic Chief Petty Officer’s Club. This mixed-use node would build upon these assets to support the area’s cultural tourism efforts, environmental education and lakefront recreation.

courtesy of J. Montage
(Artist renderings for illustration purposes only)
**WE5 Erie Street Corridor**

This Buffalo Harbor BOA project involves the realignment of Erie Street to reopen the connection between Main Street and the waterfront. This effort would re-establish the connection of the waterfront from downtown, recreate the historic Ellicott radial street pattern, improve pedestrian access and safety, and provide new urban development sites to help move the City to the waterfront. This project also provides opportunities to transform bridge underpasses from barriers to gateways through the use of lighting artwork, signage and wayfinding.

(Artist’s rendering for illustration purposes only)

**WE6 Canalside**

The Canalside project is situated on a 23-acre site on the Inner Harbor, that includes the former War Memorial Auditorium property, the former Donovan office building property and the Webster Block. This project expands upon and incorporates the success of the Erie Canal Harbor Project as a tourist and recreational attraction and will include additional water-dependent and water enhanced elements. When complete, Canalside will offer a combination of commercial, retail, residential, lodging, entertainment and office components including the following projects:

(Artist’s rendering for illustration purposes only)
The former War Memorial Auditorium property at the north end of the site has been redeveloped as a historically accurate re-creation of a portion of the Erie Canal. Public canals (east and west canals) have been constructed that interpret the original alignment of the Erie Canal and the Commercial Slip. The canals are designed to evoke the character of the historic Canal District and emphasize downtown Buffalo’s connection to the waterfront. New public space has been added north and south of the west canal offering a setting for four seasons of programming, including public ice skating during the winter. Other proposed improvements for this area include a Canalside market for commercial and retail artisans, additional restaurants and cobblestone streets, public art, and a children’s museum.

- The Donovan Building mixed use redevelopment project, known as One Canalside, has been completed and includes hotel accommodations and office space, with first-floor restaurant and retail space.
- The $200 million HarborCenter, the City’s largest ever private development, has been completed on the Webster Block, and houses two hockey rinks, a hotel, restaurant, retail space and parking.
- The City of Buffalo will be moving forward with the development of parcels between Marine Drive and Prime Street.
WE7. Cobblestone

The Cobblestone district is located between Canalside and the Seneca Casino on the north side of the Buffalo River. The area is proposed for redevelopment to build on the current investment activity occurring in this area.

Cobblestone District Concept
(Artist’s rendering for illustration purposes only)

View along Mississippi Street in the Cobblestone District.
WE8 Ohio Street/Buffalo River Corridor

The Ohio Street/Buffalo River Corridor area is located along Ohio Street and the Buffalo River, between the Michigan Avenue and Ohio Street bridges, and is within the Buffalo River Corridor/Buffalo Harbor Brownfield Opportunity Area. There have been several recent proposals that build upon recent investments in reconfiguring Ohio Street as a pedestrian- and bike friendly waterfront connector, as well as Riverfest Park. Recent water-enhanced mixed-use proposals include residential, entertainment, and tourism-related projects, and include the following:

I. Freight House Landing
Located immediately south of the NYS DEC Public Access Fishing Site on Ohio Street, adjacent the Bison City Rod and Gun Club, the Freight House Landing project includes deco instruction and salvage of the condemned timber frame Historic Erie Freight House. Erection of a 5-story new-build mixed use project featuring office space and up to 78 market rate apartments is underway. The project will include a new 25 foot setback from the Buffalo River’s edge and water access to promote river use and recreation.
2. Riverworks

The Riverworks project is a multi-phased redevelopment of a former industrial site. The site was most recently the home of Ontario Specialties Contracting. It contains the remains of a demolished concrete grain silo, an intact grain silo known as the GLF and several single story high bay warehouses. The project is a combination of adaptive reuse and new construction as a multi-purpose, year round, waterfront entertainment venue. The various facilities on the eight-acre parcel will be used as an event center, concert venue, brewery, restaurant, sporting complex, banquet facility and retail establishments. The new wharf has docking facilities that will provide utility hookups for local and boaters. On site locker rooms and showers for boaters will be available along with other amenities.

3. Silo City

Silo City is the home to several historic grain elevators, creating a unique industrial landscape. The site is proposed for a mixture of light industrial, office, commercial and residential uses. This project, Silo City – Phase I Improvements will add a public access dock, allowing for access from the Buffalo River; electrical service for lighting and safety, and security measures and restroom facilities.
WE9. Ford Terminal Complex/ Freezer Queen

Several large, vacant industrial structures are located immediately north of Buffalo Harbor State Park on the Outer Harbor. The Ford Terminal Complex and the former Freezer Queen manufacturing facility offer unique opportunities for water enhanced mixed use development. The Freezer Queen site is currently being developed as a water-enhanced mixed use building.

Aerial view of the former Ford Terminal Complex and Freezer Queen sites
III. Proposed Water Uses

Reflecting changes in the larger Buffalo economy, industrial waterborne shipping within the Buffalo LWRA has declined dramatically since its peak prior to the opening of the Welland Canal and St. Lawrence Seaway in 1959. Simultaneously, improved water quality and public launch sites, including adaptive launch facilities, have created opportunities for an expanding array of water-based recreation, including paddle boarding, kayaking/canoeing, rowing, windsurfing, sailing, personal watercraft, chartered excursion boats and power boats. A full list of public and private launch, marina and mooring facilities is provided in the Inventory Section III D.

Industrial waterborne transport activities are expected to continue in the Black Rock Channel, City Ship Canal, from the mouth of the Buffalo River to the Blue Tower Turning Basin, in the Buffalo Harbor channel, from the Ford Terminal Complex harbor to the Confined Disposal Facility and Holcim properties at the City’s southern border.

Commercial and recreational boating is expected to continue throughout the LWRA, constrained by existing bridge clearance and/or environmental conditions as follows:

- Vessels with high masts typically do not travel up the Buffalo River past the Michigan Avenue lift bridge due to the delay associated with lift bridge operations;
- Sailboats do not typically travel on the Niagara River, instead using the Black Rock Channel, due to the swift current;
- Only kayaks and canoes travel up the Scajaquada Creek due to low bridge clearances and the need to portage the finger dam; and
- Only kayaks and canoes travel up the Buffalo River past Bailey Avenue and Cazenovia Creek due to low water levels.

Navigational rights-of-way are well established and educational materials are available through the NYS Office of Parks, Recreation and Historic Preservation and/or the US Coast Guard. Navigation security and emergency response is performed by the US Coast Guard, US Department of Homeland Security, Erie County Sheriff’s Office and the City of Buffalo Police Department Underwater Recovery Team as described in the Inventory Section III E.

No swimming beach facilities currently exist in the City of Buffalo. Open water swimming activities are conducted at the risk of the swimmer.

Both sport and subsistence fishing activities are expected to continue throughout the LWRA. The long term development of a sustainable commercial fishery is supported.

IV. Proposed Projects

The City’s short term waterfront revitalization strategy aims to induce private investment in the redevelopment areas stipulated in the UDO. This redevelopment will generate waterfront vibrancy in the form of retail and hospitality services as well as long term tax base and revenue, needed to fully achieve the Niagara River Greenway vision.

The following short term public projects have been identified to help encourage private investment in the City’s waterfront redevelopment areas. The locations of most of these projects have been depicted in Map 6, Action Strategy Projects, except for projects that do not have a specific location. More detailed project description information including sponsor, location, graphic, budget and funding information are provided on individual project profile sheets that follow.

Transportation Projects

T1. Finalize the Scajaquada Corridor feasibility project;
T2. Complete the Niagara Street/Great Lakes Seaway Trail National Scenic Byway Reconstruction Project from Niagara Square to Ontario Street, including complete street and transit facilities, high quality landscaping, street furniture and heritage interpretation facilities;
T3. Improve the Virginia/Carolina I-190 interchange at Niagara Street as a City waterfront gateway;
T4. Implement the Erie Street Extension project from Main Street to Lakeside Boulevard;
T5. Implement the Cars on Main Project from Terrace to South Park; and

T6. Design and implement the Perry Street/Cobblestone Connection, consistent with the Ohio and Niagara Street efforts.

Public Space/Amenity Projects

A1. Implement the Black Rock Canal Park Improvements;

A2. Complete heritage interpretive elements of Broderick Park improvements;

A3. Implement the LaSalle Park/Black Rock Canal shoreline stabilization project;

A4. Coordinate public investments in the Erie Basin Marina, Buffalo Harbor State Park, and NYPA First Buffalo Marina docks and boating service facilities to maximize benefit to the boating community;

A5. Implement the financially sustainable elements of the Grain Elevator and Waterfront Bridge lighting project; and

A6. Develop a master plan for the City’s parks, open spaces, trails and greenways.

A7. Study and recommend updates to the City’s flood management program.

Public Facility Rehabilitation

PF1. Relocate or screen the City’s auto impound to reduce visual blight;

PF2. Repurpose the Cotter Point former army storage building;

PF3. Explore opportunities to utilize the Colonel Ward Pumping Station historic structure for public access and waterfront revitalization activities;

PF4. Phase development of public parcels in Canalside and Erie Basin Marina

PF5. Reactivate the DL&W Station;

PF6. Reactivate the Ford Terminal Complex on the Outer Harbor; and

PF7. Study opportunities for reuse and heritage interpretation of the Cargill Pool and Concrete Central grain elevators.

Private Investment Support

- Provide brownfields cleanup and asbestos remediation support, as well as façade and landscape improvement incentives for the mixed use and industrial redevelopment areas;
- Support Historic Preservation Tax Credits and energy efficiency funding for private reuse of iconic historic waterfront structures; and
- Explore opportunities to further incentivize water dependent business activities (such as tax exemptions for fishing and boating equipment sales) within the LWRA.

While the primary focus of the LWRA revitalization efforts will center on inducing private investment, several other major public initiatives and projects are integral to the long term health of the City’s waterfront revitalization area including:

- Implementation of the Buffalo Sewer Combined Sewer Overflow Long Term Control Plan green and grey infrastructure projects;
- Implementation of the Buffalo and Niagara River Remedial Action Plans including, but not limited to, numerous habitat protection and restoration projects and remediation of contaminated sediments in Scajaquada Creek;
- Restoration of the historic Buffalo Olmsted Park system elements located within the LWRA; and
- Updating the City’s parks, recreation and greenway plans, including the Buffalo River Greenway and Riverwalk Revitalization projects.
CITY OF BUFFALO
LOCAL WATERFRONT REVITALIZATION PROGRAM
Transportation Plan

LEGEND
- LWRA Boundary
- Neighborhood Connection
- Pedestrian Bridge
- Scajaquada Corridor
- Tifft Street Arterial
- Rail Yard
- Trails
  - Shoreline Trail
  - Great Lakes National Scenic Byway

TRANSPORTATION PROJECT:
Niagara Street

TRANSPORTATION PROJECT:
Virginia/Carolina Interchange

TRANSPORTATION PROJECT:
Erie Street

TRANSPORTATION PROJECT:
Cars Sharing Main

TRANSPORTATION PROJECT:
Cobblestone Connector

POSSIBLE LONG TERM INTERSTATE 190 ROW

Lake Erie

Niagara River

INTERNATIONAL RAILROAD BRIDGE

INTERNATIONAL RAILROAD BRIDGE

INNER HARBOR

INNER HARBOR

MARINA

CANADA

CITY OF BUFFALO
LOCAL WATERFRONT REVITALIZATION PROGRAM
Transportation Plan

MAP 5 - TRANSPORTATION PLAN
TRANSPORTATION PROJECTS
T1. Scajaquada Corridor Project

PROJECT SPONSOR: New York State Department of Transportation

PROJECT LOCATION: NYS 198 Expressway, from Parkside Avenue to Grant Street

PROJECT DESCRIPTION: The purpose of this project is to study a range of alternatives for the conversion of the NYS Route 198 Scajaquada Expressway into a principal urban arterial (non-expressway) and landscaped boulevard.

In January 2018 the NYSDOT decided to rescind work on the Environmental Impact Statement and not move forward with their most recent proposed plan, due to not being able to achieve a consensus. The NYSDOT indicated that they will reengage stakeholders in the future. The NYSDOT plan included a variety of modifications to the expressway including at-grade intersections, enhanced pedestrian and bicyclist accommodations, improved aesthetics, and decorative lighting to reduce operating speeds, improve overall safety, and develop a community gateway.

NYSDOT has implemented a number of measures to improve safety on the Scajaquada Corridor since a tragic accident that took place in 2015. These measures include but are not limited to: reducing the speed limit; adding speed limit and stop signs, radar speed trailers, and new guiderails; and removing acceleration, deceleration and weaving lanes.

The Scajaquada Expressway was constructed in the 1950's through the middle of the historic, Olmsted-designed Delaware Park. Park features on the north side of the expressway, which include the Buffalo Zoological Gardens, Delaware Park Golf Course, Mirror Lake and the Buffalo Historical Museum, are separated from facilities on the south side of the expressway, including the Marcy Casino, Hoyt Lake and the nationally renowned Albright-Knox Art Gallery. Delaware Park, the educational and cultural institutions, and the residences and businesses that surround the Scajaquada corridor also generate numerous pedestrian and bicycle trips within the area. The expressway facility is in contrast with the context of the surrounding culturally-rich community resources, acting as a barrier, dividing the park, and separating the use by pedestrians and bicyclists.

The goal is to achieve greater harmony with the surrounding community character and natural environment, and accommodate motor vehicle, bicycle, and pedestrian transportation. Furthermore, there is a need to address documented transportation deficiencies including:

- geometric features that do not meet current expressway standards;
- traffic congestion that occurs at one or more locations during peak travel periods;
- vehicular operating speeds that exceed the posted limit and design speed;
- higher than expected accident rates, accident severity, and identifiable accident patterns; and
- deteriorating drainage systems that no longer function as designed and release untreated stormwater into Scajaquada Creek.
T2. Niagara Street/Great Lakes Seaway Trail Streetscape Project

PROJECT SPONSOR: City of Buffalo Department of Public Works

PROJECT LOCATION: Niagara Street from Niagara Square to Ontario Street

PROJECT DESCRIPTION: In the north half of the City’s waterfront, Niagara Street (a designated segment of the Great Lakes Seaway Trail National Scenic Byway) serves as the major waterfront transportation corridor connecting several waterfront parks, neighborhood centers and employment areas. The project builds upon investments at LaSalle Park, Hope VI housing, Porter Avenue, Broderick Park, Rich Products, and Underground Railroad and War of 1812 historic recognition efforts.

Currently, Niagara Street is a wide expanse of pavement, with large billboards, minimal right-of-way landscaping, few traffic calming measures and minimal bike and pedestrian facilities. Travel speeds regularly exceed the posted speed limit by 15 miles per hour or more, creating dangerous conditions that have resulted in numerous accidents, including one fatality in 2013.

The City of Buffalo is working with numerous stakeholders and partners to reinvent Niagara Street as one of the City’s principal waterfront corridors. A complete, green street project, the effort will include traffic calming measures, clear bicycle and pedestrian facilities, milling/asphalt overlay, street lighting, traffic signal replacements, improved transit stations, street furniture, landscaping and heritage interpretation, where appropriate. A proposed element of the Buffalo Sewer Authority Phase I Green Infrastructure Plan, this project aims to control stormwater runoff from up to 35 acres of impervious surfaces draining to the Buffalo Sewer Authority combined sewer system. The streetscape project also seeks to encourage redevelopment of the many vacant and underutilized buildings and lots located within the corridor, as described in the Tonawanda Street Corridor BOA project.

The Niagara Street project will complement the 2010 reconstruction of Fuhrmann Boulevard and the 2013 reconstruction of Ohio Street by the City of Buffalo and ECHDC to form a local network of attractive, complete and green streets along the City’s waterfront. Buffalo waterfront travelers can either follow the Route 5 skyway or drive at grade through the Canalside, Cobblestone and grain elevator districts.

PROJECT GRAPHIC:
<table>
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<tr>
<th>Project Component</th>
<th>Lead Agency</th>
<th>Location</th>
<th>Estimate (D/C)</th>
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T3. Niagara St./Virginia/Carolina I-190 Interchange Gateway Project

PROJECT SPONSOR: New York State Department of Transportation

PROJECT LOCATION: I-190 Interstate Niagara Street On/Off Ramp at Virginia St./Carolina St.

PROJECT DESCRIPTION: Reconstruction of the I-190 interchange at Niagara Street, which includes Virginia and Carolina Streets. The original construction of this interchange impacted the historic urban fabric of the neighborhood; due to heavy traffic flow, it continues to impact the area physically and visually. This project involves removal of the on-ramp from Virginia Street to recapture the land for public use; reconfiguration of the intersection of Niagara, Virginia and Carolina Streets, including the possible use of a round-about to guide traffic onto the I-190; installation of safe pedestrian crossings; and construction of new connections between the neighborhood and the waterfront via Virginia and Carolina Streets.

PROJECT GRAPHIC:

Sketch concept alternative

Earlier concept showing grand boulevard connecting Niagara Street to new waterfront parkway and LaSalle Park
T4. Erie Street Waterfront Connection

PROJECT SPONSOR: City of Buffalo Department of Public Works

PROJECT LOCATION: Erie Street, from Main to Lakeside Boulevard

PROJECT DESCRIPTION: This project involves the realignment of Erie Street to reopen the connection between Main Street and the waterfront. This effort would reconnect the waterfront from downtown, recreate the historic Ellicott radial street pattern, improve pedestrian access and safety, and provide new urban development sites to help move the City to the waterfront. This project also provides opportunities to transform bridge underpasses from barriers to gateways through the use of lighting, artwork, signage and wayfinding.

PROJECT GRAPHIC:
T5. Cars on Main Waterfront Connection

PROJECT SPONSOR: City of Buffalo Department of Public Works

PROJECT LOCATION: Main Street from Exchange to Scott

PROJECT DESCRIPTION: Automobile traffic was removed from Main Street in 1982 when the Metro Rail system, including the pedestrian-transit mall freefare zone on Main Street was built. The Metro Rail system opened in 1984 and has been an asset to Downtown and our region. However, the pedestrian transit mall, completed two years later, limited access to Main Street and contributed to diminished occupancy and development, especially for first floor store fronts.

The primary objective of the project is to reopen Main Street to two-way vehicular traffic to stimulate economic development in downtown Buffalo, increase multi-modal access options and transit ridership, and improve the quality of life through higher visibility for retail shops, loading zones for shops and residential areas, and parking availability to allow easier access to buildings on Main Street.

PROJECT GRAPHIC:
PUBLIC SPACE/AMENITY PROJECTS
A1. Black Rock Canal Park Improvements

PROJECT SPONSOR: Erie County Parks

PROJECT LOCATION: Black Rock Canal Park, Ontario and Niagara Street intersection

PROJECT DESCRIPTION: Erie County’s Black Rock Canal Park is 4.25 acres in size. Opportunities to revitalize the park through trail and boat launch/dock improvements, gateway features, improved landscaping and revised parking have been explored in a detailed feasibility study.

The first phase of the project and reconstruction of the park road were completed in 2012. Phase II improvements at the park were completed in Fall 2015 and include a new parking area with landscaping and clearly marked areas for boat parking and handicapped parking; a new railing along the water’s edge that allows an open view of the Niagara River; a new concrete promenade along the water, formed to resemble wood planking and accompanied by grassy areas with trees; a new, lighted flagpole at the park’s K-9 monument; and a new Parks Department maintenance building. Other visually compelling elements added in Phase II include a large “Black Rock” that represents the famous black rock that protruded into the Niagara River near the Peace Bridge before being removed to build the Erie Canal, and an iconic boat sculpture that symbolizes the old canal barges that travelled the Black Rock Canal.

PROJECT GRAPHIC:
A2. Broderick Park Master Plan Implementation

PROJECT SPONSOR: City of Buffalo Department of Public Works

PROJECT LOCATION: Broderick Park, Unity Island at Foot of West Ferry

PROJECT DESCRIPTION: In 2016, the City of Buffalo completed a $2.3 million revitalization of Broderick Park, including new entrance features, a small performance amphitheater for educational performances, a waterfront promenade, new shelters, and revised parking facilities. In addition, the project involved the renovation of the concession facility to serve as an Underground Railroad heritage interpretation center and the installation of heritage interpretive features, particularly the Freedom Walk stations.

PROJECT GRAPHIC:
A3. Broderick and LaSalle Park Shoreline Stabilization

PROJECT SPONSOR: US Army Corps of Engineers
PROJECT LOCATION: Broderick Park/LaSalle Park

PROJECT DESCRIPTION: The US Army Corps of Engineers is preparing three elements of shoreline stabilization and ecological function along the Black Rock Channel/Niagara River:

• The Broderick Park Section 103 project aims to provide shoreline protection to approximately 4,500 feet of shoreline between the Niagara River and the Erie Canal that has been deteriorating due to continued wave action from the Niagara River.

• The LaSalle Park Section 103 project aims to provide storm damage reduction measures and protection to approximately 4,800 feet of shoreline along Lake Erie and the Niagara River that has been deteriorating due to continued wave action from the lake.

• The Broderick Park Section 401 (Great Lakes Remedial Action Plan) project aims to design for habitat restoration, seawall repair, and Emerald Shiner passage to Lake Erie.

Project fact sheets for the Broderick Park and LaSalle Park Section 103 projects are located on the following pages.

PROJECT GRAPHIC:
FACT SHEET
February 2013

BRODERICK PARK, BUFFALO – NY

Hurricane and Storm Damage Reduction
Section 103 of the 1962 Rivers and Harbors Act, as amended
Construction General (Continuing Authorities Program)

Location

• Within the city of Buffalo, Erie County, NY along the Niagara River at the Foot of West Ferry Street

Project Description

• The purpose of the Broderick Park, Buffalo, Erie County, NY project is to provide shoreline protection to approximately 4,500 feet of shoreline between the Niagara River and the Erie Canal that has been deteriorating due to continued wave action from the Niagara River. Broderick Park is a multiple use recreation area that provides access to Bird Island (Nowak) Pier and is home to the city wastewater treatment plant

• First $100k is at 100% Federal expense to determine if federal interest exists

• Feasibility phase is cost-shared 50% Federal and 50% non-Federal

  Design and Implementation is cost-shared 65% Federal and 35% non-Federal

Importance

• Broderick Park includes a portion of the city’s wastewater treatment plant which treats and safely discharges city sewage. Protection will ensure the continued operation of the wastewater treatment plant, its ability to maintain uninterrupted service and safe and sanitary conditions for residents and the environment

Consequence

• If the current shoreline protection fails, the operation of the wastewater treatment plant would be jeopardized and public access to the park and the pier may be curtailed

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Est. Fed. Cost of Phase</th>
<th>Federal Funding through FY12</th>
<th>FY13 Requirement</th>
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(1) First $100k is at 100% Federal expense. Design & Implementation costs have not been estimated and will be highly dependent on the actual plan identified for implementation.

Current Status

• Determination of Federal Interest efforts will continue based upon the availability of additional funding

Project Sponsor/Customer

• The city of Buffalo has shown interest in serving as the non-Federal sponsor by letter dated September 2009

Congressional Interests

• Representative Brian Higgins D-NY-26

• Senator Charles Schumer D-NY

• Senator Kirsten Gillibrand D-NY

Issues

• None
LOCATION

• Within the city of Buffalo, Erie County, NY along the Niagara River

PROJECT DESCRIPTION

• The purpose of the LaSalle Park, Buffalo, Erie County, NY project is to evaluate the feasibility of providing storm damage reduction measures and protection to approximately 4,800 feet of shoreline along Lake Erie and the Niagara River that has been deteriorating due to the continued wave action from the lake

• The product for this study is a Detailed Project Report (DPR), which will address current conditions and review recommendations for potential new solutions

• Feasibility phase is cost-shared 50% Federal and 50% non-Federal

• Design and Implementation is cost-shared 65% Federal and 35% non-Federal

IMPORTANCE

• LaSalle Park houses the Colonel F.G. Ward Pumping Station, a historic landmark, and water filtration plant which supplies water to the residents of the city of Buffalo

• The concrete seawall, stone filled timber crib, and timber pile foundation fronting the pump station and park has deteriorated significantly over the past 50 years requiring measures to protect the city’s water supply, pumping station and filtration plant, park, and access road

CONSEQUENCE

• If the current shoreline protection fails, the operation of the pumping station and filtration plant would be jeopardized and public access to the park may be curtailed

<table>
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<tr>
<th>Project Phase</th>
<th>Est. Fed. Cost of Phase</th>
<th>Federal Funding through FY12</th>
<th>FY13 Requirement</th>
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PROJECT SPONSOR/CUSTOMER

• City of Buffalo

CONGRESSIONAL INTERESTS

• Representative Brian Higgins D-NY-26
• Senator Charles Schumer D-NY
• Senator Kirsten Gillibrand D-NY

CURRENT STATUS

• A Feasibility Cost Share Agreement (FCSA) has been signed with the city of Buffalo
• The Draft Detailed Project Report (DPR) is scheduled to be completed July 2013

ISSUES

• None
A4. Coordinated Public Marina Improvements

PROJECT SPONSOR: City of Buffalo Department of Public Works, New York Power Authority (NYPA), Erie Canal Harbor Development Corporation (ECHDC), and New York Office of Parks, Recreation and Historic Preservation

PROJECT LOCATION: Erie Basin Marina, First Buffalo Marina, Buffalo Harbor State Park

PROJECT DESCRIPTION: Three publicly held marinas now exist within the Buffalo Harbor Brownfield Opportunity Area, including the Erie Basin Marina, NYPA First Buffalo Marina and Buffalo Harbor State Park Marina. This situation presents opportunities to coordinate marina facilities to maximize the benefits of the public marinas on the local boating community, local community and economy. This project would develop a coordinated public marina master plan, capital improvements priority list and explore options for coordinated service delivery.

PROJECT GRAPHIC:
A5. Grain Elevator and Bridge Lighting Project

PROJECT SPONSOR: Erie Canal Harbor Development Corporation (ECHDC)

PROJECT LOCATION: Inner and Outer Harbor Grain Elevators and Bridges

PROJECT DESCRIPTION: ECHDC has approved a phased master plan for lighting installations to activate and illuminate Buffalo’s grain elevators and bridges with lights and video projections. Phase 1 includes lighting the Connecting Terminal, the Ohio Street bridge and the underside of the Skyway, as well as the completion of concept and marketing studies for an approximately 45 minute multimedia show at the Connecting Terminal. The next phase of this project will include final design and implementation for the Michigan Street bridge and the General Mills industrial complex. Future phases set forth a much grander vision to illuminate 14 grain elevators in all – 13 along the Buffalo River, plus the Pool elevator on Lake Erie. The future plans also include the potential to incorporate 3-D video projection, fire, smoke, sound, pyrotechnics and other special effects for the Connecting Terminal, located across from Canalside, along the north edge of the outer harbor.

Preliminary estimates for all four phases of the project are upward of $20 million; Phase 1 has received $5 million in funding from ECHDC. Annual operational costs would range between $700,000 and $1 million. Funding is not currently committed to future phases.

Those elements of the plan that are economically and environmentally sustainable, and offer a positive return on investment should be prioritized.

PROJECT GRAPHIC:
A6. Open Space and Recreation Master Plan

PROJECT SPONSOR: City of Buffalo

PROJECT LOCATION: City of Buffalo parks, recreation facilities, right of way, open space lots, schools, community centers and public housing facilities.

PROJECT DESCRIPTION: Develop a City open space and recreation master plan, including a full property survey, facilities inventory, updated parks and open space master plan, capital improvement (including acquisition recommendations where appropriate) plan, operations and maintenance plan, recreational facilities plan. The plan must be based upon the City’s Green Code, extensive community outreach, and detailed analysis of recreation, environmental and economic development needs and opportunities. The plan development process shall include a review of the Olmsted Parks Master Plan, Niagara River Greenway Plan, Buffalo River Greenway & Dell proposals and any habitat restoration plans for the City, developed in support of the Buffalo or Niagara River Remedial Action Plans.

PROJECT GRAPHIC:
A7. Flood Management

PROJECT SPONSOR: City of Buffalo

PROJECT LOCATION: City of Buffalo

PROJECT DESCRIPTION: Study and recommend updates to the City’s flood management program to reflect best available technical data; and maximize the use of stormwater and risk management best practices to minimize flood risk and costs to the maximum extent practicable. The effort should:

• Actively engage property owners, emergency service and insurance providers, the Federal Emergency Management Agency, US Army Corps of Engineers, National Oceanic and Atmospheric Administration, Erie County and other stakeholders;

• Examine precipitation records, historic high water data, insurance claims, flood gauge records, NOAA proposed local rainfall changes, existing flood and ice management structures, bridge and lock operations, dredging, the City’s stormwater management program, snow melt, high Lake Erie winds, Lake Erie seiche and historic tsunamis to maximize the accuracy of flood data and risk maps for the City of Buffalo to the maximum extent practicable;

• Utilize the FEMA National Flood Insurance Program Community Rating System process to identify opportunities to reduce flood risk and flood insurance premiums; and

• Examine opportunities to integrate the City Charter Flood Management provisions with the Green Code, Coastal Consistency Review and SEQR review process.
PUBLIC FACILITY REHABILITATION AND ACTIVATION
PF1. City Auto Impound

PROJECT SPONSOR: City of Buffalo

PROJECT LOCATION: Terminus of Dart Street, immediately south of the Scajaquada Expressway and west of Grant Street

PROJECT DESCRIPTION: The City’s auto impound is located on a site that is highly visible from the Scajaquada Expressway and local streets. This facility is situated in an area associated with the former War of 1812 Naval Yard on Scajaquada Creek. In the short term, the plan is to screen this facility to improve aesthetics in the area. Long term, the facility would be relocated to a more appropriate area away from the waterfront. This site could be restored for mixed use development or integrated into an expanded Buffalo State College Campus as a part of the vision identified under Brownfield Opportunity Area planning for this area.

PROJECT GRAPHIC:
PF2. Cotter Point Cinder Block Building

PROJECT SPONSOR: SUNY College at Buffalo

PROJECT LOCATION: Cotter Point east of the Great Lakes Center Lab, Foot of Porter Avenue

PROJECT DESCRIPTION: Ownership of this cinder block building, once used for US Army Reserve storage, has been transferred to the State University of New York College at Buffalo. Several proposals exist to renovate the building for use as a boating heritage amenity. The current building’s condition detracts from the high quality architecture of the adjacent Frank Lloyd Wright Fontana Boathouse and recent restoration of the historic Navy Boat House (former CPO Club).

PROJECT GRAPHIC:

Figure 1 Courtesy John Montague

Figure 2 Courtesy John Montague
PF3. Colonel Ward Pumping Station Heritage Tourism Activation

PROJECT SPONSOR: Buffalo Water Authority

PROJECT LOCATION: Foot of Porter Avenue/LaSalle Park

PROJECT DESCRIPTION: The Colonel Ward Pumping Station features high quality architectural and engineering elements, as well as a prime location on the City's waterfront. This project would study the facility to determine what, if any, portions of the facility and site could be opened up to tourism activities in light of ongoing operational and homeland security restrictions, and what types of tourism related economic development activities might be feasible.

PROJECT GRAPHIC:
Figure 1 Courtesy John Montague

Figure 2 Courtesy John Montague
PF4. City Parcels at Canalside

PROJECT SPONSOR: City of Buffalo

PROJECT LOCATION: West of Main Street at Erie Canal Harbor/Canalside

PROJECT DESCRIPTION: The City owns several small designated development parcels west of Main Street. These parcels shall be strategically marketed for development in accordance with approved 2004 settlement provisions and the most recent Canalside Modified General Project Plans (http://www.eriecanalharbor.com/canalside.asp).

PROJECT GRAPHIC:
PF5. Delaware, Lackawanna & Western (DL&W)

Terminal Reactivation

PROJECT SPONSOR:       Niagara Frontier Transportation Authority (NFTA)/Erie Canal Harbor Development Corporation

PROJECT LOCATION:       Foot of Main Street and South Park, Canalside/Cobblestone

PROJECT DESCRIPTION:    NFTA has applied for about $200,000 from the Western New York Regional Economic Development Council to finance a feasibility study for the DL&W terminal. The NFTA has used the first floor of the facility to house its Metro Rail trains since 1984, taking up where the Erie-Lackawanna Railroad—the DL&W’s successor—left off after passenger service ended in 1962. In early 2013, a private developer proposed the terminal’s 80,000 square feet of indoor space along with another 60,000 square feet of outdoor patio provided an ideal venue for a public market similar to train shed developments at Union Station in St. Louis or the Reading Terminal Market in Philadelphia. Such an adaptive reuse of the DL&W terminal would revitalize, and return public access to, this historic property.
PF6. Ford Terminal Complex Reactivation

PROJECT SPONSOR: Niagara Frontier Transportation Authority

PROJECT LOCATION: Fuhrmann Boulevard

PROJECT DESCRIPTION: The Erie Canal Harbor Development Corporation owned Ford Terminal Complex occupies approximately 50 acres of land, including over 655,000 square feet of former office/light manufacturing/warehousing building space. Access to the site from downtown has been improved by Fuhrmann Avenue and Ohio Street streetscape improvements.

The Buffalo Harbor Brownfield Opportunity Area identified strong community support for redevelopment of this site, including the historic former Ford Motor Co. Plant (Port Terminal Building A), as an activity center for the larger Outer Harbor. The site is designated for mixed use redevelopment under the Unified Development Ordinance.

PROJECT GRAPHIC:
PF7. Cargill Superior and Concrete Central Grain Elevator

PROJECT SPONSOR: City of Buffalo

PROJECT LOCATION: Buffalo River

PROJECT DESCRIPTION: The City of Buffalo owns two major vacant grain elevators on the Buffalo River. The Concrete Central Elevator is listed on the National Register of Historic Places, built between 1915 and 1917 at the height of World War I. Due to it being the largest grain elevator in the world and concern over German sabotage, Concrete Central’s method of construction was top secret. The facility was utilized for grain storage until 1966. Concrete Central stretches along the Buffalo River for almost a quarter of a mile and is the largest elevator ever built in the Buffalo area. When in operation, it had the capacity to handle a total of 4.5 million bushels of grain. The elevator allowed crews to load and unload 20 railroad cars an hour and three marine legs along the Buffalo River could load and unload three massive lake freighters at one time.

The Cargill Superior Elevator has been identified by the State Historic Preservation Office as eligible for listing on the National Register of Historic Places. The Cargill Superior was designed and built by local architect A. E. Baxter in 1914 with section “A” and section “B” added in 1919. A final section, “C”, was added in 1925.

Both structures remain vacant and abandoned. This project would examine the necessary actions to stabilize the sites, as well as opportunities for short term heritage interpretation and long-term adaptive reuse.

PROJECT GRAPHIC:
SECTION IV - LOCAL IMPLEMENTATION

A. Local Laws Necessary to Implement the LWRP

In addition to approving the LWRP itself, the Buffalo Common Council has approved the following actions necessary to implement the LWRP:

- A Citywide Land Use Plan, consistent with the LWRP land use plan;
- Four Brownfield Opportunity Area (BOA) Plans;
- A Unified Development Ordinance (UDO) that:
  - Comprehensively updates the city’s zoning ordinance including permitted land uses within the LWRA;
  - Establishes a Waterfront Corridor overlay zone that is consistent with the LWRA boundaries and that includes provisions for waterfront setbacks, vegetated buffer requirements, and facade treatments; and
  - Requires site plan and consistency review for projects within the LWRA;
- A local waterfront consistency review law (see Appendix B, Local Consistency Law) to ensure private development activities in the LWRA and local government actions are consistent with the Buffalo LWRP; and
- Termination of urban renewal plans as specified within the LWRA to eliminate any conflicts with the Unified Development Ordinance, maximize clarity, consistency and efficiency.

In December 2016, the Buffalo Common Council adopted the Citywide Land Use Plan, four BOA Plans, and UDO, and also repealed the Urban Renewal Plans within the WRA and throughout the city. In 2018, the Buffalo Common Council adopted the LWRP and local waterfront consistency review law (see Appendix B).

B. Project Development

I. As described in Section III, Action Strategy, the City of Buffalo and its local partners will spearhead the following LWRP Action Strategy project efforts:

Transportation

- Niagara Street Reconstruction (City)
- Cars Sharing Main Street - Exchange to Scott Street (City)
- Erie Street connection between Lakeshore Boulevard and Main Street (City)
- Perry Street/Cobblestone Connector (City)

Public Space Amenity Project

- Implement the Black Rock Canal Park Improvements (Erie County);
- Broderick Park Heritage Interpretation (City)
- City of Buffalo Open Space and Recreation Master Plan (City)

Public Facility Activation

- Buffalo Auto Impound Relocation (City)
- Colonel Ward Pumping Station (City)
- City Parcels at Canalside (City)
- Cargill Superior and Concrete Central Grain Elevator (City)

In addition,

- The City will coordinate public improvements at the Erie Basin Marina, Buffalo Harbor State Park, and New York Power Authority/Buffalo First Marina.
- The City will prepare a state of flood management action plan.
- The City will serve as the local project sponsor for the LaSalle and Broderick Park Army Corps of Engineers shoreline stabilization and environmental dredging projects;
- The Buffalo Sewer Authority will implement its long term control plan for combined sewer overflow abatement; and

22 The Buffalo Green Code is a multi-component initiative that includes the LWRP, Citywide Land Use Plan, Brownfield Opportunity Area plans, and Unified Development Ordinance. Green Code documents can be reviewed online at https://www.buffalony.gov/308/Office-of-Strategic-Planning.
The Buffalo Sewer Authority and City of Buffalo will continue their participation in the WNY Stormwater Coalition and the Buffalo and Niagara River Remedial Action Plan efforts.

2. Erie County will continue to:

- Operate, maintain and improve the following County recreation sites within the LWRA: Black Rock Canal Park, Tow Path Park, Red Jacket Park, Bailey Peninsula, and Seneca Bluffs Park;
- Operate, maintain and improve the Buffalo Botanical Gardens and Frank Lloyd Wright Fontana Boathouse Facilities;
- Provide coordination and support services to the WNY Stormwater Coalition; and
- Support the use of the Confined Disposal Facility on County land at the City’s southern border, as necessary, for the disposal of dredged material from the Buffalo River, Scajaquada Creek and South Park Lake.

C. Land Ownership and Conservation

The City of Buffalo and its local partner agencies (Buffalo Urban Renewal Agency and Buffalo Municipal Housing Authority) own substantial lands within the LWRA, including parks, schools, housing, streets and their rights-of-ways, paper streets, water and sewer facilities, development parcels, vacant open space and Buffalo River underwater lands. The City and its local partner agencies will continue to hold several developed parcels as per long term lease agreements. In addition, the City anticipates mixed use development of additional City owned parcels at Erie Basin, Canalside, Cobblestone, Riverbend and Lakeside Commerce Park. The City will explore opportunities to transition the Buffalo Auto Impound into more amenable uses. The City will also explore opportunities for the productive reuse of the City-owned grain elevators.

The City and its local partner agencies will continue to own, operate and maintain City parks, water, sewer, school and public housing facilities within the LWRA.

The remaining City owned vacant public lands will be analyzed through the proposed Parks, Recreation and Open Space master planning process.

D. Operations and Maintenance

1. Funding

As discussed in the LWRP Action Strategy, capital and operational funding constraints remain the primary impediment to new investments in waterfront cultural and recreational amenities.

The activation of City-owned development parcels and other publicly held waterfront structures aims to create new activity centers within targeted redevelopment areas and generate much needed revenue.

Ultimately, a long term funding source is needed to support the City’s waterfront system. As per the Action Strategy, the City will investigate opportunities, such as tax increment financing, payments in lieu of taxes and/or special tax assessment districts like Buffalo Place, to help support improvements within the LWRA.

2. Collaboration

The City of Buffalo owns the vast majority of publicly held waterfront resources in the LWRA (see Map 9, Public Parcels). The location of County, State and nonprofit facilities and partners within the LWRA create opportunities for facility operation and maintenance collaboration. In conjunction with the proposed parks, recreation and open space master plan process, these opportunities will be explored. Where public costs can be reduced or benefits increased for the same price, formalized collaboration may be recommended.

E. Local Capital Funding

Local funding for capital improvements may be available from three sources, as follows:

1. City of Buffalo Capital Funding

Since 2006, the City of Buffalo has invested over $15.3 million of City bond funding on street, bridge and marina and park improvements within the LWRA, as shown in Table IV-A below.
## TABLE IV-A. CITY OF BUFFALO CAPITAL FUNDED PROJECTS

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tifft St. Greenway, multi use path at Tifft and Fuhrmann</td>
<td>$320,000</td>
</tr>
<tr>
<td>Erie Canal Harbor Streets Phase 1, Commercial, Marine Dr. to river</td>
<td>$72,000</td>
</tr>
<tr>
<td>South Park Lift Bridge</td>
<td>$500,000</td>
</tr>
<tr>
<td>Scajaquada Pathway Phase 3</td>
<td>$390,000</td>
</tr>
<tr>
<td>South Park Ave Streetscape</td>
<td>$130,000</td>
</tr>
<tr>
<td>Porter Ave. Phase I, Foot of Porter - Niagara, Streetscape</td>
<td>$115,000</td>
</tr>
<tr>
<td>Seneca St., Hayden to City Line, Streetscape</td>
<td>$50,000</td>
</tr>
<tr>
<td>Fargo Ave Streetscape, Porter - Connecticut</td>
<td>$65,000</td>
</tr>
<tr>
<td>Erie Basin Marina Boardwalk</td>
<td>$200,000</td>
</tr>
<tr>
<td>Erie Basin Marina Upgrades</td>
<td>$1,700,000</td>
</tr>
<tr>
<td>West Ferry Bridge Rehabilitation</td>
<td>$450,000</td>
</tr>
<tr>
<td>Niagara St. Gateway, Carolina/Virginia - Niagara Sq., Streetscape</td>
<td>$480,000</td>
</tr>
<tr>
<td>Niagara St. Gateway, Elmwood - Virginia, Streetscape</td>
<td>$480,000</td>
</tr>
<tr>
<td>Cazenovia Golf Course Improvements</td>
<td>$344,152</td>
</tr>
<tr>
<td>Cazenovia Casino Improvements</td>
<td>$360,000</td>
</tr>
<tr>
<td>South Park Ring Road $350,000.00 bond funds</td>
<td>$350,000</td>
</tr>
<tr>
<td>Delaware Park - Hoyt Lake Wells</td>
<td>$448,000</td>
</tr>
<tr>
<td>Delaware Park - Parkside Lodge Windows</td>
<td>$150,000</td>
</tr>
<tr>
<td>Delaware Park - Japanese Garden Improvements</td>
<td>$14,549</td>
</tr>
<tr>
<td>Delaware Park Marcy Casino Improvements</td>
<td>$650,000</td>
</tr>
<tr>
<td>Delaware park Ring Road and Pathways</td>
<td>$330,000</td>
</tr>
<tr>
<td>Riverside Park Tennis and Football Field</td>
<td>$136,000</td>
</tr>
<tr>
<td>Riverside Park Field Improvements</td>
<td>$52,000</td>
</tr>
<tr>
<td>Scajaquada Trail Construction</td>
<td>$9,801</td>
</tr>
<tr>
<td>Centennial Pool Reconstruction</td>
<td>$4,000,000</td>
</tr>
<tr>
<td>Centennial Pool Splashpad Reconstruction</td>
<td>$380,000</td>
</tr>
<tr>
<td>LaSalle Park Dog Run Improvements</td>
<td>$19,650</td>
</tr>
<tr>
<td>LaSalle Park Gateway &amp; DAR Drive</td>
<td>$1,366,000</td>
</tr>
<tr>
<td>LaSalle Park Shelter House Improvements</td>
<td>$31,000</td>
</tr>
<tr>
<td>LaSalle Skate Plaza</td>
<td>$250,000</td>
</tr>
<tr>
<td>Broderick Park Reconstruction Ph I</td>
<td>$1,500,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$15,343,152</strong></td>
</tr>
</tbody>
</table>

City bond funds are often used as the local match component for State and Federal grant programs, helping to bring substantial resources to the City. The Mayor develops the proposed capital budget based upon staff recommendations and input from the Citizens Planning Council. Mandated by the City Charter to be submitted by the Mayor on or before November 1, the Common Council has until December 15 to adopt the recommended capital budget.

2. Erie County Funding  
   The Buffalo waterfront is a regional resource, enjoyed by many Erie County residents. As such, Erie County has periodically invested in strategic waterfront projects.

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24 The Citizens Planning Council is a board established by the City Charter to review and make recommendations regarding the City’s capital budget program.
3. Niagara River Greenway Funds
   
   In 2007, in conjunction with the Federal Energy Regulatory Commission relicensing of the Niagara River Hydropower Project, the New York Power Authority created four Niagara River Greenway Funds, collectively providing $9 million per year for fifty years to implement projects deemed consistent with the Niagara River Greenway Plan. The funds include:

   - Host Communities Greenway Fund ($3 million per year – only in Niagara County);
   - New York State Parks Greenway Fund ($3 million per year – only in State Parks);
   - Buffalo and Erie County Greenway Fund ($2 million per year); and
   - Ecological Greenway Fund ($1 million per year).

   Funding through the State Parks Greenway Fund is restricted to projects located within a State Park within the Niagara River Greenway boundaries. These funds may be utilized for new capital investments associated with the Buffalo Harbor State Park on the City’s Outer Harbor.

   The Buffalo and Erie County Greenway Funds may be used within the Niagara River Greenway boundaries in Erie County. The funds are considered local funding source for State and Federal grant purposes. Funding applications are solicited once per year and are reviewed by a committee comprised of the City of Buffalo, Erie County, Olmsted Parks Conservancy and the New York Power Authority representatives. Since the Fund began in 2007, the following projects have been funded within the LWRA.
### TABLE IV-B. NIAGARA GREENWAY FUNDED PROJECTS

<table>
<thead>
<tr>
<th>Buffalo &amp; Erie County Greenway Fund (Since 2007)</th>
<th>Buffalo LWRA</th>
<th>Amount Funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fisherman's Landing</td>
<td>--</td>
<td>$400,482</td>
</tr>
<tr>
<td>Shoreline Trail Signage</td>
<td>$180,000</td>
<td>$180,000</td>
</tr>
<tr>
<td>Scajaquada Creekside Trail</td>
<td>$1,210,467</td>
<td>$1,210,467</td>
</tr>
<tr>
<td>LaSalle Park</td>
<td>$654,830</td>
<td>$654,830</td>
</tr>
<tr>
<td>Park Pavilion</td>
<td>$866,970</td>
<td>$866,970</td>
</tr>
<tr>
<td>Minnow Pools at Riverside Park</td>
<td>$305,000</td>
<td>$305,000</td>
</tr>
<tr>
<td>Union Ship Canal</td>
<td>$385,000</td>
<td>$385,000</td>
</tr>
<tr>
<td>Riverside Park Concourse</td>
<td>$56,175</td>
<td>$56,175</td>
</tr>
<tr>
<td>Land Acquisition Study</td>
<td>$100,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>LaSalle Park Phase 2/Porter Avenue</td>
<td>$993,506</td>
<td>$993,506</td>
</tr>
<tr>
<td>Riverfest Park</td>
<td>$410,000</td>
<td>$410,000</td>
</tr>
<tr>
<td>Nature Preserve Sustainability Center Expansion</td>
<td>$225,000</td>
<td>$225,000</td>
</tr>
<tr>
<td>Buffalo Museum of Science</td>
<td>$275,000</td>
<td>$275,000</td>
</tr>
<tr>
<td>Tifft Street Pier</td>
<td>$470,000</td>
<td>$470,000</td>
</tr>
<tr>
<td>Fenian Invasion Marker</td>
<td>--</td>
<td>$21,108</td>
</tr>
<tr>
<td>Adaptive Paddle Sports Launch System</td>
<td>--</td>
<td>$75,325</td>
</tr>
<tr>
<td>Black Rock Heritage Trail War of 1812 Project</td>
<td>$105,000</td>
<td>$105,000</td>
</tr>
<tr>
<td>Black Rock Canal Park Improvements</td>
<td>$900,000</td>
<td>$900,000</td>
</tr>
<tr>
<td>River Fest Park Phase II</td>
<td>$250,000</td>
<td>$250,000</td>
</tr>
<tr>
<td>Fireboat Cotter</td>
<td>$60,000</td>
<td>$60,000</td>
</tr>
<tr>
<td>Bird Island Pier Project</td>
<td>$750,000</td>
<td>$750,000</td>
</tr>
<tr>
<td>War of 1812 Bicentennial Signage</td>
<td>$15,000</td>
<td>$15,000</td>
</tr>
<tr>
<td>Tonawanda Shoreline Stabilization Proposal</td>
<td>--</td>
<td>$250,000</td>
</tr>
<tr>
<td>Riverrock Gardens</td>
<td>--</td>
<td>$220,350</td>
</tr>
<tr>
<td>Front Park</td>
<td>--</td>
<td>$435,000</td>
</tr>
<tr>
<td>Riverfest Park</td>
<td>--</td>
<td>$104,000</td>
</tr>
<tr>
<td>Scenic Woods Bicentennial</td>
<td>--</td>
<td>$164,371</td>
</tr>
<tr>
<td>1812 Bicentennial Commemoration</td>
<td>--</td>
<td>$128,000</td>
</tr>
<tr>
<td>BOPC - Front Park Gateway</td>
<td>$433,650</td>
<td>$433,650</td>
</tr>
<tr>
<td>City of Buffalo - Bird Island Pier</td>
<td>$750,000</td>
<td>$750,000</td>
</tr>
<tr>
<td>Cazenovia Community Boating Center, P1</td>
<td>$187,800</td>
<td>$187,800</td>
</tr>
<tr>
<td>Science Museum - Education Center, Phase 1</td>
<td>$150,000</td>
<td>$150,000</td>
</tr>
<tr>
<td>BOPC - Crowley Shelter</td>
<td>$729,000</td>
<td>$729,000</td>
</tr>
<tr>
<td>Buffalo Niagara Riverkeeper (now known as the Buffalo Niagara Waterkeeper)</td>
<td>$470,305</td>
<td>$470,305</td>
</tr>
<tr>
<td>Buffalo Scholastic Rowing Association</td>
<td>$100,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>Cazenovia Community Boating Center, P2</td>
<td>$157,365</td>
<td>$157,365</td>
</tr>
<tr>
<td>Niagara 1812 Bicentennial Legacy Council - Commemoration</td>
<td>$35,000</td>
<td>$35,000</td>
</tr>
<tr>
<td>Science Museum - Education Center, Phase 1</td>
<td>$112,500</td>
<td>$112,500</td>
</tr>
<tr>
<td>Buffalo Niagara Riverkeeper (now known as the Buffalo Niagara Waterkeeper)</td>
<td>$131,682</td>
<td>$131,682</td>
</tr>
<tr>
<td>Science Museum - Education Center, Phase 1</td>
<td>$112,500</td>
<td>$112,500</td>
</tr>
<tr>
<td><strong>Committee Total</strong></td>
<td><strong>$11,581,750</strong></td>
<td><strong>$13,380,386</strong></td>
</tr>
</tbody>
</table>
The fund will continue to receive $2 million per year through 2057. As of 2013, this translates into 44 more years of funding remaining or $88 million. At least two opportunities exist to improve the fund’s impact. First, the Buffalo and Erie County Greenway Fund Standing Committee may identify key funding priorities to help advance large scale implementation of greenway projects in Erie County. Second, the committee may explore options for obtaining some or all of the funding earlier than at the $2 million per year rate. Any changes would need to be approved by the Buffalo Erie County Standing Committee.

The Ecological Greenway Fund may also be utilized for projects within the LWRA. Since the fund began in 2007, seventy percent of the Ecological Standing Committee funding has been awarded to projects either located within the Buffalo LWRA or Niagara River ecosystem research as indicated below:

<table>
<thead>
<tr>
<th><strong>Greenway Ecological Fund (Since 2007)</strong></th>
<th><strong>Buffalo LWRA</strong></th>
<th><strong>Amount Funded</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Niagara River Riparian Restoration Program</td>
<td>$330,985</td>
<td>$330,985</td>
</tr>
<tr>
<td>Muskellunge Esox Masquinony Genetic Structure, Reproductive Ecology and Interaction with the Fish Community</td>
<td>$148,616</td>
<td>$48,616</td>
</tr>
<tr>
<td>Outer Harbor Bell Slip Stabilization Project</td>
<td>$55,000</td>
<td>$55,000</td>
</tr>
<tr>
<td>Tree Regeneration at Tifft Nature Preserve</td>
<td>$300,000</td>
<td>$300,000</td>
</tr>
<tr>
<td>Union Ship Canal Public Open Space</td>
<td>$115,000</td>
<td>$115,000</td>
</tr>
<tr>
<td>Evaluation of Nearshore Fish Assemblages, Habitat and the Effects of Herbivorous Rudd: Determining the Efficacy of Fish Habitat Restoration Efforts in the Buffalo Harbor and Niagara River</td>
<td>$188,881</td>
<td>$188,881</td>
</tr>
<tr>
<td>Niagara River Regional Habitat Restoration Strategy</td>
<td>$137,785</td>
<td>$137,785</td>
</tr>
<tr>
<td>Niagara Riparian Restoration Program Phase I &amp;II</td>
<td>$460,731</td>
<td>$460,731</td>
</tr>
<tr>
<td>Ecological Enhancement and Wetland Restoration on Tuscarora Nation Land</td>
<td>$157,279</td>
<td>$157,279</td>
</tr>
<tr>
<td>Regional Economic Growth through Ecological Restoration of the Niagara Gorge Rim</td>
<td></td>
<td>$115,000</td>
</tr>
<tr>
<td>Enhancement of Bird Habitat, Environmental Education and Ecotourism at Joe Davis State Park</td>
<td></td>
<td>$195,550</td>
</tr>
<tr>
<td>Niagara Escapement Legacy Project</td>
<td>$253,338</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$1,736,998</td>
<td>$2,458,166</td>
</tr>
</tbody>
</table>
SECTION V - STATE AND FEDERAL IMPLEMENTATION

It is recognized that a State and federal agency’s ability to undertake these listed actions is subject to a variety of factors and considerations; that the consistency provisions of the approved LWRP may not apply; and, that the consistency requirements cannot be used to require a State or federal agency to undertake an action it could not undertake pursuant to other provisions of law. Reference also should be made to Section II, Section III, and Section V, which discuss local goals, proposed projects, and local implementation techniques, including State and federal assistance needed to implement the approved LWRP.

In addition to the actions listed below, please see Appendix D, which lists the State and Federal programs that should be undertaken in a manner consistent with the LWRP.

A. State Actions Needed

The State of New York is an active partner in the revitalization of the Buffalo LWRA. In addition to the ongoing implementation of the programs outlined above, the following proactive State actions are needed to implement the Policies and Action Strategy. This reflects land ownership conditions, the complexities of international boundary management, the limited financial resources of the local community and the regional significance of the Buffalo waterfront.

1. Empire State Development Corporation

   a. Partner with the City of Buffalo to encourage private investment in the City’s designated priority water enhanced, mixed uses development areas identified in Policy 5A;

   b. Support the City’s major local waterfront investment corridors such as Niagara St. and Ohio St. as per Policy 5B, 5E and 5F;

   c. Develop the City as a high quality international gateway as per Goal 6;

   d. Work with State and Federal landowners at Cotter Point to activate the former army storage building and maximize recreation, tourism and economic development opportunities at the site as per the Action Strategy;

   e. Partner with the City of Buffalo to facilitate the redevelopment of the City’s Auto Impound Property as per the Action Strategy;

   f. Support historic preservation tax credits, brownfield clean up and energy efficiency funding for reuse of iconic waterfront structures;

   g. Explore opportunities to incentivize Buffalo’s blue economy including water based businesses and enterprise activities within the LWRA; and

   h. Support City of Buffalo efforts to create a long term revenue stream to support water dependent and enhanced public amenities in the LWRA.

2. Erie Canal Harbor Development Corporation

   a. Support the City of Buffalo’s phased development of the City’s Canalside parcels as per Policy 5A;

   b. Partner with the City of Buffalo and local stakeholders to design and implement the Cars on Main Street project from Terrace to South Park and Erie Street design improvements as per Policy 5E;

   c. Implement those elements of the Grain Elevator and Waterfront Bridge lighting proposal that are economically and environmentally sustainable and offer a positive return on investment as per the Action Strategy;

   d. Preserve access to the publicly owned waterfront on the Outer Harbor as per Policy 8A; and

   e. Reactivate the Ford Terminal Complex on the Outer Harbor, including public access as per Policy 8A.

3. Department of Environmental Conservation

   a. Monitor the Buffalo Sewer Authority (BSA) implementation of BSA’s Long Term Combined Sewer Overflow Control Plan comprised of both green and grey infrastructure solutions in support of Policies 2A and 2B;
b. Ensure the local implementation of the Clean Water Act stormwater provisions, as per Policy 2B;

c. Work with the Buffalo Water Authority to implement the Great Lakes Compact water quantity and conservation provisions; as per Policy 2F.

d. Provide funding (as funds are available) and technical and management assistance for the ongoing implementation of the Remedial Action Plans (RAPs) for the Buffalo and Niagara River Great Lakes Areas of Concern, the Lake Erie Lakewide Area Management Plan (LAMP), the Bi-National Niagara River Toxics Management Plan and the State’s Great Lakes Basin Action Agenda;

e. Provide funding (as funds are available) and technical assistance to the Buffalo River Great Lakes Legacy Act Environmental Dredging Project and the strategic removal of contaminated sediments from the Buffalo River;

f. Fund and provide technical assistance for efforts to characterize and address contaminated sediment and/or botulism concerns in Scapaquda Creek/Hoyt Lake/Mirror Lake and South Park Lake;

g. Provide brownfields clean up and asbestos remediation support for mixed use and industrial redevelopment in the LWRA;

h. Protect and enhance fish and wildlife habitat and populations in accordance with Goal 7; Periodically monitor water quality in areas adjacent to the confined disposal areas within the LWRA;

i. Periodically review ongoing compliance arguments with hazardous waste and brownfield clean up, as well as junkyard provisions, within the LWRA as per Goals 10; and

j. Provide funding and technical assistance to local marinas for vessel pump-out stations and wash down facilities to protect near shore water quality and discourage the transport of aquatic invasive species

4. New York State Department of Transportation

a. Provide technical assistance and funding for the following transportation projects outlined in Policy 5F and the Action Strategy:

   - Niagara Street/Great Lakes Seaway Trail National Scenic Byway;
   - Scapaquda Corridor;
   - Virginia/Carolina I-190 Interchange;
   - Erie Street Extension from Main to Lakeside Boulevard;
   - Cars on Main from Terrace to South Park;

b. Work with the City of Buffalo to:

   - Minimize waterfront truck traffic to the maximum extent practicable as per Policy 5E f.
   - Minimize the impact of Route 190 on Niagara Street, waterfront public access and property values; 5E d.
   - Investigate opportunities to repurpose the former Breckenridge Toll Plaza lands in support of the Niagara River Greenway.
   - Calm traffic on Church Street and improve intersections to improve pedestrian accessibility to waterfront in accordance with the Downtown Buffalo Infrastructure and Public Realm Master Plan25.
   - Mitigate the impacts of highway underpasses and on/off ramps to enhance the environment for pedestrians and cyclists through the combination of improved lighting, more generous sidewalks,

dedicated cycling lanes/sharrows, and the inclusion of public art and wayfinding, in accordance with the Downtown Buffalo Infrastructure and Public Realm Master Plan.

5. New York Power Authority
   a. As Per Policy 9L, periodically review the Niagara River ice boom to evaluate the impacts of ice boom operations on water recreation and industry, the Buffalo microclimate and growing season, Lake Erie evapotranspiration rates and water levels, fish and wildlife and their habitats, and Niagara River erosion and sedimentation patterns. Potential adverse impacts should be avoided to the maximum extent practicable and mitigated where avoidance is not possible;
   b. Coordinate with the Buffalo and Erie County Greenway Steering Committee to maximize the impact of the remaining NYPA greenway expenditures;
   c. Coordinate investments in the Erie Basin Marina, Buffalo Harbor State Park, and NYPA First Buffalo Marina docks and boating service facilities to maximize their boating, recreation and economic development benefits; and
   d. Ensure that efforts to develop energy resources in the LWRA, including but not limited to wind and/or hydrokinetic energy, thoroughly examine and document potential adverse impacts to 1) the environment; 2) the Buffalo community's use and enjoyment of local waters for recreation, transportation and economic development.

6. Niagara Frontier Transportation Authority
   a. Finalize implementation of the Niagara Street Revitalization Project;
   b. Actively partner with the City of Buffalo to maximize public transit ridership within the LWRA;
   c. Partner with the City and the ECHDC to activate the DLW Station as a vital component of the Canalside/Cobblestone revitalization; and
   e. Preserve the DLW "Dell" corridor for future passenger rail service and/or greenway open space (see Map 5).

7. NYS Parks, Recreation and Historic Preservation
   a. Coordinate investments in the Erie Basin Marina, Buffalo Harbor State Park, and NYPA First Buffalo Marina docks and boating service facilities to maximize their boating, recreation and economic development benefits;
   b. Provide funding and technical support for the development of a City of Buffalo parks, recreation and open space master plan as per the Action Strategy;
   c. Facilitate, through funding and technical support, cross border interpretation of the War of 1812 and Underground Railroad, as per Policy 5D;
   d. Provide funding and technical support, including Historic Preservation Tax Credits, for the preservation and enhancement of the privately held historic resources in the LWRA as per the LWRP Action Strategy;
   e. Provide funding and technical support for the preservation and enhancement of the publicly held historic resources in the LWRA as per Policy 5C and the LWRP Action Strategy including:
      ▶ Lighting of the City’s waterfront grain elevator and bridges;
      ▶ Activation of the Colonel Ward Pumping Station for heritage interpretation and economic development;
      ▶ Activation of the DL&W Terminal;
      ▶ Activation of the Ford Terminal Complex;
      ▶ Provide security for the City-owned Cargill Superior and Concrete Central grain elevators; and
   f. Provide funding and technical support for the long term restoration of the historic Buffalo Olmsted Park system elements located within the LWRA, as per the LWRP Action Strategy.

8. Department of Health
   a. Protect public health from contaminated fish as per Policy 7J; and
b. Partner with the Buffalo Water Authority to eliminate chemicals of concern in drinking water supply as per Policy 2F.

B. Federal Action Needed

The Federal Government is also an active partner in the revitalization of the Buffalo LWRA, driven in part by the unique conditions associated with the City of Buffalo’s location on Great Lakes and the US-Canadian border. In addition to the ongoing implementation of the programs outlined in Appendix D, the following proactive federal actions have been identified for the implementation of the City of Buffalo LWRP Policies and Action Strategy.

1. Department of Homeland Security: Customs and Border Patrol

a. Work with the City of Buffalo and New York State Department of Transportation to minimize the impact of cross border through-truck traffic within the City of Buffalo LWRA in accordance with Policy 5F.

b. Work with Amtrak, Empire State Development, the City of Buffalo and City of Niagara Falls to improve customs inspections and travel times for passenger train connections from downtown Buffalo through Niagara Falls to Toronto; as per Policy 6E.

c. Work with the City of Buffalo, Erie County and the NYS Department of Motor Vehicles to facilitate and incentivize Buffalo resident enrollment in the Nexus trusted traveler program; as per Policy 6F.

d. In accordance with Goal 6, develop the City as a high quality international Gateway.

2. Department of Homeland Security: Coast Guard

a. Maintain navigational devices in the inner and outer harbor channels;

b. Manage harbor operations to protect ecological resources as per Goal 4;

c. Support cross border recreational boating and fishing with clearly identified cross border marine border check in sites;

d. Work with the NYS Department of Motor Vehicles and NYS Office of Parks, Recreation and Historic Preservation to provide safe boating education courses and materials;

e. Continue to minimize the secured, non-public access footprint of the Coast Guard Station; and

f. Maximize public access to the historic lighthouse and surplus Coast Guard lands.


a. Update the flood mapping for the City of Buffalo utilizing best available data;

b. Work with the City of Buffalo to reduce flood damage risk to established neighborhoods within the revised floodplains; and

c. Support preservation and enhancement of the protective function of the open spaces identified in Policy 9I and the critical protective structures identified in 9J.

4. Environmental Protection Agency

a. Fund and provide technical and management assistance for the ongoing implementation of the Remedial Action Plans (RAPs) for the Buffalo and Niagara River Great Lakes Areas of Concern, the Lake Erie Lakewide Area Management Plan (LAMP), the Bi-National Niagara River Toxics Management Plan and the Great Lakes Restoration Initiative Action Plan;

b. Fund and provide technical assistance to the Buffalo River Great Lakes Legacy Act Environmental Dredging Project and the strategic removal of contaminated sediments from the Buffalo River;

c. Fund and provide technical assistance for efforts to characterize and address contaminated sediment and/
or botulism concerns in Scajaquada Creek/Hoyt Lake/Mirror Lake and South Park Lake;

d. Provide funding and technical assistance for the implementation of the Buffalo Sewer Authority green and grey infrastructure plan for CSO abatement in support of Policies 2A and 2B;

e. Ensure the local implementation of the Clean Water Act stormwater provisions, as per Policies 2B;

f. Provide funding for brownfield assessment and remediation within the LWRA; and

g. Provide funding and technical assistance to local marinas for vessel pump-out stations and wash down facilities to protect near shore water quality and discourage the transport of aquatic invasive species.

5. US Department of the Interior: Fish and Wildlife Service

a. Actively pursue opportunities to relocate some operations of the Lower Lakes Fisheries Office within the LWRA in support of Buffalo and Niagara River Great Lakes Areas of Concern restoration efforts;

b. Provide funding and technical assistance for the development of a Lake Erie/Niagara River native fisheries restoration plan in support of Goal 7;

c. Protect and enhance fish and wildlife habitat and populations in accordance with Goal 7; and

d. Protect and enhance the Niagara River Globally Significant Bird Area as per Policy 7K.

6. US Department of Interior: Niagara National Heritage Area

a. Provide funding and technical support for Niagara National Heritage Area theme resources within the LWRA; and

b. Provide funding and technical support for both local and cross border interpretation of the heritage resources identified in Policies 5D and 6G.

7. Army Corps of Engineers

a. Conduct maintenance dredging of federal navigation channels in accordance with Goals 3, 4, 7 and 10;

b. Fund and provide technical assistance to the Buffalo River Environmental Dredging Project and the strategic removal of contaminated sediments from the Buffalo River;

c. Fund and provide technical assistance for efforts to characterize and address contaminated sediment and/or botulism concerns in Scajaquada Creek/Hoyt Lake/Mirror Lake and South Park Lake;

d. Continue to operate the confined disposal facility at the City’s southern border;

e. Maximize public access to the Black Rock Locks for industrial heritage tourism purposes;

f. Minimize Buffalo District operation disruptions to the Shoreline Trail;

g. Fund and provide technical assistance for shoreline stabilization and habitat enhancement along LaSalle and Broderick Parks;

h. Support preservation and enhancement of the protective function of the open spaces identified in Policy 9I and the critical protective structures identified in Policy 9J;

i. As per Policy 9L, periodically review the Niagara River ice boom to evaluate the impacts of ice boom operations on water recreation and industry, the Buffalo microclimate and growing season, Lake Erie evapotranspiration rates and water levels, fish and wildlife and their habitats, and Niagara River erosion and sedimentation patterns. Potential adverse impacts should be avoided to the maximum extent practicable and mitigated where avoidance is not possible;

j. As per Policy 7C, work with City of Buffalo to determine opportunities for constructed wetlands and wetland mitigation banking within the LWRA.
8. Federal Highway Administration

a. Provide funding and technical support for enhancement of the Great Lakes Seaway Trail National Scenic Byway in Buffalo in support of Policy 5B including:

- The implementation of traffic calming, pedestrian and bicycle facilities and heritage interpretation amenities along Niagara Street; and
- Review and resolution of National Scenic Byway offsite signage compliance within the LWRA;

b. Provide technical assistance and funding for the following transportation projects outlined in Policy 5F and the Action Strategy:

- NYS Route 198
- Virginia/Carolina I-190 Interchange;
- Erie Street extension from Main Street to Lakeside Boulevard; and
- Cars on Main Street from Terrace to South Park.


a. Ensure that efforts to develop energy resources in the LWRA, including but not limited to wind and/or hydrokinetic energy, thoroughly examine and document potential adverse impacts to 1) the environment; 2) the Buffalo community’s use and enjoyment of local waters for recreation, transportation and economic development; and 3) homeland security. Potential adverse impacts should be avoided to the maximum extent practicable and mitigated where avoidance is not possible.

b. As Per Policy 9L, periodically review the Niagara River ice boom to determine the impacts of ice boom operations on water recreation and industry, the Buffalo microclimate and growing season, Lake Erie evapotranspiration rates and water levels, fish and wildlife and their habitats, and Niagara River erosion and sedimentation patterns. Potential adverse impacts should be avoided to the maximum extent practicable and mitigated where avoidance is not possible.

10. Federal Railroad Administration

a. Assist with the implementation of a new Amtrak Rail station, for which a location study determined Downtown Buffalo to be the “preferred” location.
SECTION VI – CONSISTENCY REVIEW

A. Consistency Review of Private Development Activities

Private development that is located in the City of Buffalo’s designated Waterfront Revitalization Area is subject to the City’s Local Waterfront Consistency Law (see Appendix B). Under that law, projects subject to major site plan review, state environmental quality review or other local, state, or federal discretionary review procedures, must be reviewed and assessed for their consistency with the City of Buffalo Local Waterfront Revitalization Program (LWRP). Projects subject to minor site plan approval and/or Type II actions as defined by the New York State Environmental Quality Review Act do not require consistency review except where those actions are located in, or may adversely impact:

1. Coastal Erosion Hazard Area (CEHA)
2. Significant Coastal Fish and Wildlife Habitat, threatened or endangered species of plants or animals and/or the Niagara River Globally Significant Bird Area;
3. 100 year floodplain;
4. State or Federal Wetlands;
5. The Great Lakes Seaway Trail National Scenic Byway;
6. Local, State or Federally designated historic resources;
7. Officially designated parks and open spaces;
8. Water dependent activities including marina operations and water borne transport.

Private development proponents shall prepare and file a completed Buffalo Coastal Assessment Form (BCAF), with the Zoning Administrator (see Appendix C).

B. Consistency Review of Local Government Actions in the LWRA

The proposed City of Buffalo Local Waterfront Consistency law requires that local government actions, except minor actions, be consistent with the City of Buffalo LWRP.

Local government project proponents shall prepare and file a completed Buffalo Coastal Assessment Form (BCAF) and SEQRA Full Environmental Assessment form for coordinated review and recommendation to the Planning Board.

The Planning Board shall review the BCAF submission to determine if the action is consistent with the policies and provisions of the LWRP. The Planning Board shall render its written determination within thirty (30) days following referral of the BCAF, unless extended by mutual agreement of the Planning Board and the applicant. The Planning Board’s determination shall indicate whether the proposed action is consistent with or inconsistent with one or more of the LWRP policy standards and shall elaborate in writing the basis for its opinion. The Planning Board shall, along with a consistency determination, make any suggestions concerning modification of the proposed action, including the imposition of conditions, to make it consistent with LWRP policy standards or to greater advance them.

C. Review of Erie County or State Actions

Consistency with waterfront policies is a key requirement of the coastal management program established in New York State’s Waterfront Revitalization and Coastal Resource Act of 1981. This Act requires that “...actions undertaken by State agencies within the coastal area ... shall be consistent with the coastal area policies of this Article (Section 919(1)).”

For purposes of the Act, “actions” are defined as those activities, directly undertaken by state agencies, that would be defined as Type I or unlisted actions under the State’s Environmental Quality Review Act including funding assistance, land transactions and development projects. The state agency with jurisdiction, acting as lead agency, prepares the Long Form Environmental Assessment and the State’s Coastal Assessment Form, and makes a consistency determination which is filed
with the Department of State. To facilitate consistency review with the Buffalo LWRP coastal policies, state agencies are encouraged to utilize the Buffalo WAF. That determination must be filed with the City of Buffalo for comment.

D. Review of Federal Actions in the Buffalo LWRA

The purpose of the federal Coastal Zone Management Act of 1972 is to encourage and assist the states in preparing and implementing management programs to “preserve, protect, develop, and where possible, to restore or enhance the resources of the nation’s coastal zone.” The Act stipulates that federal actions and federally funded actions within the coastal zone must be, to the maximum extent feasible, consistent with approved state management programs. This provision includes Army Corps of Engineers permits, and use of federal funds for infrastructure improvement and other projects.

The New York State Department of State administers the state’s coastal management program, and is responsible for determining whether federal actions are consistent with the coastal policies.

When a federal agency is undertaking a direct action under 15 CFR (930)(c) or is providing funding to the State or a municipality under 15 CFR (930)(f), the federal agency prepares a written determination of consistency and submits that determination to the New York State Department of State. To facilitate consistency review with the Buffalo LWRA, federal agencies are encouraged to utilize the Buffalo WAF to guide their determination. Pursuant to the State Waterfront Revitalization of Coastal Areas and Inland Waterways Act (Executive Law, Article 42), the New York Department of State then notifies the City of Buffalo and affected State agencies of those agency actions and programs that are to be undertaken in a manner consistent with approved LWRP’s.

When a federal agency is approving a permit or licensing application under 15 CFR (930)(d&f), the private applicant prepares a joint Federal Coastal Assessment Form to the approving federal agency and submits the FCAF with the New York Department of State. To facilitate consistency review with the Buffalo LWRP, federal agencies are encouraged to utilize the Buffalo WAF.

The NYS Department of State has thirty days to determine if the application is complete and 6 months to determine consistency. During its review, the Department of State requests comments from the City of Buffalo regarding the consistency of the project with LWRA policies. This information is considered by the Department of State in completing its consistency review.

E. Consistency Determination Considerations

A proposed action or project is deemed consistent with the LWRA when it will not substantially hinder the achievement of any of the policies and, where practicable, will advance one or more of the policies. In assessing the consistency of proposed actions with LWRA policies, reviewers will be guided by the descriptions, standards and criteria set forth for each policy. Compatibility of the proposed project with its neighboring uses will also be taken into account.

The action must be found consistent with the LWRA before it can be approved. However, a determination of consistency does not itself authorize or require the issuance of any permit, license, certification or other approval of any grant, loan or other funding assistance by the federal, state or local agency having jurisdiction pursuant to other provisions of law.

The LWRA policies set general goals for the city’s waterfront as a whole and specific goals for portions of the waterfront that have notable characteristics. A proposed project is reviewed to determine its consistency with the policies applicable to its specific waterfront location. A policy is considered applicable to a proposed project if its site, surroundings or the action itself involves activities or conditions relevant to that policy.

The program recognizes that the relevance of each applicable policy may vary depending upon the nature of the proposed project and where it is located. The
consistency review reflects these differences in relevance, depending on whether the proposed activity would occur in an area characterized as most appropriate for redevelopment, working waterfront uses, natural resource protection, or public use.

When a policy is not applicable or relevant to the proposed project and its location, the policy would not be considered in the consistency review. Examples of inapplicable policies include ecosystem protection in a fully built-up area devoid of natural features, and coastal erosion protection for a project without coastal frontage.

F. Findings of Inconsistency with LWRP Policies

In cases where a project does not appear consistent with one or more of the relevant policy standards and criteria, consideration is given to any practical means of altering the project to reduce adverse impacts in an effort to ensure its consistency. If a project is not so altered and therefore hinders the policies and intent of the LWRP, it may be found inconsistent by the Planning Board, the state agency with jurisdiction, and/or the Department of State.

When a project is not consistent with one or more of the policies and cannot be modified, the state regulations (NYCRR 600.4(b)) allow the project to be found consistent if the Planning Board or state agency certifies that the project satisfies the following four requirements: (1) No reasonable alternatives exist which would permit the action to be taken in a manner which would not substantially hinder the achievement of such policy; (2) the action taken will minimize all adverse effects on such policies to the maximum extent practicable; (3) the action will advance one or more of the other coastal policies; and (4) the action will result in an overriding regional or statewide public benefit. (This provision of the regulations may be altered by the Department of State in conjunction with proposed legislative changes).

G. Related Regulatory Oversight

The New York State Department of Environmental Conservation (DEC) is responsible for management and protection of natural resources and environmental quality. The DEC regulates activities that may have a negative impact on wetlands and water quality. Activities such as draining, filling or building structures within a wetland or its adjacent buffer area may be undertaken only if DEC has granted a permit. In granting a permit, DEC is empowered to place conditions and restrictions on an activity which can include mitigation measures.

The Army Corps of Engineers (ACOE) is responsible for the protection and management of the nation’s waterways and wetlands. Like the DEC, ACOE is empowered to review and issue permits for activities occurring in navigable waters and in tidal or freshwater wetlands that meet the national designation criteria. These activities include dredging, filling, bulkheading and placement of structures in the water. A central mandate of the ACOE is to maintain navigable channels and the general functioning of the waterways of commerce. In reviewing projects, the ACOE consults with other federal agencies including the U.S. Fish and Wildlife Service, the Coast Guard and the Environmental Protection Agency.

Much of the development occurring in or near Buffalo’s waterways requires permits from the DEC and the ACOE. To receive permits from either agency, a proposed project must be consistent with the state Coastal Zone Management Program and the Buffalo LWRP.
SECTION VII – STAKEHOLDER ENGAGEMENT & CONSULTATION

A. Historic Engagement Activities

The City of Buffalo has been working on the development of a Local Waterfront Revitalization Program for over 20 years. During that time, a wide variety of stakeholders, including government, not-for-profit agencies, waterfront property owners and business and residents have participated in LWRP specific steering committee meetings, focus groups, public meetings and hearings, waterfront conferences and forums. Further, stakeholders have provided input on projects and programs within the LWRA including, but not limited to the:

- Erie Canal Harbor and Canalside;
- Southtowns Connector;
- Scajaquada Expressway Feasibility;
- Niagara Street Gateway;
- Peace Bridge;
- Harbor Bridge;
- Outer Harbor and Greenbelt;
- Buffalo and Niagara River Remedial Action Plans;
- Scajaquada Watershed Management Plan;
- Niagara River Greenway; and
- Buffalo Sewer Authority CSO Long Term Control Plan.

B. Buffalo Development Framework Engagement Efforts

Since 2010, Buffalo LWRA stakeholders have been actively engaged in the Buffalo Development Framework (BDF) process. The culmination of years of planning, the BDF consists of the following “actions:

- A Land Use Plan that accommodates appropriate uses and urban design and reinforces the existing character of the City;
- A Local Waterfront Revitalization Program (LWRP) that will guide development along the City’s coastal areas;
- Disposition of Urban Renewal Plans (URP), to obtain recommendations on the removal, replacement or modification of these plans to better reflect the City’s community and economic development needs;
- South Buffalo, Buffalo River Corridor, Buffalo Harbor, and Tonawanda Street Corridor Brownfield Opportunity Areas (BOA) Phase 2 Nomination Documents including proposed Land Use and Zoning provisions; and
- Unified Development Ordinance (UDO), including new form based zoning provisions, revised subdivision and sign ordinances and street standards.

Building upon the outreach activities associated with the Comprehensive Plan, the BDF employed numerous tools to engage the full community, reaching out to residents, businesses, community organizations, institutional partners and government agencies.

Outreach tools included project Steering Committees, Citizen Advisory Committees, Technical Advisory Committees, large scale community presentations, including the Mayor’s Citizen Waterfront Forums, Green Code Planning Day, neighborhood focused discussions, special interest group meetings, interviews, surveys, design charrettes, scenario planning, mailings, postings, newspaper and local access cable announcements and advertisements, phone calls, and digital media efforts including website, social media sites, crowd sourcing, email notifications/listserv and e-blasts.

For optimal results, outreach activities were held in each affected neighborhood in an effort to hear a range of feedback and address the concerns of those most likely to be affected by the proposed changes. Mayor Brown also hosted special meetings to engage the City’s senior citizens, disabled residents and service providers, as well as the African American and Hispanic communities. Translation services were provided at several public meetings, targeting specific neighborhoods and populations where a need was anticipated. Comments and input were shared among the Green Code, BOA and LWRP teams to maximize responsiveness.
Upon releasing the public draft of the Buffalo Green Code, including the LWRP, a round of public engagement activities was conducted in the Spring and Summer of 2014. During that period, additional community outreach included neighborhood meetings, presentations to waterfront interest groups, as well as online and social media efforts.

In October 2015, the Buffalo Green Code, including the LWRP, was updated and presented to the Buffalo Common Council and released again for public review. Following the receipt of the Green Code, the Common Council, with the assistance of the Mayor’s Office of Strategic Planning, held numerous meetings, including at least one in each Common Council district, in order for the Council to learn about public support for, and concerns about, the Green Code. In total, the Common Council hosted 20 Green Code meetings between November 2015 and February 2016.

C. Formal Public Comment Period

On February 16, 2016, the Common Council accepted the Draft GEIS, allowing for the formal public comment period under the State Environmental Quality Review Act (SEQRA) to begin, which it did on February 22, 2016. The Council received oral comments at two public hearings and 400 written comments, on the BDF and Draft GEIS, during the public review period, which concluded on April 22, 2016.

After the SEQRA public comment period, the Council and OSP reviewed and updated the GEIS and BDF based on the public comments. The proposed Final GEIS was submitted to the Common Council in September 2016. Appended to the Final GEIS was the proposed Unified Development Ordinance, Citywide Land Use Plan, and Brownfield Opportunity Area plans. The LWRP was not included with the documents because the updated LWRP had not been submitted to the Department of State to begin its 60-day review period.

Comments made during the SEQRA comment period regarding the LWRP will be submitted to the Department of State, along with the updated LWRP, prior to the start of the 60-day agency review period. Following the 60-day agency review period, a Supplemental FGEIS will be prepared to address comments submitted regarding the LWRP.

D. Consultation

Throughout the LWRP process, draft documents have been distributed to a number of involved and interested agencies to gather their comments on program findings and recommendations. The agencies that were contacted for their input included the Erie County Department of Environment and Planning, Empire State Development Corporation, Niagara Frontier Transportation Authority, Town of Tonawanda, Town of Cheektowaga, Town of West Seneca, and the City of Lackawanna, which are bordering municipalities.

As part of the 60-day review period described above, the draft LWRP was made available online through the Department of State’s website for review and comment. All comments received on the draft LWRP have been reviewed by the City and State and changes have been incorporated to the program, as required, to reflect the substantive comments.
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I. REGIONAL SETTING AND COMMUNITY CHARACTERISTICS

A. Great Lakes Megaregion/Megalopolis

The Great Lakes contain one-fifth the world’s surface fresh water and have a combined shoreline of 10,210 miles (17,017 km).

The City of Buffalo is located on the eastern shore of the Niagara River between Lake Erie and Lake Ontario.

The America 2050 project has identified eleven Megaregions of the United States, including the Great Lakes Megalopolis. As a separate economy, the Great Lakes are one of the world’s largest economies. The Bi-national Great Lakes Megaregion is estimated to have a 2009 population of 59,781,623. According to America 2050 project, the US Great Lakes Megaregion had a 2010 population of 55,525,296 people, comprising 18% of the United States.

In 2005, the US region had a Gross Domestic Product (GDP) of 2,072,869,000,000, comprising 17% of the US GDP. The US Great Lakes MegaRegion is expected to grow by 28.3 percent between 2010 and 2050.

B. The Golden Horseshoe

Buffalo is strategically located in a bi-national urban region sometimes known as the “Golden Horseshoe”. It is home to nearly 10 million people and stretches from the Greater Toronto Area, around the western end of Lake Ontario, through the Niagara Peninsula and across Western New York, including the Buffalo and Rochester metropolitan areas.

The Golden Horseshoe is the fourth largest urban region in North America, and with a growth rate of 110,000 people per year, the region is the second fastest growing major urban region on the continent. Most of the growth is on the Canadian side of this bi-national region, but the future potential for investment and economic growth in the US parts of the region, because of our proximity to our Canadian economic partners, is substantial.

http://www.america2050.org/
C. Western New York/Buffalo Niagara Region

Buffalo serves as the urban center of the Erie and Niagara County region, also known as the Buffalo-Niagara Falls Metropolitan Statistical Area. This “Buffalo Niagara region” is located in the US along the Niagara River between Lake Erie and Lake Ontario, serving as a key gateway between the two nations. This region defines not only a US census unit, but the core of a regional labor market, a media market, a commuter-shed, a transportation planning area, and many other regional functions including ongoing efforts to improve metropolitan governance.

In all but the broadest definitions of this region, Buffalo has long been the dominant urban center, economically, politically, culturally and demographically. Over the past half century, however, Buffalo’s predominant position in the region has deteriorated as the urban core declined in population and the suburbs grew. In 1950 nearly two-thirds of the people in Erie County lived in the City of Buffalo. By the turn of the century, less than one-third of the population lived there.

Over the past several years, there have been a number of collaborative initiatives to develop regional growth and sustainability plans that recognize the importance of waterfront planning, public access and protecting the region’s water resources including the Framework for Regional Growth (2006)\(^\text{27}\), the Western New York Sustainability Plan (2013)\(^\text{28}\), and One Region Forward. (2015)\(^\text{29}\).

D. Niagara River Greenway

In 2004 Governor George Pataki and the New York state legislature created the Niagara River Greenway commission (NRGC) to “implement or cause to be implemented a linear system of parks and conservation areas that will ... redefine the Niagara riverfront.” The NRGC completed the Niagara River Greenway Plan\(^\text{30}\) in April 2007, establishing the following vision: “The Niagara River Greenway is a world class corridor of places, parks and landscapes that celebrates and interprets our unique natural, cultural, recreational, scenic and heritage resources and provides access to and connections between these important resources while giving rise to economic opportunities for the region. The plan was adopted by the Buffalo Common Council and every community within its boundaries.

The City of Buffalo is the southernmost municipality along the Niagara River Greenway. The City of Buffalo LWPR proposes the re-alignment of the LWRA to maximize consistency with the Niagara River greenway focus area to the greatest extent practicable. In addition, the Buffalo LWPR recommends that interpretive signs in the LWRA are consistent with the Niagara River Greenway Wayfinding and Signage Maintenance Manual\(^\text{31}\).
E. City of Buffalo

The City of Buffalo is also known as the Queen City of the Great Lakes. The largest and most prosperous city along the Great Lakes at the end of the 1800’s, it was at one point the second largest trade port in the North after New York City. The Buffalo waterfront contains approximately 57.7 linear miles of shoreline. Included in this area are the eastern portion of Lake Erie, the southern section of the Niagara River, Unity Island and the Black Rock Canal, the Buffalo River, and portions of Cazenovia Creek and Scajaquada Creek. The surface water bodies cover approximately 7.5 square miles or 4,825 acres. The upland portion of the Local Waterfront Revitalization Area (LWRA) is nearly equivalent at just under 7 square miles or 4,387 acres.

1. LWRA Residents and Environmental Justice

A detailed description of the overall socio-economic conditions in the City of Buffalo and region are provided in the BDF Shared Inventory referenced at the beginning of this inventory. Of particular note within the LWRA, is the wide range of socio-economic communities within the City’s LWRA. Two communities, located around Delaware Park and the Erie Basin Marina, experience some of the lowest poverty rates in the City, less than 10% and 13%, respectively.

However, the remaining neighborhoods within the LWRA either fall within the NYS DEC guidelines for Potential Environmental Justice Areas due to either the high prevalence of minority residents or poverty levels. Two neighborhoods, Kaisertown (23% poverty) and a portion of South Buffalo between McKinley Parkway and Cazenovia Creek (20% poverty), fall just below the DEC poverty threshold. Potential environmental justice areas are presented as Map 6.

Environmental justice is defined as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Environmental justice efforts focus on improving the environment in communities, specifically minority and low-income communities, and addressing disproportionate adverse environmental impacts that may exist in those communities.

For those without robust financial resources, protection of the public trust within the LWRA is critical. Many of the City’s residents, including many immigrants, rely upon subsistence shoreline fishing as a family protein source. Shoreline fishing access, affordable license fees, easily understood fish consumption advisories, habitat protection and fish population growth strategies support these communities.

For those without financial resources for travel and recreation, public waterfront parks and natural areas provide important spaces for exercise, play, gatherings of family and friends, scenic views and natural inspiration.

For those with limited or no access to a car, the implementation of the City’s complete streets program in the LWRA is critical to connecting all residents to the City’s waterways- particularly those who walk, bike or utilize public transit.

For those with literacy and language barriers, clear signage helps to protect residents from hazards such as combined sewer overflows and dangerous currents.
For vulnerable populations and those with limited access to health care, protection from environmental hazards and contamination in the LWRA help ensure that the waterfront is safe and healthy for all Buffalo residents.

The economic development of the waterfront and the creation of jobs for LWRA residents, empowers employees with the financial means necessary for independence.

Finally, the open and transparent administration of the Buffalo LWRP consistency review process, is critical to ensuring that all of Buffalo’s residents share in the revitalization of the Buffalo LWRA.

2. The Blue Economy

Brookings Institute economist John Austin has identified three traditional, and four emerging, ways that water influences the economy. Traditionally, water has served as:

- a conduit for commerce through freight shipping and warehousing as demonstrated by Buffalo’s Erie Canal shipping and grain elevator prowess;
- an input and resource to grow and make things through agriculture, manufacturing and energy production as demonstrated by the historic proliferation of water intense manufacturing facilities along the Buffalo River as well as modern brewing and food production; and
- a “place-definer and quality of life enhancer”, epitomized by the region’s association with Niagara Falls, its active waterfront event calendar and elevated real estate values for waterfront housing.

Increasingly, water can contribute to Buffalo’s economic revitalization as Buffalo:

- businesses innovate, deploy and manufacture smart and sustainable water use, reuse, efficiency and cleaning technologies;
- serves as a training ground and hub for water and ecosystem restoration research and implementation professionals such as those associated with the Buffalo State College Great Lakes Center, UB Great Lakes program and NYS Pollution Prevention Institute;
- water protection measures, including green infrastructure in key roadway landscape projects, send a value cue indicating Buffalo’s commitment to sustainability and innovation;
- capitalizes upon its Great Lakes location as one of the few places on earth that can provide a sustainable platform for long-term population and economic growth.

Locally, water and the LWRA contribute to many other aspects of the region’s growing economy including:

- commercial boating businesses; marinas; fishing charters, birding and ecotourism enterprises, and related businesses like bait shops; boat building, rental and sale and repair shops generate water dependent business, waterfront activity and tourism revenue;
- Lake Erie locally caught, fish offer a cost effective, low carbon, more sustainable alternative to fish imported from the nation’s coasts and foreign markets. The total value of Lake Erie’s commercial fishery was $194 million in 2011.
- the local, public water supply presents a cost effective, low carbon alternative to imported bottled potable water, saving each resident hundreds, if not thousands, of dollars every year;
- ecosystem restoration activities such as the $75 million Buffalo River sediment clean up and brownfields clean up efforts provide high quality technical and construction jobs. According to research from the Brookings Institute, every $1 invested in restoration generates $2 in economic benefit and up to $4 in economic activity through jobs, development, tourism and property values.
- water infrastructure investments, such as the $425 million Buffalo Sewer Authority combined sewer long term control plan, create over 16 percent more jobs dollar-for-dollar than a payroll tax holiday, nearly 40 percent more jobs than an across-the board tax cut, and over five times as many jobs as temporary business tax cuts;
Natural protective features and waterfront smart growth minimizes economic losses from flooding and high wind events; and

Reliable, affordable water supply is essential to almost all building heating and cooling systems, contributing to employee health and productivity; and

As shown in Map 7 the Buffalo LWRA’s western boundary at the US-Canada border provides numerous opportunities to serve as an International Gateway for people, innovation and goods travelling from Canada.

Collectively, these activities have been dubbed the City’s “blue economy.”

3. Existing Land Use Table & Map

The LWRA comprises 23% of the total parcel acreage in the City of Buffalo and just under 5% of the City’s parcels. As the table below illustrates, the overwhelming portion of parcels in LWRA are either residential (64%) or vacant (23%). However, parks and formal open space comprise nearly 30% of the acreage in the LWRA, with 24% of the acreage as vacant land. Map 8 illustrates existing land use within the LWRA.

4. Surface Land Ownership Patterns

According to City of Buffalo parcel data, the City owns the largest percentage of land within the LWRA, with almost 2,018 acres comprising 337 parcels. Private owners, including not for profits, comprise the second largest land owner class, holding almost 1,668 acres on nearly 4,000 parcels. The State of New York is the third largest property owner with 464 acres on 75 parcels. Public land holdings within the LWRA are presented in the Table VIII-B as well as on Map 9.

5. Underwater (Submerged) Land Ownership

Ownership and jurisdiction of Lake Erie and all submerged lands, including the subsurface lying under the lake within the territorial limits of New York State, is held by the State of New York, unless ownership has been granted to any other person or entity. The beds of the Great Lakes are susceptible of private ownership only for special purposes. The boundary line between State ownership of the lakebed and ownership of the adjacent upland is the low water mark.

State-owned underwater lands are managed by the New York State Office of General Services (OGS). The OGS issues grants, leases, easements and other interests for these underwater lands. They also investigate encroachments on littoral rights (the right of an upland owner to access the navigable waters of the lake) and make sure there is no interference with navigable channels. The OGS reviews NYSDEC and USACE comments for proposed projects that affect State-owned bottom lands to ensure that the

<table>
<thead>
<tr>
<th>TABLE VIII-A. LAND USE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td><strong>City</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Parcels</td>
</tr>
<tr>
<td>Residential</td>
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<tr>
<td>Parks/Open Space</td>
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<td>Industrial</td>
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<tr>
<td>Transportation/Utilities</td>
</tr>
<tr>
<td>Vacant</td>
</tr>
<tr>
<td>Total</td>
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</table>

<table>
<thead>
<tr>
<th><strong>LWRA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
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<tr>
<td>Transportation/Utilities</td>
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<tr>
<td>Vacant</td>
</tr>
<tr>
<td>Total</td>
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TABLE VIII-B. PUBLICLY-OWNED LAND

<table>
<thead>
<tr>
<th></th>
<th>Acreage</th>
<th>%</th>
<th>Parcels</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>City</td>
<td>2,017.72</td>
<td>46</td>
<td>337</td>
<td>7.6</td>
</tr>
<tr>
<td>County</td>
<td>110.68</td>
<td>02</td>
<td>18</td>
<td>0.4</td>
</tr>
<tr>
<td>State</td>
<td>463.97</td>
<td>10</td>
<td>75</td>
<td>1.7</td>
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<tr>
<td>Federal</td>
<td>29.28</td>
<td>01</td>
<td>5</td>
<td>0.1</td>
</tr>
<tr>
<td>Peace Bridge</td>
<td>20.54</td>
<td>00</td>
<td>14</td>
<td>0.3</td>
</tr>
<tr>
<td>Canada</td>
<td>0.03</td>
<td>00</td>
<td>1</td>
<td>0.0</td>
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<tr>
<td>Utilities</td>
<td>53.48</td>
<td>1</td>
<td>28</td>
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<tr>
<td>Rail</td>
<td>68.38</td>
<td>2</td>
<td>13</td>
<td>0.3</td>
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<tr>
<td>Private</td>
<td>1,667.69</td>
<td>38</td>
<td>3,950</td>
<td>88.9</td>
</tr>
<tr>
<td></td>
<td>4,431.77</td>
<td>1</td>
<td>4,441</td>
<td>1</td>
</tr>
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</table>
MAP 8 - EXISTING LAND USE

INVENTORY & ANALYSIS
benefits of the public will not be deprived and that the environment will not be adversely impacted. The OGS strives to achieve satisfaction on the part of all parties involved prior to the issuance of an interest.

For the past few decades, OGS has been issuing licenses for certain structures that exceed the thresholds and, therefore, require State authorization for use of underwater lands. The typical license is issued for 10 years, allowing for the use of State-owned bottom lands. Unlike a grant, the State does not release the real interest in the property. The licensee pays a fee for the “use” of these State-owned underwater lands. Licenses have been issued to the following sites:

- Harbour Place Marina;
- Rich Marine Sales;
- Buffalo Yacht Club;
- Erie Basin Marina;
- First Buffalo Marina;
- RCR Yachts/Skyway Marina; and
- NFTA Boat Harbor.

In 1901 and 1904, the United States acquired certain lands at the north end of the Outer Harbor peninsula. This is the area that is now occupied by the U.S. Coast Guard facility. It is also noted, that Chapter 265 of the Laws of 1900 provided the U.S. Government with the underwater land area for the breakwater that protects the Outer Harbor area.

Chapter 373 of the Laws of 1904 authorized the underwater lands to the United States Government for the construction of the Black Rock Canal. Today the Black Rock Canal is under the jurisdiction of the State Canal Corporation (which is a sub-section of the New York Thruway Authority).

The outer (western) shoreline of Unity Island was extended toward the Niagara River through a series of underwater land grants (for both commerce and beneficial enjoyment) that were conveyed between 1894 and 1926 to the Unity Island Freight Terminal Company and the Niagara River Hydraulic Company. These land grants established the pier and bulkhead line that exists today and, together with the construction of the Black Rock Canal, are responsible for the present geographic configuration of Unity Island. The City of Buffalo acquired the land on the southern portion of Unity Island, which now comprises Broderick Park, pursuant to Chapter 350 of the Laws of 1911. The shoreline of the Niagara River, north of Unity Island, contains a number of old underwater land grants that were issued to private landowners, between 1863 and 1906, primarily for beneficial enjoyment. A few small conveyances were made to the NYS DOT in 1968 for the construction of the interstate highway (I-190 Expressway). The lands currently occupied by the former Ontario Street boat launch at Black Rock Canal Park, Harbour Place Marina and Rich Marina are former land issuances that have been passed on with the title to these lands.

In 2011, a legal analysis of the ownership of Buffalo River and City Ship Canal underwater lands was submitted to the US Environmental Protection Agency in support of the Buffalo River dredging project. That analysis concluded that the City of Buffalo was the fee owner of the beds of both water courses.

A 1957 Department of Transportation survey of right of way parcels along the NY Route 198 Scajaquada Expressway indicates that, from the former rail right of way at Letchworth Street to the east, the City of Buffalo owns the Creek and adjacent land. West of the rail right of way, the analysis indicated that all parcels were privately owned. The analysis did not indicate who owns the Creek itself west of the rail right of way.32

6. Zoning

A. Existing Zoning - New Unified Development Ordinance (UDO)

On April 3, 2017, the Buffalo Green Code Unified Development Ordinance (UDO) became effective throughout the City. The UDO combines zoning, subdivision, sign, street design, and related approval standards into a single document.

32Some portion of the Creek in this area was dredged in conjunction with National Fuel Gas and Westwood Squibb clean-up efforts.
The UDO, known as Chapter 496 of the City of Buffalo Code, includes the following zones (See Map 10).

**Neighborhood Zones**
- N-1D Downtown/Regional Hub
- N-1C Mixed-Use Core
- N-1S Secondary Employment Center
- N-2C Mixed-Use Center
- N-2E Mixed-Use Edge
- N-2R Residential
- N-3C Mixed-Use Center
- N-3E Mixed-Use Edge
- N-3R Residential
- N-4-30 Single-Family
- N-4-50 Single-Family
- N-DER Downtown Entertainment Review Overlay

**District Zones**
- D-R Residential Campus
- D-M Medical Campus
- D-E Educational Campus
- D-S Strip Retail
- D-C Flex Commercial
- D-IL Light Industrial
- D-IH Heavy Industrial
- D-OS Square
- D-OG Green
- D-ON Natural

**Corridor Zones**
- C-M Metro Rail
- C-R Rail
- C-W Waterfront

**B. Innovative Approach to Zoning**

The UDO represents a marked change to the City's previous zoning ordinance, which had been in place since 1953. The previous ordinance, considered a conventional zoning ordinance, was primarily intended to separate incompatible land uses, but also tended to encourage autocentric or suburban development patterns. The City’s walkable neighborhoods - which feature mixed use centers flanked by residential streets and provide residents with access to goods, services, and employment opportunities within walking distance from their homes - was discouraged. In addition, the city’s traditional urban development pattern, which included compact lot sizes and modest setbacks, did not conform to the larger lot size and setback requirements of the 1953 ordinance. The previous zoning also introduced a number of regulations aimed at accommodating the automobile, often at the expense of other transportation modes and neighborhood character, such as minimum parking requirements. In aggregate, the 1953 zoning code discouraged the reuse of existing buildings and fostered new development that was distinctly different in design and function, compromising the traditional mixed use character of city neighborhoods.

In contrast with the 1953 zoning ordinance, the new UDO is form-based and emphasizes neighborhood character as its basic organizing principle. This approach was chosen because of its unique capacity to help the city adapt to an evolving economy and realize the community’s vision for walkable, green neighborhoods. The UDO aims to:

- Support walkable, mixed-use development;
- Strengthen the city’s economic centers;
- Protect and enhance Buffalo’s historic character;
- Remove barriers to the creative reuse of vacant land and structures;
- Simplify approvals to encourage investment; and
- Help citizens drive fewer miles, use less energy, and improve environmental quality.

In addition, the UDO is much more user-friendly than the previous zoning code and includes ample graphics,
tables, and flowcharts to make the regulations more clear and accessible.

C. Waterfront Corridor Zone

The UDO's Waterfront Corridor (C-W) Zone is an overlay zone, which provides additional regulations to those included in the underlying base zones. To facilitate consistency of development with the policies of the LWRP, the C-W zone has been mapped to match the boundaries of the WRA. All development within the C-W must comply with the standards and procedures of the Local Waterfront Consistency Review Ordinance. (see Appendix B).

In addition to consistency with the LWRP, the C-W zone:

- Requires that development along the waterfront provide a waterfront yard of at least either 25 feet or 100 feet, depending on the nature of the underlying zone.
- Encourages new development along the waterfront to provide access via shore public walkways.
- Provides design standards to ensure that development along the waterfront is appropriately designed and oriented, not only to its adjacent street, but also to the water.
- Restricts or prohibits certain land uses to protect the environmental quality and character of the waterfront from potential impacts related to such uses.

A full copy of the proposed waterfront zone has been provided as Appendix E.
II. NATURAL WATER INFRASTRUCTURE

A. Buffalo’s Surface Waterbodies

The City of Buffalo is strategically located at the eastern end of Lake Erie, as the Lake narrows to form the Niagara River strait.

1. Lake Erie

Lake Erie is the shallowest and smallest by volume of the Great Lakes, and as a result, the lake warms relatively quickly in the spring and summer and cools quickly in the fall. During winter, a large percentage of the lake is covered with ice, and occasionally freezes over completely.

The lake is naturally divided into three basins. The eastern basin is the deepest, with an average depth of 82 ft and a maximum depth of 210 ft. The eastern basin thermally stratifies every year impacting the internal dynamics of the lake physically, biochemically, and chemically.

2. The Niagara River

The Niagara River begins at the terminus to Lake Erie and flows 37 miles north to Lake Ontario. The entire drainage of the upstream Great Lakes system, an area of 263,700 square miles, drains into the Niagara River at Buffalo. The local watershed on the US side of the Niagara River has a drainage area of approximately 1,225 square miles. The Niagara River watershed encompasses the entire City. The river carries an average flow of about 200,000 cubic feet per second from Lake Erie to Lake Ontario (83 percent of the tributary flow to Lake Ontario).

3. Scajaquada Creek/Jubilee Springs/Hoyt and Mirror Lakes

There are several tributaries to the river from the watershed on the US side near the City of Buffalo including Scajaquada Creek, Two Mile Creek, Tonawanda Creek, Cayuga Creek, and Gill Creek. Of these, only the Buffalo River and Scajaquada Creek are located in the City of Buffalo and the LWRA. Due to the gentle slope and small drainage areas of the river’s local tributaries, their flows are not large except during times of heavy runoff.

Historically, Cornelius Creek was also a tributary to the Niagara River. It flowed through North Buffalo, along a path roughly following Hertel Avenue. As development began to occur, Cornelius Creek was replaced by the first Hertel Avenue trunk sewer in the late 1880s and by the second Hertel Avenue trunk sewer in the late 1920s. With the construction of the North Interceptor in the 1930s, the Hertel trunk sewers were connected to the interceptor system to allow conveyance of flows to the wastewater treatment plant. Consequently, what remains of Cornelius Creek is its discharge into the Niagara River, at Black Rock Canal Park, at CSO Outfall 055.

The Scajaquada Creek watershed drains an area of 29 fully urbanized square miles, of which 16 square miles lie outside the city limits. The creek is 15 miles long and has an average daily flow volume of 32 cubic feet per second and a 10-year peak flow of 2,900 cubic feet per second. Scajaquada Creek originates in the Town of Lancaster and flows west through the Town of Cheektowaga and the City of Buffalo to its outfall at the Black Rock Canal. From Pine Ridge Road in Cheektowaga, the creek runs through a 19,000 foot long, 14.75-foot by 29.5-foot rectangular arch called the Scajaquada Drain. A diversion and trash rack structure was built at the downstream end, at Main Street, to direct wet weather flows up to 455 million gallons per day into the Delavan Avenue trunk sewer to protect Hoyt Lake from pollution and to maintain a base flow in Scajaquada Creek.
<table>
<thead>
<tr>
<th>Sub-watershed</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buffalo Creek</td>
<td>93190.9</td>
</tr>
<tr>
<td>Buffalo River</td>
<td>105391.6</td>
</tr>
<tr>
<td>Cayuga Creek</td>
<td>81385.29</td>
</tr>
<tr>
<td>Eighteenmile Creek</td>
<td>76843.04</td>
</tr>
<tr>
<td>Ellicott Creek</td>
<td>76843.86</td>
</tr>
<tr>
<td>Lower Tonawanda Creek</td>
<td>78802.24</td>
</tr>
<tr>
<td>Middle Tonawanda Creek</td>
<td>79115.93</td>
</tr>
<tr>
<td>Murder Creek</td>
<td>46685.85</td>
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<tr>
<td>Niagara River</td>
<td>102813.4</td>
</tr>
<tr>
<td>Smoke Creek</td>
<td>39527.25</td>
</tr>
<tr>
<td>Upper Tonawanda Creek</td>
<td>127308.1</td>
</tr>
<tr>
<td>Total</td>
<td>907907.5</td>
</tr>
</tbody>
</table>
Scajaquada Creek daylights in Forest Lawn Cemetery to form the only natural waterfall within the City's boundary. There are over 30 springs underneath the cemetery, and they recharge Scajaquada Creek as it flows downstream. The city's original water supply, called Jubilee Springs, originates here. After a cholera pandemic in 1832, Jubilee Springs Water Works sold the spring's water in bottles until the 1920s. To protect Hoyt Lake water quality, the Creek was separated from Hoyt Lake and directed into a concrete viaduct shortly after flowing beneath Delaware Avenue, flowing below ground and reemerging near the eastern end of Hoyt Lake. This viaduct is designed to convey up to 455 MGD of flow. When Scajaquada Drain flows in excess of 910 MGD the Scajaquada Creek basin may overflow into Hoyt Lake.

The southern bank of Mirror Lake, which is located behind the Buffalo History Museum, is physically divided from the waters flowing through Scajaquada Creek by a concrete barrier.

4. Buffalo River

The Buffalo River flows into Lake Erie at the head of the Niagara River. The Buffalo River and its three major tributaries drain approximately 446 square miles in Erie, Genesee and Wyoming Counties, about 4% of which is located within the City limits. The river has an average daily flow volume of 365 cfs and a 10-year peak flow of 29,500 cfs. The gradient of the river is slight, less than one foot per mile. During periods of mean or low flows, the downstream end of the river is influenced by lake level variations and has an estuarine character. During the summer months, the river water is warm relative to lake water, and therefore less dense, resulting in the river water flowing on top of the cooler, denser lake water. This results in stratification in the water at the confluence of the river to the lake. In the fall, the situation can be reversed, with the river water being cooler and denser and flowing below the lake water. Although the Buffalo River discharges into the Niagara River at Lake Erie, its plume tends to stay on the eastern shore due to strong currents and a prevailing southwesterly wind, with little cross mixing.

The Buffalo River is a navigable waterway maintained by the US Army Corps of Engineers (USACE) for lake vessel access. The River is dredged from its mouth to a point just downstream of the confluence between the Buffalo River and Cazenovia Creek to a depth of 22 feet below low lake level datum.

The Buffalo River is fed by three tributaries: Cayuga Creek, Cazenovia Creek, and Buffalo Creek. Two of the tributaries, Buffalo Creek and Cazenovia Creek, flow through the City of Buffalo LWRA. Cazenovia Creek joins the Buffalo River approximately 6 miles upstream of Lake Erie, just west of the Bailey Avenue Bridge. The creek drains 138 square miles (less than 1% of the watershed lies within the City of Buffalo limits) and runs through woodlands, small residential communities and recreation areas. Approximately 2.25 miles of the creek are within the City limits.
5. NYS Waterbody Designations

Article 15 of the Environmental Conservation Law (ECL) requires that all waters of the State be provided a class and standard designation based on a determination of their existing or expected best use for each waterway or waterway segment. This classification is based upon the characteristics of bordering lands, stream flow, water quality, present and past uses and potential future uses.

Waterbodies that are designated as C (T) or higher (i.e., C (TS), B or A) are collectively referred to as “protected streams” and are subject to the stream protection provisions of the Protection of Waters regulations. The New York State DEC Waterway Classifications for the City of Buffalo are provided in the following table.

<table>
<thead>
<tr>
<th>Use Class</th>
<th>Water Body</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (special)</td>
<td>(a) The best usages of Class A-S waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish, shellfish, and wildlife propagation and survival. (b) This classification may be given to international boundary waters</td>
<td>Niagara River (American side) Waters from the international boundary to the American shore above line due west from the south end of Bird Island Pier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lake Erie Main Lake/ North and northeast shoreline</td>
</tr>
<tr>
<td>A 1</td>
<td>The best usages of Class A waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish, shellfish, and wildlife propagation and survival.</td>
<td>Scajaquada Creek Reach 2 - From the crossing on Main Street in the City of Buffalo downstream to mouth of Scajaquada Creek at the Niagara River.</td>
</tr>
<tr>
<td>B</td>
<td>The best usages of Class B waters are primary and secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival.</td>
<td>Lake Erie/ Outer Harbor Waters easterly of old or middle breakwater and south breakwater between the line from the northern end of old or middle breakwater to south pier light at US Coast Guard station and line represented by extension of Tifft Street to south end of south breakwater.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cazenovia Creek Reach 1 - From the Cazenovia Street Bridge upstream to the junction of the East and West Branches of Cazenovia Creek.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Delaware Park Hoyt Lake Entire area of the lake.</td>
</tr>
<tr>
<td>Use Class</td>
<td>Water Body</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>C</td>
<td>Buffalo River</td>
<td>Downstream of confluence with Cayuga Creek to the mouth</td>
</tr>
<tr>
<td></td>
<td>Cazenovia Creek</td>
<td>Reach 2 - From the Cazenovia Street Bridge downstream to the confluence with Buffalo River</td>
</tr>
<tr>
<td></td>
<td>Scajaquada Creek</td>
<td>Reach 1 - From the crossing on Main Street in the City of Buffalo upstream to “tributary 4”, which is in line with continuation of Frederick Drive, Town of Cheektowaga (underground portion).</td>
</tr>
<tr>
<td></td>
<td>Black Rock Canal</td>
<td>Waters east of Unity Island and Bird Island Pier between canal locks and a line from the south end of Bird Island Pier to Buffalo Harbor Light #6.</td>
</tr>
<tr>
<td></td>
<td>Erie Basin Marina</td>
<td>Waters southerly of line from Buffalo Harbor Light #6 to south end of Bird Island Pier; easterly of line from south end of Bird Island Pier to north end of north breakwater; easterly of north breakwater; easterly of line from south end or north breakwater to north end of old or middle breakwater and northerly end of line from north end of old or middle breakwater to south pier light at US Coast Guard Station.</td>
</tr>
</tbody>
</table>

The best usage of Class C waters is fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.
### 6. Surface Water Quality

The NYSDEC Division of Water periodically publishes a list of surface waters that cannot be fully used as a resource or have problems that can damage their environmental integrity. The “Priority Waterbodies List” is used as a base resource for the NYSDEC Division of Water program management. The Niagara River and its tributaries within Buffalo have been included on the 2013 Priority Waterbodies List.

#### TABLE VIII-D. PRIORITY WATERBODIES

<table>
<thead>
<tr>
<th>Water Body</th>
<th>Impaired Use</th>
<th>Severity</th>
<th>Data</th>
<th>Type of Pollutant</th>
<th>Source</th>
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<tbody>
<tr>
<td>Black Rock Canal</td>
<td>Fish Consumption</td>
<td>Impaired</td>
<td>Good</td>
<td>Priority Organics (PCBs)</td>
<td>Contaminated Sediments</td>
</tr>
<tr>
<td></td>
<td>Aquatic Life</td>
<td>Stressed</td>
<td></td>
<td>Non-priority Organics (PAHs)</td>
<td>Habitat Modification</td>
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<tr>
<td></td>
<td>Habitat/ Hydrology</td>
<td>Impaired</td>
<td></td>
<td></td>
<td>CSO Runoff</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Urban Runoff</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Landfills</td>
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<tr>
<td>Buffalo River</td>
<td>Fish Consumption</td>
<td>Impaired</td>
<td>Good</td>
<td>Priority Organics</td>
<td>Contaminated Sediments</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Demand</td>
<td>Urban Runoff</td>
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<td>Metals</td>
<td>Land Disposal</td>
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<td>Pathogens</td>
<td>Industrial</td>
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<td></td>
<td></td>
<td>Silt/Sediment</td>
<td>Municipal</td>
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<td></td>
<td>Fishing</td>
<td>Impaired</td>
<td>Good</td>
<td></td>
<td>Storm Sewers</td>
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<td></td>
<td>Fish Propagation</td>
<td>Stressed</td>
<td>Good</td>
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<td>CSOs</td>
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<td>Hydromodification</td>
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<td>Cazenovia Creek</td>
<td>Fishing</td>
<td>Stressed</td>
<td>Some</td>
<td>Silt (sediment)</td>
<td>Streambank Erosion</td>
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<tr>
<td></td>
<td>Fish Propagation</td>
<td>Stressed</td>
<td>Some</td>
<td>Oxygen Demand</td>
<td>Construction</td>
</tr>
<tr>
<td></td>
<td>Fish Survival</td>
<td>Stressed</td>
<td>Some</td>
<td>Pathogens</td>
<td>Urban Runoff</td>
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<td></td>
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<td>Hydromodification</td>
<td>On-site Systems</td>
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<td>Roadbank Erosion</td>
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<tr>
<td>Niagara River</td>
<td>Fish Consumption</td>
<td>Impaired</td>
<td>Good</td>
<td>Priority Organics (PCBs, PAHs)</td>
<td>Land Disposal</td>
</tr>
<tr>
<td></td>
<td>Water Supply</td>
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7. Healthy Niagara Watershed Management Plans

The Healthy Niagara is a watershed management initiative by the Buffalo Niagara Waterkeeper. The program provides tools for implementers, stakeholders, and the public to use to understand current conditions throughout the Niagara River Lake Erie Watershed, and utilize best management practices to address impairments of conserve lands within the region. The Healthy Niagara initiative includes two plans: Phase I – Niagara River Watershed Management Plan and Phase II – Regional Niagara River Lake Erie Watershed Management Plan.  

https://bnwaterkeeper.org/projects/healthyniagara/
B. Active River Area, Wetlands and Floodplains

1. Active River Area

The Active River Area (ARA) is a conservation framework for rivers and streams that integrates both physical and ecological processes that form, change and maintain a wide array of habitat types and conditions in and along rivers and streams. A draft map of the Niagara River ARA was prepared in connection with the Niagara Regional Habitat Conservation Strategy. The City of Buffalo is located within the low-watershed of the Niagara River. It contains almost 13% of the 70,553 acres that comprise the Niagara River ARA. As the following map shows, within the City, the ARA (light blue) includes both floodplain and wetlands areas that are located along the waterways and the shoreline of Lake Erie (dark blue).

2. Federal Wetlands

The Federal Government, through the USACE, regulates wetlands regardless of size, in accordance with the Clean Water Act. These areas, mapped by the U.S. Fish and Wildlife Service, are designated as wetlands based upon the presence of three features: hydric soils, wetland vegetation and specific hydrologic conditions.

A permit must be issued by the USACE if a wetland is disturbed or filled, or development is proposed within identified wetland areas. A Water Quality Certification could also be required from the NYSDEC, based upon the amount of federal wetland to be filled or otherwise disturbed.

The U.S. Fish and Wildlife Service National Wetland Inventory classifies the Niagara River corridor, Scajaquada Creek, North Buffalo Harbor, Buffalo Ship Canal, Buffalo River, and Cazenovia Creek as Federal wetlands. The New York Freshwater Wetlands Act assigns classifications to State wetlands ranging from Class I (Highest) to Class IV (lowest). According to the act:

- Class I wetlands are the most significant, providing the most critical benefits and habitat value, a reduction of which is acceptable only in the most unusual of circumstances. A permit will be issued only if it is determined that the proposed activity satisfies a compelling economic or social need that clearly and substantially outweighs the loss of or detriment to the benefit(s) of the Class I wetland.
- Class II wetlands provide important wetland benefits, the loss of which are acceptable only in very limited circumstances. A permit will be issued only if it is determined that the proposed activity satisfies a pressing economic or social need that clearly outweighs the loss of or detriment to the benefit(s) of the Class II wetland.

Class I and II wetlands have been designated within the City of Buffalo LWRA. NYSDEC controls a small number of freshwater wetlands south of the Buffalo River. They include:

- the Times Beach Class I wetland, which is also underlain by an unconfined aquifer;
- Several Class I wetlands located in Tifft Nature Preserve and BLCP and wetlands located along the rail corridors; and
- A Class II wetland area located south of Tifft Street, within the BLCP.

Where practicable, upland wetland areas designated in the Buffalo LWRA have been protected in the City’s UDO as open space.

3. State Wetlands

Pursuant to the New York Freshwater Wetlands Act, the NYSDEC regulates activity within State-designated freshwater wetland areas and the area immediately adjacent to wetlands (within 100 feet). The areas in and around Times Beach Nature Preserve, Tifft Nature Preserve, the southern portion of Buffalo Harbor State Park, and certain lands in the Buffalo Lakeside Commerce Park (BLCP), are also designated as potential wetland habitats.

4. Floodplains

The City of Buffalo LWRA contains flood zones that have been designated by the Federal Emergency Management Agency (FEMA) as areas subject to potential flood hazards. These areas or flood zones are depicted on the FEMA Flood Insurance Rate Maps (FIRMs) developed for the City. The flood zones are established based upon the degree to which...
an area is susceptible to flood damage. The two general flood zones that exist within the LWRA include:

- **“AE” Zone** – (also called the area of special flood hazard), which is the area of land that would primarily experience still water flooding, without significant wave activity, during a 100-year storm; and

- **“C” Zone** – which are areas of minimal flooding.

Flood zones or plains are flat areas that surround streams and are periodically inundated with water due to overbank flow. As shown on Map 11, most of the surface water bodies found within the LWRA are surrounded by 100-year floodplains.

Where possible, publicly held lands within the current 100-year floodplain have been preserved as parkland or open space under the UDO. Two neighborhoods are located within the current 100-year floodplain along the Buffalo River: Kaisertown and South Buffalo’s Seneca Street community.

Flood berms buffer most of Kaisertown from flood risk, while the Seneca Street community is aided in part by the protective function of the Seneca Bluffs wetlands. Planned improvements to the Bailey Avenue bridge over the Buffalo River may also help reduce ice jams and associated upstream flooding. The continued dredging of the Buffalo River navigation channel also provides some flood management capacity.

FEMA has presented draft revised floodplain maps for the City that proposes expanding the flood hazard area to include several developed and/or redevelopment priority areas, including Black Rock Harbor Village, the First Ward, the Cobblestone District, and Canalside. The City and FEMA are currently in discussions regarding the proposed floodplain map.

Article 31 of the City Charter regulates land use and development that occurs within in the 100-year floodplain and floodway, a hydrologically determined area with a one percent chance of flooding in any given year.

### C. Habitat Resources

#### I. New York State Designated Significant Coastal Fish and Wildlife Habitats

As shown on Map 11, State-designated Significant Coastal Fish and Wildlife Habitats were identified within the LWRA. These habitat areas include the Times Beach diked disposal site, North Buffalo Harbor, the Small Boat Harbor (now part of Buffalo Harbor State Park) and Tifft Nature Preserve. Habitat designation by the NYSDOS was based on the area’s fish and wildlife population levels, species vulnerability, ecosystem rarity, human use and replaceability. For additional information on the types of species within these habitats, please refer to Appendix G, which includes a Coastal Fish & Wildlife Habitat Rating Form and map for each designated habitat.

##### A. Times Beach Diked Disposal Site

Times Beach Diked Disposal Site is located in the City of Buffalo, one mile southwest of downtown. This 55-acre fish and wildlife habitat is a partially filled, diked, dredge spoil disposal site on the shore of Lake Erie. It is owned by the City of Buffalo and is leased to the USACE. The USACE constructed the Times Beach diked disposal site in 1971 to contain dredged sediment from the Buffalo River, Buffalo Harbor, Black Rock Canal and Tonawanda Harbor, that was determined to be unsuitable for open-lake disposal. Dredged sediments were deposited in the Times Beach site over a 4-year period from 1972-1976. Deposited sediments contain varying concentrations of organic and inorganic pollutants originating from industries along the Buffalo River and Harbor.

The Times Beach Diked Disposal Site contains several distinct physical zones, including: a deep water zone up to about 6 feet in depth, with submergent aquatic plants; a low-lying mud or silt flat zone of variable width (inundated by high lake levels); a gradually sloping shallow water zone with emergent marsh vegetation; and an upland zone, containing tall herbs, grasses, and stands of variously sized trees and shrubs.
The site lies on the eastern end of Lake Erie, a critical geographical feature for bird migration north in the spring and south in the fall. More than 220 species of birds have been observed on the site including Pied-Billed Grebe, (State threatened), Peregrine Falcons, Bald Eagles (State endangered), Cooper's hawk (State threatened), Common Tern (State threatened), and Osprey (State threatened).

Times Beach features public walkways and bird viewing blinds, as well as educational and interpretive features.

B. North Buffalo Harbor

The North Buffalo Harbor is located in the northeast corner of Lake Erie, at the head of the Niagara River. This harbor consists of approximately 800 acres of open Lake water and upper river channel, extending roughly from the mouth of the Buffalo River to the Peace Bridge. Water depths vary from less than six feet over several small reefs to over 20 feet below mean low water. The harbor is home to several important wildlife communities including:

- 150 nesting pairs of Herring Gulls, on the sand and gravel bar located at the north end of Donnelly's Wall, their only nesting area between Buffalo and the eastern basin of Lake Ontario.
- 400 nesting pairs of Common Tern on the broken concrete surfaces of three of the breakwalls, including Donnelly's Wall, the North End Light Breakwater and the abandoned lighthouse near Middle Reef. This is the largest colony of this declining species anywhere in the Great Lakes.

- Concentrations of many waterfowl species including loons and grebes, as well as gulls, and terns, are present in North Buffalo Harbor during spring and fall migrations (March-April and September-November, respectively). Winter waterfowl surveys done by NYSDEC have tallied up to 68,000 ducks in this open area at one time, and weekly surveys done throughout the winter regularly count 20,000 and above. The birds take advantage of the open water created downstream of the Lake Erie ice boom, feeding on the abundant supply of small fish, such as emerald shiners and shellfish.

- Muskellunge is a native apex predator fish species with local populations supported entirely by natural reproduction in the Buffalo Harbor and Upper Niagara River. During the early 1990’s survey work in shallow, vegetated embayments in the Buffalo Harbor indicated that young-of-year muskellunge were present in four of these embayments, indicating that these areas were muskellunge spawning habitats (Culligan et al 1994). More recently, from 2007 to 2009, young-of-year muskellunge have been collected from two embayments: “Ice Boom Bay” (the embayment directly south of the Times Beach Preserve) and the Bell Slip. The numbers of young muskellunge collected at these locations recently are generally much lower than during the early 1990’s.

- North Buffalo Harbor supports a major urban fishery, of regional significance. Predominant fish species occurring in the harbor include rock bass, white bass, smallmouth bass, yellow perch, walleye, northern pike, muskellunge, brown trout, rainbow trout, and coho salmon. Among the most popular fishing spots are near Donnelly's Wall, and the “fish market” located just outside of the southern portion of Bird Island Pier.
C. Small Boat Harbor

Located on the Outer Harbor, the Small Boat Harbor is now part of the Buffalo Harbor State Park and has an area of approximately 165 acres. The harbor is the only sizable shallow water embayment on Lake Erie in Erie County (generally less than 12 feet deep below mean low water). Sheltered from prevailing winds and wave action by a two-mile long rock breakwall, the harbor is armored on three sides with rip-rap, concrete bulkheads, and gravel-cobble beach; the fourth side (westerly) is open to the Outer Harbor, with an approximate 30-foot deep dredged navigation channel. This protected location has resulted in enhanced sediment deposition and growth of submerged aquatic macrophytes, such as water milfoil, wild celery, and pondweeds. Substrates vary from a mixture of sand, gravel, and cobble, in some nearshore areas, to a dark brown gelatinous type sediment (gymtja).

The harbor supports a highly productive and diverse littoral community, with concentrations of many fish and wildlife species occurring in the area. Studies of the harbor in 1981 demonstrated that this was a diverse and productive fisheries habitat. The major adult fishes found in the area were pumpkinseed, yellow perch, and brown bullhead, along with largemouth bass, muskellunge, carp, and freshwater drum. Icthyoplankton sampling revealed substantial reproduction by centrarchids, shiners, and yellow perch. Carp and drum may also enter the area to spawn. By midsummer, the harbor is ideal for centrarchids and bullheads as macrophytes fill the embayment. This area within the Buffalo Harbor State Park is the largest, most obvious nursery area for numerous harbor and lake species on the Erie County shoreline. In addition, the harbor supports a productive macrobenthic community, dominated by snails and clams.

Submerged, rooted macrophytes and their associated invertebrates and fish provide valuable food resources for many species of waterfowl and other migratory birds. The Buffalo Harbor State Park attracts concentrations of these birds during spring and fall migrations (March-April and September-November, respectively), with some species remaining until the harbor freezes in early to mid-winter. The most abundant birds observed during these periods are the diving ducks, including canvasback, scapos, mergansers, common goldeneye, scoters, mallard, black duck, Canada goose, loons, grebes, and gulls. Hundreds of these birds are regularly found in the area during late fall, with the greatest numbers occurring when open waters on Lake Erie are rough. Prior to ice-up, the Buffalo Harbor State Park serves as a refuge and feeding area for some of the larger concentrations of waterfowl in North Buffalo Harbor. During the summer months, ring-billed gull, herring gull, and common tern may feed in the area, but the extent of their use has not been documented. The concentrations of birds which utilize the harbor; and the availability of good public access and vantage points, makes this a popular birdwatching site during waterfowl migration periods and in early winter.

The harbor provides high quality recreational fishing opportunities throughout the year. Anglers from throughout the Buffalo metropolitan area are attracted to the diverse warmwater fisheries, and ice fishing is especially popular.

D. Tifft Farm Nature Preserve

Tifft Farm Nature Preserve is the largest contiguous fish and wildlife habitat area within the City of Buffalo. The 264-acre former landfill was designated a preserve in 1976 and is owned by the City of Buffalo and operated by the Buffalo Museum of Science.

Of special importance is the relatively undisturbed wetland area, which is the largest of its kind along the Lake Erie coastline. The site includes a 75-acre cattail...
marsh, small freshwater ponds and old canal remnants, old fields (partly covering a former solid waste transfer site), forested wetland, and shrub sapling stages of succession.

Birds of 264 species and subspecies have been recorded in and immediately adjacent to its boundary including least bittern, American bittern and and osprey. Tifft is home to white tailed deer, beaver, muskrat, weasel, mink, red and grey fox and coyotes. Reptiles and amphibians include northern water snake, snapping and painted turtles, bullfrog, green frog, northern leopard frog, and Jefferson salamander, which are year-round residents. At least two species of fish, the central mudminnow and brook stickleback, are present. Tifft Preserve also contains a population of burrowing crayfish, one of only three known localities for this species in New York State.

In 2010, a nesting pair of peregrine falcons, a state endangered species, was discovered on the Cargill Pool grain elevators at the foot of Tifft Street, along Furhmann Boulevard. A New York State threatened species, the common tern, makes its home on the breakwalls in the Buffalo Harbor, as described earlier.

2. Rare or Endangered Species Habitat

The New York State Natural Heritage Program had identified rare or endangered species throughout New York State. According to their records, the City of Buffalo LWRA includes ninebark, a rare vascular plant; gull and common tern nesting areas; two rare fishes, mooneye (Hiodon tergisus) and lake sturgeon (Acipenser fulvescens), both New York State threatened species; and peregrine falcons. Lake sturgeon have been caught at the north gap of the Buffalo Harbor within the LWRA. Lake sturgeon are listed as a threatened species in New York; therefore, there is no open season for the fish and possession is prohibited. Anglers are more likely to encounter sturgeon in May and June when the fish gather to spawn on clean gravel or cobble shoals and in stream rapids.

In 2010, a nesting pair of peregrine falcons, a state endangered species, was discovered on the Cargill Pool grain elevators at the foot of Tifft Street, along Furhmann Boulevard. A New York State threatened species, the common tern, makes its home on the breakwalls in the Buffalo Harbor, as described earlier.

3. Niagara River Globally Significant Important Bird Area

The Niagara River has been designated as a Globally Significant Important Bird Area (GSIBA), a rare designation given by National Audubon to only 71 other sites in the world. The eastern end of Lake Erie provides two geographic features that assist in the lake crossing. One is Long Point, Ontario, a peninsula of land that juts 28 miles out into Lake Ontario, greatly narrowing the crossing. Birds “jump off” the end of the peninsula, and greatly reduce the time they spend over water before they reach the opposite shore. The second feature is the isthmus formed where Lake Erie drains into Lake Ontario via the Niagara River. Migratory birds are drawn to these features because most birds do not like to cross expanses of water where they lose the critical thermal updraft provided by warm air rising over land that reduces the metabolic cost of flight. Additionally, if they tire while flying over water, death is almost certain because in the large open waters of Lakes Erie and Ontario, there are no islands on which to land.
According to the Audubon Society of New York, the Niagara River GSIBA annually supports one of the world’s most spectacular concentrations of gulls, with 19 species recorded and one-day counts of over 100,000 individuals. The site is particularly noteworthy as a migratory stopover and overwintering site for Bonaparte’s Gulls, with one-day counts of 10,000 to 50,000 individuals (2 to 10% of the world population). Herring Gull one-day counts vary from 10,000 to 50,000 and Ring-billed Gull one-day counts vary from 10,000 to 20,000 individuals. The river also hosts a remarkable diversity and abundance of waterfowl. Winter surveys taken by NYSDEC have shown a 22-year average of 2,808 Canvasbacks (32% of state overwintering population), 7,527 Common Mergansers (31% of state overwintering population), 2,015 Common Goldeneyes (29% of state overwintering population), and 2,369 scaup (6% of state overwintering population). Annual peak numbers for Canvasbacks range from 2,000 to 15,000, for Common Goldeneyes from 2,300 to 3,000, for Common Mergansers from 2,500 to 12,000, and for Greater Scaup from 2,500 to 15,000 individuals.

The river also supports breeding colonies of Common Terns, Herring Gulls, Ring-billed Gulls, Blackcrowned Night Herons (50 to 60 pairs), Great Blue Herons, Great Egrets, and Doublecrested Cormorants. The habitats along the river edge support an exceptional diversity of migratory songbirds during spring and fall migrations. Many of the migrating species find habitat and refuge at the various open areas and nature preserves that exist in the vicinity of the river, including Times Beach Preserve and Tifft Nature Preserve (which is also designated by the Audubon Society as an IBA).

4. Local Habitat Areas and Restoration Sites

The following habitat sites have been identified through either Buffalo or Niagara River Great Lakes Area of Concern habitat analysis and restoration efforts. Highly detailed information regarding each habitat site on the Buffalo River has been developed in conjunction with the Buffalo River Ecological Restoration Master Plan and Buffalo River Sediment Remediation Feasibility Study.

Unity Island

A former City of Buffalo landfill, the north end of Unity Island was closed and developed as a passive park. According to 2012 Natural Land Cover analyses associated with the Niagara River Habitat Conservation Strategy development (NRHCS), the north end of the Island and park currently offers pond, emergent wetland, grassland/shrub and woodland habitats. In addition, the eastern edge of Unity Island, between the International Railroad Bridge and the West Ferry Lift bridge features forest habitat and is often frequented by herons, waterfowl and gulls.

Scajadaqua Creek

According to the 2012 NRHCS, Scajadaqua Creek offers woodland open water and grassland/shrub habitat along its course from Forest Lawn Cemetery to the Black Rock Channel. The US Army USACE of Engineers is studying the lower reaches of Scajadaqua Creek, including opportunities to improve habitat in the Creek corridor.
City Ship Canal

The head of the City Ship Canal is owned by CSX railroad land portion. According to the Buffalo River Feasibility Study, this area has been identified as one of the Buffalo River Habitat Opportunity Areas. Although City Ship is an artificial channel, it has value as a habitat link between Lake Erie coastal and Buffalo River habitats, especially for waterfowl and fish in need of nesting and resting places. Native shoreline and aquatic vegetation has naturalized the western edge of the canal, south of the active industrial area. Buffering, removal of debris and slag piles from the eastern bank and sediment remediation would increase the habitat value of the canal. Numerous fish species have been observed at the head of the City Ship Canal, including largemouth bass, rock bass, crappie, bullhead, carp, redhorse, sunfish, and goldfish.

Ohio Street/Dead Creek

One of three projects completed under the 1996 Buffalo Fish and Wildlife Habitat Restoration Demonstration Project, this project established fish-spawning habitat and improved passive fishing access at Dead Creek on Ohio Street. The site is owned and managed by the New York State Department of Environmental Conservation and is maintained by the City of Buffalo Parks department.

Fish species observed at this location include largemouth bass, small mouth bass, rock bass, and sunfish. There is abundant fishing along this stretch in areas with natural and unnatural cover/overhanging vegetation.

This remnant “canal” once connected the Buffalo River to what is now “Father Conway Park”. The parcel now still functions as a combined sewer overflow (CSO outfall). Due to Buffalo River flow and deposition patterns, significant debris has accumulated along the eastern shore of the River at the site. The New York State DEC has identified a large freshwater bryozoan colony, characteristic of unpolluted, unsilted ponds and streams, at the site.

Katherine Street Peninsula

This 4.8-acre parcel features almost one thousand linear feet of naturalized shoreline with mature vegetation within the 100-foot floodplain.

Blue Tower Turning Basin

The Blue Tower Turning Basin located east of the foot of Katherine Peninsula at the southern end of Concrete Central Peninsula is named for the blue Buffalo River Improvement Corporation (BRIC) water tower located to the south. The shoreline in this area of the River is natural with overhanging vegetation. Due to Buffalo River flow and deposition patterns, significant debris has accumulated along the eastern shore of the River at the site. The New York State DEC has identified a large freshwater bryozoan colony, characteristic of unpolluted, unsilted ponds and streams, at the site.

Concrete Central Peninsula (CCP)

Because of its isolation, Concrete Central Peninsula has remained relatively undisturbed. Located within the 100-year floodplain, CCP has been identified in Buffalo River greenway plans and by USACE as a “refuge for species not generally expected in an urban ecosystem” including peregrine falcon, snapping turtle, painted turtle and leopard frog.”
Red Jacket Riverfront Park (also known as the Smith Street Recreation Site)

Red Jacket Riverfront Park is 44 acres of open space located at the end of Smith Street, including 7 acres owned and maintained by Erie County. One of three projects completed under the 1996 Buffalo Fish and Wildlife Habitat Restoration Demonstration Project, wetlands reconstruction, habitat restoration, invasive species management and passive public access facilities were created at Red Jacket Park.

The park was formerly the site of parking areas for the employees of Concrete Central. Bought by Erie County in the 1990s, the site was remediated and turned into the open space park that exists today. The park includes a series of nature trails with benches that guide visitors through the various ecosystems present within the park. These include marshlands, forests, meadows and the riparian corridor of the Buffalo River. The park also includes murals painted on an old concrete wall along Smith Street, a fishing pier at the terminus of Smith Street, a canoe/kayak launch area, several parking areas for visitors and river overlook areas.

Buffalo Color Peninsula

The Buffalo Color Peninsula site is located on the northern bank of the Buffalo River, between River Mile 4.5 and 5.0. In 1997, Honeywell Corporation implemented the following measures to address contamination on the site: 1) installation of a slurry wall surrounding the entire site to isolate groundwater; 2) removal of wastefill from outside of the slurry wall, including sediment from the river bank; and 3) stabilization of the excavated river bank using riprap, geotextile liner, or concrete extending out to near the navigation channel dredge limit. Since the site has been remediated, upland grassland habitat has become established.
Babcock Street/Exxon Mobil Former Terminal

The site is 90 acres in size and located on Elk Street in the City of Buffalo. The site is bisected by Babcock Street running north-south and Prenatt Street, which is a paper street, running east-west. The goal of the voluntary brownfield cleanup action for the site is to achieve cleanup levels that protect public health and the environment. In addition to contamination management the project will involve: riverbank stabilization and vegetation to prevent contaminated fill from eroding into the Buffalo River; and the construction of a treatment wetland to manage storm water on site.

Riverbend

The Riverbend habitat restoration site is comprised 4,320 linear feet and 9.8 acres of shoreline area located at the RiverBend Commerce Park property. The RiverBend site provides one of the longest stretches of undeveloped shoreline in the Buffalo River Area of Concern and was identified in the 1989 Buffalo River RAP as a high priority restoration “Habitat Restoration Opportunity Area” site.

Buffalo Niagara Riverkeeper (now known as the Buffalo Niagara Waterkeeper) received grant funding from the US Environmental Protection Agency and the National Oceanic Atmospheric Administration to complete a riparian habitat restoration project on the site. Riverbank enhancements include the planting of native trees and vegetation for habitat as well as invasive species removal.

Old Bailey Woods

The Old Bailey Woods site, near the confluence of the Buffalo River and Cazenovia Creek, is a large wooded lot that is used by local residents for fishing and passive recreation. This 3.1-acre lot, which is the only floodplain forest in the City, was designated as a passive park under a settlement agreement associated with the development of the Iron Mountain Records facility, east of the site. There is an internal dirt path that allows access to this property from either Payson Street or Bailey Avenue.

Bailey Avenue Peninsula (Confluence Point)

One of three projects completed under the 1996 Buffalo Fish and Wildlife Habitat Restoration Demonstration Project, habitat restoration, invasive species management and passive public access facilities were created at Confluence Point Park at the confluence of Cazenovia.
Creek and the Buffalo River. This 3.8-acre Erie County-owned and maintained site provides walking trails, scenic overlooks of the Buffalo River and interpretive signage. The site is used heavily for fishing by local residents and also offers several scenic vistas with benches.

- **Seneca Bluffs**

  Seneca Bluffs Natural Habitat Park is a designated Erie County wetlands restoration area located at the Seneca Street Bridge, between Elk Street and Avon Place. It consists of 15 acres of riparian floodplain located in a heavily urbanized area along the Buffalo River. Habitat types include floodplain island, seasonally flooded wetland, forested floodplain, and upland meadow, along with 2,500 feet of shoreline. Migratory birds, wading birds and waterfowl make use of this site. Challenges include the domination of approximately 85 percent of the site by invasive and non-native plants and areas of shoreline that are actively eroding.

  The City owns a small number of undeveloped street right-of-ways that extend toward the river immediately upstream of Seneca Bluffs. These include Avon Place and the terminus of Leamington Place, Avondale Place and Juniata Place. This area is submerged when melting snow increases the flow and subsequent water level in the Buffalo River.

- **Houghton (Stachowski) Park to City Line**

  From Bailey Avenue east to the City line, including substantial City-owned acreage at Houghton Park, the north shore of the Buffalo River is characterized by forested floodplain, emergent wetland habitat and upland grassland areas.

- **Buffalo School Sites along the Buffalo River**

  Public school properties at Southside Elementary, Red Jacket Elementary and South Buffalo Charter School are located adjacent the Buffalo River and contain woodland, grassland and important shoreline habitat resources.
Bell Slip/100 year floodplain/ Outer Harbor Shoreline

The 2,300 linear feet of shoreline at the Outer Harbor Bell Slip was enhanced as part of the $13.5 million Outer Harbor Greenbelt project. Improvements included soil remediation, installation of new stone revetment and slope embankment to prevent erosion, landscaping, construction of shallow water habitat supportive of fish spawning, and installation of bio-engineered compost to support vegetation and attract wildlife. Substantial portions of the vacant land north of the Ford Terminal Complex on the Outer Harbor are within the 100-year floodplain and serve as natural protective features.

Ship Canal Commons

As part of the wildlife habitat improvements at Ship Canal Commons, large tree trunks were weighted and placed on the bottom of the Union Ship Canal and partially buried in an underwater stabilization berm, with the roots exposed, to create artificial reefs. Floating rafts of willow logs also provide cover for fish. A one-half acre portion of the site, adjacent to the northwest corner of the canal, was excavated to create a small marsh where native aquatic plants were placed.

5. Niagara River Habitat Conservation Strategy

Completed by the Buffalo Niagara Riverkeeper (now known as the Buffalo-Niagara Waterkeeper) in 2014, the Niagara River Habitat Conservation Strategy (NHCS) identifies critical habitats and priority actions for the 900,000-plus acre Niagara River watershed. The NHCS provides a regional blueprint for habitat restoration and conservation, identifying key opportunities to positively impact water quality.

D. Fish Resources

While no commercial fisheries are known to exist on Lake Erie in New York, Lake Erie remains the largest freshwater commercial fishery in Canada, and one of the most valuable freshwater commercial fisheries in the world. In 2011, the Lake Erie commercial fishing industry caught nearly 22 million pounds of fish worth $28 million, much of which were sold to food stores and restaurants in Ontario, the U.S. and around the world. The total value of Lake Erie’s commercial fishery was $194 million in 2011.

Within the Buffalo LWRA, Lake Erie and Niagara River are home to several sport fishing charter businesses, bait shops, numerous shoreline fishing sites with large numbers of residents, including the City’s growing immigrant communities, relying upon locally caught fish as a source of protein.

There is an abundance of fishery resources in the LWRA, including both native and non-native species. Native species found in Lake Erie and the Upper Niagara River include: largemouth and smallmouth bass, yellow perch, walleye, northern pike, muskellunge, rock bass, sheepshead, smelt, emerald shiners and lake sturgeon. In general, the potential for overfishing is not considered to be a problem; however, catches of certain highly-sought species, such as muskellunge, walleye or steelhead, under certain conditions, may pose concerns for anglers and fisheries managers.

NYSDEC’s management of Lake Erie fishery resources includes a component focused on providing steelhead and rainbow trout fishing opportunities, particularly in the major tributaries. Approximately 250,000 steelhead are stocked annually in selected New York tributaries
of Lake Erie, including about 45,000 in the Buffalo River system. Steelhead are stocked in early spring, usually April, in Cayuga Creek, Cazenovia Creek and the Buffalo River in order to imprint the young so they will return to these streams when they mature. Since 2005, a portion of steelhead have been stocked into holding pens in the Buffalo River at the Bison City Rod and Gun Club to improve survival and imprinting. The fish are held for about three weeks, fed, monitored, measured and released by volunteers.

The Buffalo River has a long history of significant environmental degradation. There are numerous reports describing a variety of factors related to the degradation, including impacts upon aquatic resources. There have also been substantial improvements in the fish community in recent decades. Many of the fish species expected to be found in this type of habitat are present, although abundance of many highly desirable native fish species, such as smallmouth bass, walleye, northern pike, and muskellunge, is low. There are many limitations to achieving a fully-recovered fish community in the Lower Buffalo River. They include physical factors such as lack of shallow areas, excessively high surface water temperatures, seasonal low flows, lack of natural shoreline, lack of underwater cover, and poor condition of bottom sediments. Important chemical limitations include episodes of dissolved oxygen depletion and contaminated sediments. Reduced areas of aquatic vegetation, associated wetlands and contiguous shoreline vegetation are biological factors that have been identified as problematic for fish populations.

During 2003, NYSDEC, in cooperation with an advisory group, initiated a walleye restoration project for the Buffalo River. The objective of the project is to establish a self-sustaining, riverine walleye population in the Buffalo River. This project could potentially develop a seasonal walleye fishery in the Buffalo River and enhance walleye fishing in the Buffalo Harbor. A successful spawning population of walleye in the Buffalo River would diversify walleye reproduction in Lake Erie, helping to ensure more consistent walleye recruitment in Lake Erie. From 2004 to 2007, approximately 76,000 walleye fingerlings and approximately 419,000 walleye fry have been stocked into the Buffalo River, in anticipation that stocked fish would survive and return as adults to spawn. Unfortunately, in 2007, NYSDEC fish disease policy to contain the spread of viral hemorrhagic septicemia (VHS), caused a suspension of the stocking program, and it is hoped that the stocking program can be continued once disease related issues are resolved. In 2008, DEC conducted follow-up walleye sampling activities in the Buffalo River since this was the first year that both males and females of the 2004 stocking cohort would be fully mature and perhaps detectable as a spawning concentration. No adult walleye were detected during this sampling effort; however, additional effort will be expended in the future to monitor success of the stocking activities.

A most notable aquatic resource in the LWRA is the presence of emerald shiners, a small, silvery minnow found in great abundance on a seasonal basis. Large numbers of shiners, a native species, are found in the Buffalo Harbor, Buffalo River and Upper Niagara during late winter, spring and early summer. The adult emerald shiners migrate in association with ice flows from Lake Erie into the Niagara River. This species is an important food item for many of the fish-eating birds and predatory fish found in the system. These abundant minnows are also a staple of the local baitfish industry. However, the importance of locally caught shiners has diminished greatly since 2006/2007 when Federal and State fish disease regulations were implemented to control the spread of VHS. Prior to that time, large numbers of emerald shiners were commercially dipped from the Niagara River for local sale, as well as transport to other bait dealers in New York and other northeastern states.

Protection of emerald shiners and their migratory corridor is important. Each year during late summer and fall, millions of young shiners migrate upstream, against the current, from the Niagara River to Lake Erie where they grow to adults. In the river, these very small, young minnows have limited swimming capabilities and they swim along the shoreline of the River, taking advantage of areas where current velocities are reduced by rocks and other cover. In the vicinity of the Peace Bridge, where current velocities are very fast, habitats conducive to migrations are very limited, especially where there are long stretches of smooth, vertical concrete or metal structures.
The Buffalo LWRP policies aim to help rebuild the Lake Erie-Niagara River food web, supporting sport and subsistence fishing in the short term and contributing to the long term restoration of sustainable commercial fishing in NY’s Lake Erie waters.

1. Fish Consumption Advisories

While commercial fisheries do not exist in Buffalo, many people, including many members of the City’s growing immigrant community, rely upon fish consumed from the Buffalo and Niagara Rivers in Buffalo as a primary protein source. Unfortunately, fish from fresh waters are more likely to be contaminated than fish from remote marine waters because many fresh waters are close to human activities and contamination sources. When those fishing locations contain fish with higher contaminant levels, the people who eat them will have higher contaminant exposures.

For many years, the New York State Department of Health has issued fish consumption advisories for both the Buffalo and Niagara Rivers within the Buffalo LWRA. The warnings are designed to protect public health until the contamination is removed from the food chain and fish are safe to eat.

Buffalo Niagara Riverkeeper (now known as the Buffalo Niagara Waterkeeper), Jericho Road Ministries, and the New York State Department of Health have partnered to educate residents of Western New York on the risks of eating polluted fish from local waterways through outreach and events. The program has produced innovative and simplified public health materials in numerous languages and has conducted extensive outreach to at-risk communities who depend on local fish as a food source.

F. Niagara River Corridor “Globally Significant” Important Bird Area

The function of the BirdLife Partnership’s Important Bird and Biodiversity Area (IBA) Program is to identify, protect and manage a network of sites that are significant for the long-term viability of naturally occurring bird populations, across the geographical range of those bird species for which a site-based approach is appropriate. The Niagara River corridor was the first globally significant IBA to be jointly identified by cooperating organizations in Canada and the United States. It was formally dedicated in December 1996.

The Niagara River annually supports one of the largest and most diverse concentrations of gulls in the world. More than 100,000 individuals can be observed foraging along the river during fall and early winter. A total of 19 gull species have been recorded (60% of all New World gull species), with up to 14 species being recorded on a single day. The number of gulls and diversity of species generally peak in November. Two species occur in globally significant numbers: Bonaparte’s Gull and Herring Gull.

During fall and early winter 10,000 or more Bonaparte’s Gulls can regularly be observed along the river (over 2% of global population). Peaks of more than 40,000 individuals have been observed on several occasions (1973, 1977, 1990, 1991) representing over 8% of the global population. Over the course of the fall and early winter season up to 100,000 birds have been estimated to pass through this site (over 20% of the global population).

Herring Gulls are also abundant; 20,000 or more individuals can be observed regularly with a maximum of 50,000 individuals being reported on a single day. This represents the regular occurrence of almost 6% of the North American Herring Gull population (ssp. smithsonianus) with upwards of 14% of the population being reported on a single day. The national threshold for Ring-billed Gulls is also regularly exceeded during spring migration.

Waterfowl concentrations during fall and winter also regularly exceed 20,000 individuals of more than 20 species. At least two species (Canvasbacks and Common Mergansers) are regularly present during late fall and early
winter in numbers just above 1% of their estimated North American populations; Greater Scaup are occasionally present in significant numbers, and Common Goldeneyes are regularly present in numbers approaching the 1% threshold.

Due to the regional geography, large numbers of migrating raptors and landbirds cross the river during migration. Normally they do not stop in large numbers along the river corridor. Some specific sites along the river corridor are also significant for colonial nesters such as Black-crowned Night Herons, Common Terns, and Ring-billed Gulls.

G. Invasive Species

According to the US EPA:

During the past two centuries, invasive species have significantly changed the Great Lakes ecosystem. In turn, the changes have had broad economic and social effects on people that rely on the system for food, water, and recreation.

An “invasive species” is a plant or animal that is non-native (or alien) to an ecosystem, and whose introduction is likely to cause economic, human health, or environmental damage in that ecosystem. Once established, it is extremely difficult to control their spread.

At least 25 non-native species of fish have entered the Great Lakes since the 1800s, including round goby, sea lamprey, Eurasian ruffe, alewife and others. These fish have had significant impacts on the Great Lakes food web by competing with native fish for food and habitat. Invasive animals have also been responsible for increased degradation of coastal wetlands; further degrading conditions are resulting in loss of plant cover and diversity.

Non-native mussels and mollusks have also caused turmoil in the food chain. In 1988, zebra mussels were inadvertently introduced to Lake St. Clair, and quickly spread throughout the Great Lakes and into many inland lakes, rivers, and canals. Since then, they have caused severe problems at power plants and municipal water supplies, clogging intake screens, pipes, and cooling systems. They have also nearly eliminated the native clam population in the ecosystem.

The spiny water flea (Cercopagis pengoi) was the most recent species to enter the Great Lakes. This organism, a native of Middle Eastern seas, is a tiny predatory crustacean that can reproduce both sexually and, more commonly, parthenogenetically (without fertilization). This allowed them to quickly populate Lake Ontario.

The Great Lakes have also been troubled by fast-growing invasive plants such as common reed (Phragmites australis), reed canary grass (Phalaris arundinacea), purple loosestrife (Lythrum salicaria), curly pondweed (Potamogeton crispus), Eurasian milfoil (Myriophyllum spicatum), frogbit (Hydrocharis morsus-ranae), and two types of non-native cattails (Typha angustifolia and Typha glauca).

Some of these plants are prolific seed producers, which allows them to spread rapidly over large areas. Invasive purple loosestrife, for example, are 2-3 meters tall and can produce 2.7 million seeds each year. Others reproduce from fragments of root or rhizome, which hinders removal and control. All have become established quickly in the Great Lakes, displacing the native plant populations that support wildlife habitat and prevent erosion. Their prevalence in recreational waters also hinders swimming and boating.

In the St. Lawrence River, studies have found that disturbances by boat or fish may facilitate the spread of common reed, a very persistent invasive plant. Dense beds of common reed may threaten local fish and bird habitats.

To prevent and control additional invasions in the Great Lakes, coordinated efforts are under way by U.S. and Canadian governments, eight state governments, two provincial governments, and regional and local programs. Invasive species management is identified in the NY Great Lakes Action Agenda.

Thirty percent of invasive species have been introduced in the Great Lakes through ballast water. In the early 1990’s, the U.S. Coast Guard began requiring ships to exchange their ballast water, or seal their ballast tanks for the duration of their stay. The Coast Guard later used their success in the Great Lakes to develop a ballast management program for the entire nation. Currently, the Coast Guard is in the process of developing ballast water discharge standards.
Lake Erie has been designated a No Discharge Zone by both the US EPA and the New York State Department of Environmental Conservation.

Based on the problems caused by non-native species, scientists are also closely watching other species that have invaded nearby ecosystems. Asian carp are of particular concern because they have been found in nearby waterways that eventually connect to the Great Lakes. In 2004, EPA and other state and local agencies began construction of a permanent electric barrier to prevent the fish from entering Lake Michigan.

H. Great Lakes Areas of Concern (AOCs)

The Buffalo and Niagara Rivers have been identified as two of 43 toxic hot spots on the Great Lakes that have been designated by EPA and the International Joint Commission (IJC) as “areas of concern”. An AOC is a place that is so heavily polluted by raw sewage, contaminated sediments, invasive species, and habitat and wetland destruction that the damage threatens the ecosystem, the economy, water quality and the health of the community. The Buffalo and Niagara Rivers, their sediments and nearshore areas have been impaired by over a century of industrial activities and municipal waste discharges. Contamination of the river channels continues today from upstream non-point sources, CSO discharges, and historic contaminates contained in river sediments and riverfront brownfields.

The Niagara River AOC is located in Erie and Niagara counties in western New York. This AOC extends from Smokes Creek near the southern end of the Buffalo Harbor, north to the mouth of the Niagara River at Lake Ontario. Past municipal and industrial discharges and waste disposal sites have been a source of contaminants to the Niagara River. A long history of development has also changed the original shoreline along much of the river, affecting fish and wildlife habitat. Habitat degradation and the survival of aquatic life in this AOC have been impaired by toxic chemicals, such as PCBs, mirex, chlordane, dioxin, dibenzofuran, hexachlorocyclohexane, PAHs, and pesticides. Fish migration from Lake Ontario has an influence on the Niagara River community, as does the related affects of invasive species. Metals and cyanides in the sediment prevent open lake disposal of bottom sediments dredged from the river. Sources and loadings of pollutants causing use impairments in the Niagara River include these sediments, as well as inactive hazardous waste sites, CSOs, and other point and nonpoint sources. Contamination originating from discharges within Lake Erie’s watershed contributes to effects in the Niagara River and Lake Ontario.

The Buffalo River AOC is located in the City of Buffalo. The river flows from the east and discharges into Lake Erie, near the head of the Niagara River. The Buffalo River “impact area” extends from the mouth of the Buffalo River to the farthest point upstream at which the backwater condition exists during Lake Erie’s highest monthly average lake level. The impact area is 6.2 miles in length. The AOC also includes the entire 1.4-mile stretch of the Buffalo Ship Canal, located adjacent to the river. The AOC impact area is characterized by historically heavy industrial development in the midst of a large municipality. There are three major streams in the watershed that create the AOC “source area”: Cayuga Creek, Buffalo Creek and Cazenovia Creek. The total drainage area for the Buffalo River watershed is approximately 440 square miles.

To address these problems, NYSDEC, in conjunction with the Buffalo Niagara Riverkeeper (now known as the Buffalo Niagara Waterkeeper) and citizen advisory committees, prepared Remedial Action Plans (RAPs) for the Buffalo River in 1989 and the Niagara River in 1994. The RAPs, and subsequent updates, identified Beneficial Use Impairments (BUI) for each river, set forth by the IJC, as well as plans to remediate the impairments.
<table>
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<tr>
<th>IJC’s Beneficial Use Impairments</th>
<th>Buffalo River AOC Status (as of 2011)</th>
<th>Known or Likely Cause</th>
<th>Niagara River AOC Status</th>
<th>Known or Likely Cause</th>
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<td>1 Restrictions on Fish &amp; Wildlife Consumption</td>
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<td>PCB’s and chlordane in sediments</td>
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<td>PCB’s and chlordane in sediments</td>
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<td>PAHs in sediment</td>
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<td>Low dissolved oxygen, river channelization, and contaminated sediments</td>
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<td>PCBs, DDT, and metabolites in sediments</td>
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<td>13 Degradation of Phytoplankton and Zooplankton Populations</td>
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<td>Physical Disturbances such as bulkheading, dredging, sleep slopes, and lack of suitable substrate</td>
<td>Impaired</td>
<td>Physical disturbances and low water quality</td>
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III. HARBOR MANAGEMENT

A. “Port of Buffalo”

1. Port Functions

Historically, Buffalo’s location at the terminus of the Erie Canal, extensive railway system and major manufacturing facilities resulted in tremendous port activity. In 1845, almost 100,000 passengers travelled from the City of Buffalo to Detroit, Chicago and other Great Lakes ports.

However, the opening of the St. Lawrence Seaway in 1957, the decline of the City’s manufacturing base and the rise of automobile transportation dramatically reduced Buffalo’s port activities.

Today, within the Buffalo LWRA, remnants of the City’s former cargo port remain as the grain elevators continue to rely upon waterborne cargo. Water-based cargo facilities are also available at the City’s Ford Terminal Complex. Commercial and recreational boating exists throughout the City’s waterfront.

The LWRA continues to serve as an important rail freight hub with major rail facilities located south of the Buffalo River. However, waterborne cargos to rail transfers are limited.

The Department of Homeland Security Customs and Border Patrol also manages three international entry points within the LWRA:

- the Peace Bridge passenger and truck entry;
- the International Railroad Bridge rail freight entry; and
- the Erie Basin Marina Outlying Area Reporting Station for boaters.

2. Port Authority

In 1956, the State of New York and United States Congress created Public Law 834 Chapter 758 to create the Niagara Frontier Port Authority to take over, maintain and operate the Peace Bridge over the Niagara River. In addition to the Peace Bridge, the Niagara Frontier Port Authority purchased the Ford Terminal Complex on the City of Buffalo Outer Harbor from the Ford Motor Co. in 1962.

In 1967, the Niagara Frontier Transportation Authority was created under Public Authority’s Law to continue, develop and improve transportation services, including marine transportation facilities, within the region. The enabling legislation defined the Niagara Frontier Port Authority as a subsidiary corporation of the NFTA and all of the Port Authority’s properties were controlled by the NFTA.

In February 2014, the NFTA transferred land that now is associated with Buffalo Harbor State Park and the Seaway Pier parcels to the Erie Canal Harbor Development Corporation, (ECHDC) an Empire State Development Corporation subsidiary. Subsequently, in 2016, the NFTA transferred the Ford Terminal Complex property to the ECHDC.

The NFTA, and its subsidiary the Niagara Frontier Port Authority, retain continued authorization to develop new marine transportation facilities and services under its enabling legislation.

3. Buffalo Harbor Master and Harbor Management

The City of Buffalo Code Chapter 495 addresses the operation of wharves, harbors and bridges in the City of Buffalo. Chapter 495 Article 2 creates the position of Harbormaster with responsibility to supervise and control harbor operations and enforce the laws of Chapter 495. A full copy of Chapter 495’s provisions is included in Appendix F, City of Buffalo Harbor Management Plan.

Chapter 299 -11 of the Buffalo Code regulates personal conduct in watercraft.

B. Navigation Channels and Canals

The City of Buffalo LWRA contains four navigation channels, two canals and a river system that essentially comprise the Buffalo Harbor complex (Map 12). These waterways are described below, from north to south.

1. Black Rock Canal & Channel

Due to the strong currents in the Niagara River, the Black Rock Canal was built to allow safe navigation between the Buffalo Harbor and Tonawanda. The Black Rock Canal lies adjacent to the western shoreline of Buffalo and is formed by a breakwater that separates it from the Niagara River. The breakwater ends at the southern tip...
of Bird Island, which then extends the canal northward to the United States Army Corps of Engineers’ (USACE) lock at the northern end of Unity Island.

The Black Rock Canal is 3.5 miles long and its navigation channel is at least 200 feet wide at all points. Water levels in the canal are controlled by the lock with an average depth of the 22 feet. The lock and channel accommodate both pleasure and commercial vessels up to 625 feet in length, with drafts up to 21 feet. Flow in the canal can occur in either direction.

The Black Rock Canal entrance channel, which is located just north of the Erie Basin Marina, converges with the entrance channel to the Buffalo River and the northern channel for the Outer Harbor. The canal entrance channel also provides access to the Erie Basin Marina. This entrance channel is about 1,000 feet wide and approximately 23 feet deep at its junction with the other navigation channels.

There is a special anchorage area in the southern portion of the Black Rock Canal, off shore of the Colonel Ward Pumping Station. This anchorage area is afforded protection by the Bird Island breakwater that extends around the entrance to the canal. In the event that two boats wish to use the canal, commercial freighters or other commercial vessels have the right-of-way. Smaller recreational vessels can use the anchorage area to maneuver out of the navigation channel and moor temporarily. The water in this special anchorage area is generally two to four feet deep, with a large volume of silt collecting along the seawall.

There has been a lock at Black Rock since 1833, when the State of New York built one as part of the Erie Canal. The present lock, which was constructed by the USACE between 1908 and 1913, provided the capacity to accommodate large Great Lakes vessels. The lock is 650 feet long and 70 feet wide.

The Black Rock Canal is crossed by two drawbridges and one fixed bridge. The International Railroad Bridge is located at the northern end of the canal and extends across the canal and the Niagara River. The section that extends over the canal is a swing bridge that carries two railroad tracks, a single travel lane for motor vehicles, and a pedestrian/bicycle pathway. This bridge has a horizontal width of 162 feet and vertical clearance of 17 feet. The portion of the bridge that crosses the Niagara River is fixed, with a vertical clearance of 22 feet and a horizontal width of 154 feet.

There is a bascule drawbridge located near the southern end of Unity Island, at the foot of West Ferry Street. The clearance beneath this bridge, when not raised, is 17 feet and the horizontal width is 149 feet. This bridge supports two travel lanes for motor vehicles and a pedestrian/bicycle pathway. The Peace Bridge crosses the canal at the head of the Niagara River. The vertical clearance is 100 feet and the horizontal width is 200 feet on the eastern side of the bridge, over the canal; the western extent along the Canada shoreline has a vertical clearance of 83 feet and a horizontal width of 385 feet.

The Black Rock Canal is heavily used by recreational boaters, and to a lesser extent, commercial shipping vessels that deliver fuel oil, coal and gasoline to refineries and power plants in Tonawanda. Pleasure craft are required to yield to commercial vessels because of the confined waters of the channel. The low level of freighter traffic in the canal allows it to be used the West Side Rowing Club and for rowing training and competition programs from March through October.

2. Buffalo Harbor Complex

Buffalo Harbor is a deep draft commercial harbor. It is protected by 4.5 miles of breakwater structures. The harbor complex includes a series of authorized federal navigation channels design and maintained so that deep draft commercial vessels can safely move through the harbor.

The north entrance channel of Buffalo Harbor provides navigable access from the open waters of Lake Erie to the Buffalo Harbor complex and canals. The north entrance channel is located west of the Outer Harbor. It is approximately 750 feet wide and 25 feet in depth. This is the primary means of ingress and egress from Lake Erie.
to the Buffalo River, the canals and the Outer Harbor channel.

The Inner Harbor is situated between the south end of the Erie Basin Marina and the northern extent of the Outer Harbor and provides access to the Buffalo Ship Canal and the Buffalo River. The Inner Harbor channel varies in width from a minimum of approximately 40 feet to 750 feet; the average channel depth is approximately 22 feet. The NYS Route 5 (Skyway) fixed bridge traverses the mouths of the Buffalo Ship Canal and Buffalo River, just south of the Inner Harbor channel. The vertical clearance beneath this structure is 100 feet and the horizontal width is 215 feet.

The Outer Harbor has three navigation channels: the north, the middle, and the south channels. The north channel is approximately 40 feet from the shoreline and 1000 feet wide. The Outer Harbor middle channel narrows to a width of 500 feet in two locations to accommodate an anchorage area and the Outer Harbor turning basin. The channel widens again to 1000 feet along its southern segment, to a point at the end of the Outer Harbor seawall, where it converges with the south entrance opening. This entryway is only 500 feet wide. Directly east of the south entrance is the Union Ship Canal. This 0.7-mile canal is 20.5 feet deep, with a 250 feet wide channel. The canal is crossed by NYS Route 5 via a fixed bridge with a vertical clearance of approximately 105 feet as well as a lower pedestrian bridge.

Vessel use along these waterways is a combination of commercial freighter traffic and recreational boating. The majority of vessel traffic entering the Outer Harbor navigation channel does so through the south entrance, which is located near the boundary between the City of Buffalo and the City of Lackawanna.

Recreational boaters use this entrance to access Lake Erie and the Seneca Shoal, a very popular fishing spot located southwest of the LWRA further out in Lake Erie. Another popular and widely used fishing spot is Fish Haven, located due west of the Outer Harbor within the LWRA. The game fish found in this area include a wide range of species native to the Great Lakes, including lake sturgeon, muskellunge, walleye, lake trout, and smallmouth bass.

3. Buffalo Ship Canal

The Buffalo Ship Canal extends 1.3 miles southward from the Inner Harbor channel. It is approximately 250 feet wide and 22 feet deep. This channel provides docking access to the industries and marinas that are located along the shorelines of Kelly Island and the Outer Harbor.

4. Buffalo River

The Buffalo River navigation channel is maintained by the USACE to an average depth of 23 feet at the mouth of the river and 19 feet further upstream. The channel extends up the Buffalo River 6.2 miles.

The Buffalo River is crossed by three fixed bridges: the NYS Route 5 overpass, Bailey Avenue and Seneca Street. Cazenovia Creek is served by fixed bridges at Bailey Avenue, Southside Parkway, Stevenson Street, Cazenovia Street and Cazenovia Parkway. There are seven drawbridges that cross the Buffalo River, including lift bridges that carry traffic over South Michigan Avenue, Ohio Street and South Park Avenue, and four bascule bridges that provide railway access over the river.

Commercial vessels travelling into the Buffalo River are generally associated with the Great Lakes Tug Company, New York Power Authority (NYPA) Ice Boom site and grain and concrete elevators. The average number of freighters using the Buffalo River ranges from between 115 and 140 vessels per year. These ships navigate the Buffalo River at speeds around two miles per hour.
Increasingly, the Buffalo River is being used for small water craft, including canoeing, kayaking and activities associated with the Buffalo Scholastic Rowing Association.

5. Channel Maintenance

The USACE is authorized to maintain Buffalo federal navigation channels, including the 6.2 miles of the Buffalo River and 1.4 miles of the Buffalo Ship Canal to an authorized depth of 22 feet below low water datum (LWD).

The USACE conducts an annual survey of the federal navigation channels to determine which areas require dredging. Routine operation and maintenance dredging is typically conducted every two to three years. Due to funding limitations, only portions of these channels can be dredged in areas where shoals substantially impede commercial navigation, resulting in a buildup of sediment in the channels.

The USACE reports that the Outer Harbor requires no regular dredging or other maintenance but that increased traffic through the North entrance channel in the future may necessitate such activity to provide the necessary draft. The South entrance channel is deep enough to handle current recreational boating traffic. The harbor was last dredged in 2008, when 78,000 CY of sediment was removed. There are no plans to dredge for the near future.

Dredged sediment that is removed from Buffalo waterways is placed in Confined Disposal Facility #4, a 107-acre site, adjacent to the former Bethlehem Steel site which was constructed by the USACE in 1972 for the placement of material that is unsuitable for open-lake placement in Lake Erie. Material dredged by non-USACE entities from other areas is periodically placed in the CDF with USACE approval.

C. Breakwaters

The USACE maintains several breakwaters in the LWRA that provide protection for the Buffalo Harbor and Black Rock Canal. These include:

- Bird Island Pier (also known as Nowak Pier), a one and a half-mile long stone dike that parallels the shoreline separating the Black Rock Canal from the Niagara River. The Pier is constructed of mortared riprap and stone revetment. The Bird Island Pier is replaced by a concrete breakwater, which extends further south beyond the Peace Bridge. This breakwater protects the entrance and southern portion of the Canal;
- Donnelly’s Wall, a half-mile long concrete wall and lighthouse facility located northwest of the mouth of the Buffalo River;
- North End Light breakwater, a 500-foot long concrete wall located due west of the Buffalo River;
- West breakwater, a concrete barrier that is situated further south and west of the North End Light structure; and
- Outer Harbor breakwaters, which consist of two long concrete walls that provide protection for the Outer Harbor navigation channel.

D. Aids to Navigation

The entrance channels and canals in the LWRA are marked by navigational buoys, shoreline lights, a lighthouse and breakwater lights maintained by the Coast Guard (Map 12). Red and green colored buoys mark the length of the Black Rock Canal, from the lock to the Erie Basin Marina. These buoys are placed at close intervals along
the mainland side of the Canal. In addition, there are two lights that flash at synchronized intervals to alert vessels of the nearby shore. There is also a navigation light located on top of the Massachusetts Avenue Pump intake on the Niagara River and a light on top of the Colonel Ward pumping station water intake to alert boaters of their presence. The north and south entrance channels to the Outer Harbor are marked by lights. The Buffalo Main Harbor Lighthouse is located on the breakwater, which is situated west of the north entrance to the Outer Harbor channel.

E. Water Dependent Industrial Uses

Once the predominant use along the City’s waterways, waterborne industrial transport has dramatically declined. Still, the ability to ship bulk good remains essential to the following important ongoing Buffalo industries:

- General Mills (water borne bulk materials delivered via the City Ship Canal);
- ADM (water borne bulk materials delivered via the Buffalo River);
- LaFarge (bulk cement delivered via the Buffalo River);
- Port Crescent Land Company (bulk sand delivered via the City Ship Canal); and
- Bulk material delivery associated with the Child’s street grain elevator complex.

Because the City is located on an international border, the Department of Homeland Security works closely with the above entities to ensure all sites meet border security regulations.

F. Marinas, Mooring Areas and Boat Launches

1. Public
   
a. A public boat launch is located at the terminus of Ontario Street and is open year round, although waters around the launch typically freeze between December and April;

b. The outer shoreline of Unity Island, facing the Niagara River, has iron bollards along the bulkhead. This bulkhead is no longer used for mooring due to the swift current.

c. In the Black Rock Canal, between the Black Rock Canal lock and the shoreline, there is a single-vessel mooring area where the USACE stores its tugboat during the winter;

d. The Great Lakes Marine Research Center at Cotter Point, administered by the State University of New York College at Buffalo, has a wet side dock and a dry dock for research vessels. The laboratory also utilizes an iron barge, which is secured along the Black Rock Canal shoreline, south of Unity Island, for vessel docking;

e. The entire shoreline of LaSalle Park, situated on the mainland at the head of the Canal, is protected by a concrete bulkhead that provides iron bollards for docking;

f. Erie Basin Marina is owned by the City of Buffalo, and leased to an operating company that is responsible for maintenance. The Marina operates 400, 20 to 40 foot long boat slips and a boat launch from May through October. This facility has electric and water hook-ups, a pump-out station, fuel dock, fishing supplies and marine hardware, showers, a restaurant and concessions. The basin is also home port for the Miss Buffalo II and the Moondance Catamaran;

g. Buffalo and Erie County Navy and Military Park. This facility includes a museum devoted to Western New York’s contributions to America’s seapower, the U.S.S. Sullivan national historic landmark, the U.S.S. Little Rock, and the U.S.S. Croaker submarine.

h. The Coast Guard maintains a small marina at the north end of the Outer Harbor for official Coast Guard vessels. There is a small park with a picnic shelter, a walking path and benches that
overlook Lake Erie and the entrance channel to the Inner Harbor. There are several scenic and historic monuments, including the Buffalo Main Lighthouse, on the northwestern corner of the station grounds;

i. Erie Canal Harbor Development Corporation (ECHDC)’s Wilkeson Point features a portable pier for fishing and canoe or kayak launching, as well as a small transient dock;

j. NYPA Outer Harbor Marina, formerly First Buffalo Marina, has approximately 100 slips, offering marine service, winter storage and transient docking;

k. The Seaway Pier has docking space for 16 vessels. Boaters can also tie up to approximately 50 metal cleats that are installed on the pier bulkhead;

l. The Ford Terminal Complex inlet has corrugated steel and concrete bulkheads that act as wharves for loading and offloading freight from commercial freighters;

m. The Buffalo Harbor State Park Marina is located on the lakeshore of the Outer Harbor. It contains 1,042 boat slips with a pump-out facility, 12 boat launches and berths for transient docking (which varies between 50 and 100 slips, depending on seasonal slip rentals), restaurant, fuel dock, marine store, a fish cleaning station, public restrooms and showers for slip holders. In addition, the Buffalo Harbor State Park Marina offers 1,500 linear feet of shoreline access, a non-motorized watercraft access ramp to the shore, a separate launch ramp for motorized personal watercraft, a 1,400-foot pedestrian boardwalk, a 144-foot fishing pier and a floating dock;

n. The Canalside Central Wharf provides transient dockage and is also home to the Spirit of Buffalo schooner;

o. City of Buffalo docks the Edward M. Cotter fireboat in the slip between the Michigan Avenue bridge at South Park and the NFTA’s DLW Terminal;

p. RiverFest Park features a 90-foot wharf that can accommodate guest boats such as tugs, fireboats, etc. The park offers 160-linear feet of portable docks for transient boaters and a 20-foot lower dock for kayak use;

q. Ohio Street Park is located on the eastern shore of the Buffalo River at the intersection of South Street and Ohio Street and is home to the NYSDEC Buffalo River Boat Launch. The launch is a designated “hand launch,” enabling visitors to explore and fish the Buffalo River by canoe, kayak or row boat. A small parking area is also located at the park, and is connected to the park through a series of small, unimproved, rock-lined trails;

r. Mutual Riverfront Park is located on the Buffalo River at the intersection of South Street and Hamburg Street. The Park includes a 20-foot kayak and canoe EZ dock. An additional 40-foot boat dock will be installed at the foot of Hamburg to accommodate the Queen City Ferry and transient boaters visiting Mutual Park and the Waterfront Memories and More Museum;

s. NYPA Ice Boom Storage Site. As part of the Niagara Hydropower Relicensing agreement, NYPA relocated its ice boom storage facility to a 10-acre site along Katherine Street in the Old First Ward. Public access to the ice boom storage facility is prohibited; and

t. RiverBend docking area. The northwest shoreline of the RiverBend property, adjacent to the Concrete Central peninsula, has corrugated steel and concrete bulkheads that can serve as wharves for loading and offloading freight.

Public ownership and the close geographic proximity of the NYPA Outer Harbor Marina, City Erie Basin Marina and ECHDC Buffalo Harbor State Park Marina creates opportunities to optimize local marina facilities and minimize public operational costs in support of the LWRA’s economic development. An opportunities analysis has been proposed as a project in the LWRP Action Strategy.
2. Private
   a. The Harbor Place Marina, which is located just south of the terminus of Ontario Street, offers transient dockage; engine, sail, and hull repair; haul out service; marine hardware; electric and water hook ups; a pump-out station; showers and restrooms; and a restaurant;

   b. Rich Marina, located at the foot of Hertel Avenue, has 500, 16 to 45-foot long boat slips; transient dockage; engine, sail, and fuselage repair; haul out service; marine hardware; electric and water hook ups; a pump out station; showers and restrooms; winter storage; as well as a launch ramp and marine supplies. Rich Marina has a concrete seawall to protect the docking area, which has iron bollards for boat docking;

   c. A small private dock with a boatlift is located on the Black Rock Canal shoreline, near the Scajaquada Expressway / I-190 Expressway interchange;

   d. The West Side Rowing Club boathouse is located on the Black Rock Canal shoreline, at Cotter Point, south of the Peace Bridge. This facility provides a launch and storage for rowing shells. Directly adjacent is the Frank Lloyd Wright Boathouse, which also provides storage for rowing shells;

   e. The Buffalo Yacht Club, located at the foot of Porter Avenue has 43 boat slips and a boatlift. This private club offers transient dockage, electric and water hook ups, a pump-out station, showers and a restaurant;

   f. The Rivermist and Gull Landing residential communities at the Erie Basin Marina offer private dock facilities for residents;

   g. Scholastic Rowing Association. The Buffalo River Rowing Center, to be completed in 2014, will provide storage for 36 eights, 24 fours and 16 pair/doubles; equipment, meeting space and indoor training facilities and 120 feet of floating dock space;

   h. Bison Rod and Gun Club. This private club offers temporary dock facilities for visiting members;

   i. The Great Lakes Tug Company utilizes the inlet on the northwest shoreline of Katherine Peninsula to dock two tugboats;

   j. The Mobil Oil Company barge dock, which is located approximately 1,500 feet northeast of the South Park Avenue lift bridge, remains intact, but is no longer used for waterborne transport;

   k. RCR Yachts, located along the western shoreline of the Buffalo Ship Canal, provides dockage for 137 boats, transient dockage, electric and water hook-ups, marine hardware, a 20-ton haul out, winter storage, and rigging, sail and engine repair; and

   l. The South End Marina, located south of Buffalo Harbor State Park, includes 6.5 acres of deep-water access on Lake Erie with a boatlift and dry dock facilities, as well as boat storage area, but does not maintain boat slips.

G Navigation Hazards

Navigation hazards within the LWRA include areas of shallow water and reefs, water intakes, submerged cables, shipwrecks and steel seawall plates and rocks (see Map 12).

The Massachusetts Avenue Pumping Station intake and the Colonel Ward intake are marked by lights, but are still considered hazards since these waters are heavily used by recreational boaters. There is an additional intake located south of Strawberry Island for the Town of Tonawanda Pumping Station and another in the inlet between the former Freezer Queen facility and the Buffalo Harbor State Park Marina on the Outer Harbor.

A shipwreck is located east of the Strawberry Island intake crib, which is situated only eight feet below the surface. There is also a shipwreck that extends above the water surface, just south of the Black Rock Canal seawall, near LaSalle Park, and another near the west breakwater. A large rock immediately north of the easternmost
pier of International Railroad Bridge, also presents a potential hazard.

There are a number of shallow reefs located in the vicinity of the intake pipe for the Colonel Ward pumping station. The average depth to these reefs is between one and three feet. An area north of the North Breakwater, known as Horseshoe Reef, presents minimum depths of less than one foot.

H. Navigation Security

The U.S. Coast Guard and the Erie County Sheriff’s Marine Division are responsible for enforcing navigation laws and vessel regulations within the LWRA. In the event of an underwater rescue, the Buffalo Police Department Underwater Recovery Team assists the Erie County Sheriff’s Office.

The Coast Guard maintains a fleet of three boats at its base on the Outer Harbor. These consist of a 47-foot motor lifeboat, a 24-foot RHI inflatable, and a 14-foot ice skiff used for ice rescues. There are 19 full-time personnel stationed at this location. The Coast Guard enforces a six-mile per hour speed limit through the Black Rock Canal and the Buffalo River, and a 10-mile per hour speed limit in the Buffalo Harbor area. This harbor speed limit is currently not posted. The Coast Guard is on duty year round to conduct emergency rescue and law enforcement activities. The Buffalo Sector has acquired a Rescue 21 system that became operational in September of 2011. The Rescue 21 is an advanced command, control and direction finding communications system for search and rescue missions. Since it went into operation, it has been used for more than 618 search and rescue cases, contributing to the rescue of 131 boaters.

The Erie County Sheriff’s office maintains a fleet of three patrol boats that are utilized for the enforcement of navigation law, for search and rescue efforts and accident investigations. The Sheriff’s Marine Unit patrols Lake Erie, Buffalo Harbor, the Buffalo River, and Black Rock Canal. The Sheriff’s use a 40-foot Twin-Screw Munsen and a Twin 424 patrol boat, which are docked at the Harbour Place Marina near the Black Rock Canal, and a Grady-White with an outboard motor that is docked at the Erie Basin Marina. The Sheriff’s Marine Division has five to six deputies assigned to these vessels annually. In addition, there are 15 reserve officers who use their own boats to assist the regular patrol boats during special details. Usually only two reserve boats are active at any time. The Erie County Sheriff’s Marine Division enforces State maritime laws within 100 feet of the shoreline. Vessels within 100 feet of the shore, any dock or pier, or any other anchored vessel may not exceed five miles per hour or exceed a reasonable and prudent operating speed, depending upon weather and traffic conditions. The Division maintains regular patrols from mid-April through mid-November, or whenever vessel traffic becomes minimal. They also conduct a dock watch program.

The Buffalo Police Department Underwater Recovery Team consists of 13 professional divers trained in swift water and ice rescues. The Team maintains a 21-foot Boston Whaler patrol boat that is docked at the Erie Basin Marina. The primary responsibility of this team is to assist the Erie County Sheriff’s Marine Division with rescue operations.
IV. WATER SUPPLY AND WASTEWATER

A. Water Supply

The City of Buffalo Water Authority (BWA) operates a public water supply system treating approximately 23.7 billion gallons of water per year with an average of 65.4 million gallons each day. The peak single day volume in fiscal year 2013-2014 was 76 million gallons of water treated. The City’s total per capita water use was approximately 84 thousand gallons per person per year. The City’s residential only water use was 42,000 gallons per person per year.

The City draws its water from Lake Erie through an intake located in the Emerald Channel at the northeastern end of the Lake where the Lake meets the Niagara River. A back-up intake is located immediately north of the Peace Bridge in the main Niagara River channel. The water flows from the lake through a large conduit to the Colonel Ward Water pumping station and treatment plant located on Porter Avenue, adjacent to LaSalle Park. The Colonel Ward Water Treatment Plant has a design capacity of 160 million gallons per day (mgd). The BWA owns two storage tanks and three storage towers, as well as a 28 million-gallon clear well, located below filter beds, for a total storage capacity of 40 million gallons. Colonel Ward process water is discharged into the Black Rock Canal in accordance with State Permitted Discharge Elimination System (SPDES) permit (NY0032174).

From the plant, treated water is transported throughout the BWA’s 46 square mile distribution area. With the exception of a large parcel bordered by South Park, Abby Street, Fuhrmann Blvd and Tifft Street, the system supplies water to all residents and businesses (Paul Gareis, City of Buffalo Division of Water, September, 2012). The BWA system features 810 miles of pipes, 23,800 valves, 80,000 service connections and 7,965 fire hydrants. A majority of the distribution lines in the LWRA were installed after World War II. Only Ohio Street, Childs Street, Hamburg Street, Katherine Street, Bailey Avenue and the area north of Seneca and Mineral Springs were installed in the early 1900’s. The water system is primarily comprised of cast iron water mains with some concrete and steel water mains that measure between 4 to 60 inches in diameter. Marginal to fair water pressure currently exists in the northwest section of the City, and good water pressure is available within the remainder of the City.

In 1992, the City sold the water system to the Buffalo Water Board (BWB) which began an accelerated Capital Improvement Program. The program included numerous improvements and enhancements throughout the system including upgrades at the Colonel Water Pump Station, Treatment Plant and the Massachusetts Avenue Pump Station, water storage tanks, and distribution mains.

The water system is managed by a private utility firm, Veolia Water, under contract with the City’s Division of Water, Department of Public Works.

B. Buffalo River Improvement Corporation

The Buffalo River Improvement Corporation (BRIC) was created in 1967 to provide water for cooling and processing to industrial users along the Buffalo River. The BRIC pumps water from Lake Erie to augment flows in the Buffalo River. The BRIC has a design capacity of 120 million gallons per day. At its peak operation, BRIC contributed 90 percent of the River’s flow during the drier summer months serving several industrial customers including Buffalo Color Corporation, PVS Chemical Corporation, Republic Steel and Allied Chemical Corporation. Today, PVS Chemical is the only active user of the system.

C. Municipal Wastewater Disposal

The Buffalo Sewer Authority (BSA) operates and maintains the city’s public sewage collection and waste water treatment system.

The collection system consists of a mix of separate sanitary sewers, separate storm sewers and combined sewers approximately 850 miles in length, with 10 outlying pump stations and a 17 million gallon capacity stormwater
The collection system conveys an average daily flow of approximately 150 million gallons per day (mgd) to the treatment plant, which includes more than 30 mgd that comes in from outside municipalities that are tributary to the BSA system.

The BSA Bird Island Wastewater Treatment Plant (WWTP), the second largest wastewater treatment plant in New York State, can provide full primary and secondary wastewater treatment for 240 mgd. Planned improvements will increase BSA's capacity to 340 mgd.

During rain and snow melt events, the actual amount of wastewater (both stormwater and sewage) collected within the combined system at times exceeds WWTP capacity. To protect the treatment plant and private property from flooding (including basements), excess flow is discharged to local waterways through combined sewer overflow (CSO) points.

The United States Environmental Protection Agency (EPA) CSO Control Policy provides guidance on how communities with combined sewer systems can meet Clean Water Act goals in as flexible and cost-effective a manner as possible. Under the CSO Control Policy, communities with CSOs must develop long-term CSO control plans that will ultimately provide for full compliance with the Clean Water Act, including attainment of water quality standards.

In 2014, the US EPA and NYS DEC approved the Buffalo Sewer Authority’s Combined Sewer Overflow Long Term Control Plan. The strategy will dramatically reduce combined sewer overflow events to our local waterways, improving water quality while helping to promote economic development.

The $425 million, 20 year plan, will result in:

- 97.4% total capture of combined sewer volume;
- 6 or fewer combined sewer overflows per year;
- 73% decrease in overflow volume from 1.89 billion to 504 million gallons per year;
- 10% reduction in City impervious surfaces; and
- 1315 - 1620 acres of stormwater management.

The BSA CSO LTCP includes a combination of system efficiencies, innovative green infrastructure programs, treatment plant upgrades and new storage facilities. The BSA has already completed several “grey infrastructure” projects proposed in the original 2004 Long Term Control Plan and $1 million of green infrastructure.

Green infrastructure uses vegetation, soils, and natural processes to manage water and create healthier urban environments. The Buffalo Sewer Authority plan is the first in the country to receive regulatory approval for the use of specific demolition sites as green infrastructure. To date the City’s demolition program has created over 350 acres of green stormwater infrastructure. In addition, the BSA is currently working with the City’s Department of Public Works to implement green infrastructure improvements on Ohio Street, Niagara Street, Genesee Street, Carlton Street, Fillmore Avenue and Kenmore Avenue.

D. Industrial Discharge Permits

The following private industries maintain NYS DEC New York State Pollutant Discharge Elimination System (SPDES) permits for discharge effluent into Buffalo LWRA surface waters.
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<tr>
<th>PERMIT</th>
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<td>40 WATERFRONT CIRCLE</td>
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E. WNY Stormwater Coalition

The City of Buffalo and Buffalo Sewer Authority are members of the WNY Stormwater Coalition. The Coalition is a regional collaboration of 42 municipal entities in Erie and Niagara counties that have joined together to develop a stormwater management program to protect our waterways and enhance our quality of life.

The Western New York Stormwater Coalition is a forum for these regulated communities to share resources and work in partnership toward compliance with the United States Environmental Protection Agency (U.S. EPA) Phase II Stormwater requirements.

The overall goal of the Coalition is to utilize regional collaboration to identify existing resources and develop programs to reduce the negative impacts of stormwater pollution. The purpose of the public outreach website is to enhance public knowledge and awareness of stormwater pollution and provide information to individuals and households to prevent stormwater pollution and protect water quality.

F. Vessel Discharge

In June 2014, the US EPA and the NYSDEC, designated New York State’s portion of Lake Erie as a “Vessel Waste No Discharge Zone.” This designation means that boaters and shippers are not allowed to discharge their on-board sewage into local surface waters. Instead, they are required to dispose of their sewage at pump-out stations that are available for recreational boater use.

New York State’s Clean Vessel Assistance Program, which is recognized as one of the nation’s best clean vessel programs, has helped establish and annually supports 37 pump-out facilities on Lake Erie and the St. Lawrence Seaway, providing recreational boaters with convenient access to pump-out stations for the safe disposal of septic waste. The Buffalo Harbor State Park, Erie Basin Marina and Rich Marine offer pump out facilities.
V. RECREATION

The City of Buffalo LWRA has numerous water dependent and enhanced recreational facilities. Water dependent recreation includes swimming, boating and fishing. Water enhanced recreation includes active recreation park facilities and trail systems.

A. Swimming

There are no swimming beaches or facilities located within the LWRA. In 2016, the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) concluded a study regarding the potential for a swimming beach at Gallagher Beach (now part of Buffalo Harbor State Park) and determined it to be infeasible due to the high level of contamination that would require it to be closed approximately 40 percent of the time during the swim season. The study also determined that the cost of establishing, and annually replenishing, sand at the beach would not be feasible due to the significant cost estimates.

B. Boating

Inventory Section IID outlines the large number of boating, mooring and launch facilities available in the LWRA. In addition to these facilities, several private boat tours and charters including canoe/kayaks, solar powered launch, historic schooners, fishing boats, catamarans and multi-story tour boats are available on the waterfront.

1. Buffalo River Urban Canoe Trail

The Buffalo River Urban Canoe Trail is a self-guided tour of 48 environmental, historical and industrial sites visible from the water. The trail is six miles in length and takes about four hours to complete. This trail was developed by NYSDEC, commencing at the Ohio Street Canoe Launch and terminating at the NYSDEC public access site at Harlem Road in the Town of West Seneca (there is a mid-point access site located at the South Buffalo Pump Station, near the Bailey Avenue Bridge). Parking lots are provided at all three access site for convenience.

2. Buffalo Blueway

The Buffalo Blueway is an initiative managed by the Buffalo Niagara Waterkeeper in partnership with the Empire State Development Corporation to create a network of public access points along the waterways of Western New York. The Blueway will enhance and expand waterfront access and will strategically connect to existing sites and attractions. The project will include constructing new access points, installing wayfinding and public art, improving water quality, removing physical barriers, enhancing the natural environment, and improving public safety. The initiative is intended to boost tourism and revitalization by strategically connecting historical, cultural and natural assets via the Blueway.

C. Fishing

Inventory Section IID describes the health of the local fisheries resource and fisheries management activities.

1. Boat-Based Sport Fishery

The boat-based portion of the Lake Erie sport fishery, including the Buffalo Harbor, has been monitored by NYSDEC each year since 1988, and results of annual surveys are published in the NYSDEC Lake Erie Annual Report to the Great Lakes Fishery Commission. Results from the 2008 fishing season survey indicated an overall sport fishing effort in New York waters of Lake Erie of approximately 314,000 angler hours. Peak fishing activity in 2008 occurred during July, and the most frequently used access site was the Small Boat Harbor (now known as the Buffalo Harbor State Park Marina) with approximately 88,000 angler hours. Walleye fishing comprised 50% of the overall effort of the boat fishery in 2008, and 27% of the effort was directed toward smallmouth bass.

2. Shoreline Sport Fishery

The shoreline based portion of the sport fishery is a significant portion of the overall fishing effort, especially on the upper Niagara River. Results of an angler survey on the upper Niagara River stated that the fishing effort expended for the entire shore fishery would easily exceed the boat fishing component. Further, the Ferry Street site and a section of the Bird Island Pier accounted for
for more than three times the fishing effort of the next most utilized shore fishing location on the upper Niagara. During this study, the section of Bird Island Pier south of the Peace Bridge was not included, thus understating the importance of the Ferry Street-Bird Island Pier complex as a focus of fishing effort.

There are a number of other public lands that provide shoreline fishing access along the Upper Niagara River, Buffalo Harbor and Buffalo River. These locations include: Ontario Street Boat Launch- Riverwalk, Towpath Park, Unity Island Park, Lasalle Park, Erie Basin Marina (during off season), Bell Slip, Buffalo Harbor State Park (during off season), Tifft Nature Preserve, Ohio Street Boat Launch, and Bailey Avenue Peninsula.

Property adjoining the Union Ship Canal is currently used as an informal fishing area. The Union Ship Canal lands were remediated as part of the development of the Buffalo Lakeside Commerce Park (BLCP). Restoration plans for the BLCP include the creation of enhanced public access (Lakeside Commons) to the Canal shoreline and aquatic habitat enhancements in the Canal in order to benefit anglers.

3. Angler Effort

NYSDEC conducted a survey of angling activity in seven major Lake Erie steelhead tributaries from 2003 to 2004 and 2004 to 2005. During the two survey periods, a total of approximately 193,000 and 263,000 angler hours, respectively, were reported from the tributaries. During these two periods, a total of approximately 12,000 and 17,000 angler hours, respectively, were reported from Buffalo and Cayuga Creeks combined. All the survey locations in Buffalo and Cayuga Creeks were upstream of the LWRA; however, this illustrates that a substantial steelhead fishery exists. Many steelhead migrate through the LWRA on their way upstream from, or downstream to, Lake Erie. Some of the steelhead present in the lower Buffalo River are caught by anglers at LWRA locations where angling access is available and typical steelhead holding habitat is present.

4. Fish Consumption Advisories

The NYS Department of Health has posted a number of health advisories for contaminants in sport and game fish, primarily PCBs, for the Buffalo River and Buffalo Harbor, Hoyt Lake in Delaware Park, Upper Niagara River and Lake Erie. Buffalo Niagara Waterkeeper has worked to improve the effectiveness of Fish Consumption Advisory educational materials and outreach activities, with a particular focus on environmental justice communities that often rely upon subsistence fishing as a primary protein source.

5. Fishing Facilities

Erie County maintains an inventory of public fishing sites in support of the region's angling tourism sector. The "Fishing Hot Spot" list in the LWRA includes:


c. Unity Island Park Ponds for Largemouth Bass, Rock Bass, Smallmouth Bass, BlueGill/Pumpkinseed, Carp, Bullhead, and Perch;

d. Niagara River - Ferry St. - Broderick Park for Smallmouth Bass, White Bass, Yellow Perch, Sheepshead, Smelt, Lake Trout, Steelhead Trout, and Walleye;

e. Niagara River - Bird Island Pier for Largemouth Bass, Smallmouth Bass, White Bass, Muskellunge, Yellow Perch, Northern Pike, Sheepshead, Smelt, Suckers, Steelhead Trout, and Walleye;

f. Niagara River - LaSalle Waterfront Park for Largemouth Bass, Rock Bass, Smallmouth Bass, BlueGill/Pumpkinseed, Carp, and Yellow Perch;

g. Hoyt Lake for Largemouth Bass, Rock Bass, BlueGill/Pumpkinseed, and Carp

h. Buffalo River - Bailey Avenue Peninsula for Largemouth Bass, BlueGill/Pumpkinseed, Bullhead, Suckers, and Steelhead Trout;

i. Lake Erie – Buffalo Harbor State Park for Largemouth Bass, Rock Bass, Smallmouth Bass, BlueGill/Pumpkinseed, Carp, Yellow Perch, Northern Pike, Sheepshead, Smelt, and Rainbow Trout; and


In addition to the Erie County Hot Spots listed above, shoreline anglers often fish at:

a. Black Rock Canal Locks (North End of Unity Island Park);

b. Scajaquada Creek;

c. DEC’s Ohio Street Access Site;

d. Mutual Riverfront Park;

e. Red Jacket Riverfront (Smith Street) Park;

f. Old Bailey Woods;

g. Seneca Bluffs;

h. City Ship Canal;

i. Erie Basin Marina; and

j. Ship Canal Commons.

The only fish cleaning station in the LWRA is located at the Buffalo Harbor State Park.

D. Water Enhanced Multi-Use Trails

1. Shoreline Trail

The Shoreline Trail (formerly Riverwalk) is a paved, multi-use pathway, owned by the State of New York and maintained by the City of Buffalo. Approximately 85 percent of the pathway is situated directly adjacent to the Niagara River and Unity Island shoreline.

2. Jesse Kregal Creekside Trail

Jesse Kregal Creekside Trail (former Scajaquada Pathway) is a 1.8-mile, City-owned and maintained pathway. The trail extends from the confluence of Scajaquada Creek and the Black Rock Canal at Niagara Street and eastward to Delaware Park, providing an inland connection to the internal pathway network inside the park.

3. Outer Harbor Greenbelt

The Outer Harbor Greenbelt provides a greenspace corridor, multi-use pathway and shoreline stabilization along the shore. The Greenbelt is linked to the Shoreline Trail system, providing a public connection to the Buffalo Harbor State Park, the Inner Harbor, Tifft Nature Preserve, and points further along the trail south. The Industrial Heritage of the region’s waterfront is interpreted with heritage markers that identify historic and contemporary industries.
4. Fuhrmann Boulevard Greenway

The Fuhrmann Boulevard Greenway includes elements of the Industrial Heritage Trail and the Tifft Street Pier. Located at the western end of Tifft Street, near the Cargill Pool Grain Elevator, the Tifft Street Pier project has been designed to include the namesake pier that extends into the Outer Harbor, a covered pavilion, a boardwalk, a park, benches and dedicated locations for public art installations. The boardwalk and Industrial Heritage Trail provide non-motorized access along the Fuhrmann Boulevard Parkway and includes benches, aesthetic period lighting and landscaping.

5. Niagara River Parkway and Recreational Trail

The Niagara River Parkway and Recreational Trail are a 34-mile long scenic roadway and multi-use pathway system along the Canadian side of the Niagara River shoreline. The system links to the Shoreline Trail via the Peace Bridge crossing at Buffalo. Bi-national activities, including the Niagara Falls International Marathon that typically originates in the City of Buffalo, utilize the parkway route.

6. Ohio Street Multi-Use Path

The Ohio Street Multi-Use Path is part of a reconstruction project that transformed Ohio Street from an industrial thoroughfare into an urban parkway that includes a 12-foot wide multi-use path. The project connects Canalside to the Outer Harbor, as well as other attractions and open space assets along Ohio Street, and has spurred water-enhanced mixed use development along corridor.

7. Empire State Trail

The Empire State Trail is a new initiative to create a continuous 750-mile route spanning the state from New York City to Canada and Buffalo to Albany, which will be the longest multi-use state trail in the nation. Approximately 400 miles of the Trail already exists in discrete, disconnected segments.

E. Water Enhanced Parks

1. City of Buffalo Olmsted Parks

Buffalo is home to a public park system designed by Frederick Law Olmsted. Olmsted is regarded as the greatest American landscape architect, who designed Central Park in New York, the grounds of the U.S. Capitol in Washington, the Niagara Falls Scenic Reservation, and the 1893 World’s Colombian Exposition in Chicago. In 1868, Olmsted was brought to Buffalo, where he implemented a parks plan involving three parks connected to one another by a series of broad, tree-lined residential avenues and parkways. The development of the Buffalo Olmsted parks plan, which was substantially completed by 1876, marked a transitional period during Buffalo’s waterfront history. Olmsted’s plan for Buffalo was presented at the 1876 Centennial Exposition in Philadelphia, where Olmsted proudly described it as “the most complete system of recreational grounds.” The first of its kind in the United States, several component parks of the system occupy significant amounts of waterfront land.

Olmsted’s scheme of parks, landscaped circles, parkways and avenues includes Riverside Park and a portion of Delaware Park, Front Park, Cazenovia Park and South Park (five of the six parks that anchor the Olmsted system are in the LWRA). The entire Olmsted Parks system is a designated Local Historic District and was listed on the National Register of Historic Places and as a National Historic District in 1982. These parks are owned by the City of Buffalo and managed in partnership with the Buffalo Olmsted Parks Conservancy (BOPC).

a. Riverside Park – This 37-acre park, located at Niagara Street and Vulcan Street, includes playgrounds, baseball fields, a football field, picnic facilities, walking paths, an outdoor public pool, an indoor hockey rink, tennis courts, wading pool, basketball courts, and a pedestrian bridge that crosses the I-190 Thruway, linking the park to the Riverwalk. This park is used on a City-wide basis by sports leagues and locally for summertime youth programming and community events.
In 2013 the BOPC restored an area of Riverside Park known as the minnow pools. The design interprets a series of small ponds with an engineered rain garden feature and waterfalls that were part of the original park design. The new RiverRock Gardens incorporates extensive plantings that will be installed along the course of this rain garden, including a 1,850-feet of winding pathways highlighted with a stone pedestrian bridge.

b. Delaware Park- With nearly 365 acres, this is the biggest and most complex park in the Olmsted system and a major regional destination. Delaware Park encompasses Hoyt Lake, which is a focal point of this facility, as well as Mirror Lake. Site amenities in the park include:
   - large areas of open space and lakeside pathways, including a portion of the Jesse Kregal Creekside Trail;
   - the Rose Garden, which includes 33 different flower beds containing many varieties from the All-America Rose Selections;
   - the Japanese garden, located alongside Mirror Lake, encompasses six acres with three small islands, numerous plantings and other features common in a traditional Japanese garden landscape;
   - boating facilities on Hoyt Lake;
   - a 18-hole golf course; basketball courts, tennis courts, soccer, rugby, baseball.
   - Parkside Lodge, which houses the offices for the BOPC, the golf course pro shop and a small restaurant; and
   - Marcy Casino, which overlooks Hoyt Lake and offers space for conferences, meetings or parties.

The park grounds are home to the Buffalo History Museum, the Buffalo Zoo and the Albright Knox Art Gallery. It is also located immediately adjacent to Forest Lawn Cemetery.

c. Front Park- Originally called the Front, this park encompasses 23 acres, located to the south of the U.S. Toll Plaza to the Peace Bridge, between Busti Avenue and the I-190 Thruway. The park contains a memorial statue, tennis courts, playground, soccer field, picnic shelter and walking paths, and is used for various recreational sports leagues and numerous community events.

Recently restored park elements include: the Terrace with overlook, the formal gardens at the edge of the Terrace and replacing two of the the cannons that were once located on the Terrace.

d. Cazenovia Park- This 186-acre park encompasses the Cazenovia Creek corridor and contains several creekside walking paths, a nine-hole golf course, ball diamonds and soccer fields, tennis and basketball courts, playgrounds and picnic areas, a spray pool and swimming pool and an indoor ice rink and Tosh Collins Senior/Recreation Center. The park also has an historic casino building and shelter house. Cazenovia Park is heavily used for City-wide events, youth and adult sports leagues, and passive recreation.

e. South Park – The 155-acre South Park was designed in 1894 as an arboretum, with more than 2,300 types of trees, shrubs and plant life, and room for a large conservatory building, now home to the Buffalo & Erie County Botanical Gardens. Nine hole golf course

2. City of Buffalo Parks

a. Black Rock Park- This 2.4-acre park is located at the foot of Peter Street on the Scajaquada Creek shoreline. Site amenities include a playground and a basketball court. The Jesse Kregal Creekside Trail travels through the park, connecting it with Delaware Park and a local commercial business district. The park is used heavily by local residents for passive recreation and for fishing during the spring when water levels in Scajaquada Creek are high. As noted above, park improvements were made at this site as part of the BOPC’s Creekside Trail project.

b. Unity Island Park - This park, located on 60-acres on the northern portion of Unity Island, was completed in 2006. Unity Island Park provides views of the International Railroad Bridge, which
passes through the park, the Niagara River and the Canadian shoreline. Unity Island Park offers passive recreation, picnic areas and bicycle paths. The park is also a popular for residents that fish from the Niagara River shoreline of Unity Island and the on-site ponds.

c. Broderick Park- A 3.8-acre park located at the southern end of Unity Island with excellent views of the Niagara River and the Canadian shoreline. Site amenities include an amphitheater, several historical markers commemorating the historic Underground Railroad, a concession stand, picnic shelters, and a pathway on the Bird Island Pier break wall that extends south, separating the Black Rock Canal and the Niagara River. This park is used for fishing, bird watching and passive recreation.

d. LaSalle Park- A 89-acre park is located between the Black Rock Canal and the I-190 Thruway overlooking Lake Erie. Site amenities include the Centennial pool and splash pad, a concert bandstand, Bark Yard dog-park, skate plaza, several lighted ball diamonds and soccer playing fields, playground and picnic facilities. It is also used for fishing and bird watching. The Riverwalk is situated adjacent to the shoreline as it travels through the Park. A pedestrian walkway provides access across the expressway to the park from the Lakeview neighborhood.

e. Erie Basin Marina - The park portion of the Erie Basin Marina is used year round for passive recreation, with pedestrian access to the shoreline and the harbor lighthouse and views of Lake Erie and the Canadian shoreline. The park includes the Erie Basin Marina Gardens - a test site for floral and seed companies, providing a preview of many new flowers and plants.

f. Father Conway Park - Located along Louisiana Street, just east of Riverfest Park, the 15-acre park has two softball diamonds, used by local recreation leagues in the spring, summer and fall, and several acres of open space. The park also has a fenced in playground, complete with large jungle gym and swing set. A sidewalk lined with landscaped trees connects Father Conway Park with the residential sections of the Old First Ward.

g. Ship Canal Commons- This 22-acre public green space along the perimeter of Union Ship Canal was developed as part of the Buffalo Lakeside Commerce Park brownfield remediation project. Ship Canal Commons features bike and walking trails, over 400 native tree species and a foot bridge that spans 200 linear feet over the Union Ship Canal. The multi-use trails connect pedestrians to the Outer Harbor, Tifft Nature Preserve and the Seaway Trail.

h. Houghton (formerly Stachowski) Park- This 45-acre park is located between the Buffalo River and Clinton Street. Site amenities include two lighted baseball diamonds, several playgrounds, a street hockey rink, a community center, a pool and a large wooded area adjacent to the River. The shoreline portion of the park is used for dog walking and wildlife viewing, although the river shoreline is physically removed from the park by a railroad corridor.

i. Emerson Young Park - This 35-acre park, located north of Waterfront School, contains several paved sports enclosures, a softball diamond, a paved basketball court, a playground, a small amphitheater and maintained green space.

j. Erie Hills Park & Pedestrian Mall - Erie Hills Park is a small pocket park situated beneath the Buffalo Skyway and the I-190 Thruway, between Franklin Street and Bingham Street. The park contains tree-lined sidewalks that navigate around several small hills. The sidewalks include pedestrian benches along the network of paths.

k. Buffalo and Erie County Naval & Military Park - The Buffalo and Erie County Naval & Military Park is located on approximately one and a half acres along the Buffalo Inner Harbor. The park is home to the several decommissioned World War II United States Naval vessels, including the cruiser USS Little Rock, the destroyer USS The Sullivans and the submarine USS Croaker, which are all moored in the Buffalo River harbor. The park also contains numerous other military amphibious, air and land vehicles on display.
l. Other parks. The City of Buffalo also owns and operates several smaller park facilities including Rotary Park, Prospect and Columbus Parks, Butler Park, Old Bailey Woods, Market Square Park, Sole Park, the Bluff, Fourth Street Playground and the Hank Nowak Bird Island Fishing Pier.

3. Erie County Parks

In addition to Erie County’s Red Jacket Riverfront Park, Bailey Avenue Confluence Park and Seneca Bluffs habitat parks on the Buffalo River (described in Inventory Section II.D.4.) Erie County also operates two active waterfront recreation sites on the Buffalo waterfront.

a. Black Rock Canal Park (formerly Ontario Street Boat Launch.) This 6.8 acre park is located at the foot of Ontario Street on the Niagara River shoreline. This site is used for launching small watercraft, shoreline fishing, bicycling, and scenic viewing of the Niagara River and Canadian shoreline. The site also includes a Bark Park off leash dog park facility.

b. Towpath Park- Towpath Park is a 5.3-acre park, located at the foot of Hertel Avenue on the Niagara River shoreline. Site amenities include a boardwalk-style viewing area with views of Rich Marina and the Black Rock Locks, benches and walking paths. This park is used for shoreline fishing and passive recreation.


In addition to the NYS DEC Ohio Street fishing access sites, the following waterfront public access sites have been developed by State entities within the City of Buffalo.

a. Canalside Central Wharf - The Erie Canal Harbor Central Wharf is located along the waterfront immediately south of the Buffalo and Erie County Naval & Military Park. The 12.5-acre parcel was filled in after the original Erie Canal ceased as a major mode for the transport of goods, and was used for municipal parking until the 1990s. The park is used for many public events including large scale concerts. The site features food and small watercraft vendors, interpretive signage and exhibits, passive green space, colorful Adirondack chairs and transient boat slips.

b. Buffalo Harbor State Park – The Buffalo Harbor State Park, which includes the former Small Boat Harbor and Gallagher Beach, is located along the Outer Harbor, just south of the former Ford Terminal Complex and former Freezer Queen site. The park includes an 1,100 slip marina, restaurant, lawn areas for recreation and picnicking, 1,200 linear feet of water frontage, a boardwalk, fishing pier, boat launch, pavilion structures, playgrounds, multi-use paths, and a parking area for cars.

c. Wilkeson Point is comprised of approximately 22 acres of former Cargill and NYPA Ice Boom Lands immediately south of the Times Beach Nature Preserve. The site offers public access along the entire length of the perimeter and water’s edge, pedestrian paths, volleyball courts, natural playgrounds, wind sculptures and public docking. Six acres of shovel ready land has been reserved in the north east portion of the site for future mixed-use development.

d. Mutual Riverfront Park – When the NYPA relocated the ice boom to Katherine Street, the portion of the property located at the foot of Hamburg Street (at South Street) was designated for the development of Mutual Riverfront Park. This 1.3-acre park includes a brick boathouse, recreational boat launch for kayaks and canoes, boat storage area, a boardwalk promenade, picnic tables, benches and chess tables, landscaping and open lawn area. There is also a building on the site that will house the
Waterfront Memories and More Museum. The park provides views of the Buffalo River and historic grain elevators.

5. Other Parks

a. Forest Lawn Cemetery – Forest Lawn Cemetery is a 270-acre facility created by Charles Clark in 1850. The cemetery is recognized both for its core cemetery services as well as its landscape and cultural heritage assets. Forest Lawn is the “permanent residence” for many important local and historic figures, numerous works of architecture, sculpture and art; more than 3,500 trees, representing 100 different species and the City’s only waterfall created as Scajaquada Creek emerges from underground. Over 240 bird species have been spotted in the Cemetery. The Cemetery’s roadways are actively utilized for both biking and running.

b. Riverfest Park - Riverfest Park, spearheaded by the efforts of the Valley Community Center, serves as a gateway from the Cobblestone District into the City’s Old First Ward residential neighborhood. The three acre park features six hundred feet of Buffalo River shoreline providing views of historic Kelly Island grain elevators. The park is comprised of green space and plantings, a paved pathway leading to a band shell, a large wooden pergola with bench seating that faces the riverfront, a boardwalk with additional benches, parking area and a floating, seasonal dock. In 2016, the park’s one-story brick lodge was completed, which includes a restaurant and banquet venue, as well as public restrooms. The building also exhibits numerous photos and memorabilia of the area’s rich history.
VI. HISTORIC AND SCENIC RESOURCES

A. Historic Resources

Buffalo’s waterfront has served as the stage for several important elements of the nation’s history including early settlement by the Neutral and Seneca members of the Iroquois Confederacy, the War of 1812, the Erie Canal, urban design as per Joseph Ellicott and Frederick Law Olmsted, the Underground Railroad and the growth and decline of the steel industry.

1. Iroquois Confederacy

Prior to European colonization, Buffalo’s inhabitants were an Iroquois tribe called the Neutrals by French settlers, who found them helpful in mediating disputes with other tribes. The area was later settled by the Senecas.

Historical accounts explain that the city of Buffalo was named after the Buffalo Creek (now known as the Buffalo River), a stream which evidently received its name from the frequent visits of the American bison to a salt spring which welled up about three miles from its mouth, “where the buffalo drinks.”

The Native Americans knew this region as the locality of Teosahwa or Teshuway, “the place of the basswood” for the dense basswood trees lining the creek, and also sisilicchanne, “waters sought by the buffaloes.” Historic paintings and engravings found of the Buffalo Creek confluence with the lake show a thickly wooded riparian zone along the river. (This name has also been given to counties in Nebraska, South Dakota, and Wisconsin, and numerous creeks, rivers, towns, and villages.)

The name for Scajaquada comes from a variation of Kenjockey, after Phillip Kenjockey of the Seneca tribe. The Seneca name for it is Ga-noh’-gwaht-geh, after a particular wild grass that grew along its banks. The word “Niagara,” once thought to mean “thunder of the waters,” more likely means, “neck,” to describe the strait.

Mapping from the early 18th century shows development in the Buffalo region with settlements concentrated along the Niagara River and Lake Erie and stretching along the Buffalo River corridor. Buffalo Creek, as it was noted in these early settlement and purchase maps, was notable for the Native American settlements along its shores. A map from 1804 shows historic trails, and ribbons of tributaries that empty into Buffalo Creek. Upstream archeological sites along Buffalo River and Scajaquada Creek are aboriginal in nature including the Seneca House site, the location of a former long house.

2. Ellicott Radial Street Plan

Joseph Ellicott was hired by the Holland Land Company in 1797 to conduct the Great Survey, the surveying and division of 3.3 million acres of land purchased from Robert Morris west of the Genesee River to the shore of Lake Erie. His mission also was to determine the specific boundaries of the Seneca Indian reservations.

Impressed by the work of Major Pierre L’Enfant and influenced by his brothers who were also surveyors and had established a radial street plan for Washington D.C., Ellicott applied the same system to Buffalo, with Niagara Square as a hub and a series of streets laid out at acute angles. While most of Ellicott’s radial system remains intact, connections to the water at Erie Street, Court Street and Genesee Street were disrupted with the construction of the NYS Thruway.

3. War of 1812

The War of 1812 ranged along much of the Great Lakes’ coastline where American, British and Native American forces clashed for control of the heart of the continent.

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After destroying much of the Niagara Frontier, the British troops were finally halted in their southbound march as Americans set fire to a bridge over Tonawanda Creek. The British returned to the Canadian side of the Niagara and marched south, carrying their boats around Niagara Falls. The British crossed the Niagara in the early hours of December 30, 1813, landing approximately two miles downstream of Black Rock. They pressed onward, forcing the retreat of the Americans whom they pursued all the way to the Village of Buffalo. Once in Buffalo, the British and Indians burned nearly all of the buildings and destroyed the navy yard and several ships. They then moved back to Black Rock and torched the town before crossing back to Canada.

4. Erie Canal

The Erie Canal runs 363 miles (584 km) from Albany to Buffalo, completing a navigable water route from the Atlantic Ocean to the Great Lakes. First proposed in 1807, it was under construction from 1817 to 1825 and officially opened on October 26, 1825. It was the first transportation system between the eastern seaboard and the western interior of the United States that did not require portage, was faster than carts pulled by draft animals, and cut transport costs by about 95%. The canal fostered a population surge in western New York State and opened regions farther west to settlement.

Today, the Erie Canal is part of the New York State Canal System. In 2000, Congress designated the Erie Canalway National Heritage Corridor to recognize the national significance of the canal system as the most successful and influential human-built waterway and one of the most important works of civil engineering and construction in North America.

Erie Canal Harbor and the Central Wharf were originally built in 1825 as the western terminus of the Erie Canal. The results of the initial excavation work uncovered the original Commercial Slip of the Buffalo Harbor. The original cobblestone and brick streets were uncovered, the main docking wharf was revealed behind the eastern seawall, and the building foundation of the first African American-owned business, founded by a freed slave years before the Emancipation Proclamation, was discovered.

According to the Buffalo Preservation Board, the remnants of the Erie Canal, the Commercial Slip, the Prime Slip and the Grand Canal are eligible for listing on the National Register of Historic Places, although no local landmark designation has been made.

The Erie Canal Harbor project, which has been open to the public since May 2008, features several fully restored facets of the original Erie Canal Harbor, including:

- Commercial Slip, which served as the historic juncture between the Erie Canal and the Great Lakes, and the 40-foot wide, wooden planked Central Wharf (which includes a 400-foot long waterfront floating dock);
- a replica of the Coit-McCutcheon canal era building that houses a Naval museum and restaurant;
Reconstruction of Commercial Street and three other original cobblestone streets by the City of Buffalo;

Whipple Truss foot bridge that spans the canal slip and connects the Central Wharf to Commercial Street; and

Installation of informational signage and various interpretive exhibits and landscaping throughout the site to educate and inform visitors about the importance of the area.

5. Buffalo’s Harbor Heritage

The Erie Canal construction resulted in tremendous growth of the Buffalo Harbor and port. Several elements from Buffalo’s active commercial harbor era remain including:

a. Lighthouses

- Buffalo Main Lighthouse was built in 1833 and is the oldest building on Buffalo’s waterfront, as well as one of the oldest on the Great Lakes. The lighthouse has been recognized by the United States Coast Guard in an effort to preserve the maritime heritage of the US.

- Buffalo North Breakwater South End Light at the Buffalo Harbor

- South Buffalo North End Light on the Outer Harbor

b. Grain Elevators. Invented to maximize loading dock space, the remaining grain elevators that dot Buffalo’s waterfront are a testament to those days when the city was the busiest grain-transfer port in the world. The first grain elevator was built by Joseph Dart, in 1842, in the port of Buffalo. These structures comprise the most outstanding collection of extant grain elevators in the United States. They collectively represent a variety of construction materials, building forms and technological innovations that revolutionized the handling of grain in this country.

The Concrete Central Elevator is listed on the National Register of Historic Places. According to the Buffalo Historic Preservation Board, the following grain elevators along the Buffalo River industrial corridor are eligible for listing on the National Register of Historic Places:

- Cargill Superior
- Connecting Terminal
- Pillsbury (Great Northern)
- Perot Malting
- Standard
- Kellogg
- Agway
- American Exchange
- Lake and Rail
- Marine “A”

In addition, there are four more elevators within the LWRA including:

- Electric Annex
- GLF-A
- St. Mary’s Cement
- Cargill Pool
- LaFarge
- GLF-B
- Washburn Crosby

Erie Canal Harbor Development Corporation (ECHDC) completed a lighting design study for the waterfront grain elevators and bridges in 2013. The project seeks to highlight the waterfront’s progress, the history of the grain elevators and their impact on the growth and development of the City. ECHDC committed funding for the implementation of the first phase of the project, including lighting of the Connecting Terminal grain elevator, Ohio Street Bridge and the underside of the Skyway. Eventually, the lighting of up to 16 grain elevators as well as the Michigan Avenue bridge is proposed.

c. Historic Watercraft. The City of Buffalo is home to several historic watercraft including, but not limited to, the Clara Brown Sloop, Cotter Fireboat and Naval Museum ships. The Buffalo Maritime Center also maintains an inventory of historic vessels.
6. Frederick Law Olmsted

As discussed in the recreation section above, Buffalo is home to a public park system that was designed by Frederick Law Olmsted in 1868 and substantially completed by 1876. Olmsted is regarded as the greatest American Landscape Architect. Five of Buffalo’s six major Olmsted park facilities are located within the LWRA, including Cazenovia Park, Delaware Park, Front Park, Riverside Park, and South Park. The following is a 1914 map of the Olmsted system.
7. Underground Railroad

Buffalo was a significant link in the Underground Railroad for slaves that escaped from the South and sought refuge in Canada. During this emancipation era, several buildings and locations along the waterfront were links in the Underground Railroad. Broderick Park, on Unity Island, has been recognized as a vessel launching point for slaves travelling across the Niagara River to Canada to gain freedom.

8. Industrial Heritage

Buffalo was home to a booming heavy industrial economy with many areas of the LWRA dedicated to manufacturing. Today, only a few remnants of the City’s industrial heritage remain. However, the City’s industrial legacy is celebrated in at least three projects.

a. The Industrial Heritage Trail tells the story of the Grain Elevators and manufacturing along the Buffalo River and Outer Harbor.

b. The Industrial and Rail Heritage Discovery Center, home to the Western New York Railway Historical Society’s (WNYRHS) railroad museum and the Steel Plant Museum, will display vintage railroad and steel making artifacts. An operational steam locomotive will be on adjacent rail lines next to the building. The Center will occupy 35 acres of the former Buffalo Color site located in South Buffalo along the Buffalo River, bounded by Elk Street, South Park Avenue and Lee Street. The site was used to manufacture dye products for the food and clothing industries. A powerhouse on the site will be incorporated into the project.

c. Ship Canal Commons features interpretive signs, landforms and an iconic steel ladle at the head of the Canal, as discussed in Section V.E. Recreation City Parks.
9. Full Historic Resource Listing

A full listing of local, state and federal historic structures, sites and districts within the WRA is provided below.

**TABLE VIII G. HISTORIC RESOURCES**

**Local Historic Districts within the LWRA**

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<th>Local Historic District</th>
<th>Adopted</th>
<th>National Register/Certified</th>
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<tbody>
<tr>
<td>Olmsted Parks &amp; Parkways Historic District</td>
<td>10/1/1985</td>
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<tr>
<td>Cobblestone Historic District</td>
<td>7/12/1994</td>
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<td>Upper Black Rock Historic District</td>
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**Local landmarks within the LWRA**

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<td>Albright-Knox Art Gallery</td>
<td>2182 Delaware Ave.</td>
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<td>Buffalo History Museum</td>
<td>25 Nottingham Ct.</td>
<td>7/12/1979</td>
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<td>Buffalo Lighthouse</td>
<td>1 Fuhrmann Blbd.</td>
<td>5/8/1986</td>
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<td>Great Northern Elevator &amp; Pillsbury Mill</td>
<td>8 City Ship Canal</td>
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<td>Buffalo Gas Light Works</td>
<td>257 West Genesee St.</td>
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<td>Breckenridge Street Church (First Presbyterian Church of Black Rock)</td>
<td>44 Breckenridge St.</td>
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<td>Swannie House</td>
<td>170 Ohio St.</td>
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<td>Buffalo Terminal House</td>
<td>2280 Niagara Street</td>
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**Landmarks listed on the National Register of Historic Places**

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<td>Riverside Park</td>
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<td>Smith House &amp; Tavern</td>
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<td>Albright Knox Art Gallery</td>
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<td>Lincoln Parkway Bridge</td>
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<td>Prospect Hill Historic District</td>
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**BUFFALO Local Waterfront Restoration Program**
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<th>Notes</th>
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<tr>
<td>Prospect Park</td>
<td>730 and 779 Niagara</td>
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<tr>
<td>Buffalo Gas Light Co.</td>
<td>257 Genesee West</td>
<td>9/1/1976</td>
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<td>USS Croaker</td>
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<td>9/12/2008</td>
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<tr>
<td>USS The Sullivans</td>
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<td>1/14/1986</td>
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<td>Buffalo North Breakwater South End Light</td>
<td></td>
<td>8/4/1983</td>
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<td>Buffalo Main Light</td>
<td>1 Fuhrmann</td>
<td>7/19/1984</td>
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<td>E. &amp; B. Holmes Machinery Co.</td>
<td>55 Chicago</td>
<td>6/2/2009</td>
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<td>American Elevator Complex</td>
<td>139 Buffalo River</td>
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<td>Cazenovia Park - South Park System</td>
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<td>3/30/1982</td>
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<tr>
<td>South Park Conservatory</td>
<td>2451 South Park</td>
<td>3/30/1982</td>
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<tr>
<td>South Park Loop Road Bridge</td>
<td>2441 South Park</td>
<td>3/30/1982</td>
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<td>Concrete Central Elevator</td>
<td>175 Buffalo River</td>
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<td>Cazenovia Branch Public Library</td>
<td>161 Cazenovia</td>
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<tr>
<td>Peter J. Krotty Casino at Cazenovia Park</td>
<td>161 Cazenovia</td>
<td>3/30/1982</td>
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<tr>
<td>Buffalo Harbor South Entrance Light</td>
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Properties eligible to be listed on the National Register of Historic Places

<table>
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<tr>
<th>Property Eligible for the NRHP</th>
<th>Address</th>
<th>Within Historic District</th>
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<tr>
<td>Jubilee Library</td>
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<td></td>
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<tr>
<td>1888 Niagara</td>
<td>1888 Niagara</td>
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<tr>
<td>Black Rock Canal Lock</td>
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</tr>
<tr>
<td>US Army Corps Building 7</td>
<td>1790 Niagara</td>
<td></td>
</tr>
<tr>
<td>Canadian National Railway Freight Office</td>
<td>100 Inter Bridge</td>
<td></td>
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<tr>
<td>164 Dearborn</td>
<td>164 Dearborn</td>
<td></td>
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<tr>
<td>International Railroad Bridge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polish Cadet Hall</td>
<td>927 Grant</td>
<td></td>
</tr>
<tr>
<td>Hook &amp; Ladder #12</td>
<td>395 Amherst</td>
<td></td>
</tr>
<tr>
<td>People’s Bank of Buffalo</td>
<td>415 Amherst</td>
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<tr>
<td>Assumption R.C. Church</td>
<td>417 Amherst</td>
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<tr>
<td>F.N. Burt Co. Factory C</td>
<td>1502 Niagara</td>
<td></td>
</tr>
<tr>
<td>The Mentholatum Co. Building</td>
<td>1360 Niagara</td>
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<tr>
<td>Upper Black Rock Historic District</td>
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</tr>
<tr>
<td>Sowers Mfg. Co.</td>
<td>1294 Niagara</td>
<td>Upper Black Rock HD</td>
</tr>
<tr>
<td>Buffalo Gasoline Motor Co.</td>
<td>1280 Niagara, 20 Auburn</td>
<td>Upper Black Rock HD</td>
</tr>
<tr>
<td>Belt Line Railroad Bridge (Foot of Auburn)</td>
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<td>Upper Black Rock HD</td>
</tr>
<tr>
<td>Sterline Engine Co.</td>
<td>1270 Niagara, 42 Breckenridge</td>
<td>Upper Black Rock HD</td>
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<tr>
<td>19 Mason</td>
<td>19 Mason</td>
<td>Upper Black Rock HD</td>
</tr>
<tr>
<td>First Presbyterian Church of Black Rock</td>
<td>44 Breckenridge</td>
<td>Upper Black Rock HD</td>
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<tr>
<td>Curtiss Company Malt House</td>
<td>1100 Niagara</td>
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<tr>
<td>Niagara Lithograph Co.</td>
<td>1050 Niagara</td>
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<tr>
<td>Cling Surface Co.</td>
<td>1032 Niagara</td>
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<tr>
<td>Buffalo General Electric Co.</td>
<td>960 Busti, 996 Busti, 990 Niagara</td>
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<tr>
<td>Peace Bridge</td>
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<tr>
<td>Hutchinson Memorial Chapel</td>
<td>825 Busti</td>
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<td>793 Busti</td>
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<td>777 Busti</td>
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<td>771 Busti</td>
<td>771 Busti</td>
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<tr>
<td>Buffalo Naval Militia Boathouse</td>
<td>1 Black Rock Harbor</td>
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<tr>
<td>Public School #3</td>
<td>245 Porter</td>
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<tr>
<td>Schaefer &amp; Brother Malt House/Merckens Chocolate Co.</td>
<td>520 Seventh</td>
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<td>588 Niagara</td>
<td>588 Niagara</td>
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<tr>
<td>The Franklin</td>
<td>523 Busti</td>
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<tr>
<td>484 Busti</td>
<td>484 Busti</td>
<td></td>
</tr>
<tr>
<td>464 Seventh</td>
<td>464 Seventh</td>
<td></td>
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<td>438 Busti</td>
<td>438 Busti</td>
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<td>Property Eligible for the NRHP</td>
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<td>-------------------------------------------------------------------</td>
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<tr>
<td>Holy Cross R.C. Church</td>
<td>104 Maryland</td>
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<td>Shoreline Apartments</td>
<td>270 Niagara</td>
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<td>Pine Harbor Apartments</td>
<td>99 Carolina</td>
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<td>St. Anthony of Padua R.C. Church</td>
<td>154 Court</td>
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<tr>
<td>Marine Drive Apartments/Dante Place</td>
<td>100 Erie</td>
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<td>USS Little Rock</td>
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<td>Connecting Terminal Elevator</td>
<td>32 Fuhrmann</td>
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<td>Cobblestone Historic District</td>
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<td>Certified Local HD</td>
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<td>S.M. Flickinger Co. Warehouse</td>
<td>79 Perry</td>
<td>Cobblestone HD</td>
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<td>Aldrich Manufacturing Co.</td>
<td>55 Illinois</td>
<td>Cobblestone HD</td>
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<td>Queen City Engineering Factory Building</td>
<td>49 Illinois</td>
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<td>Tashenberg Brothers</td>
<td>45 Illinois</td>
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<td>Phoenix Die Casting Co.</td>
<td>110 South Park</td>
<td>Cobblestone HD</td>
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<td>118 South Park</td>
<td>118 South Park</td>
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<tr>
<td>130 South Park</td>
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<tr>
<td>Knowlton Warehouse</td>
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<td>Swannie House</td>
<td>170 Ohio</td>
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<td>NYC Freight House</td>
<td>212 Ohio</td>
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<td>311 South Park</td>
<td>311 South Park</td>
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<tr>
<td>119 Chicago</td>
<td>119 Chicago</td>
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<tr>
<td>General Mills Elevator</td>
<td>4 City Ship Canal</td>
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<td>Spencer Kellogg Elevator</td>
<td>389 Ganson</td>
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<tr>
<td>Great Northern Elevator</td>
<td>8 City Ship Canal</td>
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<td>Fire Department Station 10</td>
<td>30 Ganson</td>
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<tr>
<td>Huron Cement Elevator</td>
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<tr>
<td>Truck/Train Transfer Building</td>
<td>630 Ohio</td>
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<td>Electric Elevator</td>
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<td>Perot Malting Elevator</td>
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<td>Lake and Rail Elevator</td>
<td>151 Buffalo River</td>
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<td>Marine A Elevator</td>
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<td>Barcalo Manufacturing Co.</td>
<td>225 Louisiana</td>
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<tr>
<td>Our Lady of Perpetual Help R.C. Church</td>
<td>125 O Connell</td>
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</tr>
<tr>
<td>Buffalo Police Precinct #7</td>
<td>294 Louisiana</td>
<td></td>
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<td>Port Terminal Building A (Ford Motor Co. Plant)</td>
<td>901 Fuhrmann</td>
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<td>Cargill Pool Elevator</td>
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<td>Independent Cement Co. Elevator</td>
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<td>South Park Avenue Lift Bridge</td>
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<td>St. Stephen’s R.C. Church Complex</td>
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<tr>
<td>Public School #69</td>
<td>1677 Clinton</td>
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</tr>
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</table>
F. Great Lakes Seaway Trail

The Great Lakes Seaway Trail is a 518 mile National Scenic Byway that follows the shores of Lake Erie, the Niagara River, Lake Ontario, and the St. Lawrence River. Within the City of Buffalo, the Great Lakes Seaway Trail follows Niagara Street south to Niagara Square, then travels south on Delaware Avenue to Route 5 and south to the City line.

The reconstruction of Ohio Street and Fuhrmann Boulevard creates an opportunity to offer a local Great Lakes Seaway Trail route alternative. Travelers can either follow the Route 5 highway or drive at grade through the Canalside, Cobblestone and grain elevator districts.

G. Local Waterfront Scenic Areas

In addition to the historic and cultural assets which serve as Buffalo waterfront landmarks, there are several scenic features associated with the waterfront. These include:

1. Waterfront Sunsets

Located at the eastern end of Lake Erie, Buffalo is the only Great Lakes city to enjoy a view of the sun setting over water.

2. Canada

Buffalo’s location on the opposite shore of Fort Erie in Ontario affords unique views of the Canadian shoreline, including Fort Erie’s beaches, Old Fort Erie and the Niagara River Parkway.

3. Marinas

Buffalo’s marinas are the heart of the community’s engagement with its water. Boats, fishing, shoreline trails and restaurant facilities create opportunities for residents and visitors to actively utilize the region’s fresh water resources.
VII. TRANSPORTATION

Niagara River Greenway Plan Action Plan (Section F) deals extensively with transportation issues.

The transportation facilities that provide access to the Niagara River Greenway are essential to its overall success. Roads can provide access but they can also serve as barriers to public access and enjoyment of the Niagara River. Achieving a balance between providing ease of access to the properties and uses along a transportation route and facilitating traffic movement through the region is difficult. People want to be able to get to their destinations easily and without delay. However, the focus within the Greenway is to create a climate in which people can comfortably navigate through the system and enjoy all of its assets, activities and attractions, not to promote the rapid movement of vehicles through the area.

The greenway should facilitate alternative transportation along the river corridor, while always respecting environmental sensitivities…

As a general rule, excess pavement should be discouraged, and design should reflect a greater emphasis on pedestrians, bicyclists and other non-motorized traffic.

Transportation projects within the Greenway should avoid creation of barriers between the water’s edge and the neighborhoods surrounding it. Interstate 190 in the City of Buffalo cut off physical and visual access to the water’s edge. To the extent that future transportation planning and improvements can mitigate this damage, they should be encouraged. Removal of the I-190 and building an alternative (non-interstate) route away from the Niagara River is obviously a very ambitious, expensive and long-term project. However, if redesign or relocation is able to go forward, it would be an important enhancement to the Greenway.

Transportation projects should seek to maximize access to the resources along the River. The realignment of Erie Street as proposed by the City of Buffalo, will re-establish view sheds from downtown Buffalo to the waterfront, recreating a stronger connection between the City and the waterfront that helped create it.

For routes near the water, the focus should be on access by alternate transportation modes, including non-motorized traffic, rather than a singular focus on the efficient movement of traffic.

Transportation projects within the Greenway should also prioritize land use over efficiency of traffic movement. Where there is overbuilt capacity, there should be a preference for returning excess pavement to another use.

Transportation projects should seek to minimize their intrusiveness. More than ten years of intensive planning for the Peace Bridge expansion project has been complicated and faced with many constraints. Selection of a preferred alternative must be made within the context of a comprehensive evaluation process. However, there should be a preference for an alternative that complements Front Park, that helps restore the connections between the City and the waterfront, and is true to Olmsted’s vision.

A. Great Lakes Seaway Trail

As discussed above in Inventory Section V.F., the Great Lakes Seaway Trail is a 518-mile National Scenic Byway that follows the shores of Lake Erie, the Niagara River, Lake Ontario, and the St. Lawrence River.

In the northern half of the City’s waterfront, Niagara Street (a substantial segment of the Great Lakes Seaway Trail in Buffalo) serves as the major waterfront transportation corridor connecting several waterfront parks, neighborhood centers and employment areas. Currently, Niagara Street is a wide expanse of pavement, with billboards, minimal right-of-way landscaping, few traffic calming measures, and minimal bike and pedestrian facilities. Travel speeds regularly exceed the posted speed limit by 15 miles per hour or more creating dangerous conditions that have resulted in numerous accidents, including one fatality in 2013.

The City of Buffalo is working with stakeholders and partners to reconstruct Niagara Street as a complete, green street with traffic calming measures, clear bicycle and pedestrian facilities, improved transit, street furniture, landscaping and heritage interpretation, where appropriate.
The Niagara Street project will complement the 2011 reconstruction of Fuhrmann Boulevard and the 2014 reconstruction of Ohio Street, to form a true local network of attractive, complete and green streets along the City's waterfront. Buffalo waterfront travelers can either follow the Route 5 highway or drive at grade through the Canalside, Cobblestone and grain elevator districts.

B. Neighborhood Connections

Limited access highways dominate the Buffalo waterfront, creating visual and access barriers between neighborhoods and the waterfront, consuming substantial waterfront land and generating noise and air pollution. However, the Niagara/Ohio/Fuhrmann/South Park local waterfront roadway system offers several physical and visual access connections between the City's waterfront and its neighborhoods.

TABLE VIII H. WATERFRONT STREET CONNECTIONS

<table>
<thead>
<tr>
<th>Vulcan Street</th>
<th>Ontario Street</th>
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<tbody>
<tr>
<td>Hertel Avenue</td>
<td>Austin Street</td>
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<td>Amherst Street</td>
<td>Forest Avenue</td>
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<tr>
<td>Delevan Avenue</td>
<td>Lafayette Avenue</td>
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<td>West Ferry</td>
<td>Albany Street</td>
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<tr>
<td>Hampshire</td>
<td>Massachusetts Avenue</td>
</tr>
<tr>
<td>Porter Avenue</td>
<td>Hudson Street</td>
</tr>
<tr>
<td>Genesee Street (historic)</td>
<td>Erie Street</td>
</tr>
<tr>
<td>Main Street</td>
<td>Michigan Avenue</td>
</tr>
<tr>
<td>Louisiana Avenue</td>
<td>Hamburg</td>
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<td>Katherine</td>
<td>Smith/Fillmore</td>
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<tr>
<td>Bailey Avenue</td>
<td>Ogden Street</td>
</tr>
<tr>
<td>Seneca Street</td>
<td>Tifft Street</td>
</tr>
</tbody>
</table>

The Greater Buffalo Niagara Regional Transportation Council (GBNRTC) has included funding for the extension of Erie Street, from Franklin Street to Main Street, as a four lane roadway in its 2035 Long Range Transportation Plan.

C. Complete Streets

A complete street provides for the safe, convenient and comfortable travel by foot, bicycle, transit, vehicle, car and truck. In 2011, the Common Council adopted a Complete Street's Ordinance\(^\text{29}\) that supports the development of a system of bikeways, pedestrian facilities and shared use paths, bicycle parking and safe crossings connecting residences, businesses and public places. The City promotes bicycling and walking for health, environmental sustainability, exercise, transportation and recreation.

Buffalo's Complete Street ordinance requires that bicycle and pedestrian facilities be provided in all new construction, reconstruction and maintenance projects unless one of the following conditions is met:

- Bicyclists and pedestrians are prohibited by law from using the roadway. In this instance, bicyclists and pedestrians will be accommodated elsewhere within the right-of-way or within the same transportation corridor;
- The cost of establishing bikeways or walkways would be excessively disproportionate to the need or probable use. Disproportionate is defined as exceeding 20% of the cost of the larger project; or
- In cases where the existing right-of-way does not allow for sidewalks, bike lanes, paths or other improvements, potential alternatives will include the appropriate use of paved shoulders,

\(^{29}\) See Buffalo City Code, Chapter 413, Article XIV (http://ecode360.com/13626736).
signage, traffic calming and/or enhanced education and enforcement.

Bicycle and pedestrian facilities will be provided and maintained in accordance with guidelines adopted by the United States Department of Transportation (USDOT), New York State Department of Transportation and the American Association of State Highway & Transportation Officials. On county and state maintained roadways within the City, bicycle and pedestrian facilities will be provided in accordance with this policy.

D. Public Transit

Public bus transit service, which is provided by the Niagara Frontier Transportation Authority (NFTA), operates along most of the local roadways within the LWRA. Service is provided seven days a week, with reduced service on non-business days. This bus system uses downtown Buffalo as the major hub where riders can transfer from one bus line to another to move throughout the LWRA. Riders may also transfer from local bus service to access the NFTA light rail line, which runs along Main Street. A rail station is located in the Inner Harbor. The NFTA Bus Terminal serves Greyhound and other regional bus carriers and acts as a transfer station for the local bus system.

The GBNRTC 2035 Long Range Transportation plan includes funding for “High Quality/High Capacity Transit service between LaSalle Station and Tonawanda City along Main and Niagara Street.”

E. Waterfront Highways

Three major limited access highways are located within the Buffalo LWRA including:

- Interstate-190 owned by the New York State Thruway Authority;
- NYS Route 198 (Scajaquada Expressway) owned by the New York State Department of Transportation; and
- NYS Route 5 (Great Lakes Seaway Trail National Scenic Byway) owned by the New York State Department of Transportation.

Two major projects to address waterfront highways are included on both the region’s Transportation Improvement Program and GBNRTC 2035 Long Range Transportation Plan. In addition, the Tifft Street project is listed on the GBNRTC 2035 Long Range Transportation Plan.

1. Scajaquada Corridor Project

Built in the 1960s and running through Delaware Park, the NYS 198 Scajaquada Expressway is part of the National Highway System. This divided highway with grade separated interchanges carries between 37,600 and 65,000 vehicles per day. It is located between Interstate 190 and New York State Route 33 Kensington Expressway.

The New York State Department of Transportation has recently implemented a number of measures to improve safety along the Scajaquada Expressway including reducing the speed limit; adding speed limit and stop signs, radar speed trailers, and new guiderails; and removing acceleration, deceleration, and weaving lanes.

Over the past several years the NYSDOT has been exploring options to convert the Scajaquada Expressway into a context sensitive, principal urban arterial and landscaped boulevard. However, in January 2018, the NYSDOT decided to rescind work on the Environmental Impact Statement and not move forward with their most recent proposed plan, due to not being able to achieve a community consensus. The NYSDOT indicated that they will reengage stakeholders in the future to start a fresh dialogue with the community.

2. Outer Harbor Bridge

Buffalo Harbor Bridge Study, developed for Erie Canal Harbor Development Corporation (ECHDC), seeks to determine possible locations and structural options for a rapid access vehicle and pedestrian connector between the Inner and Outer Harbors. The proposed Buffalo Harbor Bridge is intended to replace the capacity of the former South Michigan Avenue Bridge over the City Ship Canal. The former South Michigan Avenue Bridge once passed over the City Ship Canal in the vicinity of the General Mills Plant and connected Michigan Avenue to...
Fuhrmann Boulevard. It was rendered inoperable and removed by the City of Buffalo in the early 1960s.

The Buffalo Harbor Bridge Study is now in the Draft Environmental Impact Statement stage and ECDHC is working toward a community-preferred alternative. Final design and construction will commence after completion of the Buffalo Harbor Bridge environmental impact statement and funding is awarded. The Buffalo Harbor Bridge will provide a vital link between Buffalo’s Central Business District, Canalside and developable land on the Outer Harbor.

3. Tifft Street Arterial

The Southtowns Connector project and South Buffalo Brownfields Opportunity Area study analyzed opportunities to develop a direct connection from Tifft Street to the I-190, just north of Seneca Street, to divert traffic from the City’s waterfront and support the development of the Riverbend site. The corridor right-of-way has been preserved in the Riverbend BOA planning efforts.

4. Former Thruway Toll Plaza

In 2006, the New York State Thruway Authority ceased the collection of tolls at the Breckenridge Toll Plaza located along the Black Rock Canal. Since that time, the toll facilities have been removed. The site has been identified as an opportunity for improving public access to the Black Rock Canal.
F. International Crossings

1. Peace Bridge

The Peace Bridge, a major international crossing to Canada, is located within the LWRA.

   a. Shared Border Management

   The Buffalo and Fort Erie Public Bridge Authority is one of two US-Canadian pilot sites where officials will determine whether it’s more efficient to inspect cargo headed for America in Canada rather than the U.S. If the pilot project is successful, Bridge Authority officials have suggested that by 2015 a plan could be in place to move the first-line inspections of all truck cargo to the much larger Peace Bridge property in Fort Erie; which could eliminate the need for additional inspection booths on the American side. The Authority will have to build a new secondary inspection facility in Buffalo for approximately 10 percent of truck traffic.

   b. Plaza Changes

   In 2013, the Authority announced plans to:

   - Relocate its entry ramp off Porter Avenue, just past Fourth Street, where an entrance to the northbound
   - Remove the current entry road, restoring Olmsted’s Front Park;
   - Create a single plaza exit system with vehicles going
     - onto the existing ramp to the southbound I-190;
     - to a new, direct ramp to the northbound I-190; or
     - onto Niagara Street.

   No final plans have been presented to the public. The layout for the proposed changes is illustrated below.

2. Passenger Rail to Toronto and Eastern New York

   The VIA Rail/Amtrak’s Maple Leaf line travels from New York City through Buffalo and Niagara Falls to Toronto, Ontario. The Amtrak line in Buffalo runs parallel to Interstate 190. A rail station is located two blocks east of Main Street, near the Inner Harbor. The GBNRTC 2035 Long Range Plan includes funding for the Buffalo/Niagara Falls commuter rail service improvements between Buffalo Exchange Street Amtrak Station and the Niagara Falls Amtrak station.

   On weekends and holidays, GO Transit, the regional public transit service for the Greater Toronto and

   [Diagram of Peace Bridge area with key annotations]

   Key
   1. Non-freeway traffic flow to a single point of ingress and egress from the plaza.
   2. Add direct connection from the L.T. Plaza to the northbound Thruway I-190/Buffalo Expressway.
   3. Add new access points to the Peace Bridge from the City of Buffalo to off Park Avenue.
   4. Remove Band Box from Forest Park.

Niagara Thruway exists, with either a roundabout or signalized intersection;
Hamilton Area, provides four rail and one bus round trips supplementing the two VIA Rail daily runs between Toronto and Niagara Falls, Ontario. One of the greatest challenges to a direct Toronto - Niagara Falls - Buffalo connection is the customs inspection process. Presently, after trains cross the border, agents board the train to check passports and visas and inspect luggage. Although the current schedule allows for an hour and fifteen minutes into Canada and almost two hours into the United States to clear the border, these trains can be delayed by passport or customs issues.

3. International Railroad Bridge

Freight trains crossing the Black Rock Canal and the Niagara River into Canada use the International Railroad Bridge. There are no customs facilities located in Buffalo for train inspection.

G. Rail

There are several major rail corridors within the LWRA. These are owned and operated by Norfolk Southern, Canadian National Railroad, CSX and Buffalo Southern. The greatest presence of railroads is in South Buffalo, where several major lines meet at large switching yards, and several local businesses still utilize the railroad for moving freight. The major railroad line from Buffalo to Erie Pennsylvania and destinations in the western United States is located directly east of the Tifft Nature Preserve. This line is operated by CSX. There are major rail spurs that run off of this line throughout the area that serve grain and feed mills, steel fabricators, sand and cement companies, and chemical companies.

There are two major crossings over the Buffalo River located near the South Park Avenue Lift Bridge. The first bridge moves freight from the Amtrak line along the I-190 to the CSX corridor; the second line moves freight from the CSX lines that travel from Boston, Albany and Syracuse to a western railroad line also operated by CSX.
VIII. ENERGY

In 2014, the City of Buffalo, with support from the New York Power Authority, prepared a City Energy Master Plan. The plan provides baseline data on local government and community wide building and transportation energy consumption. Several City-wide energy-saving opportunities were identified for further development including the LED streetlight conversions, district energy improvements, building energy conservation projects and renewable energy generation projects.

Increasingly, shorelines and aquatic environments have been the subject of interest of energy development projects. Several proposals have been developed for the Buffalo waterfront including district energy facilities, ethanol production, wind turbines, and hydrokinetic proposals.

A. District Energy

District energy systems produce steam, hot water or chilled water at a central plant. The steam, hot water or chilled water is then piped underground to individual buildings for space heating, domestic hot water heating and air conditioning. As a result, individual buildings served by a district energy system don’t need their own boilers or furnaces, chillers or air conditioners. The district energy system does that work for them, providing valuable benefits including:

- Improved energy efficiency
- Enhanced environmental protection
- Fuel flexibility
- Ease of operation and maintenance
- Reliability
- Comfort and convenience for customers
- Decreased life-cycle costs
- Decreased building capital costs
- Improved architectural design flexibility

The City of Buffalo has a District Energy system located within the LWRA. The City of Buffalo District Heating Plant is located in the Fire Headquarters, immediately west of City Hall and currently provides heat to the Fire Headquarters, City Court, City Hall, Family Court, County Office and Old City Hall buildings. Through the City Energy Plan development process, the City is exploring options for expanding the portfolio of buildings utilizing district heat.

B. Geothermal

Geothermal systems use the relative constant temperature of earth to provide heating and cooling of buildings. Below the surface of the earth throughout New York, the temperature remains in the low 50°F throughout the year. Geothermal systems circulate a fluid between the building and loops of piping buried in the ground. In the summer, the fluid picks up heat from the building and deposit into the ground. In the winter, the fluid picks up heat from the ground and moves it to the building.

Because geothermal installations are located below ground, they are not specifically addressed in the Buffalo Green Code.

C. Solar

According to NOAA’s National Climactic Data Center, Buffalo enjoys an average annual total of nearly 2,205 sunshine hours, or 48% of the possible total annually. The
City typically has 54 sunny days when the sky is mostly clear. This includes the days when cloud covers up to 30% of the sky during daylight hours. The City also has 103 partly sunny days with cloud covering from 40% to 70% of the sky during the daytime. All the numbers are annual averages, made from years of weather watching.

The Buffalo Green Code permits the installation of solar energy systems within the LWRA as accessory uses. Solar farms are also permitted in the N-1S, D-M, D-E, D-S, D-C, D-IL and D-IH zones. A special use permit is needed for solar farms in the D-R zone.

D. Wind

1. Upland Wind Development

The U.S. Department of Energy provides an 80-meter (m) height, high-resolution wind resource map for the United States with links to state wind maps. States, utilities, and wind energy developers use utility-scale wind resource maps to locate and quantify the wind resource, identifying potentially windy sites within a fairly large region and determining a potential site’s economic and technical viability. According to these maps, land along the Buffalo shoreline has an average wind speed of 6.5-7 meters per second, meeting the 6.5 meter per second threshold for commercially acceptable wind generation.

According to the National Weather Service of the NOAA, though wind directions vary day by day, the average wind directions are from southwest to west during the winter season, while they are from northwest to north-northwest during the summer. Average wind directions range from southwest to west-northwest during the spring and fall. Average wind speed ranges from 6.9 mph (November) to 12.5 mph (April), according to the data of 2009. The highest wind speed was recorded at 43 mph in December, according to the 2009 data.

The Buffalo Green Code permits the development of wind farms within the LWRA subject to site plan review.

2. Off-Shore Wind

From 2009 through 2011, the New York Power Authority explored the development of off-shore wind in Lake Erie and Lake Ontario through its Great Lakes Off-shore Wind (FLOW) project. The analysis indicated that there was the potential for off-shore wind in Lake Erie in Western New York.

In March 2011, the Erie County Legislature formally opposed the “exploitation of Lake Erie as a site for a wind farm.”
E. Hydrokinetic

In 2008, hydrokinetic developer, Free Flow Power Corp., applied to the Federal Energy Regulatory Commission for a preliminary permit, on behalf of its FFP Niagara Project I LLC, to study the 17.5-MW Niagara River hydrokinetic project (No. 13098) above the falls. That project would have utilized 875 Free Flow Power hydrokinetic units grouped in matrices placed along 17.5 miles of the Niagara River from Peace Bridge, within the LWRA, to the lower end of Grand Island, above Niagara Falls. The company later withdrew their proposal.

F. Natural Gas

In 2002, Congress imposed a moratorium on drilling on or directionally beneath the Great Lakes. The ban was made permanent by the Energy Policy Act of 2005.

NYS Environmental Conservation Law (ECL) § 23-1101 (1) restricts the DEC from making a lease for the exploration, development and production of oil in state-owned lands under the waters of Lake Erie or along its shoreline.

NYS ECL § 23-1101 (3) prohibits the development of natural gas wells nearer than one-half mile from the Lake Erie shoreline, two miles from public water supply intakes, and 1,000 feet from any other structure or installation on or in Lake Erie.

In January 2014, Erie County Executive Poloncarz signed into law a prohibition on:

- hydraulic fracturing on land owned by Erie County;
- the storage, disposal, or treatment of natural gas waste and fracturing fluids or solids by any wastewater treatment facility owned or operated by Erie County;
- the purchase or acquisition of such materials by Erie County; and
- the application of any of these products to construct or maintain any road owned or maintained by Erie County.

Chapter 288-4 of the Code of the City of Buffalo prohibits the exploration for or extraction of natural gas within the City of Buffalo.

In December 2006, the Buffalo Sewer Authority (BSA) prohibited the acceptance of hydraulic fracturing industrial discharges pending regulator review. In March 2011, the BSA Board of Directors authorized the General Manager to “continue its established policy of prohibiting the acceptance of hydraulic fracturing industrial discharges from natural gas well sites.”

In December 2014, Governor Cuomo announced that the State would not permit hydraulic fracturing based upon the weight of the scientific evidence considered by the NYSDEC.
IX. CONTAMINANT HAZARDS

Contaminant hazards exist in the LWRA in conjunction with both ongoing activities and the City’s industrial past. The BOAs included a detailed list of sites containing State Superfund Clean Up Sites, Environmental Restoration Program Clean Up Sites, Hazardous Waste Clean Up Sites, and Brownfield Clean Up Sites.

The LWRP policies support the cleanup of legacy contamination within the LWRA, including in submerged sediment.

The UDO prohibits several new waterfront uses that have strong potential to introduce contaminant hazards. Instead, these uses are directed to areas of the City where their potential to impact surface waters is limited.
Appendix A. Local Waterfront Revitalization Area Boundary

1. Original New York State Coastal Area Boundary (1972)

Upland Boundary
The coastal area boundary, as established under the New York State Coastal Management Program (CMP), begins at a point where the mean high water line of the Niagara River meets the northern corporate boundary between the City of Buffalo and the Town of Tonawanda, at the foot of Vulcan Street;

- the boundary then proceeds east to a point where it intersects with the centerline of Niagara Street;
- then south along the centerline of Niagara Street (State Route 266) to the intersection with Tonawanda Street;
- then east across Tonawanda Street to the northern right-of-way of State Route 198 (Scajauquada Expressway) and continues east, following a line measuring 100 feet from the top of the bank, on the northern shoreline of Scajauquada Creek, to the centerline of Howell Street at its terminus;
- then southeast, across the creek, to a point measuring 100 feet from the top of the bank on the southern shoreline of Scajauquada Creek;
- then proceeding in a southwesterly direction, following this line along the creek, to a point where it meets the southern right-of-way of the Scajauquada Expressway;
- then south along this right-of-way to a point where it intersects with the centerline of Niagara Street;
- then south and then southeast along the centerline of Niagara Street to a point where it intersects with Busti Avenue;
- then southwesterly along Busti Avenue to a point where it intersects with the northern right-of-way of the Niagara section of the New York State Thruway (Interstate 190).
- then southeasterly along Interstate 190 (I-190) to a point where it intersects with the Skyway (NYS Route 5);
- then southeasterly along the centerline of the Skyway to a point where it intersects with South Park Avenue;
- then east along the centerline of South Park Avenue to a point where it intersects with Michigan Avenue;
- then south along the centerline of Michigan Avenue to a point where it intersects with Ohio Street;
- then southeasterly along Ohio Street to the point where it intersection with the centerline of South Street;
- then east along the centerline of South Street to a point where it meets Hamburg Street;
- then in a northerly direction along the centerline of Hamburg Street to a point where it meets the curved CSX/Conrail right-of-way (ROW) for the former Erie Railroad;
- then northeast along the railway ROW to a point where it intersects with the ROW for the CSX/Conrail ROW for the former DL&W Railroad;
- then southeast along this railway ROW to a point where it intersects with ROW for the Norfolk Western Railroad ROW;
- then northeast along this railway ROW to a point where it intersects with Elk Street;
- then east along Elk Street to a point where it intersects with the second CSX/Conrail ROW for the former DL&W Railroad;
- then southwesterly along this railway ROW to a point where it intersects with a third railway right-of-way owned by CSX/Conrail;
- then south along this railway right-of-way line to Tifft Street;
- then west along the centerline of Tifft Street to a point where it intersects with the western right-of-way of the previously mentioned third CSX/Conrail railroad ROW;
- then south along this railroad corridor to the City of Buffalo corporate boundary; and
- then west along this boundary between the City of Buffalo and the City of Lackawanna to the mean high water line of Lake Erie.

**Waterside Boundary**

The waterside boundary of the coastal area proceeds west, approximately 19,000 feet from the mean high water line of Lake Erie to the international boundary between the United States and Canada. The boundary then proceeds north along the international borderline to a point approximately 1,300 feet south of the southernmost point of Strawberry Island. The boundary then proceeds northeast to a point along the shoreline where the City of Buffalo corporate boundary abuts with the municipal boundary of the Town of Tonawanda, also the point of beginning for the upland boundary.
2. **Local Waterfront Revitalization Area Boundary**

The following description and proposed subsequent revisions to the New York State Coastal Area boundary were included as a part of the City of Buffalo Local Waterfront Revitalization Program. The Local Waterfront Revitalization Area (LWRA) boundary, as shown on Map 1 in Section 1 of the LWRP, includes the coastal upland area and all surface waters that lie within the jurisdiction of the City of Buffalo, as described below.

**Upland Boundary**

The upland boundary of the LWRA begins at a point where the mean high water line of the Niagara River meets the corporate boundary between the City of Buffalo and the Town of Tonawanda and extends east to intersect with the centerline of Tonawanda Street;

- the boundary then extends south along the centerline of Tonawanda Street to a point where it intersects with Riverside Avenue;
- then west along the centerline of Crowley Avenue to Niagara Street;
- then southeast along the Niagara Street right of way eastern boundary to a point where it intersects with Amherst Street;
- then northeast along the centerline of Amherst Street to a point approximately 900 feet west of the centerline of Elmwood Avenue;
- then south to a point where it intersects with, and then follows, the centerline of Beaumaris Place south to a point where it intersects with the centerline of Elmview Place;
- then east along the centerline of Elmview Place to a point where it intersects with Elmwood Avenue;
- then south along the centerline of Elmwood Avenue to a point where it intersects with Nottingham Drive;
- then east along the centerline of Nottingham Drive to Delaware Avenue;
- then east along the northern boundary of Forest Lawn Cemetery to Main Street;
- then south west along the centerline of Main Street to East Delevan;
- then west along the centerline of East Delevan to Delaware Avenue;
- then north along the centerline of Delaware Avenue to point where it intersects with Rumsey Road;
- then northwesterly along Rumsey Road to a point where it intersects with Lincoln Parkway;
- then north along the western right-of-way of Lincoln Parkway to the southern right-of-way of State Route 198 (Scajaquada Expressway);
- then west along the southern right-of-way of Route 198 to a point where it intersects with Grant Street;
• then south along the centerline of Grant Street to a point where it intersects with Letchworth Street;
• then west along the centerline of Letchworth Street to a point where it intersects with Dart Street;
• then south along Dart Street to a point where it intersects with Bradley Street;
• then west along the centerline of Bradley Street to Danforth Street;
• then south along the centerline of Danforth Street to a point where it intersects with Forest Avenue;
• then west along the centerline of Forest Avenue to a point where it intersects with Niagara Street;
• then south along the Niagara Street right of way eastern boundary to a point where it intersects with south Elmwood;
• then south along the centerline of south Elmwood to a point where it intersects with Lower Terrace;
• then south along the centerline of Lower Terrace to a point where it intersects with Upper Terrace;
• then east along the centerline of Upper Terrace to a point where it intersects with Washington Street;
• then south along centerline of Washington Street to a point where it intersects with Perry Street;
• then east along the centerline of Perry Street to a point where it intersects with Michigan Avenue;
• then south along the centerline of Michigan Avenue to a point where it intersections with South Park Avenue;
• then east along centerline of South Park Avenue to a point where it intersects with Elk Street and continues east;
• then following the centerline of Elk Street east to a point where it intersects with Bailey Avenue;
• then northeast along the centerline of Bailey Avenue to a point where it intersects with Clinton Street (State Route 354);
• then east along the centerline of Clinton Street to a point where it intersects with Spann Street;
• then south along the centerline of Spann Street to a point where it intersects with Casimir Street;
• then east along the centerline of Casimir Street to a point where it intersects with Fenton Street;
• then south along the centerline of Fenton Street to Seward Street;
• then east along the centerline of Seward Street, across South Ogden Street, to a point where it intersects with the City of Buffalo corporate line;
• then south along the Buffalo municipal boundary to a point where it intersects with Mineral Springs Road;
• then southwesterly along the centerline of Mineral Springs Road to a point where it intersects with Seneca Street (State Route 16);
• then following the centerline of Seneca Street northwesterly to a point where it intersects with Southside Parkway;
• then south along the center of Southside Parkway to a point where it intersects with North Legion Drive;
• then south along the centerline of North Legion Drive to a point where it intersects with Cazenovia Street;
• then north along the centerline of Cazenovia Street to a point where it again intersects with Seneca Street (State Route 16);
• then southeasterly along the centerline of Seneca Street to the City of Buffalo corporate line;
• then following the corporate line south to a point where it intersects with Potters Road;
• then northwesterly along Potters Road to a point where it meets Cazenovia Street;
• then north along the centerline of Cazenovia Street to a point where it intersects with South Legion Street;
• then following the centerline of South Legion Street north to a point where it intersects with Southside Parkway;
• then following the centerline of Southside Parkway south to a point where it intersects with Almont Street;
• then west along the centerline of Almont Street to a point where it intersects with McKinley Parkway;
• then northwest along the centerline of McKinley Parkway to a point where it intersects with Bailey Avenue (State Route 62);
• then southwest along the centerline of Bailey Avenue to a point where it intersects with South Park Avenue;
• then west along South Park Avenue to a point where it intersects with the southern right-of-way line of a former Conrail railroad corridor, approximately 50 feet northwest of Abby Street;
• then southeast along the southern right-of-way line of the railroad to a point where it intersects with South Park;
• then around the perimeter of South Park itself to the point at which the border intersects with
the City of Buffalo corporate line; and
• then west along the City of Buffalo corporate line to the mean high water line of Lake Erie.

Waterside Boundary
The waterside boundary of the LWRA proceeds west, approximately 19,000 feet from the mean
high water line of Lake Erie to the international boundary between the United States and Canada.
The boundary then proceeds north along the international borderline to a point approximately
1,300 feet south of the southernmost point of Strawberry Island. The boundary then proceeds
northeast to a point along the shoreline where the City of Buffalo corporate boundary abuts with
the municipal boundary of the Town of Tonawanda, also the point of beginning for the upland
boundary. The waterside boundary will not be modified by the proposed LWRA boundary.

Justification for Revised Local Waterfront Revitalization Area
The City of Buffalo proposed a revised, expanded boundary designed to better mimic the
Niagara River Greenway Focus Area boundary and to ensure that the Local Waterfront
Revitalization Area (LWRA) included:

• Olmsted’s Riverside Park in the northwestern corner of the city;
• The Scajaquada Creek corridor including lands adjacent to the Creek such as
underutilized former industrial areas and the significant open spaces of Olmsted’s
Delaware Park and Forest Lawn Cemetery.
• The area between Niagara Street and the Niagara River/Lake Erie waterfront
approximately between the Peace Bridge and downtown Buffalo, providing the
opportunity to enhance this important international gateway corridor and to include the full
reach of the Great Lakes Seaway Trail National Scenic Byway in Buffalo;
• The area around Canalside and the Cobblestone District were expanded to further this
location as a tourism destination;
• The area between South Park Avenue and the Buffalo River corridor, including lands
adjacent to the Ohio Street connection between Canalside/Cobblestone District and the
Outer Harbor, a number of open space resources, and the Old First Ward and Valley
waterfront neighborhoods;
• The eastern portion of the Buffalo River corridor and the Cazenovia Creek corridor,
including open space resources such as Houghton Park and Olmsted’s Cazenovia Park;
and
The area including Olmsted’s South Park and the open space resources just to its north, including
significant wetlands and South Park Lake.
Appendix B. Local Consistency Law

BY: Mr. Pridgen

City of Buffalo

Local Law No. II-2018

A Local Law to Amend the City of Buffalo Charter in relation to creating the City of Buffalo Waterfront Consistency Review Law.

BE IT ENACTED BY THE COMMON COUNCIL OF THE CITY OF BUFFALO AS FOLLOWS:

Section 1: That Article 31 of the Charter of the City of Buffalo, adopted pursuant to law, is hereby amended to include § 31-7 as follows:

§31-7. Authority and Purpose.

A. This Local Law is adopted pursuant to Article IX of the Constitution of the State of New York, the Municipal Home Rule Law, and Article 42 §§ 910-923 of the Executive Law, entitled "Waterfront Revitalization of Coastal Areas and Inland Waterways Act."

B. The purpose of this Local Law is to assure that actions by City departments and agencies are consistent with the City of Buffalo Local Waterfront Revitalization Program (LWRP).

C. This Local Law will ensure that the preservation, enhancement and utilization of the unique coastal area of the City take place in a coordinated and comprehensive manner, to guarantee a proper balance between protection of natural resources and the need to accommodate limited population growth and economic development. Accordingly, this Local Law is intended to achieve a balance between permitting the beneficial use of coastal resources while preventing loss and degradation of living coastal resources and wildlife, and the diminution of open space areas or public access to the waterfront; disruption of natural coastal processes; impairment of scenic, cultural or historical resources; losses due to flooding, erosion and sedimentation; impairment of water quality; and/or permanent adverse changes to existing ecological systems.


A. "Actions" include all the following, except minor actions:

(1) Projects or physical activities, such as construction or any other activities that may affect natural, manmade or other resources in the coastal area or the environment by changing the use, appearance or condition of any resource or structure, that:
   (i) Are directly undertaken by an agency; or
   (ii) Involve funding by an agency; or
(iii) Require one or more new or modified approvals, permits, or review from an agency or agencies;

(2) Agency planning and policymaking activities that may affect the environment and commit the agency to a definite course of future decisions;
(3) Adoption of agency rules, regulations and procedures, including local laws, codes, ordinances, executive orders and resolutions that may affect coastal resources or the environment; and
(4) Any combination of the above.

B. "Agency" means any board, agency, department, office, other body, or officer of the City of Buffalo, the State of New York and Buffalo Urban Renewal Agency.

C. "Coastal area" means that portion of New York State coastal waters and adjacent shorelands as defined in Article 42 of the Executive Law which is located within the boundaries of the City of Buffalo, as shown on the coastal area map on file in the office of the Secretary of State and as delineated in the City of Buffalo Local Waterfront Revitalization Program (LWRP).

D. "Coastal Assessment Form (CAF)" means the form developed by the Office of Strategic Planning (OSP), for purposes of assisting agencies in determining whether a proposed action is consistent with the City of Buffalo Local Waterfront Revitalization Program (LWRP) policy standards, conditions and objectives. A current sample of this form would be appended to this local law.

E. "Consistent" means that the action will fully comply with the LWRP policy standards, conditions and objectives and, whenever practicable, will advance one or more of them.

F. "Direct Actions" mean actions planned and proposed for implementation by an agency, such as, but not limited to a capital project, rule making, procedure making and policy making.

G. "Environment" means all conditions, circumstances and influences surrounding and affecting the development of living organisms or other resources in the coastal area.

H. "Local Waterfront Revitalization Program" or "LWRP" means the Local Waterfront Revitalization Program of the City of Buffalo, approved by the Secretary of State pursuant to the Waterfront Revitalization of Coastal Areas and Inland Waterways Act (Executive Law, Article 42), a copy of which is on file in the Office of the City Clerk of the City of Buffalo.

I. "Minor actions" include Type II actions as defined by the New York State Environmental Quality Review Act except for the following:

(1) Construction or expansion of a primary or accessory/appurtenant, non-residential structure or facility involving less than 4,000 square feet of gross
floor area and not involving a change in zoning or a use variance and consistent with local land use controls:

(2) Routine activities of educational institutions, including expansion of existing facilities by less than 10,000 square feet of gross floor area;

(3) Construction or expansion of a single-family, a two-family or a three-family residence on an approved waterfront lot including provision of necessary utility connections;

(4) Construction, expansion or placement of minor accessory/appurtenant residential structures on a waterfront lot, including garages, carports, patios, decks, swimming pools, tennis courts, satellite dishes, fences, barns, storage sheds or other buildings not changing land use or density;

(5) Public or private best forest management (silvicultural) practices on less than 10 acres of land, but not including waste disposal, land clearing not directly related to forest management, clear-cutting or the application of herbicides or pesticides;

(6) Actions requiring a certificate of environmental compatibility and public need under articles VII, VIII or X of the Public Service Law and the consideration of granting or denial of any such certificate;

J. Waterfront lots are parcels of land that are within the City of Buffalo Coastal Area, as defined by the LWRP, and that have direct frontage on a water body.

§31-9. Management and Coordination of the LWRP.

A. The Office of Strategic Planning (OSP) shall be responsible for coordinating the City Planning Board’s review of actions in the City’s coastal area for consistency with the LWRP.

B. The Office of Strategic Planning shall be responsible for the implementation of the LWRP, its policies and projects, including physical, legislative, regulatory, administrative and other actions included in the program.

B. The City Planning Board shall be responsible for determining consistency with the LWRP.

C. The City Planning Board may review consistency applications for actions by state and federal agencies and provide a recommendation to the New York State Department of State.
§31-10. Review of Actions.

A. No action in the coastal area shall be approved, or undertaken by a state or federal agency without first receiving from the City Planning Board, a determination of consistency with the LWRP.

B. A completed CAF and all related applications, including Environmental Assessment Forms (EAF) or supporting information, shall be submitted to the Office of Strategic Planning as early in the decision making process as possible. OSP shall review the CAF for completeness and refer a copy to the Planning Board within 14 days of its receipt.

C. The Planning Board shall consider whether the proposed action is consistent with the LWRP policy standards set forth in Section II of the LWRP. If the proposed action requires Major Site Plan Review, the Planning Board shall render a written determination at the same time as its decision on Major Site Plan Review, per Section 496-11.3.7 of the City of Buffalo Unified Development Ordinance (UDO).

D. Where a proposed project does not require Major Site Plan Review, the Planning Board shall render a written determination within 62 days of the referral of the CAF from OSP, unless extended by mutual agreement of the Planning Board and the applicant or in the case of a direct action, the agency. The Planning Board’s determination shall indicate whether the proposed action is consistent with or inconsistent with one or more of the LWRP policy standards and shall elaborate in writing the basis for its opinion. The Planning Board shall, at the time of its consistency determination, issue any suggestions to the agency concerning modification of the proposed action, including the imposition of conditions, to make the action consistent with the policy standards of the LWRP.

E. Where an EIS is being prepared or required, the draft Environmental Impact Statement (EIS) must identify applicable LWRP policy standards and include a discussion of the effects of the proposed action on such standards.

F. Actions to be undertaken within the coastal area shall be evaluated for consistency in accordance with the City of Buffalo LWRP policy standards and action strategy, a copy of which is on file in the City Clerk’s office and available for inspection during normal business hours.

§31-11. Enforcement.

No action within the Buffalo coastal area which is subject to review under this Local Law shall proceed until a written determination that the subject action is consistent with the City’s LWRP policy standards has been issued by the City’s Planning Board. In the event that an activity is being performed in violation of this law or any conditions imposed thereunder, the Department of Permit and Inspection Services shall immediately issue a stop work order and all work shall immediately cease. No further work or activity shall be
undertaken on the project so long as a stop work order is in effect. The City Department of Permit and Inspection Services shall be responsible for enforcing this law.

§31-12. Violations.

A. Any person, contractor, corporation or entity who violates any of the provisions of, or who fails to comply with any condition imposed by this Local Law shall be cited for a violation punishable by a fine not exceeding three hundred and fifty dollars ($350.00) for a conviction of a first offense and punishable by a fine of one thousand dollars ($1,000.00) for a conviction of a second or subsequent offenses.

B. The Corporation Counsel is authorized and directed to institute any and all actions and proceedings necessary to prosecute violators of this Local Law. Any civil penalty shall be in addition to and not in lieu of any citation or fines imposed by the City.


The provisions of this Local Law are severable. If any provision of this local law, or in its application thereof is found invalid, such finding shall not affect the validity of this Local Law as a whole or any part or provision hereof other than the provision so found to be invalid.

§31-14. Effective Date.

This local law shall take effect within three months of its filing in the office of the Secretary of State, in accordance with Section 27 of the Municipal Home Rule Law.

Mandatory Referendum.

§31-15. This Local Law is not subject to mandatory referendum because the subject matter is not enumerated in the Municipal Home Rule Law as a category requiring a referendum.

Immediate Passage.

§31-16. IT IS HEREBY CERTIFY, pursuant to Section 3-17 of the Charter of the City of Buffalo, that immediate passage of this Local Law is necessary.
APPROVED AS TO FORM ONLY:

Timothy A. Ball
CORPORATION COUNSEL

Byron W. Brown
Mayor
To Whom It May Concern:
I hereby Certify, that at a Session of the Common Council of the City of Buffalo, held in the City Hall, on
The 24th day of July 2018. The attached Resolution was Passed of which the following is a true copy.

18-1250
Adoption of Buffalo Local Waterfront Revitalization Program Update

ATTEST

Deputy City Clerk

The above resolution was signed by the Mayor on 08/01/2018 and returned to the City Clerk on 08/01/2018
DEAR SIR:

Pursuant to the provisions of Section 3-19 of the Charter, I present herewith the attached resolution item.

PASSED  July 24, 2018

No: 18-1250

MAYEX – Adoption of Buffalo Local Waterfront Revitalization Program Update

Gerald A Chwalinski
City Clerk

APPROVED
AUG - 1 2018

Byron W. Brown
MAYOR
Adoption of Buffalo Local Waterfront Revitalization Program - Update

The purpose of this communication is to request the review and adoption of the attached Local Waterfront Revitalization Program (LWRP).

This item is an update to the LWRP document submitted prior to the June 12, 2018 Common Council meeting. The only revision is an update to Policy Number 29 on page 17 of the LWRP, under “Other State Policies,” to reflect the current state policy language.

The City of Buffalo Office of Strategic Planning, with consultant planning assistance, has prepared a Local Waterfront Revitalization Program (LWRP) in cooperation with the New York State Department of State (NYS DOS) in accordance with the provisions of Executive Law, Article 42. An adopted LWRP has a number of benefits, including:

- The LWRP reflects community consensus and provides a clear direction for appropriate future waterfront development.
- The LWRP establishes a long-term partnership among local government, community-based organizations, and the State.
- Funding for implementation of the LWRP is available under Title 11 of the New York State Environmental Protection Fund Local Waterfront Revitalization Program (EPF LWRP) among other sources.
- State permitting, funding, and direct actions must be consistent, to the maximum extent practicable, with an approved LWRP.
- Within the federally defined coastal area, federal agency activities are also required to be consistent with an approved LWRP.

The key implementation tool of the LWRP is the Waterfront Consistency Review Law, which will ensure that proposed actions and development along the waterfront take place in a coordinated and comprehensive manner and are consistent with the policies of the adopted LWRP. The Waterfront Consistency Review Law is being filed with the Common Council as a separate item.

On September 19, 2017 the Council accepted the Draft LWRP, allowing for inter-agency review of the LWRP from State and Federal agencies. The NYS DOS conducted the inter-agency review of the LWRP from November 22, 2017 to February 20, 2018, presenting the Draft LWRP for review and requesting comments from Federal, State, and local agencies and organizations. Several comments were received, all of which were responded to by the City and NYS DOS. Based on these comments, a number of minor edits and updates were made to the LWRP, as follows:

- General edits and grammatical changes;
- Updates to status of existing projects and the addition of new projects, names of facilities/resources and organizations; and
- References to and descriptions of additional identified environmental and master plans.

Updated: 7/26/2018 1:56 PM by Carin Gordon K
The Office of Strategic Planning requests your Honorable Body adopt the City of Buffalo Local Waterfront Revitalization Program.

Discharge from Leg to CC 7/24/2018
Mr. Franczyk moved:

That the above item be, and the above communication from the Buffalo City Clerk, dated July 24, 2018, be approved; and

That the following agenda item # 18-1250, “The review and adoption of the Local Waterfront Revitalization Program (LWRP),” was discharged from the Legislation Committee from further consideration, and that said item was then placed before the Common Council for its consideration.

Approved.

HISTORY:
06/26/18 Common Council REFERRED TO LEG
07/03/18 Legislation Committee TABLED
07/17/18 Legislation Committee W/O REC Next: 07/17/18

Discharged to CC meeting of 7/24/2018

ATTACHMENTS:
- LWRP_June_2018_Updated  (PDF)
- Appendix A - LWRP Boundaries  (PDF)
- Appendix B - Waterfront Consistency Review Law  (PDF)
- Appendix C - Coastal Assessment FORM  (PDF)
- Appendix D - State and Federal Actions updated  (PDF)
- Appendix E - Waterfront Corridor Zone  (PDF)
- Appendix F - City of Buffalo Harbor Management Plan updated  (PDF)
- Appendix G - Fish & Wildlife Habitats  (PDF)

RESULT: APPROVED

Updated: 7/26/2018 1:56 PM by Carin Gordon K
<table>
<thead>
<tr>
<th>AYE</th>
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<tbody>
<tr>
<td>FEROLETO</td>
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<td>FONTANA</td>
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<td>FRANCZYK</td>
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<td>RIVERA</td>
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<td>SCANLON</td>
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<td>WINGO</td>
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<td>WYATT</td>
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| 3/4 - 7 | * | * | * |
Appendix C: COASTAL ASSESSMENT FORM

**Project Sponsor Information**

Name: ________________________________________________________
Department/Organization _________________________________________
Mailing Address: ______________________________________________
State: ______________________ Zip Code: _________________________
Federal Id# __________________________ Charities Registration #__________________

**Project Description**

Project Name: ________________________________________________________
SBL: ______________________________________________________________
Address: __________________________________________________________
Zip Code: __________________________
Council District: __________________________________________________________________
Project Proponent Property Interest (own, lease, easement or other): _________________

**Authorized Official**

Name: _________________________________________ Title: _____________________________
Business Address: __________________________________________________________________
State: _______________________________________ Zip Code: _____________________________
Telephone Number: ___________________________ Cell Number: __________________________
Fax Number: ______________________________________________________________________
E-Mail Address: __________________________________________________________________

**Project Point Of Contact**

Name: _________________________________________ Title: _____________________________
Organization/Firm: _________________________________________________________________
Business Address: __________________________________________________________________
State: _______________________________________ Zip Code: _____________________________
Telephone Number: ___________________________ Cell Number: __________________________
Fax Number: ______________________________________________________________________
E-Mail Address: __________________________________________________________________
DESCRIPTION OF SITE AND PROPOSED ACTION

1. Type of department action (check appropriate response):
   (a) Directly undertaken (e.g. capital construction, planning activity, department regulation, land transaction) ______
   (b) Financial assistance (e.g. grant, loan, subsidy) _____
   (c) Permit, approval, license, certification ______
   (d) Department undertaking action: _________________________________

2. Describe nature and extent of action:______________________________________________

3. Location of action:______________________________________________

4. Size of site:____________________________________________________

5. Present land use:________________________________________________

6. Present zoning classification:___________________________________

7. Describe any unique or unusual land forms on the project site (i.e. steep slopes, swales, ground depressions, other geological formations):_____________________________________________________________________
   _______________________________________________________________________

8. Percentage of site which contains slopes of 15% or greater:______

9. Streams, lakes, ponds or wetlands existing within or contiguous to the project area?
   (1) Name:___________________________________________________________
   (2) Size (in acres):____________________________________________

10. Will the action be directly undertaken, require funding, or approval by a state or federal department?
    Yes___ No___ If yes, which state or federal agency?:___________________

Please indicate if the project will have no impact, a positive impact or negative impact on the LWRP policy objectives listed below. In addition, descriptions of any impacts, especially as they relate to any indicators that may be specified for policy objectives, must be attached to this form. Note that the full policy text may be referenced in the LWRP document.

<table>
<thead>
<tr>
<th>#</th>
<th>Goal/Policy</th>
<th>Impact</th>
<th>Indicators</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Holistic Coastal Program</td>
<td>0</td>
<td>Safeguard economic, social and environmental interests of the state and its citizens.</td>
</tr>
</tbody>
</table>

2. Safeguard Quality and Quantity of Great Lakes Fresh Water

<table>
<thead>
<tr>
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<th>Goal/Policy</th>
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<th>Indicators</th>
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</thead>
<tbody>
<tr>
<td>2A</td>
<td>Discharges to coastal waters will meet water quality standards</td>
<td>1A</td>
<td>Compliance with Buffalo Sewer Authority (BSA) Industrial Discharge Permitting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1B</td>
<td>2. Chapter 491 Article III of the Buffalo Code regarding water pollution</td>
</tr>
</tbody>
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<th>Goal/Policy</th>
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<tbody>
<tr>
<td>2B</td>
<td>Control stormwater runoff and CSO's into LWRA</td>
<td>2A</td>
<td>The BSA CSO Long Term Control Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2B</td>
<td>City of Buffalo and BSA erosion control and post construction stormwater management requirements</td>
</tr>
</tbody>
</table>

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<th>Goal/Policy</th>
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</thead>
<tbody>
<tr>
<td>2C</td>
<td>Limit discharges from vessels into coastal waters</td>
<td>2A</td>
<td>Lake Erie Lakesides Management Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2B</td>
<td>Buffalo and Niagara River Remedial Action Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2C</td>
<td>Provide pump out facilities to discourage the discharge of sewage within the City of Buffalo LWRA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2D</td>
<td>Provide boat wash down facilities to discourage the transport of aquatic invasive species</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2E</td>
<td>Provide measures to prevent spillage of petroleum at marina fueling stations and measures for the efficient and effective cleanup of spills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2F</td>
<td>Minimize runoff from boatyards and service areas to prevent petroleum, paints, solvents &amp; other environmentally harmful substances from entering surface waters.</td>
</tr>
</tbody>
</table>

2D: Conserve and protect the quality and quantity of surface waters

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<th>Goal/Policy</th>
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<th>Indicators</th>
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</thead>
<tbody>
<tr>
<td>2D</td>
<td>Conserve and protect the quality and quantity of surface waters</td>
<td>2A</td>
<td>Lake Erie Lakewide Management Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2B</td>
<td>Niagara River Toxics Management Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2C</td>
<td>Buffalo and Niagara River Remedial Action Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2D</td>
<td>Environmental contamination to tributaries of Lake Erie, including the Buffalo River, Scajaquada Creek, and Cazenovia Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2E</td>
<td>Great Lakes Compact water quantity and conservation provisions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2F</td>
<td>Buffalo River Improvement Corporation (BRIC) operations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2G</td>
<td>Jubilee Springs and WS Consolidated Aquifer</td>
</tr>
</tbody>
</table>

2G: Prevent emerging contaminants such as pharmaceuticals, silicone, microplastics, and cyanobacteria

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<tr>
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<th>Indicators</th>
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<tbody>
<tr>
<td>3A</td>
<td>Develop Buffalo as a major state port/support waterborne transportation</td>
<td>3A</td>
<td>Encourage the siting, including locations under jurisdiction of state public authorities, of land use and development which is essential to or in support of waterborne transportation of cargo and people</td>
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</table>

3. Promote Water Based Industry and Enterprise

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<td>3A</td>
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</table>
| 3B | Protect existing, and encourage new, water dependent and related uses      | +      | a. Waterborne industrial transport associated with the grain elevators and other water dependent industrial users located on industrially zoned waterfront land such as Kelly Island  
   b. Opportunities to expand water borne transport  
   c. Recreational and commercial boating throughout the City’s waterfront |
| 3C | Facilitate the siting of water dependent uses and facilities on or adjacent to coastal waters |        | a. Potential adverse impacts or interference with the continued operation of existing water-dependent uses, including those listed in the Inventory Section III.E  
   b. Support for the development of new water-dependent uses where:  
      i. The need for dredging is minimized  
      ii. Waterside and landside access, as well as upland space for parking and other facilities, is adequate  
      iii. Necessary infrastructure exists or is easily accessible, including adequate shoreline stabilization structures, roads, water supply and sewage disposal facilities, and vessel waste pump-out and waste disposal facilities  
      iv. Water quality classifications are compatible  
      v. Impacts to important natural resources, such as wetlands and fish and wildlife habitats, could be avoided or minimized to the greatest extent practicable  
   a. Public access to the water’s edge can be maintained, to the greatest extent practicable |
| 3D | Strengthen economic base of smaller harbor areas                           |        | a. Support and increase “blue economy” enterprise and water dependent institutions and businesses                                                                                                                                                                                                   |
| 3E | Make sound decisions on the siting and construction of major energy facilities |        | a. Thoroughly examine and document potential adverse impacts to:  
   i. The environment  
   ii. The Buffalo community’s use and enjoyment of local waters for recreation, transportation and economic development                                                                                                           |
| 4A | Provide launches & platforms for human powered boating in suitable locations |        | a. Adjacent upland and in-water uses including attractions, parks, boat storage, and public restrooms  
   b. Avoidance of U.S. Coast Guard designated safety/security zones and sensitive ecological areas  
   c. Health and safety factors including larger vessel traffic, water quality and presence of detritus                                                                                                                                                                                                 |
| 4B | Minimize potential safety hazards at access points for human-powered boating |        | a. Operational measures to secure the facility to avoid unmonitored use  
   b. Appropriate training of users  
   c. Safety measures to avoid conflicts with commercial vessels, including communication with water dependent industrial users  
   d. Safety measures for avoiding exposure to contaminated water and sediments                                                                                                                                             |
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<th>Goal/Policy</th>
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<tr>
<td><strong>Please describe the projects impact on:</strong></td>
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<tr>
<td>#</td>
<td>Objective</td>
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</tr>
<tr>
<td>4C</td>
<td>Design piers, docks &amp; boating facilities to accommodate multiple water dependent uses, wide range of users &amp; dynamic water levels</td>
<td></td>
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<tr>
<td></td>
<td>a. Potential uses include recreational boating (motorized and human powered), historic and educational ships, passenger ferries, and charter facilities</td>
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<td>b. Use of universal design</td>
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<td></td>
<td>c. Impacts of high winds, seiche and flood events, climate change and long term lake level decline</td>
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<tr>
<td>4D</td>
<td>Incorporate safety features on bulkheads such as safety ladders</td>
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<tr>
<td>4E</td>
<td>Minimize conflicts between recreational, commercial, and freight vessels</td>
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<td></td>
<td>a. Giving priority to commercial vessels when determining rights to navigable waters</td>
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<td>b. Siting recreational boating facilities, particularly those serving vessels with limited power and maneuverability, in waters without heavy concentrations of maritime activity</td>
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<td></td>
<td>c. Siting, mooring, or docking facilities for recreational boats in areas where there is adequate natural protection or where structurally adequate and environmentally sound protection can be created</td>
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<td></td>
<td>d. Siting facilities for human &amp; wind powered vessels to avoid locations with strong currents &amp; those prone to heavy wave or wake action</td>
<td></td>
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<tr>
<td>4F</td>
<td>Minimize impact of commercial &amp; recreational boating activities/facilities on aquatic environment and surrounding land and water uses</td>
<td></td>
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<tr>
<td></td>
<td>a. Compliance with Lake Erie No Discharge Zone and other vessel waste discharge regulations and the provision of adequate pump out facilities</td>
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</tr>
<tr>
<td>4G</td>
<td>Manage harbor operations to protect ecological resources</td>
<td></td>
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<tr>
<td></td>
<td>a. Buffalo River and City Ship Canal project in-situ capping and ecological restoration sites</td>
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<tr>
<td>4H</td>
<td>Minimize adverse impacts from CDFs in the LWRA</td>
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<tr>
<td></td>
<td>a. Potential contamination impacts on water quality and habitat; and</td>
<td></td>
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<tr>
<td></td>
<td>b. Periodic monitoring of water quality in adjacent recreational and habitat area waters</td>
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</table>

5. **Build Water-Enhanced Places that Enliven the Waterfront and Attract the Public**

5A | Direct new water enhanced, mixed use development to areas identified in Section VII of the Inventory | | |
<p>| 5B | Protect and enhance natural and manmade features which contribute to the scenic quality of the LWRA | | |
| | a. Great Lakes Seaway Trail National Scenic Byway | | |
| | b. marinas, piers, wharfs and mooring areas as unique waterfront landscapes | | |</p>
<table>
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<tr>
<td><strong>#</strong></td>
<td><strong>Objective</strong></td>
<td></td>
</tr>
<tr>
<td>5C</td>
<td>Protect &amp; enhance Niagara River Globally Significant Important Bird Area viewing sites Protect and enhance Niagara River Globally Significant Important Bird Area viewing sites</td>
<td></td>
</tr>
<tr>
<td>5D</td>
<td>Protect and enhance historic resources</td>
<td>a. Native American archeological resources b. War of 1812 c. Erie Canal d. Historic waterfront grain elevators e. Underground Railroad structures and routes f. Waterfront industrial heritage resources g. Waterfront Frederick Law Olmsted parks, particularly park features designed to provide views of and access to the City’s waterways h. Historic waterfront lighthouses and bridges i. Other historic resources</td>
</tr>
<tr>
<td>5E</td>
<td>Actions and development should provide multi-modal transportation facilities</td>
<td>a. Streets should enable safe access for all users including persons with disabilities, pedestrians, bicyclists, motorists, and transit riders b. Streets should be designed to be consistent with the Transportation Network article of the Buffalo Unified Development Ordinance</td>
</tr>
<tr>
<td>5F</td>
<td>Achieve local waterfront transportation objectives</td>
<td>a. Seaway Trail as the City’s primary multi-modal local waterfront transportation corridor b. Shoreline Trail and Jesse Kregel multi-modal off-road routes c. Route 198’s impact on waterfront ecological, historic, and public access resources d. Pedestrian connections below Route 190 in Black Rock Riverside e. Connections below Route 190 downtown by straightening Erie Street from Thruway Toll Plaza land along Black Rock Canal for public access f. Virginia/Carolina exchange g. Minimize at grade parking facilities within the LWRA to preserve land for public access along the water’s edge and adjacent in-land commercial development h. Minimize waterfront truck traffic to the maximum extent practicable, redirecting through traffic to non-waterfront routes while supporting truck traffic associated with local businesses i. Connection between the Main Street and the waterfront through the Cars on Main Street effort and improvements to the Erie Street Ellicott radial</td>
</tr>
<tr>
<td>Goal/Policy</td>
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<td>Indicators</td>
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<tr>
<td><strong>5G</strong> Long Term Waterfront Transportation Goals</td>
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<td>+ -</td>
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<tr>
<td></td>
<td></td>
<td>a. Reduce the I-190 Expressway’s waterfront footprint and adverse impacts on public access and property values; early options include relocation of the I-190 in Black Rock/Riverside to the Tonawanda rail corridor and/or the conversion of Route I-190 to a boulevard.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. Reduction of the impact of the I-198/I-190 interchange on Scajaquada Creek, Black Rock Canal and the Scajaquada Harbor redevelopment areas, public access and property values.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. Develop the Buffalo River Greenway as the southern complement to the Jesse Kregel/Scajaquada Creek Trail system.</td>
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<td>d. Construct a connection between the Tifft Street and Route 190 to redirect truck traffic from the waterfront inland and support the redevelopment of the South Buffalo Brownfield Opportunity Area.</td>
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<td>e. Analyze the impact of removing the Skyway bridge overpass.</td>
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<td>f. Mitigate the barrier to the waterfront created by the rail corridor.</td>
</tr>
<tr>
<td><strong>5H</strong> Utilize signage within the WRA to assist in wayfinding &amp; celebrate unique WRA cultural, recreational &amp; environmental features</td>
<td>0</td>
<td>+ -</td>
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<tr>
<td></td>
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<td>a. The Unified Development Ordinance;</td>
</tr>
<tr>
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<td></td>
<td>b. federal National Scenic Byway signage regulations; and</td>
</tr>
<tr>
<td><strong>6A-6H</strong> Promote Buffalo as an International Gateway</td>
<td>0</td>
<td>+ -</td>
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<tr>
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<td></td>
<td>a. Support the location of water dependent or enhanced International Trade Gateway hard and soft infrastructure.</td>
</tr>
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<td>b. Revitalize former industrial structures and vacant lands along Niagara Street, north of the Peace Bridge to Ferry Street.</td>
</tr>
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<td>c. Develop international gateway landscapes.</td>
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<td>d. Improve connections between the US Shoreline Trail and the Niagara River Parkway trail bicycle and pedestrian trail system.</td>
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<td>e. Encourage and expand cross-border recreational boating and fishing with clearly identified marine border check-in sites.</td>
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<td>f. Improve passenger train connections along the waterfront from downtown Buffalo through Niagara Falls to Toronto.</td>
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<td>g. Facilitate efficient border crossing for travelers at the Peace Bridge and other Western New York border entry points.</td>
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<td>h. Improve cross border interpretation of the War of 1812, Underground Railroad and shared ecological restoration efforts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>i. Minimize adverse impacts of international gateway functions on WRA, with emphasis on vulnerable environmental justice populations, migratory bird populations, historic resources, and water resources.</td>
</tr>
<tr>
<td><strong>7A</strong> Expand recreational use of fish and wildlife resources</td>
<td>0</td>
<td>+ -</td>
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<tr>
<td></td>
<td></td>
<td>a. Habitat sites - including breeding grounds, identified in the Inventory Section II.C.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. Native fish stocks - efforts to restore sustainable populations of indigenous fish living in the Lake Erie, the Niagara River, Buffalo River and Scajaquada Creek systems as discussed in the Inventory Section II.D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. Fishing access sites - wildlife viewing facilities as identified in the inventory section II.C.</td>
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<tr>
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</tr>
<tr>
<td>7B</td>
<td>Protect significant fish and wildlife coastal habitats</td>
<td>+</td>
</tr>
<tr>
<td>7C</td>
<td>Protect wetlands</td>
<td></td>
</tr>
</tbody>
</table>
| 7D | Further develop commercial finfish, shellfish and crustacean resources in the coastal area |        | a. Construction of new or improved on shore commercial fishing facilities  
  b. Market seafood products  
  c. Maintain adequate stocks  
  d. Expand aquaculture facilities |
| 7E | Protect fish and wildlife from effluent discharge from steam, electric generating, and industrial facilities into coastal waters |        | a. Migratory, spawning and nursery patterns of Niagara River and Lake Erie fish and wildlife communities |
| 7F | Water intakes shall minimize impingement or entrainment of fish and wildlife |        |                                                                                                                                          |
| 7G | Protect, preserve, improve & restore publicly-owned habitat areas           |        | a. Areas identified as habitats of local significance in Inventory Section II.C.1                                                   |
| 7H | Protect and restore naturalized shoreline areas                             |        | a. Protect State and Federal wetlands  
  b. Construct wetlands per the Buffalo and Niagara River Remedial Action Plan habitat restoration objectives |
| 7I | Prevent the introduction of aquatic invasive species to the Great Lakes      |        |                                                                                                                                          |
| 7J | Protect public health from contaminated fish                                |        | a. Reduce contamination and restore local fisheries such that New York State Department of Health Fish Consumption Advisories are no longer required to protect public health  
  b. Educate local subsistence anglers on fish consumption advisory provisions |
| 7K | Protect the Niagara River Globally Significant Important Bird Area          |        | a. Protect and enhance bird habitat areas  
  b. Avoid disruptions to bird migration to the maximum extent practicable |
### Goal/Policy | Impact | Indicators
--- | --- | ---
**8. Provide Public Water Access in Support of the Public Trust**

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<tr>
<th>#</th>
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<th>Please describe the projects impact on:</th>
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</table>
| 8A | Provide access to publicly owned foreshore and adjacent lands | | | | a. Retain such lands in public ownership  
    b. Impact public access to publicly owned foreshore and adjacent lands  
    c. Public ownership of foreshore and adjacent lands |
| 8B | Protect and increase public water related recreation resources and facilities | | | | a. Existing public waterfront access and water dependant recreation facilities as identified in the Inventory Habitat, Marina and Recreation sections  
    b. Development and implementation of a long term parks/recreation/open space master plan for the LWRA  
    c. Limits on public access and recreational activities where uncontrolled public use would lead to disruption of the environmental cleanup measures or fish and wildlife resources |
| 8C | Encourage water dependent and water enhanced recreational uses | | | | |
| 8D | Development, adjacent to the shore will provide for water-related recreation | | | | a. Whenever such recreational use is compatible with reasonably anticipated demand for such activities, and is compatible with the primary purpose of the development |

### 9. Maximize Coastal Resiliency

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<th>Please describe the projects impact on:</th>
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<tr>
<td>9A</td>
<td>Minimize damage from flooding by protecting natural protective features</td>
<td></td>
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<td></td>
<td>a. Times Beach Nature Preserve, Outer Harbor Greenbelt (including Bell Slip), Gallagher Beach, Cazenovia Park, LaSalle Park and Delaware Park/Hoyt Lake/Scajaquada Creek and Squaw Island</td>
</tr>
</tbody>
</table>
| 9B | Minimize property damage and risk to humans from flooding and erosion | | | | a. Preserve publicly held waterfront open space  
    b. Require new development to be set back from the high water mark  
    c. Require the maintenance of a vegetated riparian buffer  
    d. Require on site storm water management for most new development  
    e. Comply with City Flood Damage Protection laws  
    f. Meet FEMA and HUD construction and insurance requirements  
    g. Contribute to regional flood prevention efforts |
| 9C | Where possible, use non-structural measures to minimize damage to natural resources and property from flooding and erosion | | | | |
| 9D | Activities and development will not result in an increase in erosion | | | | a. Development  
    b. Construction or reconstruction of erosion protection structures,  
    c. Other activities |
<table>
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<tr>
<th><strong>Goal/Policy</strong></th>
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<th><strong>Indicators</strong></th>
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<td>9E</td>
<td>Construction or reconstruction of erosion protection structures shall be undertaken only if they have a reasonable probability of controlling erosion for at least 30 years</td>
<td>a. As demonstrated in design and construction standards and/or assured maintenance or replacement programs</td>
</tr>
<tr>
<td>9F</td>
<td>Utilize public funds to protect key features from erosion</td>
<td>a. Bird Island Pier, Harbor breakwalls and Erie Basin Marina to protect the City shoreline from Lake Erie related flooding and erosion b. Erosion control structures that protect the Colonel Ward Pumping Station and Buffalo Sewer Authority Bird Island Treatment Plant c. Erosion control structures associated with LWRA remediated sites or confined disposal facilities d. Erosion control structures associated with LWRA waterfront transportation facilities</td>
</tr>
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<td>9G</td>
<td>Mining, excavation or dredging in coastal waters shall not significantly interfere with the natural coastal processes</td>
<td>a. Shall not interfere with natural processes which supply beach material to land adjacent to such waters b. Shall be undertaken in a manner which will not cause an increase in erosion of such land</td>
</tr>
<tr>
<td>9H</td>
<td>Ice Management shall not interfere with hydroelectric power production, damage fish and wildlife &amp; their habitats, or increase shoreline erosion or flooding</td>
<td>c. Periodically review the Niagara River Ice Boom to determine the impacts of ice boom operations on water recreation and industry, the Buffalo microclimate and growing season, Lake Erie evapotranspiration rates and water levels, fish and wildlife and their habitats and Niagara River erosion and sedimentation patterns. Potential adverse impacts should be avoided to the maximum extent practicable and mitigated where avoidance is not possible</td>
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<tr>
<td>9J</td>
<td>Maintain and protect shoreline protective features</td>
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<tr>
<td>9K</td>
<td>Consider the potential impacts of climate change on the Buffalo WRA</td>
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<tr>
<td>9L</td>
<td>Periodically review Niagara River Ice Boom to determine potential adverse</td>
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10. Minimize Environmental Degradation from Solid Waste and Hazardous Substances

<p>| 10A | Protect fish and wildlife from hazardous wastes                          |        | a. Minimize adverse impacts from CDFs in the LWRA                                                                                           |
| 10B | Minimize adverse impacts of dredging activities                          |        | b. Protect in situ treatment and habitat areas from dredging activities in the Buffalo River and City Ship Canal   |
| 10C | Prevent or minimize spills into coastal waters from shipment and storage of petroleum and other hazardous materials |        | a. All practicable efforts will be taken to expedite the cleanup of such discharges                                                          |
|    |                                                                          |        | b. Restitution for damages will be required when these spills occur                                                                        |
| 10D | Minimize adverse impacts to LWRA from solid and hazardous wastes        |        |                                                                                                                                            |
| 10E | Support strategic removal of contaminated sediments in the Buffalo River |        |                                                                                                                                            |
| 10F | Characterize and address LWRA contaminated sediment and botulism concerns |        | a. Scajaquada Creek                                                                                                                        |
|    |                                                                          |        | b. Hoyt Lake                                                                                                                             |
|    |                                                                          |        | c. Mirror Lake                                                                                                                           |
|    |                                                                          |        | d. South Park Lake                                                                                                                        |
| 10H | City EMS shall review plans for the prevention and control of petroleum and |        |                                                                                                                                            |
|    |                                                                          |        |                                                                                                                                            |</p>
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<td></td>
<td>Objective</td>
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<td>Please describe the projects impact on:</td>
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<td></td>
<td>chemical discharges within the LWRA</td>
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<td>a. Water pollution, air pollution, noise pollution, obnoxious odors, litter, vector infestation and other conditions harmful to the public health</td>
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<tr>
<td>10I</td>
<td>Existing chemical or petroleum facilities must minimize adverse impacts on the LWRA</td>
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**Other Selected State Policies**

| NYS 6 | Expedite LWRA permit procedures                                              |        |                                                                                                                                                                                                |
| NYS 29| Development of offshore uses and resources, including renewable energy resources, shall accommodate NYS's long-standing ocean and Great Lakes industries |        | such as:                                                                                                                                                                                        |
|       | a. commercial and recreational fishing;                                     |        | a. commercial and recreational fishing;                                                                                                                                                        |
|       | b. maritime commerce; and                                                   |        | b. maritime commerce; and                                                                                                                                                                      |
|       | c. the ecological functions of habitats important to New York.             |        | c. the ecological functions of habitats important to New York.                                                                                                                                 |
D. **COASTAL ASSESSMENT** (Check either "Yes" or "No" for each of the following questions)

1. **Will the proposed action be located in, or contiguous to, or have a potentially adverse effect upon any of the resource areas identified on the coastal area map:**
   - (a) Significant fish or wildlife habitats? **Yes** **No**
   - (b) Scenic resources of local or statewide significance? **Yes** **No**
   - (c) Important agricultural lands? **Yes** **No**
   - (d) Natural protective features in an erosion hazard area? **Yes** **No**
      
      If the answer to any question above is yes, please explain in Section D any measures which will be undertaken to mitigate any adverse effects.

2. **Will the proposed action have a significant effect upon:**
   - (a) Commercial or recreational use of fish and wildlife resources? **Yes** **No**
   - (b) Scenic quality of the coastal environment? **Yes** **No**
   - (c) Development of future, or existing water dependent uses? **Yes** **No**
   - (d) Operation of the State's major ports? **Yes** **No**
   - (e) Land or water uses within a small harbor area? **Yes** **No**
   - (f) Stability of the shoreline? **Yes** **No**
   - (g) Surface or groundwater quality? **Yes** **No**
   - (h) Existing or potential public recreation opportunities? **Yes** **No**
   - (i) Structures, sites or districts of historic, archeological or cultural significance to the City of Buffalo, State or nation? **Yes** **No**

3. **Will the proposed action involve or result in any of the following:**
   - (a) Physical alteration of land along the shoreline, land under water or coastal waters? **Yes** **No**
   - (b) Physical alteration of two (2) acres or more of land located elsewhere in the coastal area? **Yes** **No**
   - (c) Expansion of existing public services or infrastructure in undeveloped or low density areas of the coastal area? **Yes** **No**
   - (d) Energy facility not subject to Article VII or VIII of the Public Service Law? **Yes** **No**
   - (e) Mining, excavation, filling or dredging in coastal waters? **Yes** **No**
   - (f) Reduction of existing or potential public access to or along the shore? **Yes** **No**
   - (g) Sale or change in use of publicly-owned lands located on the shoreline or under water? **Yes** **No**
   - (h) Development within a designated floor or erosion hazard area? **Yes** **No**
   - (i) Development on a beach, dune, barrier island or other natural feature that provides protection against flooding or erosion? **Yes** **No**
   - (j) Construction or reconstruction of erosion protective structures? **Yes** **No**
   - (k) Diminished surface or groundwater quality? **Yes** **No**
   - (l) Removal of ground cover from the site? **Yes** **No**

4. **Project**
   - (a) If a project is to be located adjacent to shore:
      - (1) Will water-related recreation be provided? **Yes** **No**
      - (2) Will public access to the foreshore be provided? **Yes** **No**
      - (3) Does the project require a waterfront site? **Yes** **No**
      - (4) Will it supplant a recreational or maritime use? **Yes** **No**
      - (5) Do essential public services and facilities presently exist at or near the site? **Yes** **No**
      - (6) Is it located in a flood prone area? **Yes** **No**
      - (7) Is it located in an area of high erosion? **Yes** **No**
If the project site is publicly owned:  

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<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>(1)</td>
<td>Will the project protect, maintain and/or increase the level and types of public access to water?</td>
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<tr>
<td>(2)</td>
<td>If located in the foreshore, will access to those and adjacent lands be provided?</td>
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<td>(3)</td>
<td>Will it involve the siting and construction of major energy facilities?</td>
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<tr>
<td>(4)</td>
<td>Will it involve the discharge of effluents from major steam electric generating and industrial facilities into coastal facilities?</td>
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</table>

(c) Is the project site presently used by the community neighborhood as an open space or recreation area?

(d) Does the present site offer or include scenic views or vistas known to be important to the community?

(e) Is the project site presently used for commercial fishing or fish processing?

(f) Will the surface area of any waterways or wetland areas be increased or decreased by the proposal?

(g) Does any mature forest (over 100 years old) or other locally important vegetation exist on this site which will be removed by the project?

(h) Will the project involve any waste discharges into coastal waters?

(i) Does the project involve surface or subsurface liquid waste disposal?

(j) Does the project involve transport, storage, treatment or disposal of solid waste or hazardous materials?

(k) Does the project involve shipment or storage of petroleum products?

(l) Does the project involve discharge of toxics, hazardous substances or other pollutants into coastal waters?

(m) Does the project involve or change existing ice management practices?

(n) Will the project affect any area designated as a tidal or freshwater wetland?

(o) Will the project alter drainage flow, patterns or surface water runoff on or from the site?

(p) Will best management practices be utilized to control storm water runoff into coastal waters?

(q) Will the project utilize or affect the quality or quantity of sole source or surface water supplies?

(r) Will the project cause emissions which exceed federal or state air quality standards or generate significant amounts of nitrates or sulfates?

D. REMARKS OR ADDITIONAL INFORMATION: (Add any additional sheets to complete this form.)

If assistance or further information is needed to complete this form, please contact Office of Strategic Planning at 851-5029.

Preparer's Name: __________________________ Telephone Number: __________________________

Title: __________________________ Agency: __________________________ Date: __________________________
Appendix D: State and Federal Actions and Programs Likely to Affect Implementation

State and federal actions will affect and be affected by implementation of the LWRP. Under State Law and the U.S. Coastal Zone Management Act, certain State and federal actions within or affecting the local waterfront revitalization area must be consistent, or consistent to the maximum extent practicable, with the enforceable policies and purposes of the LWRP. This consistency requirement makes the LWRP a unique, intergovernmental mechanism for setting policy and making decisions, and helps to prevent detrimental actions from occurring and future options from being needlessly foreclosed. At the same time, the active participation of State and federal agencies is also likely to be necessary to implement specific provisions of the LWRP.

D.1. State Actions and Programs Which Should Be Undertaken in a Manner Consistent With the LWRP

Pursuant to the State Waterfront Revitalization of Coastal Areas and Inland Waterways Act (Executive Law, Article 42), the Secretary of State notifies affected State agencies of those agency actions and programs that are to be undertaken in a manner consistent with approved LWRPs. The following list of State actions and programs is that list. The State Waterfront Revitalization of Coastal Areas and Inland Waterways Act requires that an LWRP identifies those elements of the program that can be implemented by the local government, unaided, and those that can only be implemented with the aid of other levels of government or other agencies. Such statement shall include those permit, license, certification or approval programs; grant, loan subsidy or other funding assistance programs; facilities construction, and planning programs that may affect the achievement of the LWRP.

OFFICE FOR THE AGING

1.0 Funding and/or approval programs for the establishment of new or expanded facilities providing various services for the elderly.

DEPARTMENT OF AGRICULTURE AND MARKETS

1.00 Agricultural Districts Program
2.00 Rural Development Program
3.00 Farm Worker Services Program
4.00 Permit and approval programs:
   4.01 Custom Slaughters/Processor Permit
   4.02 Processing Plant License
   4.03 Refrigerated Warehouse and/or Locker Plant License
5.00 Farmland Protection Implementation Grant
6.00 Agricultural Nonpoint Source Abatement and Control Program

DIVISION OF ALCOHOLIC BEVERAGE CONTROL/STATE LIQUOR AUTHORITY

1.00 Permit and Approval Programs:
   1.01 Ball Park - Stadium License
   1.02 Bottle Club License
   1.03 Bottling Permits
   1.04 Brewer's Licenses and Permits
   1.05 Brewer's Retail Beer License
   1.06 Catering Establishment Liquor License
   1.07 Cider Producer's and Wholesaler's Licenses
   1.08 Club Beer, Liquor, and Wine Licenses
   1.09 Distiller's Licenses
   1.10 Drug Store, Eating Place, and Grocery Store Beer Licenses
   1.11 Farm Winery and Winery Licenses
   1.12 Hotel Beer, Wine, and Liquor Licenses
   1.13 Industrial Alcohol Manufacturer's Permits
   1.14 Liquor Store License
   1.15 On-Premises Liquor Licenses
   1.16 Plenary Permit (Miscellaneous-Annual)
   1.17 Summer Beer and Liquor Licenses
   1.18 Tavern/Restaurant and Restaurant Wine Licenses
   1.19 Vessel Beer and Liquor Licenses
   1.20 Warehouse Permit
   1.21 Wine Store License
   1.22 Winter Beer and Liquor Licenses
   1.23 Wholesale Beer, Wine, and Liquor Licenses

OFFICE OF ALCOHOLISM AND SUBSTANCE ABUSE SERVICES

1.00 Facilities, construction, rehabilitation, expansion, or demolition or the funding of such activities.

2.00 Permit and approval programs:
   2.01 Certificate of approval (Substance Abuse Services Program)

3.00 Permit and approval:
3.01 Letter Approval for Certificate of Need
3.02 Operating Certificate (Alcoholism Facility)
3.03 Operating Certificate (Community Residence)
3.04 Operating Certificate (Outpatient Facility)
3.05 Operating Certificate (Sobering-Up Station)

COUNCIL ON THE ARTS
1.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.
2.00 Architecture and environmental arts program.

OFFICE OF CHILDREN AND FAMILY SERVICES
1.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.
2.00 Homeless Housing and Assistance Program.
3.00 Permit and approval programs:
   3.01 Certificate of Incorporation (Adult Residential Care Facilities)
   3.02 Operating Certificate (Children's Services)
   3.03 Operating Certificate (Enriched Housing Program)
   3.04 Operating Certificate (Home for Adults)
   3.05 Operating Certificate (Proprietary Home)
   3.06 Operating Certificate (Public Home)
   3.07 Operating Certificate (Special Care Home)
   3.08 Permit to Operate a Day Care Center

DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION
1.0 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

DORMITORY AUTHORITY OF THE STATE OF NEW YORK
1.00 Financing of higher education and health care facilities.
2.00 Planning and design services assistance program.

EDUCATION DEPARTMENT
1.00 Facilities construction, rehabilitation, expansion, demolition or the funding of such activities.
2.00 Permit and approval programs:
2.01 Certification of Incorporation (Regents Charter)
2.02 Private Business School Registration
2.03 Private School License
2.04 Registered Manufacturer of Drugs and/or Devices
2.05 Registered Pharmacy Certificate
2.06 Registered Wholesale of Drugs and/or Devices
2.07 Registered Wholesaler-Repacker of Drugs and/or Devices
2.08 Storekeeper’s Certificate

3.00 Administration of Article 5, Section 233 of the Educational Law regarding the removal of archaeological and paleontological objects under the waters of the State.

OFFICE OF EMERGENCY MANAGEMENT

• hazard identification,
• loss prevention, planning, training, operational response to emergencies,
• technical support, and disaster recovery assistance.

EMPIRE STATE DEVELOPMENT/ EMPIRE STATE DEVELOPMENT CORPORATION

1.00 Preparation or revision of statewide or specific plans to address State economic development needs.
2.00 Allocation of the state tax-free bonding reserve.

ENERGY RESEARCH AND DEVELOPMENT AUTHORITY

1.00 Issuance of revenue bonds to finance pollution abatement modifications in power-generation facilities and various energy projects.
2.00 New Construction Program – provide assistance to incorporate energy-efficiency measures into the design, construction and operation of new and substantially renovated buildings.
3.00 Existing Facilities Program – offers incentives for a variety of energy projects

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1.00 Acquisition, disposition, lease, grant of easement, and other activities related to the management of lands under the jurisdiction of the Department.
2.00 Classification of Waters Program; classification of land areas under the Clean Air Act.
3.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.
4.00 Financial assistance/grant programs:
   4.01 Capital projects for limiting air pollution
4.02 Cleanup of toxic waste dumps
4.03 Flood control, beach erosion, and other water resource projects
4.04 Operating aid to municipal wastewater treatment facilities
4.05 Resource recovery and solid waste management capital projects
4.06 Wastewater treatment facilities

6.00 Implementation of the Environmental Quality Bond Act of 1972, including:
   (a) Water Quality Improvement Projects
   (b) Land Preservation and Improvement Projects including Wetland Preservation and Restoration Projects, Unique Area Preservation Projects, Metropolitan Parks Projects, Open Space Preservation Projects, and Waterways Projects.

7.00 Marine Finfish and Shellfish Programs

9.00 Permit and approval programs

   **Air Resources**
   9.01 Certificate of Approval for Air Pollution Episode Action Plan
   9.02 Certificate of Compliance for Tax Relief – Air Pollution Control Facility
   9.03 Certificate to Operate: Stationary Combustion Installation; Incinerator; process, exhaust or Ventilation System
   9.04 Permit for Burial of Radioactive Material
   9.05 Permit for Discharge of Radioactive Material to Sanitary Sewer
   9.06 Permit for Restricted Burning
   9.07 Permit to Construct; a Stationary Combustion Installation; Incinerator; Indirect Source of Air Contamination; Process, Exhaust or Ventilation System

   **Construction Management**
   9.08 Approval of Plans and Specifications for Wastewater Treatment Facilities

   **Fish and Wildlife**
   9.09 Certificate to Possess and Sell Hatchery Trout in New York State
   9.10 Commercial Inland Fisheries Licenses
   9.11 Fishing Preserve License
   9.12 Fur Breeder’s License
   9.13 Game Dealer’s License
   9.14 Licenses to breed Domestic Game Animals
   9.15 License to Possess and Sell Live Game
   9.16 Permit to Import, Transport and/or Export under Section 184.1 (11-0511)
   9.17 Permit to Raise and Sell trout
9.18 Private Bass Hatchery Permit
9.19 Shooting Preserve Licenses
9.20 Taxidermy License
9.21 Permit – Article 15, (Protection of Water) – Dredge and Deposit Material in a Waterway
9.22 Permit – Article 15, (Protection of Water) – Stream Bed or Bank Disturbances
9.23 Permit – Article 24, (Freshwater Wetlands)

**Hazardous Substances**

9.24 Permit to Use Chemicals for the Control or Elimination of Aquatic Insects
9.25 Permit to Use Chemicals for the Control or Elimination of Aquatic Vegetation
9.26 Permit to Use Chemicals for the Control or Elimination of Undesirable Fish

**Lands and Forest**

9.27 Certificate of Environmental Safety (Liquid Natural Gas/Liquid Petroleum Gas)
9.28 Floating Object Permit
9.29 Marine Regatta Permit
9.30 Navigation Aid Permit

**Marine Resources**

9.31 Digger’s Permit (Shellfish)
9.32 License of Menhaden Fishing Vessel
9.33 License for Non Resident Food Fishing Vessel
9.34 Non Resident Lobster Permit
9.35 Marine Hatchery and/or Off Bottom Culture Shellfish Permits
9.36 Permits to Take Blue Claw Crabs
9.37 Permit to Use Pond or Trap Net
9.38 Resident Commercial Lobster Permit
9.39 Shellfish Bed Permit
9.40 Shellfish Shipper’s Permits
9.41 Special Permit to Take Surf Clams from Waters other than the Atlantic Ocean
9.42 Permit – Article 25, (Tidal Wetlands)

**Mineral Resources**

9.43 Mining Permit
9.44 Permit to Plug and Abandon (a non-commercial, oil, gas or solution mining well)
9.45 Underground Storage Permit (Gas)
9.46 Well Drilling Permit (Oil, Gas and Solution Salt Mining)
Solid Wastes
9.47 Permit to Construct and/or operate a Solid Waste Management Facility
9.48 Septic Tank Cleaner and Industrial Waste Collector Permit

Water Resources
9.49 Approval of Plans for Wastewater Disposal Systems
9.50 Certificate of Approval of Realty Subdivision Plans
9.51 Certificate of Compliance (Industrial Wastewater Treatment Facility)
9.52 Letters of Certification for Major Onshore Petroleum Facility Oil Spill Prevention and Control Plan
9.53 Permit Article 36, (Construction in Flood Hazard Areas)
9.54 Permit for State Agency Activities for Development in Coastal Erosion Hazards Areas
9.55 Permit for State Agency Activities for Development in Coastal Erosion Hazards Areas
9.56 State Pollutant Discharge Elimination System (SPDES) Permit
9.57 Approval – Drainage Improvement District
9.58 Approval – Water (Diversions for Power)
9.59 Approval of Well System and Permit to Operate
9.60 Permit – Article 15, (Protection of Water) – Dam
9.61 Permit – Article 15, Title 15 (Water Supply)
9.62 River Improvement District Permits
9.63 River Regulatory District approvals
9.64 Well Drilling Certificate of Registration
9.65 401 Water Quality Certification

10.00 Preparation and revision of Air Pollution State Implementation Plan.

11.00 Preparation and revision of Continuous Executive Program Plan.

12.00 Preparation and revision of Statewide Environmental Plan.

13.00 Protection of Natural and Man-made Beauty Program.

14.00 Urban Fisheries Program.

15.00 Urban Forestry Program.

16.00 Urban Wildlife Program.

ENVIRONMENTAL FACILITIES CORPORATION
1.0 Financing program for pollution control facilities for industrial firms and small businesses.
DEPARTMENT OF FINANCIAL SERVICES (DEPARTMENT OF BANKING)

1.00 Permit and approval programs:

1.01 Authorization Certificate (Bank Branch)
1.02 Authorization Certificate (Bank Change of Location)
1.03 Authorization Certificate (Bank Charter)
1.04 Authorization Certificate (Credit Union Change of Location)
1.05 Authorization Certificate (Credit Union Charter)
1.06 Authorization Certificate (Credit Union Station)
1.07 Authorization Certificate (Foreign Banking Corporation Change of Location)
1.08 Authorization Certificate (Foreign Banking Corp. Public Accommodations Office)
1.09 Authorization Certificate (Investment Company Branch)
1.10 Authorization Certificate (Investment Company Change of Location)
1.11 Authorization Certificate (Investment Company Charter)
1.12 Authorization Certificate (Licensed Lender Change of Location)
1.13 Authorization Certificate (Mutual Trust Company Charter)
1.14 Authorization Certificate (Private Banker Charter)
1.15 Authorization Certificate (Public Accommodation Office – Banks)
1.16 Authorization Certificate (Safe Deposit Company Branch)
1.17 Authorization Certificate (Safe Deposit Company Change of Location)
1.18 Authorization Certificate (Safe Deposit Company Charter)
1.19 Authorization Certificate (Savings Bank Charter)
1.20 Authorization Certificate (Savings Bank DeNovo Branch Office)
1.21 Authorization Certificate (Savings Bank Public Accommodations Office)
1.22 Authorization Certificate (Savings and Loan Association Branch)
1.23 Authorization Certificate (Savings and Loan Association Change of Location)
1.24 Authorization Certificate (Savings and Loan Association Charter)
1.25 Authorization Certificate (Subsidiary Trust Company Charter)
1.26 Authorization Certificate (Trust Company Branch)
1.27 Authorization Certificate (Trust Company – Change of Location)
1.28 Authorization Certificate (Trust Company Charter)
1.29 Authorization Certificate (Trust Company Public Accommodations Office)
1.30 Authorization to Establish a Life Insurance Agency
1.31 License as a Licensed Lender
1.32 License for a Foreign Banking Corporation Branch

OFFICE OF GENERAL SERVICES

1.00 Administration of the Public Lands Law for acquisition and disposition of lands, grants of land and grants of easement of land under water, issuance of licenses for removal of materials from lands under water, and oil and gas leases for exploration and development.

2.00 Administration of Article 4 B, Public Buildings Law, in regard to the protection and management of State historic and cultural properties and State uses of buildings of historic, architectural or cultural significance.

3.00 Facilities construction, rehabilitation, expansion, or demolition.

4.00 Administration of Article 5, Section 233, Subsection 5 of the Education Law on removal of archaeological and paleontological objects under the waters of the State.

5.00 Administration of Article 3, Section 32 of the Navigation Law regarding location of structures in or on navigable waters.

6.00 Section 334 of the State Real Estate Law regarding subdivision of waterfront properties on navigable waters to include the location of riparian lines.

DEPARTMENT OF HEALTH

1.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

2.00 Permit and approval programs:
   2.01 Approval of Completed Works for Public Water Supply Improvements
   2.02 Approval of Plans for Public Water Supply Improvements.
   2.03 Certificate of Need (Health Related Facility except Hospitals)
   2.04 Certificate of Need (Hospitals)
   2.05 Operating Certificate (Diagnostic and Treatment Center)
   2.06 Operating Certificate (Health Related Facility)
   2.07 Operating Certificate (Hospice)
   2.08 Operating Certificate (Hospital)
   2.09 Operating Certificate (Nursing Home)
   2.10 Shared Health Facility Registration Certificate

DIVISION OF HOMES AND COMMUNITY RENEWAL and its subsidiaries and affiliates

1.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.
2.00 Financial assistance/grant programs:
   2.01 Federal Housing Assistance Payments Programs (Section 8 Programs)
   2.02 Housing Development Fund Programs
   2.03 Neighborhood Preservation Companies Program
   2.04 Public Housing Programs
   2.05 Rural Initiatives Grant Program
   2.06 Rural Preservation Companies Program
   2.07 Rural Rental Assistance Program
   2.08 Special Needs Demonstration Projects
   2.09 Urban Initiatives Grant Program
   2.10 Urban Renewal Programs

3.00 Preparation and implementation of plans to address housing and community renewal needs.

OFFICE OF MENTAL HEALTH

1.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

2.00 Permit and approval programs:
   2.01 Operating Certificate (Community Residence)
   2.02 Operating Certificate (Family Care Homes)
   2.03 Operating Certificate (Inpatient Facility)
   2.04 Operating Certificate (Outpatient Facility)

DIVISION OF MILITARY AND NAVAL AFFAIRS

1.0 Preparation and implementation of the State Disaster Preparedness Plan.

NATURAL HERITAGE TRUST

1.0 Funding program for natural heritage institutions.

OFFICE OF PARKS, RECREATION, AND HISTORIC PRESERVATION (including Regional State Park Commission)

1.00 Acquisition, disposition, lease, grant of easement, or other activities related to the management of land under the jurisdiction of the Office.

2.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

3.00 Funding program for recreational boating, safety, and enforcement.

4.00 Funding program for State and local historic preservation projects.
5.00 Land and Water Conservation Fund programs.

6.00 Nomination of properties to the Federal and/or State Register of Historic Places.

7.00 Permit and approval programs:
   7.01 Floating Objects Permit
   7.02 Marine Regatta Permit
   7.03 Navigation Aide Permit
   7.04 Posting of Signs Outside State Parks

8.00 Preparation and revision of the Statewide Comprehensive Outdoor Recreation Plan and the Statewide Comprehensive Historic Preservation Plan and other plans for public access, recreation, historic preservation or related purposes.

9.00 Recreation services program.

10.00 Urban Cultural Parks Program.

11.00 Planning, construction, rehabilitation, expansion, demolition or the funding of such activities and/or projects funded through the Environmental Protection Fund (Environmental Protection Act of 1993) or Clean Water/Clean Air Bond Act of 1996.

**OFFICE FOR PEOPLE WITH DEVELOPMENTAL DISABILITIES**

1.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

2.00 Permit and approval programs:
   2.01 Establishment and Construction Prior Approval
   2.02 Operating Certificate Community Residence
   2.03 Outpatient Facility Operating Certificate

**POWER AUTHORITY OF THE STATE OF NEW YORK**

1.00 Acquisition, disposition, lease, grant of easement, and other activities related to the management of land under the jurisdiction of the Authority.

2.00 Facilities construction, rehabilitation, expansion, or demolition.

**ROCHESTER-GENESEE REGIONAL TRANSPORTATION AUTHORITY (regional agency)**

1.00 Acquisition, disposition, lease, grant of easement and other activities related to the management of land under the jurisdiction of the Authority.

2.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

3.00 Increases in special fares for transportation services to public water-related recreation resources.
NEW YORK STATE SCIENCE AND TECHNOLOGY FOUNDATION
1.00 Corporation for Innovation Development Program.
2.00 Center for Advanced Technology Program.

DEPARTMENT OF STATE
1.00 Appalachian Regional Development Program.
2.00 Coastal Management Program.
   2.10 Planning, construction, rehabilitation, expansion, demolition or the funding of such activities and/or projects funded through the Environmental Protection Fund (Environmental Protection Act of 1993) or Clean Water/Clean Air Bond Act of 1996.
3.00 Community Services Block Grant Program.
4.00 Permit and approval programs:
   4.01 Billiard Room License
   4.02 Cemetery Operator
   4.03 Uniform Fire Prevention and Building Code

STATE UNIVERSITY CONSTRUCTION FUND
1.0 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

STATE UNIVERSITY OF NEW YORK
1.00 Acquisition, disposition, lease, grant of easement, and other activities related to the management of land under the jurisdiction of the University.
2.00 Facilities construction, rehabilitation, expansion, or demolition or the funding of such activities.

DEPARTMENT OF TRANSPORTATION
1.00 Acquisition, disposition, lease, grant of easement, and other activities related to the management of land under the jurisdiction of the Department.
2.00 Construction, rehabilitation, expansion, or demolition of facilities, including but not limited to:
   (a) Highways and parkways
   (b) Bridges on the State highways system
   (c) Highway and parkway maintenance facilities
   (d) Rail facilities
3.00 Financial assistance/grant programs:
3.01 Funding programs for construction/reconstruction and reconditioning/preservation of municipal streets and highways (excluding routine maintenance and minor rehabilitation)

3.02 Funding programs for development of the ports of Albany, Buffalo, Oswego, Ogdensburg and New York

3.03 Funding programs for rehabilitation and replacement of municipal bridges

3.04 Subsidies program for marginal branch lines abandoned by Conrail

3.05 Subsidies program for passenger rail service

4.00 Permits and approval programs:

4.01 Approval of applications for airport improvements (construction projects)

4.02 Approval of municipal applications for Section 18 Rural and Small Urban Transit Assistance Grants (construction projects)

4.03 Approval of municipal or regional transportation authority applications for funds for design, construction and rehabilitation of omnibus maintenance and storage facilities

4.04 Approval of municipal or regional transportation authority applications for funds for design and construction of rapid transit facilities

4.05 Certificate of Convenience and Necessity to Operate a Railroad

4.06 Highway Work Permits

4.07 License to Operate Major Petroleum Facilities

4.08 Outdoor Advertising Permit (for off premises advertising signs adjacent to interstate and primary highway)

4.09 Real Property Division Permit for Use of State Owned Property

5.00 Preparation or revision of the Statewide Master Plan for Transportation and sub-area or special plans and studies related to the transportation needs of the State.

6.00 Water Operation and Maintenance Program Activities related to the containment of petroleum spills and development of an emergency oil spill control network.

DIVISION OF YOUTH

1.0 Facilities construction, rehabilitation, expansion, or demolition or the funding for approval of such activities.
D.2. Federal Activities Affecting Land and Water Uses and Natural Resources in the Coastal Zone of New York State

Note: This LWRP’s list of the federal agency activities is identical to the most recent version of the Table 3 list in the New York State Coastal Management Program as approved by the federal Office for Coastal Management on May 7, 2017. Please contact the New York State Department of State, Office of Planning and Development, at (518) 474-6000, for any updates to New York State Coastal Management Program Table 3 federal agency activities list that may have occurred post-approval of this LWRP.

This list has been prepared in accordance with the consistency provisions of the federal Coastal Zone Management Act and implementing regulations in 15 CFR Part 930. It is not exhaustive of all activities subject to the consistency provisions of the federal Coastal Zone Management Act, implementing regulations in 15 CFR Part 930, and the New York Coastal Management Program. It includes activities requiring:

1. the submission of consistency determinations by federal agencies;
2. the submission of consistency certifications by entities other than federal agencies; and
3. the submission of necessary data and information to the New York State Department of State, in accordance with 15 CFR Part 930, Subparts C, D, E, F and I, and the New York Coastal Management Program.

I. Activities Undertaken Directly by or on Behalf of Federal Agencies

The following activities, undertaken directly by or on behalf of the identified federal agencies, are subject to the consistency provisions of the Coastal Zone Management Act, its implementing regulations in 15 CFR Part 930, Subpart C, and the New York Coastal Management Program.

**Department of Commerce, National Marine Fisheries Service:**
- Fisheries Management Plans

**Department of Defense, Army Corps of Engineers:**
- Proposed authorizations for dredging, channel improvement, breakwaters, other navigational works, erosion control structures, beach replenishment, dams or flood control works, ice management practices and activities, and other projects with the potential to impact coastal lands and waters.
- Land acquisition for spoil disposal or other purposes.
- Selection of open water disposal sites.

**Department of Defense, Air Force, Army and Navy:**
- Location, design, and acquisition of new or expanded defense installations (active or reserve status, including associated housing, transportation or other facilities).
- Plans, procedures and facilities for handling or storage use zones.
- Establishment of impact, compatibility or restricted use zones.

**Department of Energy:**
- Prohibition orders.
Appendix D

General Services Administration:
− Acquisition, location and design of proposed federal government property or buildings, whether leased or owned by the federal government.

Department of Interior, Fish and Wildlife Service:
− Management of National Wildlife refuges and proposed acquisitions.

Department of Interior, National Park Service:
− National Park and Seashore management and proposed acquisitions.

Department of Interior, Bureau of Ocean Energy Management
− OCS lease sale activities including tract selection, lease sale stipulations, etc.

Department of Homeland Security, Coast Guard:
− Location and design, construction or enlargement of Coast Guard stations, bases, and lighthouses.
− Location, placement or removal of navigation devices which are not part of the routine operations under the Aids to Navigation Program (ATON).
− Expansion, abandonment, designation or anchorages, lightering areas or shipping lanes and ice management practices and activities.

Department of Transportation, Federal Aviation Administration:
− Location and design, construction, maintenance, and demolition of Federal aids to air navigation.

Department of Transportation, St. Lawrence Seaway Development Corporation:
− Acquisition, location, design, improvement and construction of new and existing facilities for the operation of the Seaway, including traffic safety, traffic control and length of navigation season.

Department of Transportation, Federal Highway Administration:
− Highway construction

II. Federal Licenses and Permits and Other Forms of Approval or Authorization

The following activities, requiring permits, licenses, or other forms of authorization or approval from federal agencies, are subject to the consistency provisions of the Coastal Zone Management Act, its implementing regulations in 15 CFR Part 930, Subpart D, and the New York Coastal Management Program.

Department of Defense, Army Corps of Engineers:
− Construction of dams, dikes or ditches across navigable waters, or obstruction or alteration of navigable waters required under Sections 9 and 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 401, 403).
− Establishment of harbor lines pursuant to Section 11 of the Rivers and Harbors Act of 1899 (33 U.S.C. 404, 405).
Occupation of seawall, bulkhead, jetty, dike, levee, wharf, pier, or other work built by the U.S. pursuant to Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408).

Approval of plans for improvements made at private expense under USACE supervision pursuant to the Rivers and Harbors Act of 1902 (33 U.S.C. 565).

Disposal of dredged spoils into the waters of the U.S., pursuant to the Clean Water Act, Section 404 (33 U.S.C. 1344).

All actions for which permits are required pursuant to Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

Construction of artificial islands and fixed structures in Long Island Sound pursuant to Section 4 (f) of the River and Harbors Act of 1912 (33 U.S.C.).

Department of Energy, Federal Energy Regulatory Commission:

- Licenses for non-federal hydroelectric projects and primary transmission lines under Sections 3 (11), 4 (e) and 15 of the Federal Power Act (16 U.S.C. 796 (11), 797 (11) and 808).

- Orders for interconnection of electric transmission facilities under Section 202 (b) of the Federal Power Act (15 U.S.C. 824 a (b)).

- Certificates for the construction and operation of interstate natural gas pipeline facilities, including both pipelines and terminal facilities under Section 7 (c) of the Natural Gas Act (15 U.S.C. 717 f (c)).

- Permission and approval for the abandonment of natural gas pipeline facilities under Section 7(b) of the Natural Gas Act (15 U.S.C. 717 f (b)).

Department of Energy, Economic Regulatory Commission:


- Exemptions from prohibition orders.

Environmental Protection Agency:

- NPDES permits and other permits for Federal installations, discharges in contiguous zones and ocean waters, sludge runoff and aquaculture permits pursuant to Sections 401, 402, 403, 405, and 318 of the Federal Grater Pollution Control Act of 1972 (33 U.S.C. 1341, 1342, 1343, and 1328).


- Permits pursuant to the underground injection Control program under Section 1424 of the Safe Water Drinking Water Act (42 U.S.C. 300 h-c).

- Permits pursuant to the Clean Air Act of 1976 (42 U.S.C. 1857).

Department of Interior, Fish and Wildlife Services:

- Endangered species permits pursuant to the Endangered Species Act (16 U.S.C. 153 (a)).

Department of Interior, Bureau of Ocean Energy Management:
— Permits to drill, rights of use and easements for construction and maintenance of pipelines, gathering and flow lines and associated structures pursuant to 43 U.S.C. 1334, exploration and development plans, and any other permits or authorizations granted for activities described in detail in OCS exploration, development, and production plans.
— Permits required for pipelines crossing federal lands, including OCS lands, and associated activities pursuant to the OCS Lands Act (43 U.S.C. 1334) and 43 U.S.C. 931 (c) and 20 U.S.C. 185.

**Surface Transportation Board:**
— Authority to abandon railway lines (to the extent that the abandonment involves removal of trackage and disposition of right-of-way); authority to construct railroads; authority to construct slurry pipelines.

**Nuclear Regulatory Commission:**

**Department of Transportation:**
— Construction or modification of bridges, causeways or pipelines over navigable waters pursuant to 49 U.S.C. 1455.

**Department of Transportation, Federal Aviation Administration:**
— Permits and licenses for construction, operation or alteration of airports.

### III. Federal Financial Assistance to State and Local Governments

The following activities, involving financial assistance from federal agencies to state and local governments, are subject to the consistency provisions of the Coastal Zone Management Act, its implementing regulations in 15CFR Part 930, Subpart F, and the New York Coastal Management Program. When these activities involve financial assistance for entities other than State and local governments, the activities are subject to the consistency provisions of 15 CFR Part 930, Subpart C.

**Department of Agriculture**

10.068 Rural Clean Water Program
10.409 Irrigation, Drainage, and Other Soil and Water Conservation Loans
10.410 Low to Moderate Income Housing Loans
10.411 Rural Housing Site Loans
10.413 Recreation Facility Loans
10.414 Resource Conservation and Development Loans
10.415 Rural Rental Housing Loans
10.416 Soil and Water Loans
10.418 Water and Waste Disposal Systems for Rural Communities
10.419 Watershed Protection and Flood Prevention Loans
10.422 Business and Industrial Loans
10.423 Community Facilities Loans
10.424 Industrial Development Grants
10.426 Area Development Assistance Planning Grants
10.429 Above Moderate Income Housing Loans
10.430 Energy Impacted Area Development Assistance Program
10.901 Resource Conservation and Development
10.902 Soil and Water Conservation
10.904 Watershed Protection and Flood Prevention
10.906 River Basin Surveys and Investigations

**Department of Commerce**

11.300 Economic Development - Grants and Loans for Public Works and Development Facilities
11.301 Economic Development - Business Development Assistance
11.302 Economic Development - Support for Planning Organizations
11.304 Economic Development - State and Local Economic Development Planning
11.305 Economic Development - State and Local Economic Development Planning
11.307 Special Economic Development and Adjustment Assistance Program - Long Term Economic Deterioration
11.308 Grants to States for Supplemental and Basic Funding of Titles I, II, III, IV, and V Activities
11.405 Anadromous and Great Lakes Fisheries Conservation
11.407 Commercial Fisheries Research and Development
11.417 Sea Grant Support
11.427 Fisheries Development and Utilization Research and Demonstration Grants and Cooperative Agreements Program
11.501 Development and Promotion of Ports and Intermodal Transportation
11.509 Development and Promotion of Domestic Water-borne Transport Systems

**Department of Housing and Urban Development**

14. 112 Mortgage Insurance - Construction or Substantial Rehabilitation of Condominium Projects
14. 115 Mortgage Insurance - Development of Sales Type Cooperative Projects
14. 117 Mortgage Insurance - Homes
14. 124 Mortgage Insurance - Investor Sponsored Cooperative Housing
14. 125 Mortgage Insurance - Land Development and New Communities
14. 126 Mortgage Insurance - Manages Assist Type Cooperative Projects
14. 127 Mortgage Insurance - Mobile Home Parks
14. 218 Community Development Block Grants/Entitlement Grants
14. 219 Community Development Block Grants/Small Cities Program
14. 221 Urban Development Action Grants
14. 223 Indian Community Development Block Grant Program

Department of the Interior
15.400 Outdoor Recreation - Acquisition, Development and Planning
15.402 Outdoor Recreation - Technical Assistance
15.403 Disposal of Federal Surplus Real Property for Parks, Recreation, and Historic Monuments
15.411 Historic Preservation Grants-In-Aid
15.417 Urban Park and Recreation Recovery Program
15.600 Anadromous Fish Conservation
15.605 Fish Restoration
15.611 Wildlife Restoration
15.613 Marine Mammal Grant Program
15.802 Minerals Discovery Loan Program
15.950 National Water Research and Development Program
15.951 Water Resources Research and Technology - Assistance to State Institutes
15.952 Water Research and Technology-Matching Funds to State Institutes

Department of Transportation
20.102 Airport Development Aid Program
20.103 Airport Planning Grant Program
20.205 Highway Research, Planning, and Construction Railroad Rehabilitation and Improvement - Guarantee of Obligations
20.309 Railroad Rehabilitation and Improvement – Guarantee of Obligations
20.310 Railroad Rehabilitation and Improvement - Redeemable Preference Shares
20.506 Urban Mass Transportation Demonstration Grants
20.509 Public Transportation for Rural and Small Urban Areas

General Services Administration
39.002 Disposal of Federal Surplus Real Property
Community Services Administration
49.002  Community Action
49.011  Community Economic Development
49.013  State Economic Opportunity Offices
49.017  Rural Development Loan Fund
49.018  Housing and Community Development (Rural Housing)

Small Business Administration
59.012  Small Business Loans
59.013  State and Local Development Company Loans
59.024  Water Pollution Control Loans
59.025  Air Pollution Control Loans
59.031  Small Business Pollution Control Financing Guarantee

Environmental Protection Agency
66.001  Air Pollution Control Program Grants
66.418  Construction Grants for Wastewater Treatment Works
66.426  Water Pollution Control - State and Area-wide Water Quality Management Planning Agency
66.451  Solid and Hazardous Waste Management Program Support Grants
66.452  Solid Waste Management Demonstration Grants
66.600  Environmental Protection Consolidated Grants Program Support
66.800  Comprehensive Environmental Response, Compensation and Liability (Superfund)

Note:  Numbers refer to the Catalog of Federal Domestic Assistance Programs, 1980 and its subsequent updates.
Appendix E

Waterfront Corridor Zone
(City of Buffalo Unified Development Ordinance)
5.3 C-W WATERFRONT

5.3.1 Purpose
The C-W zone addresses all land areas within the Local Waterfront Revitalization Area (LWRA), which is defined in the Local Waterfront Revitalization Plan (LWRP) and delineated on the Zoning Map.

5.3.2 General
The C-W zone is an overlay zone, so both the standards of the C-W zone and underlying zone apply. All development in the C-W zone must comply with the standards of this section, as well as any applicable standards in the underlying zone and other sections.
5.3.3 Specific Standards

A. Waterfront Yards. All development on waterfront lots within the C-W zone must provide a waterfront yard (either C-W-25 or C-W-100, depending upon the zone) along the shoreline of the property per Table 5A: Waterfront Yards. The standards for the C-W-25 and C-W-100 waterfront yard types are described below.

<table>
<thead>
<tr>
<th>ZONE</th>
<th>WATERFRONT YARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-1D, N-1C, N-1S, N-2C, N-2E, N-2R, N-3C, N-3E, N-3R, N-4-30, N-4-50</td>
<td>C-W-25</td>
</tr>
<tr>
<td>D-R, D-M, D-E, D-S, D-C, D-IL, D-IH, D-OS, D-OG, D-ON, C-R</td>
<td>C-W-100</td>
</tr>
</tbody>
</table>

1. A required waterfront yard is the area of a waterfront lot measured from the mean high water line of the adjacent water body that must be maintained clear of all permanent structures and vehicular access and parking, except where necessary to facilitate water-dependent uses. The required waterfront yard substitutes for a required rear or interior side yard, wherever such yards coincide.

2. A water-dependent use is a use which can only be conducted in, on, over, or adjacent to a water body because such use requires direct access to that water body, and which involves, as an integral part of such activity, the use of the water. Water-dependent uses include, but are not limited to, marinas and yacht clubs, boat launch and service facilities, waterborne passenger terminals, fishing facilities, tour boat and charter boat facilities, research and educational facilities requiring access to water bodies, structures needed for navigational purposes, erosion and flood control structures, and facilities for loading and unloading bulk cargo by water. A shore public walkway, plus related accessory structures, is considered a water-dependent use.

3. Where a water-dependent use is proposed to be established or expanded within a required waterfront yard, the encroachment upon the required waterfront yard must, to the greatest extent practicable, avoid, minimize, and/or mitigate adverse impacts, including, but not limited to:

a. Deterioration of water quality.

b. Loss, fragmentation, and impairment of habitats and wetlands.

c. Changes to the natural processes that would increase shoreline flooding and erosion.

d. Impacts on physical and visual access to the water.

e. Impacts upon historic, archaeological, cultural, or scenic resources.

f. Interference with existing water-dependent uses.

4. C-W-25 Standards. The C-W-25 waterfront yard type is intended for intensely urbanized waterfronts, typically characterized by an existing bulkhead, breakwall, embankment, or wharf along the shore, enabling public engagement with the water’s edge. The following standards apply to this type:

a. A waterfront yard of a minimum depth of 25 feet is required along the shoreline.

5. C-W-100 Standards. The C-W-100 waterfront yard type is intended for less urbanized waterfronts, where a shoreline buffer of native vegetation protects and restores wildlife habitat and ecosystem services. The following standards apply to this type:

a. A waterfront yard of a minimum depth of 100 feet is required along the shoreline. As part of major site plan review, per Section 11.3.7, the City Planning Board may adjust the depth of the required waterfront yard to include contiguous sensitive areas, such as steep slopes, erodible soils, wetlands, or floodplains.
where it finds that development in these areas will adversely affect the water quality of the water body.

b. A shoreline buffer, consisting of undisturbed native or naturalized vegetation, must be provided for a minimum depth of 50 feet from the mean high water line. Grading, filling, excavation, clear cutting, and removal of vegetative cover are prohibited within this shoreline buffer, except in the following instances:

   i. To implement erosion and flood control measures.

   ii. To facilitate a water-dependent use.

   iii. To control noxious or invasive vegetation.

   iv. To implement green infrastructure best management practices (BMPs).

   v. To undertake activities related to environmental remediation.

   vi. To undertake activities related to the protection or restoration of shoreline buffers, wetlands, or sensitive habitats.

B. Shore Public Walkways

1. The provision of a shore public walkway, which is a linear public access area running alongside the shore and accessible to the public, is encouraged wherever new development occurs.

2. A shore public walkway should be designed as a multi-use path, connected to adjacent shore public walkways and public rights-of-way, where possible, in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), plus New York State Supplement, and the AASHTO Guide for the Development of Bicycle Facilities.

3. Public access easements may be dedicated to ensure public access to and along a shore public walkway.

C. Outer Harbor Review Area

1. The Outer Harbor boundaries are defined, as follows:

   a. Beginning at the southern shoreline of the mouth of the Buffalo River where it meets Lake Erie and proceeding southerly along the City Ship Canal until reaching the southern extent of the City Ship Canal, then proceeding southerly to the southeastern corner of the former NFTA Terminal buildings property, then proceeding westerly until reaching the western extent of the former NFTA Terminal buildings property, then proceeding northerly along the Lake Erie shoreline until intersecting with the southern shoreline of mouth of the Buffalo River.

2. Attached house and detached house building types are prohibited within the Outer Harbor.

3. Except for Open Space, any proposed use (as permitted per Table 6A) within the Outer Harbor may be permitted only with a special use permit, subject to the following additional criteria:

   a. The proposed use will incorporate opportunities for visual and physical access to the waterfront for site users and the public.

   b. The proposed use will conserve environmentally sensitive and naturalized areas.

   c. The proposed use will not cause a decrease in vitality or an increase in vacancy in established employment centers within the City of Buffalo.

   d. The proposed use will provide for an efficient use of land that responds to the existing infrastructure, utilities, and service conditions in order to minimize, to the extent practicable, the demand for additional municipal services, utilities, and infrastructure.
D. **Supplemental Form Standards.** The following standards apply to waterside facades and building frontages along the waterfront yard, with the exception of single-unit or double-unit dwellings, which are exempt from these standards.

1. A waterside facade must comply with front facade transparency, pedestrian access, vertical and horizontal articulation, and materials requirements of the underlying zone, if any.

2. Where practicable, a waterside facade must be oriented to the shoreline and positioned parallel or radial to the mean high water line.

E. **Supplemental Use Standards**

1. The following uses are subject to additional standards if located within the C-W zone:
   - a. Car wash. Refer to Section 6.1.5.F.
   - b. Gas station. Refer to Section 6.1.5.M.
   - c. Off-premise signs. Refer to Section 9.3.1.B.

2. The following uses are prohibited within the C-W zone:
   - a. Adult establishment. Refer to Section 6.1.5.A.
   - b. Junk/salvage yard. Refer to Section 6.1.6.D.
   - c. Recycling facility. Refer to Section 6.1.6.F.
   - d. Waste transfer Station. Refer to Section 6.1.6.J.
   - e. Truck stop. Refer to Section 6.1.8.O.
   - f. Electronic Message Centers (9.1.5.B)

F. **Encroachments.** No structure may be erected, or any other encroachment established, within 40 feet of the mean high water line of any navigable waters of the City of Buffalo without written permission from the Commissioner of Public Works, Parks, and Streets, in accordance with § 495-16 of the City Code.

G. **Consistency Review.** All development within the C-W zone must also comply with the standards and procedures of the Local Waterfront Consistency Review Ordinance.
Appendix F: City of Buffalo Harbor Management Plan

The City of Buffalo Code Chapter 495 addresses the operation of wharves, harbors and bridges in the City of Buffalo. Chapter 495, Article 2, creates the position of Harbormaster with responsibility to supervise and control harbor operations and enforce the laws of Chapter 495.

The City of Buffalo has elected to integrate the required elements of a Harbor Management Plan into the Local Waterfront Revitalization Plan as follows:

<table>
<thead>
<tr>
<th>Section</th>
<th>Element</th>
<th>Provided In/As</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory</td>
<td>Water dependent uses</td>
<td>Inventory Section I.D.2</td>
</tr>
<tr>
<td></td>
<td>Vessel anchorage or mooring areas</td>
<td>Inventory Section III.D</td>
</tr>
<tr>
<td></td>
<td>Water quality classifications and use standards</td>
<td>Inventory Section II.A.5</td>
</tr>
<tr>
<td></td>
<td>Wetlands and significant habitats</td>
<td>Inventory Section II.B and II.C.</td>
</tr>
<tr>
<td></td>
<td>Ownership of underwater lands</td>
<td>Inventory Section I.D.3</td>
</tr>
<tr>
<td></td>
<td>Historic underwater sites and structures</td>
<td>Water Use Plan Map</td>
</tr>
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*The City of Buffalo Code Chapter 495, Wharves, Harbors, and Bridges, is provided for reference on the following pages.*
Chapter 495. Wharves, Harbors and Bridges

[HISTORY: Derived from Art. XIII of Ch. VI of the Charter and Ordinances, 1974, of the City of Buffalo. Amendments noted where applicable.]

GENERAL REFERENCES
Riverwalk — See Ch. 91, Art. I.
Behavior on watercraft — See Ch. 299, Art. III.
Water and water pollution — See Ch. 491.

§ 495-1. Definitions.

The following terms, wherever used in this chapter, except as otherwise specifically indicated, shall be defined to mean and shall be held to include each of the meanings hereinbelow specifically set forth, and any such term used in the singular number shall be held to include the plural.

**HARBOR**
Includes all the navigable waters within the limits of the City of Buffalo and the wharves, docks and piers adjacent thereto.

**VESSEL**
Includes every kind of vessel, boat, tug and raft, by whatever power the same is designed to be propelled, and shall also include a log, timber, wood, lumber and all other floating material.

**WHISTLE**
Includes any sounding device.

§ 495-2. General powers and duties of Harbormaster, Assistant Harbormaster and other employees.

A. There shall be one Harbormaster and one Assistant Harbormaster, whose hours of duty shall be fixed by the Commissioner of Public Works. The Harbormaster shall have general supervision and control of the harbor and shall keep an office in such place as the Commissioner of Public Works shall designate, where, at all times during the season of navigation, he may be found or where orders can be left and receive prompt attention; and it shall be the duty of the Harbormaster to see that provisions of this chapter are fully and faithfully observed, and, when necessary, he shall call upon the Commissioner of Police for aid to enable him to do so. In the absence of the Harbormaster, the Assistant Harbormaster shall perform the duties of the Harbormaster.

B. An employee of the department designated for such purpose shall have charge, under the Commissioner of Public Works, of the operation and maintenance of all movable bridges maintained by the City over the harbor and control of the bridge engineers on watch.

C. Bridge tenders on any watch shall be subject to the orders of the bridge engineer on watch, and such engineer shall be responsible for the general operating condition of such bridge.
§ 495-3. Supervision.

The Harbormasters, bridge tenders and bridge engineers shall be under the Department of Public Works and shall perform such duties as may be prescribed by the orders of such Department or by ordinance. The bridge engineers and bridge tenders shall at all times obey orders from the Harbormaster as to opening and closing of such bridges.

§ 495-4. Wearing of badge required; record and report of damage.

Each Harbormaster shall, at all times while on duty, wear his badge. He shall keep accurate account and record of each case of damages to bridges, docks and to all other City property pertaining to the harbor accruing from any violation of the provisions of any ordinance by any person, firm or corporation; the name of the person, firm, corporation or vessel causing such damage; and the name of the owner, master or consignee of said vessel and shall gather all evidence and information in his power forthwith concerning every such violation, keep an accurate record of the amount of such damage and an account of all claims known to him against the City for damages sustained by vessels while in the harbor and make a detailed report thereof to the Commissioner of Public Works.

§ 495-5. Vessels insecurely fastened, adrift, sunken and laid up.

Whenever there shall be in the harbor any vessel insecurely fastened, adrift, sunken or laid up which, in the judgment of the Harbormaster, should be fastened, raised, removed or its location changed, he shall notify the owner, master or other person in charge thereof to secure, raise or remove such vessel without delay. If the Harbormaster is unable to find the master, owner or person in charge of such vessel as aforesaid or if no person answering such description is known to him, such notice shall not be required. If any vessel shall not be secured, raised, removed or its location changed in compliance with the direction of the Harbormaster forthwith, after notice, or if the Harbormaster shall be unable to serve such notice as aforesaid, in either case he shall cause such vessel to be secured, raised, removed or its location changed as required, employing such assistance as may be necessary for the purpose. All expense which may be incurred in any such case shall be recoverable of the owner, consignee, master or other person responsible for the management of such vessel.

§ 495-6. Bridge control and traffic.

A. The bridge tender or person in charge of any bridge over any portion of the harbor shall change the semaphore vessel signal to show green instead of red to acknowledge the vessel signal for opening the bridge, if the bridge can or will be opened for such signal, clear the bridge, close the highway barriers, if any, and unlock the bridge. The failure to at once change the semaphore vessel signal shall indicate that the bridge will not be immediately opened in reply to such signal. When all is clear, the bridge engineer shall blow one blast of the bridge whistle to show that the bridge is to be raised or two blasts to show that the bridge is to be lowered.
B. No person shall drive or attempt to drive any vehicle onto or across the draw of any bridge over any portion of the harbor while the same is opening or shutting or after the signal for the opening thereof and before the opening is begun or displayed or resist the tender thereof in his efforts to keep and promote order and equal convenience to those desiring to cross said bridge.

C. No person in charge of any vehicle shall permit the same to cross any of the bridges over the harbor at a faster rate of speed than the legal speed limit or unless otherwise posted.

D. No person shall unnecessarily or willfully remain or stop any vehicle upon any of said bridges or in or upon the approaches thereto. It shall be the duty of every person on foot or in charge of any vehicle to keep to the right when crossing said bridge.

E. When said bridge has been opened and closed, vehicles shall cross in the following order, namely: Those occupying the street upon which the bridge is situated shall cross first; those occupying the cross streets and upon the right-hand side of the bridge shall cross next; and those occupying the cross streets and upon the left-hand side of the bridge shall cross last. No person shall cross or attempt to cross or break into the line of vehicles while crossing or attempting to cross any such bridge.

F. All persons are forbidden to gather in assemblies or crowds on any bridge over any portion of the harbor or the approaches leading thereto so as to obstruct in any manner the passage of pedestrians and vehicles across the same or be and remain upon any of the sidewalks or main passage of any such approach longer than is necessary to pass the same. No band of musicians shall play or beat time to keep step with each other while they or any procession or body of persons marching with them or any portion thereof are upon or crossing any such bridge.

§ 495-7. Hours of bridge closure; exceptions.

[Amended 5-22-1995, effective 6-2-1995]

A. The movable highway bridges over portions of the harbor shall not be open for passage of vessels, other than fire tugs operated by the City of Buffalo, during the times hereinafter specified, except to prevent imminent danger or injury to any such bridge; provided, however, that discretionary power is hereby conferred upon the Commissioner of Public Works to order the opening of any of said lift bridges at any time during an emergency or to promote public convenience:

- Michigan Avenue bridge over the Buffalo River from 7:30 a.m. to 8:30 a.m. and from 4:45 p.m. to 5:30 p.m.
- Ohio Street bridge over the Buffalo River from 7:30 a.m. to 8:30 a.m. and from 4:30 p.m. to 5:15 p.m.
- South Michigan Avenue bridge over the City ship canal from 7:00 a.m. to 7:30 a.m., from 8:00 a.m. to 8:30 a.m., from 3:45 p.m. to 4:30 p.m. and from 5:15 p.m. to 6:00 p.m.
- South Park Avenue bridge over the Buffalo River from 7:00 a.m. to 8:30 a.m. and from 4:30 p.m. to 6:00 p.m.
B. Any individual requiring a bridge to be raised during a period outside the above stated times shall pay a fee as outlined in Chapter 175, Fees.

§ 495-8. Time of opening of bridge.

Whenever any person having charge of any vessel shall wish to move the same past any bridge over any portion of the harbor, reasonable time shall be allowed for opening the same.

§ 495-9. Right-of-way over bridge of fire and police vehicles.

Whenever, at any alarm of fire, any fire engine or other fire apparatus shall approach any bridge over the harbor for the purpose of crossing the same toward such fire, the bridge tender shall, if such bridge is open, close the same as soon as practicable and keep it closed until such fire apparatus shall have had an opportunity to pass over said bridge, notwithstanding vessels may be delayed thereby. All vehicles of the Fire Department and the Police Department and vessels operated by either of said Departments shall have the right-of-way across or through any such bridge over all other traffic.

§ 495-10. Signals to vessels.

A. It shall be unlawful for the owner, officer or other person in charge of any vessel to attempt to pass any movable bridge across the harbor while a stop signal is being given or displayed.

B. The Commissioner of Public Works shall provide and maintain signals at the public highway bridges over the harbor as required by the Commissioner of Lighthouses for the security of navigation.

C. The owner of any movable bridge over the harbor shall provide and maintain vessel signals as required by the Commissioner of Lighthouses or by ordinances of the City of Buffalo for the security of navigation. During closed seasons, navigation lights on bridges over the harbor and other structures in the harbor must be exhibited from sunset to sunrise at all times when vessels can enter port or are navigating in the vicinity.


For all bascule or swing bridges over any portion of the harbor not carrying highway traffic, when any vessel shall signal for its opening, the bridge tender shall immediately open the bridge, unless a train is on the bridge or approaching it so closely as to be unable to stop, and in that case the bridge shall be kept closed long enough for the passage of one train and no more.
§ 495-12. Signals to bridge tenders.

Every owner or person in charge of any vessel desiring to pass through a movable bridge over the harbor shall sound or cause to be sounded a steam whistle to signal bridge tenders to open and swing bridges, and such signal shall be three sharp, short sounds of the whistle, to be given in succession as quickly as possible and not to be prolonged, and the whistle used for this purpose shall be of suitable size to be heard.


A. No person, firm or corporation shall blow or cause to be blown the steam whistle of any vessel for any purpose whatever while at any wharf or dock in the City of Buffalo or when approaching or leaving such wharf or dock or when passing through any drawbridge over the harbor or when running in the harbor, except when necessary as a signal of danger and in cases and under circumstances prescribed by the laws and regulations of the United States and by the Code of the City of Buffalo.

B. No captain or person in charge of a vessel in the Buffalo Harbor shall permit any whistle upon such vessel to be blown except for the purpose of giving and answering signals; and no four-whistles shall be answered by any vessel while lying at the dock.

[1] Editor's Note: See also § 495-30.

§ 495-14. Maintenance of docks and protection of margins and banks.

Every owner, lessee or person in possession of premises abutting on the harbor or abutting upon the channels of Buffalo River, Cazenovia Creek, Black Rock Harbor and the basins, slips and waters of the City shall at all times keep the wharves and docks on such premises in good repair and safe condition and shall at all times keep, maintain, build, alter, repair and rebuild sheeting, sheetpiling, wharfing or docking along the margin or banks of said channels, harbors and waters to prevent the obstruction of such channels and waters and to protect the banks thereof.

§ 495-15. Permit required for repair or construction; mooring posts.

A. It shall be the duty of every person, firm or corporation, before repairing, renewing, altering or constructing any dock within the City or any sheeting, sheetpiling, wharfing or docking along the margin or banks of the channels of Buffalo River, Cazenovia Creek, Black Rock Harbor and the harbors, basins, slips and waters of the City to secure a permit therefor from the Department of Public Works, which permit shall specify the character and location of such construction, repairing, renewal or alteration. In the event of any such docking, sheeting, sheetpiling, wharfing or docking along the margin or banks of said channels, basins, slips and waters having been repaired, renewed, altered or constructed without such permit, the person, firm or corporation causing such work to be done may be required at once and at his own expense to remove the same; and in default of such removal of the
same, the Commissioner of Public Works is authorized to cause such docking, sheeting, sheetpiling, wharfing or docking to be removed at the expense of the owner thereof.

B. The owners of a dock or wharf in and along the harbor shall make suitable and sufficiently strong mooring posts on or along the said dock or wharf to which the largest vessels may be tied up by lines or cables strong enough to hold said vessel or vessels at any and all times, especially during flood times and the movement of all floodwaters and ice.

§ 495-16. Permission required for encroachments.

No person, firm or corporation shall drive or place or cause to be driven or placed any pile or piles, stone, timber, earth or other obstruction of any kind whatsoever in the harbor of the City or build, construct or repair any dock therein or build or cause to be built any bridge or other structure across any portion of the harbor or drive or place or cause to be driven or placed any pile or piles of timber or make any excavation for the purpose of furnishing or laying foundation for any building or structure at any point within 40 feet of any part of the harbor without permission, in writing, from the Commissioner of Public Works so to do. Any person desiring to drive or place any pile or piles, stone, timber, earth or other obstruction or build, construct or repair any dock in the harbor or to build any bridge or other structure across the Buffalo River or any of its branches or across the City ship canal or to drive or place any pile or piles or make any excavations for the purpose of furnishing or laying foundations for any building or structure within 40 feet of the harbor shall make application, in writing, for permission so to do to the Commissioner of Public Works, furnishing with such application a sketch or plot showing the nature of the work desired to be done; and upon such application being made and such sketch or plot being furnished as herein required, the Commissioner of Public Works shall issue the permit desired, unless it shall appear that the work desired to be done will result in unduly obstructing the harbor or in endangering the safety of any dock, pier, breakwater or other structure located upon or along the harbor.


It shall be the duty of the Harbormasters to report to the City Engineer any and all encroachments upon the harbor lines as now established or which may hereafter be established, and thereupon said Harbormasters and City Engineer shall take such action as may be necessary to enforce the provisions of this chapter and to remove or cause to be removed any such obstruction or encroachment. If it shall be found that any pile, stone, timber, earth, dock, bridge or other obstruction whatever has been placed in any part of the harbor in violation of the provisions of this chapter and that the person who has placed or caused the same to be placed therein refuses or neglects to remove such obstruction upon being required so to do by the Harbormasters, City Engineer or Commissioner of Public Works, the Harbormasters, City Engineer and Commissioner of Public Works, or either of them, shall have the power and it is hereby made their duty to proceed forthwith to remove such obstruction and to charge the expense of such removal to the person, firm or corporation causing such obstruction to be placed in the harbor.
§ 495-18. Placement of cargo.

No person, firm or corporation discharging the cargo of any vessel shall suffer any part of such cargo to remain projecting over the front of any wharf after such vessel shall remove from the wharf.

§ 495-19. Delaying of work by City.

No owner or master or other person in charge or command of any vessel in the harbor shall operate it or anything that it may have in tow upon, against or over any rope, chain or other fastening, mooring, dredge or other machine used by or for the City of Buffalo for deepening, widening and improving the channel of the harbor so that said dredge or other machine shall be displaced, hindered or delayed in the working thereof.

§ 495-20. Dumping of refuse.

No person shall throw, discharge or deposit or cause, suffer or procure to be thrown, discharged or deposited, either from any vessel or from the shore or from any dock, pier, wharf, manufacturing establishment or mill, any refuse matter of any kind or description into any navigable water within the City of Buffalo or into any tributary to any navigable water from which the same shall float or be washed into such navigable water; and no person shall deposit or cause, suffer or procure to be deposited material of any kind in any place on the bank of any navigable water or the bank of any tributary to any navigable water where the same is likely to fall or be washed, either by fluctuations of water level or by storms or floods or otherwise, into such navigable waters whereby navigation shall or may be impeded or obstructed.

§ 495-21. Obstruction of harbor; damage of bridge.

No vessel shall be moored or anchored within the harbor in such manner as to prevent the passage of any other vessel, nor shall any vessel be moved so as to run against or injure any bridge over any portion of the harbor.

§ 495-22. Removal of vessel; costs of removal to be owner's responsibility.

Either Harbormaster may at any time order the owner or captain of any tug in the harbor to move, by means of such tug, any vessel to any place in the harbor; and the owner of the vessel receiving such assistance shall pay the person or persons, owners or captains rendering such assistance the reasonable value thereof.
§ 495-23. Directions to vessels.

The Harbormasters shall give such orders and directions relative to the location, change of place or stations of vessels, the manner of moving the same and the use of the harbor as may be necessary to promote good order and the safety and equal convenience of vessels therein.

§ 495-24. Passage under bridge.

It shall be unlawful for the owner or other person in charge of any vessel navigating the harbor to attempt to pass any bridge over any portion of it while said signal or signals are up or elevated or to approach so near to any such bridge at such time that the same may be injured or damaged or while any such bridge may be opening or closing.

§ 495-25. Speed and anchorage at and near bridges and ferry boats.

Every vessel navigating the harbor, when passing any bridge or ferry, shall be moved past the same as expeditiously as is consistent with a proper movement in the harbor, but in no case shall any vessel, while passing any bridge or ferry and obstructing the passage across such bridge or ferry, move at a rate of speed less than two miles an hour. No vessel shall be so anchored or fastened as to prevent any bridge from a free and speedy opening or any ferry boat from a free and direct passage: nor shall any line or fastening be so thrown, laid or made fact as to cross the track of any bridge or ferry.

§ 495-26. Control of vessels.

Every person, firm or corporation owning or in charge of a vessel lying in or navigating the harbor shall be respectively governed by the following further provisions:

A. Every vessel using steam shall have its smoke pipes so constructed and managed as to prevent sparks or coals of fire escaping therefrom.

B. Every vessel shall be moved slowly so as not in any case to endanger or injure other vessels and shall not approach or pass any movable bridge at a speed exceeding three miles per hour.

C. All vessels shall heed a slow signal given by another craft when passing.

D. No master or other person owning or having charge of any vessel shall leave the same in the harbor without having on board or in charge thereof some competent person to control, manage and secure the same, without first obtaining the permission of the Harbormasters.

E. They shall likewise have and keep out on board during the nighttime a conspicuous light and shall have extinguished or safely secured, at dark, all fires which may be kept on board.

F. No vessel shall be permitted to lie in the harbor adrift or insecurely fastened at any time. All vessels moored in the harbor shall be securely fastened by lines or cables strong
enough to hold said vessel at any and all times and shall, in addition thereto, drop anchor while so moored, but no vessel shall be so moored or anchored as to prevent passage of any other vessel. Special precautions shall be used in tying up vessels during the winter season and during flood times and the movement of all floodwaters and ice.

G. Safe navigation of the Buffalo River is the sole responsibility of the Captain of each vessel. It shall be the duty of each Captain to determine if the assistance of a tug is necessary when passing a bridge over the Buffalo River.

H. [Added 7-20-2004, effective 8-2-2004]

§ 495-27. (Reserved)

[1] Editor's Note: Former § 495-27, Use of tugs, was repealed 7-20-2004, effective 8-2-2004. See now § 495-26G.


No vessel laden in whole or in part with such explosives as defined in § 451 of the Labor Law shall land at or make fast to any dock or wharf within the harbors, canals and other public waters of the City or be within such harbors, canals and other public waters or discharge or take on a full or partial cargo of such explosives within said limits except in accordance with such written permissions and regulations as provided in Chapter 103 of the Code and in accordance with the laws and regulations of the United States government and the State of New York and their several agencies pertaining thereto. The Bureau of Fire Prevention is hereby authorized to prevent any vessel with such explosives on board from making fast to any wharf or dock or unloading or loading such cargo within the limits aforesaid unless proper permissions have been granted. The Harbormaster shall render such assistance as requested by the Bureau of Fire Prevention to carry out the provisions of this section. The prohibitions herein contained shall not be construed to interfere with the authorized procedures of the Armed Forces of the United States and the State of New York and the duly constituted police or fire-fighting forces of the state and its civil and political subdivisions.

§ 495-29. Vessels to display name.

It shall be unlawful for any master, owner or person in possession, charge or control of any vessel of a kind to operate, navigate, keep or maintain the same in the harbor unless the same shall have a name plainly and conspicuously displayed thereon, which shall be large enough and in such a position as to be readily distinguishable and readable on both sides or from the rear thereof for a distance of at least 500 feet, and such name shall be of such distinctive character that any such vessel of any kind may be readily identified by the same.

§ 495-30. Restrictions on use of whistle.
No person, firm or corporation shall at any time blow or cause to be blown a whistle on any vessel while lying at any wharf or dock in the City of Buffalo or when approaching or leaving such wharf or dock or when passing through any bridge draw in the City of Buffalo or when running in the harbor, unless it is necessary to the operation of said vessel.

[1] Editor's Note: See also § 495-13.

§ 495-31. Limitation on number of vessels in harbor.

No more than two vessels abreast shall be permitted to navigate in Buffalo Harbor, and no more than three vessels, including fireboat or tug, shall be permitted to navigate Buffalo Harbor except by permission of the Harbormaster.

§ 495-32. Applicability.

The provisions of this chapter, subject to the superior authority of the State of New York and of the government of the United States, shall apply to all parts of the harbor and to the street approaches to movable bridges over any portion of said harbor, but they shall not be construed to interfere in any manner with the operation of any vessel used by the Fire Department or the Police Department of the City of Buffalo.

§ 495-33. Penalties for offenses.

Any person, firm or corporation who or which shall violate any of the provisions of this chapter shall be liable to a penalty or fine of not more than $1,000. Any penalty specified in this section may be recovered by the City of Buffalo in a civil action, or, upon conviction in a court of criminal jurisdiction, a person shall be subject to the fine herein mentioned. In case any person does not immediately pay the penalty or fine imposed, he may be committed to the Erie County Penitentiary for a term not to exceed six months.

§ 495-34. Docking at City-owned properties.

[Added 6-27-2000, effective 7-11-2000]

A. Unless the vessel is owned or being operated by the United States of America, the State of New York, the County of Erie or the City of Buffalo, all vessels shall be charged a docking fee at City-owned properties (including Erie Basin Marina) as outlined in Chapter 175, Fees.

[Amended 1-11-2002, effective 1-22-2002]

B. Any person, firm, entity or corporation docking at a City-owned property (including Erie Basin Marina) without the permission of the Commissioner of Public Works shall be punishable by a Class E fine in the amount of $105. The Commissioner of Police and the Commissioner of Public Works shall possess concurrent jurisdiction in the enforcement of this provision.
C. Any vessel docked at a City-owned property without permission shall be towed away by the Commissioner of Public Works, and the cost of such towing shall be charged to the owner of the vessel.
Appendix G

Coastal Fish and Wildlife Habitat Rating Forms
**COASTAL FISH & WILDLIFE HABITAT RATING FORM**

Name of Area:  **North Buffalo Harbor**

Designated:  **October 15, 1987**

County:  **Erie**

Town(s):  **Buffalo**

7½’ Quadrangle(s):  **Buffalo NW, NY**

<table>
<thead>
<tr>
<th>Score</th>
<th>Criterion</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Ecosystem Rarity (ER)  &lt;br&gt;Open lake and river channel, heavily disturbed by development; not a rare ecosystem type.</td>
</tr>
<tr>
<td>25</td>
<td>Species Vulnerability (SV)  &lt;br&gt;Common Tern (T) nesting and feeding areas.</td>
</tr>
<tr>
<td>9</td>
<td>Human Use (HU)  &lt;br&gt;One of the most heavily used recreational fishing areas in the region.</td>
</tr>
<tr>
<td>9</td>
<td>Population Level (PL)  &lt;br&gt;Concentrations of wintering waterfowl and nesting terns unusual in the Great Lakes ecological region.</td>
</tr>
<tr>
<td>1.0</td>
<td>Replaceability (R)  &lt;br&gt;Uncertain of ability to replace.</td>
</tr>
</tbody>
</table>

SIGNIFICANCE VALUE = [( ER + SV + HU + PL ) X R]  

= **43**
DESIGNATED HABITAT: NORTH BUFFALO HARBOR

LOCATION AND DESCRIPTION OF HABITAT:

North Buffalo Harbor is located in the northeast corner of Lake Erie, at the head of the Niagara River, in the City of Buffalo, Erie County (7.5' Quadrangle: Buffalo NW, N.Y.). The fish and wildlife habitat is an approximate 800 acre area of open water within the lake and upper river channel, extending roughly from the mouth of the Buffalo River to the Peace Bridge. Water depths vary from less than 6 feet over several small reefs to over 20 feet below mean low water. The U.S. Army Corps of Engineers maintains several breakwaters within this area, including: Bird Island Pier, a one and one-half mile long stone dike which parallels the shoreline and protects the Black Rock Canal; Donnelly's Wall, a half-mile long concrete wall and lighthouse located northwest of the Buffalo River mouth; and, the North End Light Breakwater, a 500 foot long concrete wall located due west of the Buffalo River. Also located in North Buffalo Harbor are the water supply intakes for the City of Buffalo and Erie County. The North Buffalo Harbor fish and wildlife habitat is bordered to the east by the Black Rock Canal, with the adjacent land area heavily developed for urban residential, commercial, industrial, and recreational uses. Immediately west of the area are the Canadian waters of Lake Erie.

FISH AND WILDLIFE VALUES:

North Buffalo Harbor is generally representative of an older urban waterfront environment. Fish and wildlife habitats in the harbor area have been lost or degraded as a result of land development, dredging, storm protection projects, discharges of domestic and industrial wastes, and inflow of polluted upland runoff. Nonetheless, North Buffalo Harbor supports some valuable fish and wildlife resources.

One of only 3 major nesting concentrations of gulls and terns in western New York State occurs in North Buffalo Harbor. Donnelly's Wall and the North End Light Breakwater have served as nesting sites for common terns (T) since at least the 1940's, and for ring-billed gulls and herring gulls since at least 1964. In 1983, there were approximately 420 tern nests, 1000 ring-billed gull nests, and 100 herring gull nests among these two locations. A third colony, containing over 60 common tern nests, was also found in 1983, on an abandoned lighthouse near Middle Reefs (Reef Lighthouse). In 1986 and 1987, respectively, there were 154 pairs and 278 pairs of common terns at the Donnelly's Wall colony, 275 pairs and 176 pairs of common terns at the North End Light Breakwater colony and 60 pairs and 51 pairs of common terns at the Reef Lighthouse colony. The concrete surfaces of these structures have deteriorated, so that crevices, cracks, and depressions provide a substrate for nests of these species. A sand and gravel bar located at the north end of Donnelly's Wall also provides suitable nesting habitat. A critical feature of these harbor structures is their isolation from mammalian predators.

The open waters of North Buffalo Harbor are important feeding areas for the tern population nesting in this area, and for some of the largest concentrations of wintering waterfowl in the Lake Erie coastal region. Mid-winter aerial surveys of waterfowl abundance for the ten-year period 1976-1985 indicate average concentrations of approximately 6,500 birds in the harbor each year (14,120 in peak year), including approximately 5,100 common and red-breasted mergansers (13,025 in peak year), 750 scaup (4,210 in peak year), and 500 common goldeneye (2,000 in peak year), along with lesser numbers of canvasback, black duck, and mallard. Waterfowl use of the area during winter is influenced by the extent of ice cover each year; a large part of this area is usually open since it is located below the Lake Erie ice boom. Concentrations of many waterfowl species, along with loons, grebes, gulls, and terns, occur in North Buffalo Harbor during spring and fall migrations (March-April and October-November, respectively). However, waterfowl hunting is not allowed within this urban area.

North Buffalo Harbor supports a major urban fishery, of regional significance. Although no critical
spawning or nursery areas have been documented in the area, a relatively diverse and productive fish community attracts recreational anglers from throughout the Buffalo metropolitan area. Predominant fish species occurring in the harbor include rock bass, white bass, smallmouth bass, yellow perch, walleye, northern pike, muskellunge, brown trout, rainbow trout, and coho salmon. Among the most popular fishing spots are near Donnelly's Wall, and the "fish market", located just outside of the southern portion of Bird Island Pier. Boat access to the area is available at several locations around Buffalo Harbor, and the Army Corps of Engineers and NYSDEC are currently renovating the Bird Island Pier to provide safe shore fishing opportunities.

**IMPACT ASSESSMENT:**

A **habitat impairment test** must be met for any activity that is subject to consistency review under federal and State laws, or under applicable local laws contained in an approved local waterfront revitalization program. If the proposed action is subject to consistency review, then the habitat protection policy applies, whether the proposed action is to occur within or outside the designated area.

The specific **habitat impairment test** that must be met is as follows.

In order to protect and preserve a significant habitat, land and water uses or development shall not be undertaken if such actions would:

- destroy the habitat; or,
- significantly impair the viability of a habitat.

*Habitat destruction* is defined as the loss of fish or wildlife use through direct physical alteration, disturbance, or pollution of a designated area or through the indirect effects of these actions on a designated area. Habitat destruction may be indicated by changes in vegetation, substrate, or hydrology, or increases in runoff, erosion, sedimentation, or pollutants.

*Significant impairment* is defined as reduction in vital resources (e.g., food, shelter, living space) or change in environmental conditions (e.g., temperature, substrate, salinity) beyond the tolerance range of an organism. Indicators of a significantly impaired habitat focus on ecological alterations and may include but are not limited to reduced carrying capacity, changes in community structure (food chain relationships, species diversity), reduced productivity and/or increased incidence of disease and mortality.

The **tolerance range** of an organism is not defined as the physiological range of conditions beyond which a species will not survive at all, but as the ecological range of conditions that supports the species population or has the potential to support a restored population, where practical. Either the loss of individuals through an increase in emigration or an increase in death rate indicates that the tolerance range of an organism has been exceeded. An abrupt increase in death rate may occur as an environmental factor falls beyond a tolerance limit (a range has both upper and lower limits). Many environmental factors, however, do not have a sharply defined tolerance limit, but produce increasing emigration or death rates with increasing departure from conditions that are optimal for the species.

The range of parameters which should be considered in applying the habitat impairment test include but are not limited to the following:

1. physical parameters such as living space, circulation, flushing rates, tidal amplitude, turbidity, water temperature, depth (including loss of littoral zone), morphology, substrate type, vegetation, structure,
2. biological parameters such as community structure, food chain relationships, species diversity, predator/prey relationships, population size, mortality rates, reproductive rates, meristic features, behavioral patterns and migratory patterns; and,
3. chemical parameters such as dissolved oxygen, carbon dioxide, acidity, dissolved solids, nutrients, organics, salinity, and pollutants (heavy metals, toxics and hazardous materials).

Although not comprehensive, examples of generic activities and impacts which could destroy or significantly impair the habitat are listed below to assist in applying the habitat impairment test to a proposed activity.

Any activity that substantially degrades water quality in North Buffalo Harbor would affect the biological productivity of this area. Important species of fish and wildlife could be adversely affected by water pollution, such as chemical contamination (including food chain effects), oil spills, excessive turbidity or sedimentation, and waste disposal. Continued efforts should be made to improve water quality in the harbor, which is primarily dependent upon controlling dis-charges from combined sewer overflows, industrial point sources, and ships. Oil and other hazardous substance spills are an especially significant threat to North Buffalo Harbor because of its location at the eastern end of Lake Erie, downwind of prevailing winds. Excavation of new navigation channels should be minimized, and maintenance dredging activities should be scheduled in late fall or winter to minimize potential impacts on most aquatic organisms. Any contaminated dredge spoils should be deposited in upland containment areas. Thermal discharges, depending on time of year, would have variable effects on use of the area by aquatic species and wintering waterfowl. Installation and operation of water intakes could have a significant impact on fish populations, through impingement of juveniles and adults, or entrainment of eggs and larval stages. Bird species nesting on man-made structures in North Buffalo Harbor are highly vulnerable to disturbance from mid-April through July. Significant human activity (e.g., fishing, boating, or maintenance) on or around occupied sites could eliminate the common tern colonies, and should be minimized during this period. Annual or permanent posting of nesting areas should be provided to help protect the nesting bird species. Habitat management activities, such as manipulation of surface substrates, control of gull predation, and establishment of additional nesting colonies within the harbor, may be desirable or necessary in the future to ensure the survival of the common tern in North Buffalo Harbor.
Name of Area: **Small Boat Harbor**

Designated: **October 15, 1987**

County: **Erie**

Town(s): **Buffalo**

7½’ Quadrangle(s): **Buffalo SE, NY**

<table>
<thead>
<tr>
<th>Score</th>
<th>Criterion</th>
</tr>
</thead>
</table>
| 12    | Ecosystem Rarity (ER)  
Relatively large, sheltered bay with extensive aquatic beds; unusual on Lake Erie, but rarity reduced by human disturbance.  
Geometric mean: \((9 \times 16)^{\frac{1}{3}}\) |
| 0     | Species Vulnerability (SV)  
No endangered, threatened or special concern species reside in the area. |
| 9     | Human Use (HU)  
One of the most popular recreational fishing and birdwatching areas in the Buffalo metropolitan region. |
| 4     | Population Level (PL)  
Concentrations of many warmwater fish species and waterfowl are unusual in Erie County's coastal area. |
| 1.0   | Replaceability (R)  
Difficult to replace; cost is probably prohibitive. |

SIGNIFICANCE VALUE = \([ (ER + SV + HU + PL) \times R ]\)

\[= 25\]
DESIGNATED HABITAT: SMALL BOAT HARBOR

LOCATION AND DESCRIPTION OF HABITAT:

The Small Boat Harbor is located on the shoreline of Lake Erie in City of Buffalo (approximately three miles south of downtown), Erie County (7.5’ Quadrangle: Buffalo, SE, N.Y.). The fish and wildlife habitat is an approximate 165 acre, shallow (generally less than 12 feet deep below mean low water), embayment of Lake Erie. This area is sheltered from prevailing winds and wave action by a two mile long rock breakwall, enhancing sediment deposition and growth of submerged aquatic macrophytes, such as water milfoil, wild celery, and pondweeds. Substrates vary from a mixture of sand, gravel, and cobble, in some nearshore areas, to a dark brown gelatinous type sediment (gyttja). Most of the Small Boat Harbor has been subjected to considerable human disturbance, which has played a major role in the development of existing habitat conditions. The harbor is bordered on three sides by rip-rap, concrete bulkheads, and gravel-cobble beach; the fourth side (westerly) is open to the Outer Harbor, with an approximate 30 foot deep dredged navigation channel. Heavily used small craft harbor facilities, with docks, launching ramps, and protective jetties, exist in the center of this area.

FISH AND WILDLIFE VALUES:

The Small Boat Harbor is the only sizable shallow water embayment on Lake Erie in Erie County. Despite human disturbances, it is one of the most important fish and wildlife habitat areas in the Buffalo metropolitan region, because it provides substantial protection from wave action for fish, wildlife, and aquatic vegetation. Consequently, the harbor supports a highly productive and diverse littoral community, with concentrations of many fish and wildlife species occurring in the area.

Studies of the Small Boat Harbor in 1981 demonstrated that this was a diverse and productive fisheries habitat. The major adult fishes found in the area were pumpkinseed, yellow perch, and brown bullhead, along with largemouth bass, muskellunge, carp, and freshwater drum. Icthyoplankton sampling revealed substantial reproduction by centrarchids, shiners, and yellow perch. Carp and drum may also enter the area to spawn. By mid-summer, the Small Boat Harbor is ideal for centrarchids and bullheads as macrophytes fill the embayment. The Small Boat Harbor is the largest, most obvious nursery area for numerous harbor and lake species on the Erie County shoreline. In addition, the harbor supports a productive macrobenthic community, dominated by snails and clams. Submerged, rooted macrophytes and their associated invertebrates and fish provide valuable food resources for many species of waterfowl and other migratory birds. The Small Boat Harbor attracts concentrations of these birds during spring and fall migrations (March-April and September-November, respectively), with some remaining until the harbor freezes over in early to mid-winter. The most abundant birds observed here during these periods are the diving ducks, including canvasback, scaups, mergansers, common goldeneye, and scoters, along with mallard, black duck, Canada goose, loons, grebes, and gulls. Hundreds of these birds are regularly found in the area during late fall, with the greatest numbers occurring when open waters on Lake Erie are rough. Prior to ice-up, the Small Boat Harbor serves as a refuge and feeding area for some of the larger concentrations of waterfowl that occur in North Buffalo Harbor. During the summer months, ring-billed gull, herring gull, and common tern (T) may feed in the area, but the extent of their use has not been documented.

The abundant fish and wildlife populations in the Small Boat Harbor attract a considerable amount of human use of the area. The harbor provides high quality recreational fishing opportunities throughout the year. Anglers from throughout the Buffalo metropolitan area are attracted to the diverse warmwater fisheries, and ice fishing is especially popular. The concentrations of birds which utilize the Small Boat Harbor, and the availability of good public access and vantage points, makes this a popular birdwatching site in Erie County during waterfowl migration periods and in early winter.
IMPACT ASSESSMENT:

A habitat impairment test must be met for any activity that is subject to consistency review under federal and State laws, or under applicable local laws contained in an approved local waterfront revitalization program. If the proposed action is subject to consistency review, then the habitat protection policy applies, whether the proposed action is to occur within or outside the designated area.

The specific habitat impairment test that must be met is as follows.

In order to protect and preserve a significant habitat, land and water uses or development shall not be undertaken if such actions would:

- destroy the habitat; or,
- significantly impair the viability of a habitat.

Habitat destruction is defined as the loss of fish or wildlife use through direct physical alteration, disturbance, or pollution of a designated area or through the indirect effects of these actions on a designated area. Habitat destruction may be indicated by changes in vegetation, substrate, or hydrology, or increases in runoff, erosion, sedimentation, or pollutants.

Significant impairment is defined as reduction in vital resources (e.g., food, shelter, living space) or change in environmental conditions (e.g., temperature, substrate, salinity) beyond the tolerance range of an organism. Indicators of a significantly impaired habitat focus on ecological alterations and may include but are not limited to reduced carrying capacity, changes in community structure (food chain relationships, species diversity), reduced productivity and/or increased incidence of disease and mortality.

The tolerance range of an organism is not defined as the physiological range of conditions beyond which a species will not survive at all, but as the ecological range of conditions that supports the species population or has the potential to support a restored population, where practical. Either the loss of individuals through an increase in emigration or an increase in death rate indicates that the tolerance range of an organism has been exceeded. An abrupt increase in death rate may occur as an environmental factor falls beyond a tolerance limit (a range has both upper and lower limits). Many environmental factors, however, do not have a sharply defined tolerance limit, but produce increasing emigration or death rates with increasing departure from conditions that are optimal for the species.

The range of parameters which should be considered in applying the habitat impairment test include but are not limited to the following:

1. physical parameters such as living space, circulation, flushing rates, tidal amplitude, turbidity, water temperature, depth (including loss of littoral zone), morphology, substrate type, vegetation, structure, erosion and sedimentation rates;
2. biological parameters such as community structure, food chain relationships, species diversity, predator/prey relationships, population size, mortality rates, reproductive rates, meristic features, behavioral patterns and migratory patterns; and,
3. chemical parameters such as dissolved oxygen, carbon dioxide, acidity, dissolved solids, nutrients, organics, salinity, and pollutants (heavy metals, toxics and hazardous materials).

Although not comprehensive, examples of generic activities and impacts which could destroy or significantly impair the habitat are listed below to assist in applying the habitat impairment test to a proposed activity.
Any activity that substantially degrades water quality in the Small Boat Harbor would affect the biological productivity of this area. Important species of fish and wildlife will be adversely affected by water pollution, such as chemical contamination (including food chain effects), oil spills, excessive turbidity of sedimentation, and waste disposal. Discharges of sewage or stormwater runoff containing sediments or chemical pollutants (including nutrient loads) would result in adverse impacts on fish and wildlife populations. Spills of oil or other hazardous substances are an especially significant threat to waterfowl concentrations in the Small Boat Harbor. Because of the year-round fish and wildlife use of the area, maintenance dredging or other bottom disturbance at any time of the year would affect some species; such activities should be minimized, and when unavoidable, be completed in as short a time period as possible. Harbor dredging should be scheduled in late summer or fall to minimize potential impacts on most aquatic organisms. Temporary habitat disturbances would be most detrimental during fish spawning and nursery periods (April-July for most warmwater species), and any contaminated dredge spoils should be deposited in upland containment areas. Any permanent alteration or loss of productive littoral areas would reduce the value of the Small Boat Harbor as a fish and wildlife habitat. However, the fact that existing conditions in the area are largely the result of human activities suggest that considerable allowance for construction and maintenance of harbor structures is appropriate. Installation of breakwalls or jetties should not cause significant habitat loss unless they preclude fisheries access to a larger area, or involve substantial filling of shallow water areas. On the other hand, filling of the area for waste disposal, or conversion to non-water dependent upland uses would be an unnecessary loss of valuable aquatic habitat. Thermal discharges, depending on time of year, would have variable effects on use of the area by aquatic species and wintering waterfowl. Installation and operation of water intakes could have a significant impact on fish populations, through impingement of juveniles and adults, or entrainment of eggs and larval stages. Public access to this area should be maintained or enhanced to ensure that adequate opportunities for compatible human uses of the fish and wildlife resources are available.
Name of Area: **Tifft Farm Nature Preserve**

Designated: **October 15, 1987**

County: **Erie**

Town(s): **Buffalo**

7½' Quadrangle(s): **Buffalo SE, NY**

<table>
<thead>
<tr>
<th>Score</th>
<th>Criterion</th>
</tr>
</thead>
</table>
| 16    | Ecosystem Rarity (ER)  
This is the largest open space/wildlife habitat in the City of Buffalo; included is one of the largest remaining wetlands in the lake Erie coastal region. |
| 24    | Species Vulnerability (SV)  
Least Bittern (SC) nesting; Jefferson salamander (SC) found here. Additive division: 16 + 16/2 |
| 14    | Human Use (HU)  
This is the most heavily used environmental education center in the region, attracting visitors for recreational and educational uses. Additive division: 9 + 9/2 |
| 16    | Population Level (PL)  
One of only 3 known localities in New York State where burrowing crayfish exist; populations of many other wetland wildlife species are unusual in the region. |
| 1.2   | Replaceability (R)  
Irreplaceable |

SIGNIFICANCE VALUE = [( ER + SV + HU + PL ) X R]

= 84
DESIGNATED HABITAT: TIFFT FARM NATURE PRESERVE

LOCATION AND DESCRIPTION OF HABITAT:

Tifft Farm Nature Preserve is located approximately three miles south of downtown Buffalo, within the city limits, in Erie County (7.5° Quadrangle: Buffalo SE, N.Y.). The preserve is located adjacent to the Small Boat Harbor, bounded roughly by Fuhrmann Boulevard (N.Y.S. Route 5) to the west, and railroad right-of-ways to the north, east, and south. Tifft Farm is a 264 acre nature preserve and environmental education center, owned by the City of Buffalo, and operated jointly by the City and the Buffalo Museum of Science. This area contains a diversity of fish and wildlife habitats, including an approximate 75 acre cattail marsh, small freshwater ponds and old canal remnants, old fields (partly covering a former solid waste transfer site), forested wetland, and shrub-sapling stages of succession. The land area surrounding Tifft Farm is dominated by active and vacant industrial facilities and railroad properties.

FISH AND WILDLIFE VALUES:

Tifft Farm Nature Preserve is the largest contiguous fish and wildlife habitat area within the City of Buffalo. Of special importance is the relatively undisturbed wetland area, which is the largest of its kind along the Lake Erie coastline. The site is inhabited by a diversity of fish and wildlife species that is unusual in this coastal region, especially within the urban area. A full complement of wetland wildlife species occurs in and around the marshes at Tifft Farm: pied-billed grebe, green-backed heron, least bittern (SC), American bittern, mallard, blue-winged teal, Canada goose, Virginia rail, sora, common moorhen, American coot, American woodcock, spotted sandpiper, marsh wren, willow flycatcher, common yellowthroat, red-winged blackbird, and swamp sparrow nest here; black-crowned night herons roost and feed in the area during the nesting season; many species of waterfowl, shorebirds, herons, osprey (T), and passerine birds use the area as a stopover during spring and fall migrations; muskrat, mink, northern water snake, snapping and painted turtles, bullfrog, green frog, northern leopard frog, and Jefferson salamander (SC) are year-round residents; and at least two species of fish, the central mudminnow and brook stickleback, are present. Up until the late 1970's, black terns (SC) also nested in the marshes at Tifft Farm; the reasons for their disappearance are unknown. Tifft Farm also contains a population of burrowing crayfish, one of only 3 known localities for this species in New York State.

In addition to the wetlands, Tifft Farm provides a diversity of other fish and wildlife habitats. Upland habitats at Tifft Farm support most of the typical species in the region, such as raccoon, eastern cottontail, red fox, gray fox, meadow vole, ring-necked pheasant, various passerine birds, and common garter snake. The largest of the freshwater ponds is directly connected to Lake Erie via a culvert under Fuhrmann Boulevard to the Small Boat Harbor. Consequently, many warmwater fish species occur in the area, including black crappie, yellow perch, rock bass, pumpkinseed sunfish, bluegill, bullhead, carp, largemouth bass, gizzard shad, freshwater drum, northern pike, and longnose gar. The extent to which these fish occur in other aquatic habitats in the preserve is not well known. As an environmental education center, Tifft Farm Nature Preserve is an outstanding facility in western New York, attracting some 18,000 visitors to the area in 1984. Public use of the area centers on bird observation and study (especially during spring and fall), fishing during the summer months, environmental education during the school year, and general nature study and outdoor recreation throughout the year. A visitors center and system of trails have been developed in the area. Most of the people using Tifft Farm reside within the multi-county Buffalo metropolitan area.

IMPACT ASSESSMENT:

A habitat impairment test must be met for any activity that is subject to consistency review under federal and State laws, or under applicable local laws contained in an approved local waterfront revitalization program. If the proposed action is subject to consistency review, then the habitat protection policy applies, whether the proposed action is to occur within or outside the designated area.
The specific **habitat impairment test** that must be met is as follows.

In order to protect and preserve a significant habitat, land and water uses or development shall not be undertaken if such actions would:

- destroy the habitat; or,
- significantly impair the viability of a habitat.

*Habitat destruction* is defined as the loss of fish or wildlife use through direct physical alteration, disturbance, or pollution of a designated area or through the indirect effects of these actions on a designated area. Habitat destruction may be indicated by changes in vegetation, substrate, or hydrology, or increases in runoff, erosion, sedimentation, or pollutants.

*Significant impairment* is defined as reduction in vital resources (e.g., food, shelter, living space) or change in environmental conditions (e.g., temperature, substrate, salinity) beyond the tolerance range of an organism. Indicators of a significantly impaired habitat focus on ecological alterations and may include but are not limited to reduced carrying capacity, changes in community structure (food chain relationships, species diversity), reduced productivity and/or increased incidence of disease and mortality.

The *tolerance range* of an organism is not defined as the physiological range of conditions beyond which a species will not survive at all, but as the ecological range of conditions that supports the species population or has the potential to support a restored population, where practical. Either the loss of individuals through an increase in emigration or an increase in death rate indicates that the tolerance range of an organism has been exceeded. An abrupt increase in death rate may occur as an environmental factor falls beyond a tolerance limit (a range has both upper and lower limits). Many environmental factors, however, do not have a sharply defined tolerance limit, but produce increasing emigration or death rates with increasing departure from conditions that are optimal for the species.

The range of parameters which should be considered in applying the habitat impairment test include but are not limited to the following:

1. physical parameters such as living space, circulation, flushing rates, tidal amplitude, turbidity, water temperature, depth (including loss of littoral zone), morphology, substrate type, vegetation, structure, erosion and sedimentation rates;
2. biological parameters such as community structure, food chain relationships, species diversity, predator/prey relationships, population size, mortality rates, reproductive rates, meristic features, behavioral patterns and migratory patterns; and,
3. chemical parameters such as dissolved oxygen, carbon dioxide, acidity, dissolved solids, nutrients, organics, salinity, and pollutants (heavy metals, toxics and hazardous materials).

Although not comprehensive, examples of generic activities and impacts which could destroy or significantly impair the habitat are listed below to assist in applying the habitat impairment test to a proposed activity.

Despite its current status as a nature preserve and environmental education center, Tifft Farm's fish and wildlife habitats remain vulnerable to a number of potential impacts. Surrounding land uses may be the most important factor affecting the wildlife resources of this area. Encroachment of human disturbance, including industrial, commercial, or residential development could have significant impacts on species using the area. Discharges of polluted runoff (or migration of contaminated groundwater) from adjacent areas could seriously degrade the wetland and aquatic habitats in Tifft Farm Nature Preserve. Maintenance of the high
quality urban fishery in this area is dependent upon keeping the connection to Lake Erie open and accessible for fish passage. Opportunities for compatible public use of the area should be maintained or enhanced to utilize this valuable fish and wildlife resource.
Name of Area: Times Beach Diked Disposal Site

Designated: October 15, 1987

County: Erie

Town(s): Buffalo

7½' Quadrangle(s): Buffalo SE, NY; Buffalo NW, NY

<table>
<thead>
<tr>
<th>Score</th>
<th>Criterion</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Ecosystem Rarity (ER)</td>
</tr>
<tr>
<td></td>
<td>A relatively large, diverse, coastal wetland area; unusual on the Lake Erie shoreline. Rarity reduces by chemical contamination and artificial creation of the habitat. Geometric mean: ((9 \times 16)^{\frac{1}{2}})</td>
</tr>
<tr>
<td>0</td>
<td>Species Vulnerability (SV)</td>
</tr>
<tr>
<td></td>
<td>No endangered, threatened or special concern species reside in the area.</td>
</tr>
<tr>
<td>9</td>
<td>Human Use (HU)</td>
</tr>
<tr>
<td></td>
<td>Presently a birdwatching site of regional significance, although no formal public access has been developed. Research studies on fish and wildlife in the area are primarily of local significance.</td>
</tr>
<tr>
<td>9</td>
<td>Population Level (PL)</td>
</tr>
<tr>
<td></td>
<td>Concentrations of migratory birds using the area are unusual in the Lake Erie coastal region.</td>
</tr>
<tr>
<td>1.0</td>
<td>Replaceability (R)</td>
</tr>
<tr>
<td></td>
<td>Difficult to replace; cost prohibitive and potential replacement sites are limited.</td>
</tr>
</tbody>
</table>

SIGNIFICANCE VALUE = \([ (ER + SV + HU + PL) \times R ]\)

= 30
DESIGNATED HABITAT: TIMES BEACH DIKED DISPOSAL SITE

LOCATION AND DESCRIPTION OF HABITAT:

Times Beach Diked Disposal Site is located within the City of Buffalo, approximately one mile south-southwest of downtown, in Erie County (7.5' Quadrangles: Buffalo NW, N.Y.; and Buffalo SE, N.Y.). The fish and wildlife habitat is a partially filled, diked, dredge spoil disposal area, located just south of the Buffalo River, on the shore of Lake Erie. This approximate 55 acre area is owned by the City of Buffalo and is leased to the U.S. Army Corps of Engineers for dredged material disposal. The site was constructed and partially filled during the early to mid-1970's, when it served as the primary disposal site for silt dredged from the Buffalo River, Buffalo Harbor, Black Rock Canal, and Tonawanda Harbor areas. The area was originally planned to be filled to 8 feet above mean low water, but since the late 1970's has been set aside as a wildlife preserve. The lakeward side of the area is surrounded by porous stone dikes, allowing water depths within the site to vary with lake levels. Times Beach contains several distinct physical zones, including: a deep water zone up to about 6 feet in depth, with submergent aquatic plants; a low-lying mud or silt flat zone of variable width (inundated by high lake levels); a gradually sloping shallow water zone with emergent marsh vegetation; and an upland zone, containing tall herbs, grasses, and stands of variously sized trees and shrubs. The upland portion of the habitat is bordered by the U.S. Coast Guard base, a marina, abandoned industrial developments, the ice boom storage area, and port facilities.

FISH AND WILDLIFE VALUES:

Times Beach Diked Disposal Site is one of the few sizeable wetland areas along the New York shoreline of Lake Erie. Although the area is man-made, and only recently created, it has become an important fish and wildlife habitat. The variety of ecological communities at Times Beach attracts a diversity of species that is unusual in this coastal region, especially within the Buffalo metropolitan area. The site lies on an important flyway for migratory birds, a key factor enhancing its potential for wildlife. Its location at the eastern end of Lake Erie, and dike-protected water area, make it a focal point for water-oriented birds moving eastward along the north and south shores of the lake.

IMPACT ASSESSMENT:

A habitat impairment test must be met for any activity that is subject to consistency review under federal and State laws, or under applicable local laws contained in an approved local waterfront revitalization program. If the proposed action is subject to consistency review, then the habitat protection policy applies, whether the proposed action is to occur within or outside the designated area.

The specific habitat impairment test that must be met is as follows.

In order to protect and preserve a significant habitat, land and water uses or development shall not be undertaken if such actions would:

- destroy the habitat; or,

- significantly impair the viability of a habitat.

Habitat destruction is defined as the loss of fish or wildlife use through direct physical alteration, disturbance, or pollution of a designated area or through the indirect effects of these actions on a designated area. Habitat destruction may be indicated by changes in vegetation, substrate, or hydrology, or increases in runoff, erosion, sedimentation, or pollutants.
**Significant impairment** is defined as reduction in vital resources (e.g., food, shelter, living space) or change in environmental conditions (e.g., temperature, substrate, salinity) beyond the tolerance range of an organism. Indicators of a significantly impaired habitat focus on ecological alterations and may include but are not limited to reduced carrying capacity, changes in community structure (food chain relationships, species diversity), reduced productivity and/or increased incidence of disease and mortality.

The **tolerance range** of an organism is not defined as the physiological range of conditions beyond which a species will not survive at all, but as the ecological range of conditions that supports the species population or has the potential to support a restored population, where practical. Either the loss of individuals through an increase in emigration or an increase in death rate indicates that the tolerance range of an organism has been exceeded. An abrupt increase in death rate may occur as an environmental factor falls beyond a tolerance limit (a range has both upper and lower limits). Many environmental factors, however, do not have a sharply defined tolerance limit, but produce increasing emigration or death rates with increasing departure from conditions that are optimal for the species.

The range of parameters which should be considered in applying the habitat impairment test include but are not limited to the following:

1. physical parameters such as living space, circulation, flushing rates, tidal amplitude, turbidity, water temperature, depth (including loss of littoral zone), morphology, substrate type, vegetation, structure, erosion and sedimentation rates;
2. biological parameters such as community structure, food chain relationships, species diversity, predator/prey relationships, population size, mortality rates, reproductive rates, meristic features, behavioral patterns and migratory patterns; and,
3. chemical parameters such as dissolved oxygen, carbon dioxide, acidity, dissolved solids, nutrients, organics, salinity, and pollutants (heavy metals, toxics and hazardous materials).

Although not comprehensive, examples of generic activities and impacts which could destroy or significantly impair the habitat are listed below to assist in applying the habitat impairment test to a proposed activity.

Times Beach is a valuable refuge and feeding area for gulls, terns, shorebirds, dabbling and diving waterfowl, marsh birds, and passerines, especially during spring and fall migrations (March-May and September-November, respectively). Since 1972, over 220 species of birds have been observed in the area, including more than 25 species of ducks, geese, and swans (with up to 400 birds on a single day), 29 species of shorebirds (up to 14 species and 600 individuals on a single day); 10 species of gulls, 30 species of warblers, and 24 species of fringillids. These include some extreme rarities for the region, such as yellow-crowned night heron, cinnamon teal, marbled and Hudsonian godwits, ruffs, American avocet, parasitic jaeger, laughing gull, and Acadian flycatcher. Since termination of spoil disposal at Times Beach, there has been a gradual increase in marsh-nesting resident birds, and a decline in numbers and variety of migrant shorebirds and other waterbirds using the area. This is generally attributed to expansion of marsh vegetation through natural succession, and a rise in lake water levels. Bird species found in the area during the breeding season include mallard, American wigeon, ring-billed gull, common tern (T), least bittern (SC), Virginia rail, sora, common moorhen, ring-necked pheasant, killdeer, spotted sandpiper, belted kingfisher, and red-winged blackbird; however, the extent to which some of these species use the area is not well documented. An exception is American wigeon, considered an irregular, rare, breeding bird in New York, found only a few times elsewhere in the Niagara Frontier region; no less than 6 broods totaling at least 30 young were observed at Times Beach in 1985, an unprecedented occurrence in the region. Muskrat, raccoon, eastern cottontail, and several smaller mammal species have been recorded on the site. Other wildlife species found in the area include common garter snake and bullfrog. The fish community at Times Beach is not well documented, but is somewhat limited by the lack of a direct connection to Lake Erie.
As a result of the unusual diversity of bird species found at Times Beach, it has become one of the most popular bird observation and study sites in the Niagara Frontier. However, no formal access has been developed to accommodate human uses of the area. Establishment of a public nature preserve and education area has been considered for several years, and would provide valuable opportunities for outdoor education and recreation, complementing those available at nearby Tifft Farm.

Times Beach is faced with a number of problems and opportunities which may affect its value as a fish and wildlife habitat. Clearly, any activities designed to maintain or enhance selected habitat characteristics or increase compatible human uses of the area should have favorable effects. For example, efforts to set back vegetative succession, including limited additional filling, dredging, or removal of emergent vegetation may be desirable. Improved access and development of viewing or fishing sites would also be beneficial. The fisheries potential of Times Beach may be increased by providing open access between the site and the lake, creating spawning sites for such species as northern pike, largemouth bass, and panfish. However, a major concern at this site is the level of chemical contaminants that may exist in the dredged materials which comprise the substrate for the entire area. Pending results of studies by the Corps of Engineers, remedial action to reduce uptake of heavy metals or toxic chemicals into the food chain may be necessary. Such action may involve substantial modification of the habitat to minimize exposure of fish and wildlife species, reducing its value as a migratory stopover and birdwatching site.