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In 2011, the City of Buffalo was awarded funding from the New York State Department of State to establish the Buffalo River Corridor Brownfield Opportunity Area.

This Nomination Document outlines the final strategy for designating the Buffalo River Corridor as a BOA. This designation provides expanded eligibility for state-sponsored environmental and economic development programs, including favorable tax and investment incentives for private development.

The Buffalo River Corridor BOA encompasses 1,050 acres – over 1.5 square miles – to the southeast of downtown. It contains a large number of brownfields and underutilized parcels; a legacy from the industries that were once located along the river corridor that serves as the geographic basis for the BOA.

The BOA builds on the success of the adjacent South Buffalo BOA, and represents a natural progression of this effort by taking into account the impact of industries located along the Buffalo River.

The long-term goal is to pursue both environmental enhancement and sustainable development by creating a plan designed by stakeholders, including area residents, businesses, environmental advocates, and government. Consensus building began at project inception, by ensuring that all concerns and goals were discussed in an open fashion. Community contributions and acceptance are vital to the success of any redevelopment plan.

Planning is essential to ensure that future development does not compromise recent gains. The need to generate employment opportunities and tax revenues must be balanced with strengthening neighborhoods, expanding recreational opportunities, preserving industrial heritage, ensuring waterfront access, and improving habitats and watershed ecology.

Any vision for the future must be guided by broad-based community, municipal, and state support; and solidly grounded in current and emerging challenges, initiatives, and opportunities.
Community Participation

A community participation plan was designed to enable input at a variety of levels and stages during the development of the Nomination Document. A range of opportunities for community involvement were identified, from public open houses to small stakeholder sessions. The project website also provided opportunities for interested parties to submit comments.

The consultation process employed numerous outreach methods to ensure robust public and private participation. The design and production of accessible materials, and the provision of multiple opportunities for feedback were seen as essential to a successful communication strategy.

Several different audiences were engaged during the planning process, including residents, block clubs, community groups, advocacy organizations, educational institutions, businesses and developers, county, state, and federal agencies, city departments and boards, elected officials, and steering committee members.

Stakeholder Sessions

A series of stakeholder sessions were held in November 2011 and January 2012, to assist the consultant team in understanding the dynamics of the study area. These sessions included developers and investors, businesses and large landholders, non-profits and community-based organizations, regulatory agencies, and city departments that serve the community.

A “Business Breakfast” was also held in June 2012, to provide business owners and developers with an opportunity to more openly discuss their objectives outside of a public forum.

Steering Committee Meetings

An 18-member steering committee was appointed to review material prepared by the consultant team, provide input regarding project direction, and serve as liaisons to the larger community. Members included representatives from local businesses, developers, community-based organizations and other non-profits, institutions, and the general public. Staff from agencies providing project support were also invited to attend steering committee meetings. A total of four meetings were held:

- December 2011 – the initial meeting introduced the project team; provided overviews of the BOA program and study process; and included breakout sessions to allow participants to brainstorm key issues, challenges, opportunities, and goals and aspirations.
- January 2012 – the second meeting reviewed consultant analysis and findings to date; introduced the visioning process that would be employed at the first open house; and included breakout sessions to discuss types of desired uses and locations, infrastructure needs, and phasing of proposed improvements.
- June 2012 – the third meeting reviewed and discussed three alternative scenarios for future development.
- February 2014 – the fourth meeting reviewed the draft Nomination Document and initial strategic sites, discussed concerns, and proposed changes.

Open Houses

A total of three open houses were held over the course of the planning process to share information with the public and solicit comments and feedback:

- January 2012 – the first open house introduced the project objectives, provided an overview of the analysis conducted to date, and then broke out into visioning sessions to allow participants to discuss emerging principles and their vision for the BOA.
- June 2012 – the second open house reviewed the economic analysis for the BOA, and laid out a set of emerging principles to guide redevelopment. The consultants provided workbooks outlining three alternative development scenarios, and asked participants to mark these up with their thoughts and comments. The meeting concluded with a facilitated discussion on initial reactions to the alternatives.
- April 2014 – the third open house provided the community with a brief recap of project status, and reviewed the key findings of the draft Nomination Document. The consultants identified the strategic sites that are being proposed, and accepted input on their redevelopment potential.
For this analysis, the BOA was extended to encompass the three neighborhoods that are located within or adjacent to its boundaries: Old First Ward, the Valley, and Seneca Babcock.

Like the city as a whole, the population of these neighborhoods peaked in 1950 and had declined by over 75 percent by 2000. Between 2000 and 2013 (the most recent year for which neighborhood data is available) the population fell by another 14 percent, an even greater rate than the 11 percent decline citywide.

The number of households has also declined, but at a lower rate than the population. This has resulted in a dramatic drop in average household size, which fell from 4.4 to 2.4 persons between 1950 and 2000. Household size has stabilized since 2000, which may be attributable to the increase in foreign-born residents (180 in 2000 and 400 in 2013), who are more likely to live in extended families.

Combined with this increase in foreign-born residents, the racial composition is also changing. In 1950, these neighborhoods were largely white, with just 12 percent of the population listed as either black or “other” race. The white share of the population had fallen to three-quarters of the total by 2000; and two-thirds in 2013. Blacks now make up over 20 percent of the population, and Latinos comprise another 12 percent.

Although educational attainment has improved over time, college graduation rates were well below citywide totals in 1950, 2000, and 2013. This is reflected in the median household income, which has been between 78 and 85 percent of the citywide median since 1950. On the plus side, in constant 2015 dollars, the median household income has actually increased by just under 5 percent over the past 60 years. The poverty rate increased from 28 to 31 percent during this period between 2000 and 2013, matching the citywide rate in both years.

The neighborhoods lost a total of 4,750 housing units since 1950, a decline of 53 percent that far exceeds the 33 percent loss citywide. Occupancy has also fallen over this period, leading to a rise in the number of vacant units. Like the rest of the city, these neighborhoods had virtually no vacancies in 1950. With little housing built during the Great Depression and World War II, the immediate post-war years saw tremendous pressures placed on the existing stock, which led to a building boom in the suburbs.

The number of vacant housing units in the city not being marketed for sale or rent climbed from just 1,200 in 1950 to almost 10,000 in 2000, and added another 2,000 units by 2014. Within these neighborhoods, the number of vacant units went from 134 in 1950 to 724 in 2013, as the vacancy rate rose from less than 1 percent to more than 17 percent.

The median value of owner-occupied housing has been well below the citywide median. In 2000 it was 37 percent lower, and by 2013 was less than half as much as the citywide median. And like housing values citywide, the median fell by 36 percent between 2000 and 2013 when measured in constant 2015 dollars, compared to a citywide loss of 17 percent.

Two-thirds of renters in these neighborhoods paid between $300 and $800 per month in 2013, with a median rent of $540. Given the low household incomes, however, almost half of all renters paid more than 30 percent of their income for housing; and 30 percent were paying over half of their income for rent. Just 160 households (or less than 10 percent of all renters) had a monthly rent of $1,000 or more, but this may change with the recent development of market-rate units along the Buffalo River.

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<thead>
<tr>
<th></th>
<th>1950</th>
<th>2000</th>
<th>2009/13</th>
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<tr>
<td>PERSONS</td>
<td>38,900</td>
<td>9,000</td>
<td>7,700</td>
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<tr>
<td>White alone</td>
<td>88%</td>
<td>74%</td>
<td>66%</td>
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<tr>
<td>Black alone</td>
<td>12%</td>
<td>17%</td>
<td>23%</td>
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<tr>
<td>Latino</td>
<td>NA</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>College grads</td>
<td>1%</td>
<td>3%</td>
<td>7%</td>
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<tr>
<td>Poverty rate</td>
<td>NA</td>
<td>28%</td>
<td>31%</td>
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<tr>
<td>Median income</td>
<td>$24,200</td>
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<td>HOUSING UNITS</td>
<td>8,900</td>
<td>4,900</td>
<td>4,150</td>
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<td>8,800</td>
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<td>3,300</td>
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<tr>
<td>Vacant</td>
<td>1%</td>
<td>15%</td>
<td>17%</td>
</tr>
<tr>
<td>Homeowners</td>
<td>31%</td>
<td>43%</td>
<td>40%</td>
</tr>
<tr>
<td>Median value</td>
<td>NA</td>
<td>$53,900</td>
<td>$34,700</td>
</tr>
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</table>
Infrastructure

This section of the city was largely built-out by the early 1900s, and benefits from an infrastructure network that provides nearly complete coverage for electric, natural gas, water, and sewage disposal.

The study area is serviced by several distribution feeders providing overhead and underground electrical service. According to system records, the city distribution network consists of 5 kV overhead and buried feeders. High voltage distribution and sub-transmission lines are located on the Katherine Street peninsula and along Ohio Street. The industrial nature of the BOA suggests sufficient access to electrical capacity for future redevelopment, although there have been reliability issues on Kelly Island.

Correspondence with the engineering department at National Fuel indicated that all parts of the BOA are within sufficient distance of an existing supply main with available capacity to support future redevelopment.

The Buffalo Water Authority provides potable water to properties in the city. Water is pumped from Lake Erie and treated and distributed at the Colonel Ward Pumping Station on Porter Avenue. The BOA is primarily supplied by public water lines ranging from 6 to 48 inches in diameter. The only private water service is a 12-inch line located along Childs Street that services Silo City.

Properties in the BOA are fed from a 48-inch supply main that loops through the city and connects with numerous service mains. A 20-inch line along Louisiana Street supports development to the east and north of the Buffalo River. Two 10-inch mains along South Park Avenue and Elk Street service the area south to the Buffalo River.

The sanitary sewer system within the BOA includes separate sanitary sewers, combined storm/sanitary sewers, large interceptor sewers, and pump stations. Service is provided by the Buffalo Sewer Authority, which operates a waste water treatment plant on Bird Island.

The separate sanitary sewer system within the BOA consists of 2.3 miles of pipe ranging from 10 to 24 inches in diameter. These sewers convey flows to large interceptor sewers both within and outside the BOA, which direct the sewage north to the treatment plant. Separate sanitary sewers service limited areas of the BOA, including Kelly Island, the Katherine Street peninsula, and areas south of the Buffalo River.

Portions of the BOA utilize a combined sewer collection system that conveys both sanitary and storm sewer flows through the same lines. The system receives sanitary inflows from adjacent development and storm water inflows from impervious surfaces such as streets, parking lots, and building roofs. Localized combined sewer systems transfer flows to interceptor sewers that gather waste from large portions of the city and convey it to the treatment plant.

During intense rain, the combined sewer and interceptor systems do not have the capacity to convey the significantly increased flows. To mitigate the lack of capacity in these instances, combined sewer outfalls are used to prevent storm water and sanitary sewage from back flowing into buildings.

The BOA is serviced by 6.5 miles of combined sewer, ranging from 8 to 72 inches in diameter. Apart from Katherine Street, all areas north of the Buffalo River are serviced by combined sewer. There are several areas where the combined sewer system is connected to a combined sewer outfall that empties into the Buffalo River, including Louisiana Street, Hamburg Street, Smith Street, Babcock Street, and Bailey Avenue. Connection to the combined sewer outfall indicates that the sewer service in this area is insufficient to meet peak demands during a rainfall event.

The areas of greatest need for storm sewers generally have the highest levels of impervious surface coverage. Impervious surfaces capture rainfall and convey it directly into the storm (or combined) sewer system, with an ultimate outfall to the Buffalo River. The areas with the most significant levels of impervious cover are Kelly Island, the Katherine Street peninsula, and the Buffalo Color and ExxonMobil/Buckeye complexes.

The Buffalo River is the only stormwater outfall location for significant portions of the city south of William Street. As a result, during large rainfall events significant flows of storm water and sewage enter the River, greatly diminishing water quality. There are three primary storm sewer outfalls within the BOA – at the foot of Louisiana Street by the Ohio Street Bridge; east of Hamburg Street at the New York Power Authority ice boom storage site; and beneath the rail bridge east of Red Jacket Riverfront Park.
Transportation

The BOA contains a comprehensive network of streets and sidewalks, making most points easily accessible by foot, bike, bus, or car. There are also a number of active rail lines; and the Buffalo River provides for both recreational boating and commercial shipping.

Buffalo has had a Complete Streets policy since 2008, to ensure that streets are designed to be safe, comfortable, and convenient for all users – particularly cyclists, pedestrians, and the mobility impaired. As streets are reconstructed throughout the city, the impacts of this policy will become increasingly evident.

The city also completed a Bicycle Master Plan Update in 2016. This plan integrates cyclists’ needs into the city’s projects, policies, and programs; and planning, implementation, and maintenance of roadway, public works, and transit projects will include improvements to accommodate cyclists of all abilities. A well-connected bicycle infrastructure network will improve safety, the environment, public health, and quality of life; and make Buffalo a more affordable, economically competitive, and sustainable city.

The BOA provides an extensive sidewalk network that connects residential neighborhoods such as the Valley and Old First Ward. These sidewalks also connect with a comprehensive network of sidewalks and pedestrian walkways extending beyond the BOA.

The existing road network is classified into a hierarchy based on several factors, primarily road capacity and traffic volume. Local streets, arterials, and collectors comprise the majority of the road infrastructure in the BOA. There are also two high-volume, limited access highways: Interstate 190 runs east/west and has interchanges at Smith and Seneca streets; and State Route 5 runs north/south and has an interchange at Fuhrmann Boulevard.

Recent improvements to Route 5 include a new interchange at Ohio Street, which is located just south of the BOA. This provides direct access to Fuhrmann Boulevard and the southern portion of the Outer Harbor, as well as to the BOA along the reconstructed Ohio Street.

There is also an extensive network of truck routes throughout the BOA, to allow access to the many industrial and warehousing facilities.

The Niagara Frontier Transportation Authority operates eight bus lines within the BOA. These routes are located along Ohio Street, South Park Avenue, Elk Street, Bailey Avenue, and Seneca Street. There are a total of 36 bus stops, with the majority located near residential neighborhoods. Bus routes serving the BOA also connect with the city’s subway line, which parallels Main Street from downtown to the University at Buffalo South Campus.

The BOA is served by two Class I railroads – CSX Transportation and Norfolk Southern. Other railroads operate facilities and use trackage in the BOA, including Amtrak, the Class II Buffalo and Pittsburgh Railroad, and the Class III Buffalo Southern Railroad and South Buffalo Railway.

The extensive rail network offers opportunities to more effectively utilize existing lines, as well as to develop new ones. There are numerous industrial sites adjacent to existing rail lines or already connected by sidings or spurs; and currently abandoned rail corridors that could be put back into service.

The Buffalo River and City Ship Canal are the primary navigable waterways within the BOA. The Army Corps of Engineers maintains the shipping channel for the Buffalo River from its mouth to the former Conrail Bridge south by the Buckeye Terminal, as well as the majority of the City Ship Canal. Channels are dredged every two to three years to remove accumulated sediment.

Buffalo River shipping traffic is monitored by the United States Coast Guard. The average navigation season runs from April 1 to December 30. Travel out of the Buffalo River into Lake Erie may be prohibited during the winter, since no navigation channel is maintained when the lake is frozen.
**Land Use**

The BOA covers 888 acres of land, with 134 acres taken up by right-of-way for streets and sidewalks. The remaining 754 acres have been subdivided into a variety of uses. Industrial is the most prevalent, covering almost 40 percent of the net land area. This encompasses a range of activities, such as chemical manufacturing, flour milling, and shipping. [Map 3.15]

Vacant land, which sometimes includes parcels with abandoned structures, accounts for 220 acres, and can be found throughout the BOA. Rail and utilities is the next most prevalent use, covering 14 percent of the land, largely due to the many active and inactive rail lines.

Residential uses account for only 35 acres, or about 5 percent of the land base. Most of this is located in the Old First Ward and Valley neighborhoods, although there are small, isolated pockets of housing scattered throughout the BOA. Although this is a small land use in terms of acreage, there are more residential parcels than any other kind in the BOA. Residential density averages about 10 units per acre, which supports a walkable community.

A distinguishing characteristic of the BOA is its relative discontinuity. The sweeping bends in the Buffalo River, combined with two separate north/south rail lines, make the study area a series of sub-districts rather than an integrated whole.

Understanding the distribution and configuration of land ownership within the BOA is essential for making sound reuse decisions. Land ownership can be viewed from two perspectives: public versus private ownership; and large versus small parcels.

The majority of parcels within the BOA are privately-owned, indicating that redevelopment decisions will largely be based on market and financial considerations. Publicly-owned parcels are primarily either dedicated parkland or vacant lots that have been abandoned by prior owners and fallen to the city. Land for street right-of-way comprises another 92 acres; and 190 acres are covered with surface water.

**Zoning**

Zoning within the BOA was historically dominated by industrial classifications, with over 98 percent of the land previously zoned for such uses. These industrial zoning classifications often extended into residential areas to facilitate potential future expansion. With limited prospects for large-scale industrial expansion, the rationale for this policy no longer exists. Areas that have been out of active industrial use for years, or that encroach upon residential neighborhoods, were re-examined during the Green Code process to determine whether the zoning needed to be changed.

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<table>
<thead>
<tr>
<th>Total</th>
<th>Acres</th>
<th>Parcels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>162</td>
<td>16%</td>
</tr>
<tr>
<td>Right-of-way</td>
<td>134</td>
<td>13%</td>
</tr>
<tr>
<td>Under ownership</td>
<td>754</td>
<td>72%</td>
</tr>
<tr>
<td>Residential</td>
<td>35</td>
<td>5%</td>
</tr>
<tr>
<td>Parks / open space</td>
<td>32</td>
<td>4%</td>
</tr>
<tr>
<td>Community facilities</td>
<td>6</td>
<td>1%</td>
</tr>
<tr>
<td>Commercial</td>
<td>73</td>
<td>10%</td>
</tr>
<tr>
<td>Industrial</td>
<td>285</td>
<td>38%</td>
</tr>
<tr>
<td>Rail and utilities</td>
<td>103</td>
<td>14%</td>
</tr>
<tr>
<td>Vacant</td>
<td>220</td>
<td>28%</td>
</tr>
</tbody>
</table>
Potential Brownfields

Potential brownfields may consist of active, vacant, or underutilized sites. As defined by the US Environmental Protection Agency, they include any real property where the expansion, redevelopment, or reuse is complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant. Brownfields are generally considered sites where previous operations have impacted the property’s environmental integrity. Many times these are large former industrial sites, but they may also include smaller commercial sites such as dry cleaners, gas stations, and auto repair shops. Brownfields can have a variety of adverse impacts on a community—signifying disinvestment, posing environmental and public health threats, and impacting the local economy.

Each brownfield site is characterized as either:

- Remediated/Remediation Ongoing
- Known Contamination
- Brownfields.
- No Known Contamination
- No Site Characterization

The 58 potential brownfields within the BOA were identified based on a variety of databases, including the NYSDEC’s Remediation Site Database, Spills Inventory, and Bulk Storage Facility Database, as well as the USEPA’s Envirofacts database. In addition, windshield surveys were conducted to evaluate any apparent recognized environmental concerns that may indicate on-site contamination issues.

Vacant brownfield properties often present the community with the greatest opportunities for transformation. These may offer short-term redevelopment opportunities, and attract additional investment and contribute to long-term revitalization.
Implementation Strategy

The analysis of demographic characteristics and market potential, along with the inventory of assets, form the basis for establishing a vision for the Buffalo River Corridor. In undertaking this process, priorities must be set, since some land may not be development ready for many years. To ensure success that ultimately reaches all corners of the BOA, initial efforts need to create critical mass by focusing on targeted areas and strategic locations.

The goal of the Step 2 process is to develop an understanding of the BOA’s long-term potential, which can then be translated into the city’s proposed Land Use Plan and Unified Development Ordinance. These documents will guide the city’s development over the next 20 years, and are designed to make long-neglected areas more attractive to investment and redevelopment.

As the first step in this process, the consultant team prepared three alternative scenarios for guiding future development within the BOA. These were presented to the public to determine how much support there was for each. This feedback was then used to inform the city’s Land Use Plan and Unified Development Ordinance. Public input also assisted with the selection of strategic sites for further study under the BOA process.

To help frame the discussion of the alternative scenarios, a set of visioning directions and emerging principles were prepared:

**Visioning Directions**

- The residential neighborhoods surrounding the BOA are important and should be strengthened.
- Significant historic resources exist and are a defining characteristic of the area.
- Emerging commercial strips serving local neighborhoods should be encouraged.
- Conflicting land uses have resulted in weakened neighborhood edges, and should be addressed.

**Emerging Principles**

- Restore and enhance the environmental quality of the river and make it an international success story.
- Expand and diversify the role of the river, and position it as an amenity for surrounding neighborhoods, the city, and the region.
- Safeguard the river as a working waterfront and balance the needs of existing water-based employers with emerging interests.
- Enhance waterfront access and reduce isolation within the BOA through new connections.
- Promote quality place-making by creating waterfront communities and business districts and attractions.
Scenario 3
Employment, Recreational, and Cultural
Community Feedback

Highlights from the input provided by residents who attended the open house include:

- Strong support for restoration of riparian habitats – at the foot of Kelly Island, on the Katherine Street Peninsula, and at other locations along the Buffalo River.

- Clear favor for Ohio Street as a strategic corridor both for the Old First Ward and as a connection between the Outer Harbor and Downtown. Housing, mixed-use development, and improvements to the public realm were all key elements of that vision.

- A mix of views on the reuse of the “Del” – a former rail right-of-way bisecting the Old First Ward. Some favored it as a multi-use trail, others as a transit route.

- Little attention to alternative concepts for the Elk Street corridor.

- “Industrial Expansion and Diversification” was the most favored scenario with 60 percent of votes; but the key to this support was expanded recreation and access, rather than industry.

- Both “Land and Water Based Logistics” and “Employment, Recreational and Cultural” were favored by 20 percent of participants.

<table>
<thead>
<tr>
<th>Land and Water Based Logistics</th>
<th>Industrial Expansion &amp; Diversification</th>
<th>Employment, Recreational &amp; Cultural</th>
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<td>Likes</td>
<td>Habitat restoration</td>
<td>Ohio Street public realm improvements</td>
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<td></td>
<td>Water-dependent uses along riverfront</td>
<td>Katherine Street park</td>
</tr>
<tr>
<td></td>
<td>Multi-use trails on former rail corridors</td>
<td>Residential infill in neighborhoods</td>
</tr>
<tr>
<td></td>
<td>Ohio Street residential</td>
<td>Silo City cultural attractions</td>
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<td>Elk Street logistics</td>
<td>Elk Street corridor</td>
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<td></td>
<td>Residential infill in neighborhoods</td>
<td>Pedestrian bridge to South Buffalo</td>
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<td></td>
<td>Red Jacket Park expansion</td>
<td>Multi-use trails on former rail corridors</td>
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<td></td>
<td>Katherine Street water-dependent uses</td>
<td>Train museum</td>
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<td>Dislikes</td>
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<tr>
<td></td>
<td>Residential infill along riverfront</td>
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<td></td>
<td>Industrial Infill</td>
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</tr>
<tr>
<td></td>
<td>Water-dependent uses</td>
<td></td>
</tr>
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</table>
Land Use and Zoning Recommendations

The consultant team and city used the community’s feedback on the alternative scenarios to develop land use and zoning recommendations for implementation under the city’s proposed Green Code.

In addition to the public input received during the BOA process, nearly 1,000 residents attended Green Code meetings that were held throughout the city. The resulting land use and zoning recommendations reflect this input, along with the city’s existing and desired development character, and market trends that are driving investment.

The land use and zoning recommendations proposed for the BOA will provide guidance for the next 20 years. These designations generally offer more flexibility than the existing zoning. The Green Code is designed to lay the foundation for future development, so that the market can determine what investments make sense and where, within the parameters agreed upon by the community.

It is expected that this approach will be more adaptable and encourage greater levels of private investment. The result of this planning process will be a BOA that truly balances employment, recreational, and natural uses.
Marketing

The Buffalo River Corridor BOA underwent extensive market analysis during the Nomination Study to understand local, regional, and national contexts. Although the area’s history is based on heavy industry and transportation, market projections suggest that it must advance beyond these types of uses to reach its full potential.

The Nomination Study describes market trends, while taking into consideration the complex land base and community concerns that shape the plan. As with the city’s Green Code, a Smart Growth approach was employed to balance the BOA’s need for economic development with preserving the built environment and targeting vacant and underutilized properties for future redevelopment.

Five principles will be used to guide decision-making:

1. Leverage existing assets
2. Diversify the economic base
3. Encourage redevelopment with public realm investments
4. Promote high-quality urban design
5. Establish a range of implementation activities

The Implementation Strategy identifies three strategic locations that meet these principles: Kelly Island, Ohio Street, and Elk Street.

Kelly Island has traditionally been an industrial center, housing enterprises such as American Ship Building, American Steamship, Grange League Federation, General Mills, and Pillsbury. The area is no longer exclusively industrial, however, as the development of Riverworks and increased recreational use of the Buffalo River have both impacted traditional uses. The way forward must find a balance between historic industrial uses and more recent recreational and commercial ones.

Ohio Street benefits from its reconstruction, which was completed in 2015. It has been one of the most significant public investments within the BOA, and provides the foundation for developing an infill strategy. Private investments in both residential and commercial uses have begun to occur along Ohio Street, and will allow the corridor to develop as a mixed-use neighborhood.

Elk Street was once the home of heavy industry, but has been transitioning with the loss of employers such as Allied Chemical, Trico, Thompson Paper, and Exxon Mobil. Today the study area’s location across the Buffalo River from SolarCity makes it attractive for commercial and light industrial redevelopment. With key infrastructure investments, vacant parcels along Elk Street can be repurposed to meet this emerging demand.

To convey information about strategic locations and other areas of interest within the BOA, graphic representations such as plans, sections, and perspectives may need to be created. These can be used to better inform elected officials, community groups, residents, and potential investors. Additional advantages include use by news media, in advertisements, or for real estate agents looking to market specific properties.

The BOA has witnessed substantial investments since work on the study began. These investments are driven in part by the renewed development focus provided by the BOA program, and are positioned to continue as the strategic plan is implemented. The visibility and success of these projects has become one of the primary means of marketing the BOA.

In addition to these marketing opportunities, research conducted by the Western New York Regional Economic Development Council has identified eight industry clusters to target, including advanced manufacturing, bi-national logistics, professional services, and tourism. The report also calls for a comprehensive and coordinated approach to regional marketing and promotion to address the negative images of Western New York.

The BOA is best positioned to compete in advanced manufacturing, bi-national logistics, and tourism that takes advantage of its proximity to the waterfront. To advance development opportunities in the BOA, a coordinated marketing effort is needed. Strategies to consider include:

- Marketing the BOA as a regional asset in its targeted industry clusters;
- Leveraging and promoting “Buffalo Billion” infrastructure investments;
- Uniting regional marketing power to entice businesses to expand in or relocate to the city;
• Implementing marketing campaigns to improve brand awareness of the BOA;
• Increasing direct foreign investment by targeting Canadian firms; and
• Matching company needs with incentive programs to encourage relocation or expansion.

A marketing strategy requires multiple formats to reach potential investors. A strong web presence with industry sector and site specific content is an important avenue for pursuing a broad-based target audience. Invest Buffalo Niagara, BUDC, and ECIDA websites all currently maintain a strong presence that could be used to support the BOA. These organizations are able to maintain contact with key targets, stakeholders, and media outlets to promote positive news and foster awareness for the BOA.

Funding Opportunities
Implementing the BOA Plan will require the participation of numerous stakeholders, including residents, community organizations, business owners, city departments, civic leaders, and cultural institutions. By partnering together, interested parties can share knowledge and execute the projects outlined in the plan.

Financial resources are pivotal to success. The following list outlines potential funding sources. It is often possible to combine funds from various sources to support projects.

The state’s Brownfield Cleanup Program encourages private sector cleanup and redevelopment of brownfield sites through the use of tax credits. Sites located in approved BOAs are eligible for an additional five percent credit, on top of the amount conferred by their status.

New York’s Environmental Restoration Program provides municipalities with up to 90 percent of on-site and 100 percent of off-site costs associated with brownfield site investigation and remediation measures. Upon successful completion of the program, the municipality and future owners are released from liability for contaminants on the property prior to obtaining ownership.

The Consolidated Funding Application is designed to improve New York’s business climate and expand economic opportunity by directing state resources to development projects. The Western New York Regional Economic Development Council’s strategic plan and implementation agenda guide investments that the state makes through its annual CFA process.

Low Income Housing Tax Credits is a state-administered program that provides federal tax credits for costs related to the development of affordable rental units. Both for- and non-profit developers can use LIHTC to construct new buildings or rehabilitate existing ones. Projects must rent at least 20 percent of the units to households with incomes at or below 50 percent of the area median; or at least 40 percent of the units to households with incomes at or below 60 percent of the area median.

The Rehabilitation Tax Credit Program provides a 20 percent tax credit for qualified rehabilitation expenditures, and is used in conjunction with the federal Historic Preservation Tax Incentive Program. Any commercial, industrial, or residential rental property is eligible if it is listed on the state or national register of historic places either individually or as a contributing building in a historic district. For the state credit, the property must also be located in a qualified census tract with a family income at or below the statewide median.

The New Markets Tax Credit Program was established to help offset investment risks in low-income communities. An organization wishing to receive funding must be certified as a Community Development Entity, demonstrate a primary mission of serving low-income communities or residents, and maintain accountability to residents through representation on its governing or advisory board. In exchange for investing in a certified project, an investor receives 39 percent of the investment value in tax credits over a seven-year schedule.

The federal Historic Preservation Tax Incentive Program provides investors with a 10 or 20 percent tax credit that can be claimed for the year in which an eligible building is put into service. Rehabilitation of certified historic structures qualifies for a credit equal to 20 percent of the cost of the work; while rehabilitation on non-certified structures qualifies for a credit equal to 10 percent of the cost of the work. All restored buildings and properties must be income producing and rehabilitated according to the Department of Interior’s standards.
SEQRA Compliance

The BOA Plan has been prepared in accordance with guidelines established by the Departments of State and Environmental Conservation for the Step 2 Nomination Study and Step 3 Implementation Strategy phases of the BOA program. The adoption and implementation of the Plan will result in the redevelopment of several brownfield, abandoned, and vacant sites; enhanced open space and parks; new commercial, recreational and mixed-use opportunities; and improvements to access and connectivity.

Since 2008, the city has initiated a significant number of initiatives, including the preparation of a land use plan and zoning ordinance, a Local Waterfront Revitalization Program, and four BOA Nomination Studies. Based on the number and scope of these initiatives, the city decided that a consolidated environmental impact review process, through preparation of a GEIS, would be an appropriate vehicle for SEQRA compliance. As a result, the city initiated a comprehensive SEQRA review under the auspices of the Buffalo Consolidated Development Framework.

The BCDF took a number of procedural steps under SEQRA, which in part satisfy the GEIS requirements for the BOA Plan. Common Council received a Full Environmental Assessment Form prepared on its behalf, and determined that the adoption of the components of the BCDF was a Type 1 Action under SEQRA.

Common Council assumed the role of SEQRA Lead Agency, and determined that the adoption and implementation of the BCDF may have an adverse impact on the environment and that a DGEIS must be prepared. A Positive Declaration was subsequently issued. Common Council also determined that scoping would be appropriate.

On February 16, 2016 Common Council determined that the DGEIS was complete and adequate for public review, and a public comment period began. During the comment period, the public and interested and involved agencies submitted comments regarding the evaluation and conclusions summarized in the DGEIS. Following the comment period, Common Council assembled the comments and subsequently determined the appropriate procedural steps to complete the SEQRA review. The Findings Statement was adopted on December 27, 2016.

The DGEIS has been prepared in accordance with 6 NYCRR 617.10, and as such presents a more general set of analyses than a conventional, project-specific EIS. The DGEIS describes the proposed action, and includes assessments of specific anticipated impacts commensurate to the level of detail available. The analysis is based on conceptual information due to the comprehensive and prospective nature of the BOA Plan.

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2.1 Project Description

In 2011, the City of Buffalo was awarded funding from the New York State Department of State to establish the Buffalo River Corridor Brownfield Opportunity Area. This funding allows recipients to plan for the revitalization of underutilized, vacant, and brownfield sites by establishing a vision for their redevelopment, and strategies to return the sites to productive use.

The Buffalo River Corridor BOA covers 1,050 acres – over 1.5 square miles – to the southeast of downtown. It contains a large number of brownfields and abandoned parcels; a legacy from the industries that were once located along the Buffalo River.

Redevelopment of this area will be based on its strategic location, which includes highways and rail lines that connect to destinations in both the United States and Canada, as well as access to the Buffalo River and Lake Erie. Ongoing efforts to restore waterfront lands and improve public amenities have already increased interest in the area and created opportunities for developments that match the needs of the community.

The Buffalo River Corridor BOA builds on the adjacent South Buffalo BOA, and represents a natural progression of this effort by taking into account the impact of industries located along the Buffalo River. As brownfield sites are remediated and returned to productive use in South Buffalo, additional shovel-ready land will be needed to continue accommodating development.

This BOA is being evaluated as part of a Generic Environmental Impact Statement that will review the impacts of adopting three Step 2 BOAs (Buffalo Harbor, Buffalo River Corridor, and Tonawanda Street Corridor), a Step 3 BOA (South Buffalo), the Local Waterfront Revitalization Plan, changes to existing Urban Renewal Plans, and an updated Land Use Plan and Unified Development Ordinance.

The Common Council was declared lead agency, and a Positive Declaration and draft scope of work prepared. The GEIS will be submitted to the Common Council for review and approval, and a public comment period will take place prior to adoption.

2.2 Vision, Goals and Objectives

The BOA process seeks to initiate, prioritize, and guide land remediation and redevelopment by identifying economic, social, and cultural opportunities. A vision for the future must be guided with broad-based community, municipal, and state support; and solidly grounded in current and emerging challenges, initiatives, and opportunities.

The long-term goal is to pursue both environmental enhancement and sustainable development by creating a plan designed by stakeholders, including area residents, businesses, environmental advocates, and government. Consensus building began at project inception, by ensuring that the various concerns and goals were discussed in an open fashion. Community contributions and acceptance are vital to the success of any redevelopment plan.

Planning is essential to ensure that future development does not compromise recent gains. The need to generate employment opportunities and tax revenues must be balanced with strengthening neighborhoods, expanding recreational opportunities, preserving industrial heritage, ensuring waterfront access, and improving habitats and watershed ecology.
Vision

The city’s four Brownfield Opportunity Areas are all aligned with the Buffalo Green Code. This is a place-based economic development strategy designed to implement the city’s Comprehensive Plan, and includes the first citywide land use plan since 1977, and the first zoning rewrite since 1953. It incorporates the city’s Homestead Urban Renewal Plan, Local Waterfront Revitalization Plan, and Brownfield Opportunity Area Plans into a common vision that will guide Buffalo’s physical development over the next 20 years.

The 2006 Comprehensive Plan positioned the city as Western New York’s regional center, and provided a road map for reversing declines in employment, population, and environmental quality. It was driven by three principles: fix the basics and build on assets; target sustainability; and employ smart growth. The plan identified strategic investments in economic development, neighborhoods, and infrastructure; and called for a revised zoning ordinance to achieve the city’s smart growth goals.

This Land Use Plan translates the Comprehensive Plan into policies for directing future growth. It assesses existing conditions and trends, and offers direction on land use, transportation, and urban design. The plan sets the foundation to revise the zoning ordinance, establish capital improvement priorities, and drive neighborhood planning efforts. It provides guidance that support community objectives, but maintains enough flexibility to take advantage of unanticipated opportunities that may arise.

The Unified Development Ordinance integrates land use and urban design into a legal framework that addresses both public and private realms. It facilitates development by protecting and strengthening what residents like about the city, while addressing aspects they dislike. The ordinance consolidates development regulations into a simple user-friendly document, providing fair and transparent rules and procedures based upon public consensus.

The vision outlined for the Green Code, along with its component parts, includes:

- Encouraging investment by making development rules predictable, setting aside land for job creation in key districts and corridors supported by cost-effective infrastructure, and allowing for the productive and timely reuse of vacant land.
- Promoting land use patterns that encourage compact development and transportation choices to conserve energy; protect air, water, and soil quality; preserve and expand green infrastructure; and support access to wholesome food to promote healthy living.
- Respecting traditional development patterns, repairing existing neighborhood fabric, helping residents reinvent neighborhoods where the fabric is beyond repair, and preserving the city’s architectural heritage and the physical context that supports it.
- Creating the conditions for growth by making the city attractive to newcomers, meeting the aspirations of current residents, and sharing the benefits of city life equitably with this generation and those to come.

Goals and Objectives

The Buffalo River Corridor BOA is grounded in three main goals: grow the economy, strengthen neighborhoods, and repair the environment.

Grow the economy A strong economy is the foundation for successful neighborhoods and a healthy environment. The BOA is designed to promote growth along the waterfront and within industrial and commercial centers. These place-based assets are at the heart of Buffalo’s economic recovery. Reduced property taxes and streamlined permit approvals are already making it easier and more attractive to invest. The plan builds on this momentum by targeting suitable sites for development and employment opportunities.

A successful city concentrates knowledge, assets, and talent; and encourages innovation and creativity. It nurtures the social and economic networks necessary to produce both wealth and community cohesion. By building on its historic strengths, Buffalo will be better positioned to compete for investments and jobs, and expand economic opportunity and equity for all residents.
As the city transitions to a knowledge-based economy, locational needs and requirements are changing. Industry used to require a great deal of land to support its activities, while far less is needed in the new economy. At the same time, location—in dense, mixed-use, lively places—is becoming more important to building and maintaining business relationships.

Although manufacturing has declined both locally and nationally, Buffalo still has a strong industrial presence. There is sufficient land to accommodate demands for advanced manufacturing, primary and back office space, and facilities for biomedical and educational facilities, yet it is not always shovel-ready. Aggressive efforts to prepare sites and structures for redevelopment must continue.

**Strengthen neighborhoods** Buffalo benefits from diverse, walkable neighborhoods that are linked by public transit. A number have recently experienced rising demand and investment; others have remained relatively stable; while some suffer from issues that limit their potential, such as vacancy, abandonment, and absentee landlords.

It is important to preserve the unique assets that define individual neighborhoods. Supporting and maintaining strong neighborhoods is the key to attracting and retaining residents, bolstering the city’s tax base, and reducing the region’s carbon footprint.

The strategy for addressing Buffalo’s neighborhoods was originally outlined in the Comprehensive Plan: fix the basics and build on assets. Neighborhoods that are doing well should be closely monitored to make sure that they remain attractive locations for residential and commercial investment.

Stable neighborhoods must receive attention to ensure that they continue on the right path. Public investments should be targeted to upgrade infrastructure and community facilities. Infill development that is pedestrian-scaled, and capable of supporting a range of transportation options should be encouraged to repair any tears in the neighborhood fabric.

Neighborhoods that have experienced disinvestment require special attention, with an emphasis on long-term recovery. Homeowners must feel confident that investments in repairs and upgrades will remain secure. Vacant land must be managed creatively, keeping as much as possible in active uses to reduce the negative impacts on neighboring properties, while land banking key parcels to maximize long-term development potential.

**Repair the environment** Buffalo was largely built out by 1950, during a time when little thought was given to environmental impacts. The city was built by draining wetlands and channelizing streams; using the land, water, and air to dispose of waste; and constructing homes, schools, and workplaces with asbestos and lead-based paint. These actions are now recognized as having caused serious harm to the environment, residents, and the economic sustainability of the city.

Although these abuses have largely been curtailed, their ongoing impacts must continue to be addressed to avoid undermining the revitalization of city neighborhoods and employment centers. While encouraging walkable, transit-served places offers clear ecological benefits, efforts to tackle these legacy environmental challenges must remain a priority.

The city’s environmental quality shows continued improvement, due to the impact of legislation such as the Clean Air and Clean Water acts adopted in the 1970s, ongoing remediation efforts along its waterways, and efforts to address contaminated sites through various brownfield programs. Work to restore native habitats began in 1972, when Tifft Nature Preserve was established on the site of former docks and landfill, and has continued through the 2006 dedication of Times Beach Nature Preserve.

The BOA will facilitate restoring natural systems and open space, conserving energy and water, and reducing the city’s impact on the global environment. This approach will lighten Buffalo’s overall development footprint, while providing a sense of permanence and character that bolsters both property values and quality of life.
2.3 Boundaries

The boundaries were selected to include industrial areas located along the Buffalo River. Major industrial parcels—both active and inactive—include Kelly Island, Silo City, Elk Street, and the Katherine Street Peninsula. The mixed-use neighborhoods surrounding these employment centers were included so that residents most affected by the recent transitions would have a voice in future land use decisions. These areas include the Old First Ward, Seneca-Babcock, and Valley neighborhoods.

The western boundary is the terminus of the City Ship Canal and Kelly Island; the northern boundary includes residential areas, a rail corridor, and the New York State Thruway; the eastern boundary roughly coincides with the end of the navigable portion of the Buffalo River; and the southern boundary traces the Buffalo River, adjacent to the South Buffalo BOA.

2.4 Community Participation

A community participation plan was designed to enable input at a variety of levels and stages during the development of the Nomination Document. The plan was organized around project tasks to provide timely inputs to deliverables. A range of opportunities for community involvement were identified, from public open houses to small stakeholder sessions. The project website also provided opportunities for interested parties to submit comments.

The consultation process employed numerous outreach methods to ensure robust public and private participation. The design and production of accessible materials, and the provision of multiple opportunities for feedback were seen as essential to a successful communication strategy.

Several different audiences were engaged during the planning process. In order to effectively communicate with each group, contact lists were developed and updated with names, addresses, phone numbers, and e-mail addresses. These lists included residents, block clubs, non-profits and community groups; advocacy organizations, educational institutions, businesses and developers; county, state, and federal agencies; city departments and boards; elected officials; and steering committee members. Opportunities for community participation included:

- Stakeholder Sessions

  A series of stakeholder sessions were held in November 2011 and January 2012, to assist the consultant team in understanding the dynamics of the study area. These sessions included developers and investors, businesses and large landholders, non-profits and community-based organizations, regulatory agencies, and city departments that serve the community.

  These early consultations were designed to:

  - Inform stakeholders about the study process and objectives;
  - Discuss issues and opportunities, along with policy and development concerns; and
  - Identify potential projects and initiatives that would benefit the community.

A “Business Breakfast” was also held in June 2012, to provide business owners and developers with an opportunity to more openly discuss their objectives outside of a public forum.
Map 2.1  Boundaries

Map 2.2  Aerial view
Steering Committee Meetings
A 20-member steering committee was appointed to review material prepared by the consultant team, provide input regarding project direction, and serve as liaisons to the larger community. Members included representatives from local businesses, developers, community-based organizations and other non-profits, institutions, and the general public. Staff from agencies providing project support were also invited to attend steering committee meetings. A total of five meetings were held during the course of the Step 2 process:

- **December 2011** – the initial meeting introduced the project team; provided overviews of the BOA program and study process; and included breakout sessions to allow participants to brainstorm key issues, challenges, opportunities, and goals and aspirations.

- **January 2012** – the second meeting reviewed consultant analysis and findings to date; introduced the visioning process that would be employed at the first open house; and included breakout sessions to discuss types of desired uses and locations, infrastructure needs, and phasing of proposed improvements.

- **June 2012** – the third meeting reviewed and discussed three alternative scenarios for future development.

- **February 2014** – the fourth meeting reviewed the draft Nomination Document and initial strategic sites, discussed concerns, and proposed changes.

Open Houses
A total of four open houses were held over the course of the planning process to share information with the public and solicit comments and feedback:

- **January 2012** – the first open house introduced the project objectives, provided an overview of the analysis conducted to date, and then broke out into visioning sessions to allow participants to discuss emerging principles and their vision for the BOA over the next two decades.

- **June 2012** – the second open house started with a brief review of the community input from the prior meeting, discussed the economic analysis for the BOA, and laid out a set of emerging principles to guide redevelopment. The consultants provided workbooks outlining the three alternative development scenarios, and asked participants to mark these up with their thoughts and comments. The meeting concluded with a facilitated discussion on initial reactions to the alternative scenarios.

- **April 2014** – the third open house provided the community with a brief recap of project status, and reviewed the key findings of the draft Nomination Document. The consultants identified the strategic sites that are being proposed, and accepted input on their redevelopment potential.

- **October 2015** – the fifth meeting reviewed the final Nomination Document and strategic sites, discussed concerns, and proposed changes.
Buffalo is the regional center of Western New York, which consists of Erie, Niagara, Orleans, Genesee, Wyoming, Allegany, Cattaraugus, and Chautauqua counties. Erie and Niagara are the most urbanized, and together form the Buffalo-Niagara Falls Metropolitan Statistical Area.

The regional setting reflects long-term trends in Erie and Niagara counties. Buffalo’s population peaked in 1950, and had fallen 55 percent by 2010; Niagara County peaked in 1960, and had fallen 11 percent by 2010; while Erie County peaked in 1970, and had fallen 17 percent by 2010. [Figure 3.1]

These declines reflect the lack of economic growth in Western New York over the past 60 years. The region was historically dependent on manufacturing and trade for its job base. Manufacturing underwent a major restructuring in the second half of the 20th century, which led to industrial facilities relocating from the Northeast and Midwest to the West and South, and later overseas. Population growth mirrored these trends, which also had a significant impact on the region’s role as a shipping hub, as markets shifted further away from Western New York.

Beyond the impacts of manufacturing decline, cities were also beginning to experience the effects of suburbanization. The rise of bedroom communities in the 1950s initiated a massive shift in population. Yet Buffalo remains the regional center in terms of government, finance, medicine, education, and the arts; providing the city with a strong foundation for future growth.

The region’s transition from manufacturing to a service-based economy has been slow, but is now firmly under way. The University of Buffalo is a major research institution that advances the technological capabilities of the region. The training offered by UB and other higher education providers represents a significant resource; while the Buffalo Niagara Medical Campus reinforces Buffalo’s position as a center for biomedical technology to drive the region’s growth in the service-based economy.
Western New York also benefits from its relationship with Toronto and Southern Ontario, which offers significant opportunities for development on both sides of the border. Increasing international trade and cross-border relationships have been a long-term trend. Initially spurred by the North American Free Trade Agreement, the region has become a portal for Canadian businesses seeking to access US markets.

Economic activity resulting from bi-national trade is expected to be a continuing source of regional growth. As Canadian firms seek greater operational efficiencies and access to the larger US market, more facilities and jobs will be located on this side of the border, with Buffalo positioned to capture a significant portion of this investment. The goal is to turn Western New York into a place where people choose to live, rather than leave. In the industrial economy, locational decisions were based on factors such as access to raw materials, proximity to markets, and the cost of transporting goods. Today, employment flows to places with workforce synergies and a high quality of life. Where people want to live plays an increasing role in regional success.

Quality of life is a broad, somewhat abstract concept that includes economic opportunities, cost of living, education, public safety, housing options, environmental health, arts and culture, and recreation. No single place can excel in all areas; but the purpose of all efforts must be to enhance the quality of life within the city and region.

**Opportunities**

- Use the area’s skilled workforce and higher education institutions to provide the capacity for renewed economic growth.
- Build on cultural diversity by welcoming and integrating the growing numbers of immigrants and refugees into the economic and social networks.
- Leverage the tourism focused on Niagara Falls with complementary assets such as architecture, industrial heritage, arts and music, food and beverage, sports and recreation, and fishing and hunting.
- Take advantage of excess transportation capacity while restructuring the existing system to become more multi-modal and responsive to urban form.
- Enhance the city’s unique urban form, dictated by the confluence of Lake Erie with the Niagara and Buffalo rivers, and guided by the subsequent efforts of Joseph Ellicott and Frederick Law Olmsted.
- Maximize natural resources by making recreation and natural beauty part of the regional lifestyle, and by restoring ecosystem function and resilience.
- Emphasize history and heritage to enhance a sense of place and increase regional appeal.
Challenges

- Economic diversification is well underway, but needs to be accelerated to achieve net growth.
- Disinvestment has outpaced private sector investment in recent decades. Barriers to investment must be overcome to address issues such as legacy industrial and commercial contamination.
- The region suffers from both misconceptions and real concerns regarding quality of life. Positive demonstrations are needed to enhance the image of the city and region.
- The economic restructuring of the region will require a physical restructuring, including new land use patterns, revitalized neighborhoods, and updated transportation systems.
- Without sacrificing its heritage, the region must address obsolescence and upgrade its housing, transportation, and community facilities; and employ best practices and state-of-the-art urban design.

3.2 Community and Regional Trends

Demographic, employment, and real estate trends all impact the potential for future redevelopment. There are a number of options that could reasonably be considered for the BOA, yet most market and economic indicators are still relatively weak, both within the city and the region. Therefore, the rate of new development for any selected use should be expected to unfold over a period of years. Low demand for residential and non-residential land uses also suggests that subsidies and incentives may be required to attract developers and investors, at least in the near term.

Demographic Trends

Population and household growth within the region have been constrained over the past few decades by a general lack of economic opportunities. Recent population changes between 2000 and 2014 reflect overall net losses at both the city and county levels; although estimates since 2010 indicate that the county has grown by roughly 4,100 persons, while the city’s rate of decline has slowed considerably, with a loss of just 2,500 residents over the past four years. As with population, the city experienced a loss of 12,600 households between 2000 and 2014; although the rate of decline has also been slowing recently. [Figure 3.2]

The county’s median age of 40.8 is well above the city’s median of 32.7. Although the city had 28 percent of the total county population in 2014, this was not evenly distributed among age groups. [Figure 3.3] The city had 33 percent of all persons under age 24, and 32 percent of those between 25 and 44. But as persons age, they are more likely to live in the suburbs, as just 23 percent of those 45 to 64, and less than 22 percent of those over 65 reside in the city.

The two largest age cohorts in the United States are Millennials (currently ages 15 to 35) and Baby Boomers (ages 51 to 69). The city has a unique opportunity to retain a greater share of Millennials as they reach the age when persons typically begin leaving cities for the suburbs; as well as the potential for drawing back empty nesters among Baby Boomers looking to downsize.

When adjusted for inflation, median household income in Erie County declined by 5.4 percent between 2000 and 2014, going from $53,400 to $50,500. There are various factors contributing to this, including a growing number of households being headed by retirees, as well as the continuing increase in one-person households, which therefore have just a single income. Median household incomes in the city also decreased between 2000 and 2014, from $35,100 to $32,100. Household incomes in the city have traditionally been below those of the county, and fell slightly from 66 to 64 percent of the countywide median during this period.
### Figure 3.2 City of Buffalo demographic trends

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Source: US Census Bureau

### Figure 3.3 Age distribution in 2014

![Age distribution in 2014 chart](chart.png)
Employment Trends

Total employment in Erie County rose by over 13,000 between 2000 and 2014, from 431,180 to 444,470. [Figure 3.4] Private sector jobs represented about 80 percent of the 2014 total. The region has seen this number increase by 5.5 percent since 2000, while government employment has declined by 3.7 percent. The largest number of employees work in education and health care, retail trade, manufacturing, and accommodations and food services; with professional services and management, and finance, insurance, and real estate also accounting for a significant number of jobs.

Like many regions across the country, the manufacturing sector recorded the greatest losses since 2000, with a decline of over 15,000 jobs. These losses are projected to continue, although efforts to promote advanced manufacturing are designed to slow this trend. While the overall losses were not as great, wholesale trade declined 41 percent (7,700 jobs) and information declined 29 percent (2,900 jobs). On the other side of the ledger, education and health care gained 15,000 jobs, accommodations and food service grew by almost 11,000, and finance, insurance, and real estate were up over 6,000.

Figure 3.4  Erie County employment trends

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>2000</th>
<th>2014</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>431,180</td>
<td>444,470</td>
<td>13,290</td>
</tr>
<tr>
<td>Private</td>
<td>335,580</td>
<td>354,190</td>
<td>18,610</td>
</tr>
<tr>
<td>Government</td>
<td>75,170</td>
<td>72,380</td>
<td>(2,790)</td>
</tr>
<tr>
<td>Self-employed / family</td>
<td>20,430</td>
<td>17,900</td>
<td>(2,530)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>2000</th>
<th>2014</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>431,180</td>
<td>444,470</td>
<td></td>
</tr>
<tr>
<td>Education and health care</td>
<td>110,320</td>
<td>125,470</td>
<td>15,150</td>
</tr>
<tr>
<td>Retail trade</td>
<td>50,930</td>
<td>54,780</td>
<td>3,850</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>62,250</td>
<td>46,680</td>
<td>(15,570)</td>
</tr>
<tr>
<td>Accommodation and food service</td>
<td>32,340</td>
<td>43,080</td>
<td>10,740</td>
</tr>
<tr>
<td>Professional and management</td>
<td>34,660</td>
<td>41,100</td>
<td>6,440</td>
</tr>
<tr>
<td>Finance, insurance, real estate</td>
<td>28,690</td>
<td>34,970</td>
<td>6,280</td>
</tr>
<tr>
<td>All other</td>
<td>111,990</td>
<td>98,390</td>
<td>(13,600)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>2000</th>
<th>2014</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>431,180</td>
<td>444,470</td>
<td></td>
</tr>
<tr>
<td>Management and business</td>
<td>149,730</td>
<td>170,530</td>
<td>20,800</td>
</tr>
<tr>
<td>Sales and office</td>
<td>121,260</td>
<td>111,640</td>
<td>(9,620)</td>
</tr>
<tr>
<td>Service</td>
<td>67,290</td>
<td>82,050</td>
<td>14,760</td>
</tr>
<tr>
<td>Production and transportation</td>
<td>62,790</td>
<td>51,020</td>
<td>(11,770)</td>
</tr>
<tr>
<td>Construction and maintenance</td>
<td>30,110</td>
<td>29,230</td>
<td>(880)</td>
</tr>
</tbody>
</table>

Source: US Census Bureau
Similar to the gains and losses among sectors, the number of persons employed in production and transportation occupations declined by more than 11,000, while employment in management, business, and science occupations rose by 20,800, and service occupations increased by almost 15,000. Employment growth in sectors with significant shares of lower wage workers, such as health care, accommodations, and food service, coupled with ongoing losses in higher-paying manufacturing jobs, have also contributed to the decline in median household income.

With respect to the city, total employment dropped by 3,910 between 2000 and 2014, from 114,060 to 110,150. [Figure 3.5] This reflects a loss of over 4,800 government positions, which was only partially offset by a gain of 2,000 private sector jobs.

The largest employment sectors in the city are similar to those in the county as a whole, although losses in manufacturing were more severe (down 38 percent), and gains in accommodation and food service more robust (up 44 percent).

Given the decline in manufacturing, the loss among production and transportation occupations outpaced that of the county, falling by 25 percent between 2000 and 2014. Sales and office occupations also fell; although management, business, and science rose by 8 percent, and service occupations were up 14 percent.

**Figure 3.5 City of Buffalo employment trends**

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>2000</th>
<th>2014</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>114,060</td>
<td>110,150</td>
<td>(3,910)</td>
</tr>
<tr>
<td>Private</td>
<td>87,400</td>
<td>89,410</td>
<td>2,010</td>
</tr>
<tr>
<td></td>
<td>77%</td>
<td>81%</td>
<td>2%</td>
</tr>
<tr>
<td>Government</td>
<td>22,180</td>
<td>17,370</td>
<td>(4,810)</td>
</tr>
<tr>
<td></td>
<td>19%</td>
<td>16%</td>
<td>-22%</td>
</tr>
<tr>
<td>Self-employed / family</td>
<td>4,480</td>
<td>3,370</td>
<td>(1,110)</td>
</tr>
<tr>
<td></td>
<td>4%</td>
<td>3%</td>
<td>-25%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>2000</th>
<th>2014</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>114,060</td>
<td>110,150</td>
<td></td>
</tr>
<tr>
<td>Education and health care</td>
<td>32,380</td>
<td>33,480</td>
<td>1,100</td>
</tr>
<tr>
<td></td>
<td>28%</td>
<td>30%</td>
<td>3%</td>
</tr>
<tr>
<td>Retail trade</td>
<td>12,170</td>
<td>12,710</td>
<td>540</td>
</tr>
<tr>
<td></td>
<td>11%</td>
<td>12%</td>
<td>4%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>14,910</td>
<td>9,210</td>
<td>(5,700)</td>
</tr>
<tr>
<td></td>
<td>13%</td>
<td>8%</td>
<td>-38%</td>
</tr>
<tr>
<td>Accommodation and food service</td>
<td>9,490</td>
<td>13,700</td>
<td>4,210</td>
</tr>
<tr>
<td></td>
<td>8%</td>
<td>12%</td>
<td>44%</td>
</tr>
<tr>
<td>Professional and management</td>
<td>9,770</td>
<td>10,600</td>
<td>830</td>
</tr>
<tr>
<td></td>
<td>9%</td>
<td>10%</td>
<td>8%</td>
</tr>
<tr>
<td>Finance, insurance, real estate</td>
<td>6,510</td>
<td>6,720</td>
<td>210</td>
</tr>
<tr>
<td></td>
<td>6%</td>
<td>6%</td>
<td>3%</td>
</tr>
<tr>
<td>All other</td>
<td>28,830</td>
<td>23,730</td>
<td>(5,100)</td>
</tr>
<tr>
<td></td>
<td>25%</td>
<td>22%</td>
<td>-18%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>2000</th>
<th>2014</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>114,060</td>
<td>110,150</td>
<td></td>
</tr>
<tr>
<td>Management and business</td>
<td>33,290</td>
<td>35,920</td>
<td>2,630</td>
</tr>
<tr>
<td></td>
<td>29%</td>
<td>33%</td>
<td>8%</td>
</tr>
<tr>
<td>Sales and office</td>
<td>30,770</td>
<td>26,200</td>
<td>(4,570)</td>
</tr>
<tr>
<td></td>
<td>27%</td>
<td>24%</td>
<td>-15%</td>
</tr>
<tr>
<td>Service</td>
<td>24,050</td>
<td>27,410</td>
<td>3,360</td>
</tr>
<tr>
<td></td>
<td>21%</td>
<td>25%</td>
<td>14%</td>
</tr>
<tr>
<td>Production and transportation</td>
<td>19,560</td>
<td>14,660</td>
<td>(4,900)</td>
</tr>
<tr>
<td></td>
<td>17%</td>
<td>13%</td>
<td>-25%</td>
</tr>
<tr>
<td>Construction and maintenance</td>
<td>6,390</td>
<td>5,960</td>
<td>(430)</td>
</tr>
<tr>
<td></td>
<td>6%</td>
<td>5%</td>
<td>-7%</td>
</tr>
</tbody>
</table>

*Source: US Census Bureau*
Stagnant population growth and an aging workforce represent economic development challenges, since these will force businesses to be more aggressive in attracting workers. This suggests that efforts to retrain the existing workforce to support shifts into new and emerging industry sectors as part of on-going economic diversification planning will be required.

Employment sectors that offer the best potential for growth include producer services, information technology, biomedical, industrial machinery and services, food and materials processing and distribution, back office and outsourcing, and travel and tourism.

- Professional and technology establishments are potential users of business parks, particularly if relationships can be established with area research centers to help support growth in these sectors. These firms require both office space and specialized flex-building space for research and development activities. High-speed internet linkages are critical, and electric demand may also be high.

- Biomedical includes the manufacturing sector producing pharmaceutical, nutraceutical, and cosmeceutical products; research and development of physical, engineering, and life sciences; as well as medical equipment development and manufacturing. New or expanding firms in this cluster will most likely want to locate near research centers and existing campuses.

- Industrial machinery has been a mainstay of the region’s manufacturing base, but national trends suggest that this cluster is not expected to be a source of significant future employment growth. However, the labor force from this cluster provides an asset for diversifying the sector towards advanced manufacturing with industries that produce high technology goods or use advanced technologies to produce goods, such as SolarCity.

- Processing and distribution represent several industry sectors that combine to offer a dynamic relationship between processing facilities and the distribution network. These rank relatively low in terms of regional employment, but offer growth potential based on national trends. Sustaining and expanding these clusters will depend on a number of factors, one of which is a strong and integrated distribution network. Buffalo is well-located to become more of a logistics hub due to its access to rail, water, road, and air transportation systems. Increases in energy costs are fostering a resurgence of rail as a means of moving goods over long distances. The region occupies a strategic position on an international border, with the potential for developing logistics facilities.

- Back office and outsourcing includes telephone answering centers, telemarketing, and credit bureau operations. These uses could be readily integrated into a professional office park or within renovated commercial or industrial buildings. These types of jobs do not generally require a high skill level, so could potentially draw from the large number of service sector employees in the area.

- Travel and tourism is the third largest source of employment in the region. This cluster is one of the most diverse, encompassing accommodations; cultural, recreational, and amusement facilities; food service facilities; passenger transportation services; and travel-related retail sales.

**Real Estate Trends**

Based on data provided by CBRE, the industrial market in Erie and Niagara counties included an inventory of 64.7 million square feet in 2014. [Figure 3.6] Manufacturing uses occupied half of this inventory, with warehouses accounting for another 36 percent and flex space the remaining 14 percent. For 2014, net absorption totalled just over 900,000 sf. This led to a decline in the overall vacancy rate from 5.7 at the end of 2013 to 4.5 percent, which represents the lowest rate since 2005. The current vacancy rate among industrial buildings is less than half the national rate of 10.6 percent, which is the tenth consecutive year that the national market has been outperformed locally.

Just 88,000 sf of new industrial space was added in 2014, which is well below the average of 240,000 sf that has been added annually since 2000. The lack of new construction has had positive impacts, however, as tenants have been absorbing older, existing industrial space. The addition of 1.2 msf of space when Solar City is completed in 2016 will have a significant impact on the industrial inventory.

Only 14 percent of the region’s industrial inventory consists of owner-occupied buildings, indicating that supply is primarily driven by developers. As a result, new
construction will likely require pre-leasing or financial incentives, since speculative development will be limited due to slow projected employment growth over the near-term.

The city submarket, which encompasses the areas within the Scajadaqua and Kensington Expressways, contains 12.1 msf of industrial space, and had a 2014 vacancy rate of 3.0 percent, down from 6.3 percent in 2013. Over 400,000 sf was absorbed during the past year, leaving just over 360,000 sf available.

The land supply in Buffalo and the region is presumed to be adequate to support demand for new industrial construction. However, much of this land is not in premier locations, and will need upgraded infrastructure as well as financial incentives to compete with more marketable, shovel-ready locations such as Buffalo Lakeside Commerce Park.

Based on employment projections and targeted sectors, flex buildings and other small-scale spaces appear to offer reasonable industrial development potential. These types of facilities can be planned and developed incrementally, allowing the building supply to grow as market demand dictates. The city currently has only six percent of the regional inventory of flex buildings, but no vacancies within this sector.

Industry growth projections and anticipated support from state and regional agencies for businesses in these clusters suggests that they could provide a viable component of future land use. Flex buildings are also more easily integrated into mixed-use business parks since they are less obtrusive than traditional manufacturing facilities.
The availability of rail access is also likely to be a positive factor for supporting new construction, as well as the re-use of any remaining manufacturing and warehousing facilities, if regional economic plans to promote food and materials processing and multi-modal distribution facilities continue to receive support and incentives.

**Figure 3.7 Office market; 2014 Q4**

<table>
<thead>
<tr>
<th></th>
<th>Inventory</th>
<th>Available</th>
<th>Vacancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>26,951,000</td>
<td>3,766,000</td>
<td>14.0%</td>
</tr>
<tr>
<td>Class A</td>
<td>8,473,000</td>
<td>1,414,000</td>
<td>17%</td>
</tr>
<tr>
<td>Class B</td>
<td>12,794,000</td>
<td>1,685,000</td>
<td>13%</td>
</tr>
<tr>
<td>Flex</td>
<td>5,684,000</td>
<td>667,000</td>
<td>12%</td>
</tr>
<tr>
<td>CBD</td>
<td>9,129,000</td>
<td>1,713,000</td>
<td>18.8%</td>
</tr>
<tr>
<td>Class A</td>
<td>4,408,000</td>
<td>963,000</td>
<td>22%</td>
</tr>
<tr>
<td>Class B</td>
<td>4,569,000</td>
<td>750,000</td>
<td>16%</td>
</tr>
<tr>
<td>Flex</td>
<td>152,000</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>City</td>
<td>2,624,000</td>
<td>352,000</td>
<td>13.4%</td>
</tr>
<tr>
<td>Class A</td>
<td>797,000</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Class B</td>
<td>1,044,000</td>
<td>230,000</td>
<td>22%</td>
</tr>
<tr>
<td>Flex</td>
<td>783,000</td>
<td>122,000</td>
<td>16%</td>
</tr>
<tr>
<td>North</td>
<td>8,279,000</td>
<td>985,000</td>
<td>11.9%</td>
</tr>
<tr>
<td>Class A</td>
<td>2,117,000</td>
<td>404,000</td>
<td>19%</td>
</tr>
<tr>
<td>Class B</td>
<td>3,356,000</td>
<td>308,000</td>
<td>9%</td>
</tr>
<tr>
<td>Flex</td>
<td>2,806,000</td>
<td>273,000</td>
<td>10%</td>
</tr>
<tr>
<td>East</td>
<td>5,001,000</td>
<td>459,000</td>
<td>9.2%</td>
</tr>
<tr>
<td>Class A</td>
<td>809,000</td>
<td>18,000</td>
<td>2%</td>
</tr>
<tr>
<td>Class B</td>
<td>2,581,000</td>
<td>224,000</td>
<td>9%</td>
</tr>
<tr>
<td>Flex</td>
<td>1,611,000</td>
<td>217,000</td>
<td>13%</td>
</tr>
<tr>
<td>South</td>
<td>1,919,000</td>
<td>257,000</td>
<td>13.4%</td>
</tr>
<tr>
<td>Class A</td>
<td>342,000</td>
<td>29,000</td>
<td>8%</td>
</tr>
<tr>
<td>Class B</td>
<td>1,245,000</td>
<td>172,000</td>
<td>14%</td>
</tr>
<tr>
<td>Flex</td>
<td>332,000</td>
<td>56,000</td>
<td>17%</td>
</tr>
</tbody>
</table>

Source: CBRE

The regional office market had an inventory of approximately 27 million square feet in 2014, with almost half in Class B, 31 percent in Class A, and 21 percent in Flex. [Figure 3.7] Over the past several years the regional office market has been relatively stable from a vacancy perspective. The overall vacancy rate for all classes (A, B, and Flex) rose from 13.6 percent in 2013 to 14.0 percent in 2014. This places it in line with the national vacancy rate of 13.9 percent, which is its lowest level since 2008.

The city’s office inventory includes almost 11.8 msf, or 44 percent of the regional supply. Over three-quarters of the city’s inventory is located in the Central Business District, with over 9.1 msf. The CBD had a vacancy rate of 18.8 percent in 2014, which is an increase over prior years. Much of this can be attributed to One Seneca Tower, which currently has almost 900,000 sf of unleased space on the market, constituting over 90 percent of the city’s available Class A space.

The overall quality of downtown office space is improving through both new construction and redevelopment activity. Recently completed and ongoing projects at One Canalside, Catholic Health, Compass East, Conventus, and 250 Delaware indicate continued faith in this market.
The rest of the city outside the CBD performed well, with vacancies dropping from 16.0 percent at the end of 2013 to 13.4 percent in 2014. New projects in pockets such as the Larkin District have also led to an increase in rental rates. Suburban markets remain stable, with an overall vacancy rate of 11.2 percent, compared to a national rate of 15.5 percent in suburban locations. However, it’s been reported that some long-time tenants have begun to look at downtown as a feasible relocation option as leases expire.

While this market remains relatively strong, demand for new construction will be limited over the next few years. Based on recent absorption levels, the CBD has a 10 to 12 year supply of available space, and continued renovation of the existing inventory into higher quality space may lessen demand for new construction. Vacancy in the remainder of the city is currently 350,000 sf, but this predominantly Class B inventory will need to continue to offer competitive lease rates in order to sustain occupancy levels.

Given these market conditions, the demand for conventional office buildings is expected to be relatively modest. Competition for office development would come from existing and future development in the city’s Larkin District which is successfully attracting office and mixed-use projects.

The regional retail market had an inventory totaling approximately 26.6 million square feet in 2014. [Figure 3.8] This includes freestanding stores, shopping centers, and malls. The overall vacancy rate across all these facilities was 10.2 percent, which represents the lowest rate since 2000, and is below the national average of 11.5 percent. Across the region, net absorption over the past year increased by over 360,000 sf.

In contrast to industrial and office markets, the city contains less than 10 percent of the regional retail inventory. Retail in the city underperformed the rest of the region, with a vacancy rate of 16.4 percent, compared to 9.5 percent in suburban Erie County, and 11.0 percent in Niagara County. On the positive side, the Elmwood and Hertel shopping districts continued to do well, HarborCenter and One Canalside are bringing new retail to the city, and traditional retailers have begun joining bars and restaurants in expressing interest in the CBD.

However, the beneficial impacts of Canadian shoppers on local retail faces uncertainty. Some retailers around the

![Figure 3.8 Retail market; 2014 Q4](image)

**Figure 3.8** Retail market; 2014 Q4

<table>
<thead>
<tr>
<th>City</th>
<th>Inventory</th>
<th>Available</th>
<th>Vacancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>26,625,000</td>
<td>2,727,000</td>
<td>10.2%</td>
</tr>
<tr>
<td>Buffalo</td>
<td>2,087,000</td>
<td>341,000</td>
<td>16%</td>
</tr>
<tr>
<td>Boulevard</td>
<td>5,497,000</td>
<td>540,000</td>
<td>10%</td>
</tr>
<tr>
<td>Eastern Hills</td>
<td>4,065,000</td>
<td>221,000</td>
<td>5%</td>
</tr>
<tr>
<td>Galleria</td>
<td>5,454,000</td>
<td>611,000</td>
<td>11%</td>
</tr>
<tr>
<td>McKinley</td>
<td>5,402,000</td>
<td>560,000</td>
<td>10%</td>
</tr>
<tr>
<td>Niagara</td>
<td>4,120,000</td>
<td>454,000</td>
<td>11%</td>
</tr>
</tbody>
</table>

Source: CBRE

Galleria Mall and in Niagara County report that up to 40 percent of sales are to Canadians, but the exchange rate for the Canadian dollar is currently at its lowest level since 2004. This is being reflected in a decrease in border crossings between 2014 and 2015 – down 5 percent at the
Peace Bridge, 15 percent at the Rainbow Bridge, and 20 percent at the Whirlpool Bridge. If these shoppers decide to stay home, a significant portion of the regional retail market could be affected.

As a result, the demand for any sizeable square footage of additional retail is probably the most questionable among commercial uses. The CBD is the city’s strongest retail area, but it appears as though demand there will remain moderate in the near term, with renovated space offering more opportunities than new construction.

Some retail nodes could potentially be added at locations with highway access. These would not be totally dependent on local households for support, especially if prior levels of Canadian shoppers can be recaptured. Any new retail facilities offering general merchandise would likely be created at the expense of existing businesses, since total retail demand is not expected to increase substantially given the low projected growth in regional population and employment.

The residential market has remained stable regionally, with the median value for owner-occupied housing in Erie County rising from $88,200 to $131,800 between 2000 and 2014. The average annual increase has been between 2 and 4 percent, with only a few years where growth either exceeded or fell below this rate. In constant 2015 dollars, countywide values increased by 2.1 percent, going from $126,200 in 2000 to $132,700 in 2014. This compares to a national increase of 6.6 percent during this 14-year period. [Figure 3.9]

Countywide appreciation has been affected by declining values in the city. Suburban housing values increased by 3.9 percent in constant 2015 dollars, going from $134,900 to $140,100; but city values fell from $84,900 to $70,400, representing a decline of 17.1 percent. There were wide variations among city neighborhoods, however. Median values ranged from a low of $24,200 to a high of $347,100 in 2013 (the most recent year that figures are available at the census tract level); and some areas appreciated by up to 65 percent between 2000 and 2013, while others declined by over 50 percent in constant 2015 dollars.

Rental housing represents almost 60 percent of the city’s stock [Figure 2.2]. Among the almost 65,700 rental units that were on the market in 2014, 4,640 – or 7 percent – were being offered for rent or awaiting occupancy. While this is a bit higher than the 5 percent target that indicates a healthy balance between supply and demand (and much improved from the 14 percent figure in 2000), the citywide average again masks wide variations among neighborhoods. In some, apartment vacancies were under one percent in 2013; while in others the rate topped 10 percent, with a handful exceeding 20 percent.

The city issued building permits for 1,680 new housing units between 2000 and 2014, including 750 single-family and 930 multi-family units. [Figure 3.10] Yet Buffalo’s building activity represented only 7 percent of the 22,740 permits issued in Erie County during this period, meaning that over 13 units went up in the suburbs for every one built in the city. Permit activity has also been steadily declining in both the city and suburbs. While the city permitted an average of 287 units annually during the late 1990s, that number has dropped to an average of 88 since 2010. [Figure 3.11]
Compensating for this lack of new construction has been a rise in the number of units created through the adaptive reuse of non-residential structures. It is estimated that over the past decade more than 800 new rental units have been completed, and another 200 are in the planning or construction stages.

Census data indicates that the city experienced a net loss of 14,000 housing units between 2000 and 2014, a decrease of almost 10 percent of its stock. [Figure 3.2] Despite the removal of these abandoned units, the number of vacant housing units that are not being marketed for sale or rent still climbed from 7 to 11 percent during this period. It is unlikely that the current balance of over 15,000 vacant units – some of which have been pulled from the market by owners who do not wish to rent at this time, others that have been abandoned – can be absorbed in a region that continues to add 1,500 new suburban units annually.

As a result, demand for new residential development in the city will continue to be moderate, and limited regional population growth is not expected to result in any marked impacts on this trend in the near-term. Given the anticipated population changes over the next few years – where growth will be concentrated in the near-retirement and retirement age groups, with only modest increases in younger households – potential regional demand is likely to be focused within the following niches:

Senior housing: An estimated 7,000 households will be entering this market segment countywide over the next 10 years. Projected increases in income levels for these age groups suggest that they may be able to afford somewhat higher housing costs if they choose to downsize into a retirement-oriented living facilities.

Rental housing: An estimated 2,000 households will be added in the 25 to 34 age group over the next five years. Although this does not represent a huge increase in demand, the city currently has a larger share of its population in these age groups, and could build on this base.

Luxury housing: Although a small share the city’s housing market, high-end apartments and condominiums have met with success downtown and along the waterfront. Absorption is likely to remain slow, and may need to be part of a mixed-use development to attract private investment.
3.3 Buffalo River Corridor Trends

For this analysis, the BOA was extended to encompass the three neighborhoods that are located within or adjacent to its boundaries: Old First Ward, the Valley, and Seneca Babcock. [Map 3.1]

Like the city as a whole, the population of these neighborhoods peaked in 1950 and had declined by over 75 percent by 2000. [Figure 3.12] Between 2000 and 2013 (the most recent year for which neighborhood data is available) the population fell by another 14 percent, an even greater rate than the 11 percent decline citywide.

The number of households has also declined, but at a slightly lower rate than the population. This has resulted in a dramatic drop in average household size, which fell from 4.4 to 2.4 persons between 1950 and 2000. Household size has stabilized since 2000, which may be due to the increase in foreign-born residents (180 in 2000 and 400 in 2013), who are more likely to live in extended families.

Combined with this increase in foreign-born residents, the racial composition is also changing. In 1950, these neighborhoods were largely white, with just 12 percent of the population listed as either black or “other” race. The white share of the population had fallen to three-quarters of the total by 2000; and two-thirds in 2013. Blacks now make up over 20 percent of the population, and Latinos comprise another 12 percent.

Although educational attainment has improved over time, college graduation rates were well below citywide totals in 1950, 2000, and 2013. This is reflected in the median household income, which has been between 78 and 85 percent of the citywide median since 1950. On the plus side, in constant 2015 dollars, the median household income has actually increased by just under 5 percent over the past 60 years. The poverty rate increased from 28 to 31 percent during this period between 2000 and 2013, matching the citywide rate in both years.

The neighborhoods lost 4,750 housing units since 1950, a decline of 53 percent that far exceeds the 33 percent loss citywide. Occupancy has also fallen over this period, leading to a rise in the number of vacant units. Like the rest of the city, these neighborhoods had virtually no vacancies in 1950. With little housing built during the Great Depression and World War II, the immediate post-war years saw tremendous pressures placed on the existing stock.

Map 3.1 BOA neighborhoods
Bursting at the seams and with little developable land available, Buffalo began witnessing a massive shift of its population to the surrounding suburbs, which were experiencing a building boom. Yet as the suburbs grew, many city neighborhoods began to face increasing abandonment as residents moved away but were not replaced. The number of vacant housing units in the city not being marketed for sale or rent climbed from just 1,200 in 1950 to almost 10,000 in 2000, and added another 2,000 units by 2014. Within these neighborhoods, the number of vacant units went from 134 in 1950 to 724 in 2013, as the vacancy rate rose from less than 1 percent to more than 17 percent.

The median value of owner-occupied housing has been well below the citywide median. In 2000 it was 37 percent lower, and by 2013 was less than half as much as the citywide median. And like housing values citywide, the median fell by 36 percent between 2000 and 2013 when measured in constant 2015 dollars, compared to a citywide loss of 17 percent.

Two-thirds of renters in these neighborhoods paid between $300 and $800 per month in 2013, with a median rent of $540. Given the low household incomes, however, almost half of all renters paid more than half of their income for housing; and 30 percent were paying over half of their income for rent. Just 160 households (or less than 10 percent of all renters) had a monthly rent of $1,000 or more, but this may change with the recent development of market-rate units along the Buffalo River.

Due to high vacancies and relatively low rents and values, no new residential construction was completed in these neighborhoods between 2000 and 2012; but a pair of mixed-use developments are now underway along the Ohio Street corridor.

A five-story building at 301 Ohio Street will house two restaurants, 10,000 square feet of commercial space, and 21 market-rate apartments; and Buffalo River Landing at the intersection of Ohio and South will feature 78 market-rate units on the footprint of the former Erie Freight House.

### Figure 3.12 BOA demographic trends

<table>
<thead>
<tr>
<th>1950</th>
<th>2000</th>
<th>2009/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERSONS</td>
<td>38,900</td>
<td>9,000</td>
</tr>
<tr>
<td>Density</td>
<td>7,950</td>
<td>2,100</td>
</tr>
<tr>
<td>White alone</td>
<td>88%</td>
<td>74%</td>
</tr>
<tr>
<td>Black alone</td>
<td>12%</td>
<td>17%</td>
</tr>
<tr>
<td>Other races</td>
<td>0%</td>
<td>9%</td>
</tr>
<tr>
<td>Latino</td>
<td>NA</td>
<td>12%</td>
</tr>
<tr>
<td>Foreign born</td>
<td>13%</td>
<td>2%</td>
</tr>
<tr>
<td>College grads</td>
<td>1%</td>
<td>3%</td>
</tr>
<tr>
<td>Poverty rate</td>
<td>NA</td>
<td>28%</td>
</tr>
<tr>
<td>Median income</td>
<td>$24,200</td>
<td>$30,000</td>
</tr>
<tr>
<td>HOUSING UNITS</td>
<td>8,900</td>
<td>4,900</td>
</tr>
<tr>
<td>Occupied</td>
<td>8,800</td>
<td>3,800</td>
</tr>
<tr>
<td>Household size</td>
<td>4.4</td>
<td>2.4</td>
</tr>
<tr>
<td>For sale</td>
<td>&lt;1%</td>
<td>3%</td>
</tr>
<tr>
<td>For rent</td>
<td>&lt;1%</td>
<td>14%</td>
</tr>
<tr>
<td>Vacant</td>
<td>1%</td>
<td>15%</td>
</tr>
<tr>
<td>Homeowners</td>
<td>31%</td>
<td>43%</td>
</tr>
<tr>
<td>Median value</td>
<td>NA</td>
<td>$53,900</td>
</tr>
</tbody>
</table>

Source: US Census Bureau
The purpose of the inventory and analysis is to provide a better understanding of existing conditions; clarify the regulatory framework; recognize opportunities and potential barriers to redevelopment; and identify assets and opportunities that can leverage investments.

4.1 Natural Resources

Geology and Soils

Nearly all land in the BOA is underlain by 390-million-year-old Onondaga limestone bedrock. This solid, erosion-resistant formation spans New York State from Buffalo to Albany. The bedrock within a small area east of Elk Street is comprised of the Marcellus Formation, Oatka Creek Shale member. The depth to bedrock is generally 30 to 70 feet below grade.

The BOA is comprised entirely of lacustrine silt and clay, which are laminated layers of silt and clay deposited in glacial lakes historically found throughout New York State. Lacustrine silt and clay contains slightly impermeable soil, resulting in the potential for land instability on parcels not previously graded or sufficiently compacted. As most land has already been disturbed, concerns for future development resulting from the instability of the lacustrine silt and clay are relatively low.

According to the Soil Survey of Erie County, there are a number of distinct soil types within the BOA. Since limited site-specific information is available and on-site conditions can vary among properties, investigations will be needed to confirm site suitability prior to development.

The majority of soil is mapped as commercial (Ud – Urban Land). Most areas within this soil type have been significantly disturbed through previous residential, commercial, and industrial construction activities. In most cases, the soil is completely covered with buildings, paved surfaces, demolition fill, capped remediation areas, or other man-made materials. Areas in the BOA include landfills, former marshes, and floodplains. Careful onsite investigation is essential to determine the suitability and limitations for any proposed use.

The Buffalo River has served as a location for industrial development since the mid-1800s. These uses have dramatically altered the ecological function of the river, but it remains a critical natural resource. And while active commercial, industrial, and residential uses occupy the majority of the study area, numerous vacant sites and valuable environmental resources remain.

Large areas are covered with fill, generally near industry, urban development, or construction sites. These soils consist of various kinds of excavated earthy material that has been stockpiled for use as fill for topdressing; soil and rock material that has been trucked from other areas and leveled; or soil deposits that are left in areas that have been excavated or deeply scalped. In some places the fill is mixed with slag or cinders, in other places with concrete, asphalt, or other waste. These areas are generally near industrial complexes, rail yards, and rights-of-way. Cut and fill areas are usually poorly suited to farm or recreational uses, and onsite investigation is essential to determine the feasibility of using these areas for any purpose.

Several small pockets are mapped as Niagara silt loam soils (NfA), mainly around areas of O’Connell Street, South Park Avenue, Perry Street, and Bailey Avenue. This well-drained soil is composed of dark brown silt loam, and found in areas not significantly disturbed by urban development. While paved and previously disturbed portions of this soil series allow for future development; unpaved, undisturbed portions are generally ill-suited for construction due to the presence of weak, poorly drained soils.

The dump (Dp) soil type consists of excavations that are filled with rubbish and debris. Landfills are commonly constructed by removing the soil and dumping trash and refuse into an excavated area that can range from 3 to 50 feet in depth. The refuse is then covered or mixed with earth material. In historically industrial areas dumps can also contain industrial and toxic wastes. These dump sites can have a pungent odor, poor stability, and unsanitary effluents that make them undesirable for reuse. Onsite investigation is necessary to determine its reclamation value for any proposed uses. [Map 4.1]
Topography

The topography throughout the BOA is fairly level, with the exception of several ridges that traverse its central portion. The lowest point is along the Buffalo River, at an elevation of 571 feet above mean sea level. The highest point is located along a scenic ridge in Red Jacket Riverfront Park, at an elevation of 607 feet. Steep slopes are confined to the area around the ridges in Red Jacket Riverfront Park, as well as along several natural riverbanks. Portions of the Buffalo River shoreline contain concrete or steel bulkheads, resulting in a significant drop in elevation from the adjacent land.

Surface Water

The Buffalo River has played an integral part in the city’s history. From its headwaters in the towns of Sardinia and Concord, the river winds its way for 30 miles before emptying into Lake Erie. Prior to industrialization of the waterway, the geography of this section of the city was dominated by wetland marsh, with a river water draft less than five feet deep. Riparian zones were eliminated and replaced by hard seawalls for better access by boats, and wetlands were filled in order to be able to build the structures needed to capitalize on waterfront access. The early factories and mills that located along the river have contributed to the environmental degradation of this natural resource.

Today the Buffalo River is a navigable waterway. The US Army Corps of Engineers actively maintains a navigation channel that is dredged to a depth of 23-feet from Lake Erie to a point just west of the river’s confluence with Cazenovia Creek. The waterway is slow flowing and turbid, with low dissolved oxygen.

Current river conditions include inaccessible and degraded shorelines, a loss of natural wetland buffer and filtration, and compacted and compromised upland areas that generate storm water and overload the sewer system. Additionally, the loss of naturalized edges through seawall construction has removed breeding habitat for fish, and significantly impacted wildlife that depend on riparian zones.

The river is the final collection point in the Buffalo River-Frontal Lake Erie sub-watershed, which drains 165 square miles of land. This watershed has been impacted by upper watershed agricultural runoff, faulty septic systems, and sediments affected by historical industrialization.

The river is classified by the NYS Department of Environmental Conservation as a “Class C” water body, indicating that its best use is for fishing and fish, shellfish, and wildlife propagation and survival. The water quality is suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.
The City Ship Canal is located between Kelly Island and the Outer Harbor. It was constructed in 1850 to provide additional mooring and dock space. The canal was also used to transport goods from grain elevators to destination points across the country. It remains active, used by businesses such as General Mills, First Buffalo Marina, China Light Yacht Club, RCR Yachts Marina, and Port Crescent Land Company. The canal is classified by the NYSDEC as a “Class C” water body; and is part of the federally-designated Buffalo River Area of Concern.

**Groundwater**

An aquifer is an underground layer of water-bearing permeable rock, sand, gravel, or soil that contains extractable groundwater. According to the NYSDEC, no primary or principal aquifers are located within the BOA. The USEPA indicates that no sole source aquifers are located within the study area. The environmental assessment of a number of properties within and outside the BOA has determined that groundwater has been impacted by past industrial practices and petroleum spills; but there are no known uses of groundwater within the boundaries.

**Wetlands and Floodplains**

The City Ship Canal is the only federally-regulated wetland within the BOA; there are no state-regulated wetlands. Smaller, unmapped wetlands are present throughout, including areas of marshlands and ponds that provide highly valuable wildlife habitat. These ponded locations include areas along Red Jacket Riverfront Park behind the Valley Community Center.

According to FEMA mapping, the majority of the BOA is located in Flood Hazard Zone X, the 500-year flood inundation area where chances of flooding in a given year are minimal. The entire run of the Buffalo River, as well as the shorelines of parcels fronting it and the City Ship Canal, are located within flood hazard Zone AE. This means that these parcels are within the 100-year flood inundation area, and have a 1 percent annual chance of flooding. Parcels in Zone AE include General Mills, Red Jacket Riverfront Park, Buckeye Terminal, First Buffalo Marina, RCR Yachts Marina, and China Light Yacht Club. Flooding on many of these parcels has been mitigated by the installation of concrete bulkheads that extend above mapped flood elevations. [Map 4.2]

**Map 4.2 Wetlands and floodplains**
Erosion Hazard Areas
According to the city’s Draft Local Waterfront Revitalization Plan, there are no designated Coastal Erosion Hazard Areas within the BOA. Many properties along the Buffalo River corridor are protected from erosion by concrete bulkheads or riprap, but some portions of the stream banks are unprotected and subject to the possibility of future erosion.

Fish and Wildlife Habitats
Fish and wildlife habitat in the BOA is degraded due to development along the riverbank and routine navigational dredging. The Buffalo River is listed by the USEPA as a Great Lakes Area of Concern. To date, three habitat restoration projects have been completed in the AOC, and six more are underway or in the design phase.

The USEPA recently funded the development of the Buffalo River Ecological Restoration Master Plan, an actionable restoration plan that was developed through extensive stakeholder involvement. The ERMP identifies potential habitat restoration sites and activities that will make progress towards delisting the three habitat-related Beneficial Use Impairments possible. The ERMP identified five restoration sites: the cap area of City Ship Canal, the Ohio Street shoreline, the Katherine Street peninsula, Red Jacket Riverfront Park, and the Buffalo Color peninsula shoreline.

The Significant Coastal Fish and Wildlife Habitats program serves to protect important fish and wildlife habitats that contain a unique combination of environmental and biological conditions that fish and wildlife need for survival. No designated habitats are located within the BOA, although habitats are located to the west at the Times Beach Nature Preserve and the Small Boat Harbor.

Fish habitat is also degraded by navigational dredging that has created an over-widened, over-deepened channel lacking the natural pool/riffle regime. Some 41 native species of fish have been observed in the Buffalo River, including the longear sunfish and black redhorse, which are listed as “Species in Greatest Conservation Need.”

The river is also a key location within the North American Flyway for bird migration, and lies along the direct path of a globally significant Important Bird Area. Habitat areas along the water’s edge are crucial for many avian species as they pass through on their migration pattern.

The NYSDEC lists 15 endangered species that have historically inhabited the BOA. According to the US Fish & Wildlife Service’s Inventory of Threatened and Endangered Species, no federally-listed species are currently found in Erie County. Non-endangered wildlife typically found along the Buffalo River includes amphibians, snakes, and mammals.

The City Ship Canal also provides habitat for fish, amphibians, and invertebrates. Although it is an artificial channel, it has increasing value as a link between lake and river habitats, especially for waterfowl and fish in need of nesting, spawning, and resting places. Native shoreline and aquatic vegetation have naturalized the western edge of the canal south of the active industrial area.

Air Quality Maintenance Areas
Air Quality Maintenance Areas are places that “persistently exceed the national ambient air quality standards” in the Federal Clean Air Act. These areas are designated as “non-attainment” areas. The city is a designated non-attainment area, earning a “subpar” rating in 2011 due to ozone levels in excess of state and federal limits.

The Buffalo-Niagara region has been designated a non-attainment area 10 times since 2000, most recently in 2013. The region has experienced non-attainment status related to 8-hour ozone. Ground level ozone is emitted into the air through chemical reactions between nitrogen oxides and volatile organic compounds. Major sources of nitrogen oxides and volatile organic compounds include emissions from industrial facilities, gasoline vapors, and chemical solvents.

Visual Quality
Most of the parcels along the Buffalo River have been developed for industrial and commercial uses. The river and several sections of its bank offer natural view sheds; while cultural and historic view sheds are provided by a collection of historic grain elevators lining the river, some of which remain active today. Route 5 is part of the Great Lakes Seaway Trail, and provides picturesque views of Lake Erie, the Buffalo River, grain elevators, and the city skyline. A topographic ridge located in Red Jacket Riverfront Park also offers scenic views of the Buffalo River, Tifft Nature Preserve, and the Concrete Central Elevator.
Upland Natural Resources and Open Space

The BOA is primarily comprised of industrial, commercial, and residential properties; but also offers areas of important upland open space. Riverfest Park, the Ohio Street boat launch, Father Conway Park, Mutual Riverfront Park, and Red Jacket Riverfront Park are dedicated public spaces that preserve upland open space. A number of former industrial parcels, including several on the Katherine Street Peninsula, have also been left unmaintained over the past few decades and are undergoing the re-establishment of upland habitat.

4.2 Infrastructure

This section of the city was largely built-out by the early 1900s, and benefits from an infrastructure network that provides nearly complete coverage for electric, natural gas, water, and sewage disposal.

Electric

Mapping and system information for the privately owned and managed electrical distribution and transmission network was obtained from National Grid. The study area is serviced by several distribution feeders providing overhead and underground electrical service. According to system records, the city distribution network consists of 5 kV overhead and buried feeders. High voltage distribution and sub-transmission lines are located on the Katherine Street peninsula and along Ohio Street, where they connect to a transformer at the intersection of Childs Street. High voltage service continues along Childs to a private transformer serving the grain elevators at Silo City. The industrial nature of the BOA suggests sufficient access to electrical capacity for future redevelopment, although there have been reliability issues on Kelly Island. [Map 4.3]

Natural Gas

Correspondence with the engineering department at National Fuel indicated that all parts of the BOA are within sufficient distance of an existing supply main with available capacity to support future redevelopment.

Water

The Buffalo Water Authority provides potable water to properties in the city. Water is pumped from Lake Erie and treated and distributed at the Colonel Ward Pumping Station on Porter Avenue. The BOA is primarily supplied by public water lines ranging from 6 to 48 inches in diameter. The only private water service is a 12-inch line located along Childs Street that services Silo City.

Map 4.3 Electric Infrastructure
Properties in the BOA are fed from a 48-inch supply main that loops through the city and connects with numerous service mains. A 16-inch line travels along Ganson Street to Ohio Street, continuing south to a connection with a 16-inch line along Fuhrmann Boulevard. A 20-inch line along Louisiana Street supports development to the east and north of the Buffalo River. Two 10-inch mains along South Park Avenue and Elk Street service the area south to the Buffalo River. [Map 4.4]

**Sanitary Sewer**

The sanitary sewer system within the BOA includes separate sanitary sewers, combined storm/sanitary sewers, large interceptor sewers, and pump stations. Service within the city is provided by the Buffalo Sewer Authority, which operates a waste water treatment plant on Bird Island. [Map 4.5]

**Map 4.4 Water infrastructure**

![Map 4.4 Water infrastructure](image)

**Map 4.5 Sewer infrastructure**

![Map 4.5 Sewer infrastructure](image)
Separate Sanitary Sewers  The separate sanitary sewer system within the BOA consists of 2.3 miles of pipe ranging from 10 to 24 inches in diameter. These sewers convey flows to large interceptor sewers both within and outside the BOA, which direct the sewage north to the treatment plant. Separate sanitary sewers service limited areas of the BOA, including Kelly Island, the Katherine Street peninsula, and areas south of the Buffalo River.

Silo City is serviced by a 12-inch sanitary sewer along Childs Street. At 25 percent current use, this line has the capacity to service approximately 400 residential units or 1,000 hotel rooms. The Katherine Street peninsula is also serviced by a 12-inch sanitary sewer, with the capacity to service up to 1.5 million square feet of commercial/industrial space.

A 21-inch sanitary sewer services the southern portions of Ohio Street and the Rigidized Metals facility. At 50 percent current use, this sewer has the capacity to support an additional two million square feet of commercial/industrial space or 600 housing units. The Childs Street and Ohio Street sanitary sewers meet at a pump station at their intersection with Ganson Street, and continue northward through Kelly Island as a 24-inch sewer. Taking the existing development along Ganson Street into consideration, at 50 percent current use a 24-inch sewer has the capacity to service an additional 3.7 million square feet of commercial/industrial space.

The area west of the City Ship Canal and east of Route 5 currently has no sanitary sewer service. A potential connection to an 18-inch sanitary sewer along Fuhrmann Boulevard could provide this service. A preliminary analysis of the capacity of this sewer to carry flows from future development along the shoreline, in addition to flows from future development along City Ship Canal, indicates that it would support an additional 3 million square feet of retail/office space or 900 housing units.

Combined Sewers  Portions of the BOA also utilize a combined sewer collection system that conveys both sanitary and storm sewer flows through the same lines. The system receives sanitary inflows from adjacent development and storm water inflows from impervious surfaces such as streets, parking lots, and building roofs. Localized combined sewer systems transfer flows to interceptor sewers that gather waste from large portions of the city and convey it to the treatment plant on Bird Island.

During intense rain, the combined sewer and interceptor systems do not have the capacity to convey the significantly increased flows. To mitigate the lack of capacity in these instances, combined sewer outfalls are used to prevent storm water and sanitary sewage from back flowing into buildings.

The BOA is serviced by 6.5 miles of combined sewer, ranging from 8 to 72 inches in diameter. Apart from Katherine Street, all areas north of the Buffalo River are serviced by combined sewer. There are several areas where the combined sewer system is connected to a combined sewer outfall that empties into the Buffalo River, including Louisiana Street, Hamburg Street, Smith Street, Babcock Street, and Bailey Avenue. Connection to the combined sewer outfall indicates that the sewer service in this area is insufficient to meet peak demands during a rainfall event.

Combined Sewer Outfalls  Combined sewer outfalls are points where wastewater and storm water from a combined sewer system are discharged directly into surface waters. Generally these discharges occur without prior treatment during periods of heavy precipitation or snow melt. In the BOA, storm water carries pollutants from streets and properties and wastewater carries human waste and bacteria directly into the Buffalo River through the combined sewer system. CSOs are responsible for much of the water quality degradation in the river.

There are five CSOs located along the Buffalo River within the BOA. These CSOs drain roughly 4,350 acres, and experience an average of 255 overflow events annually. This situation is compounded by storm water and sewer overflows generated upstream of the BOA, in the watershed beyond the city limits.

CSO 026 is 16 by 12 feet, and follows Smith Street to an outfall on the Buffalo River. This concrete conduit gathers direct storm sewer inflows as well as combined sewer and interceptor sewer overflows. CSO 064 is 12 by 12 feet, and travels beneath Conway Park within the former Ohio Turning Basin to an outfall just west of Louisiana Street. Due to their large size and critical placement, these facilities are unlikely to be relocated, and should be noted on maps to avoid potential development conflicts.

Efforts have been undertaken over the past decade to improve water quality by reducing or eliminating combined sewer overflows. With its Long-Term Control Plan, the BSA will be able to reduce both the number and volume of overflow incidents. In addition to traditional grey infrastructure pipe separations, proposed projects include a host of green infrastructure initiatives.
Interceptor Sewers  A 9-foot diameter interceptor sewer enters the BOA from the east and travels along Elk Street, where it joins with a smaller branch from the Buffalo Color Complex and continues west along Perry Street as an 11-foot concrete box. Smaller interceptors are located along Louisiana and Hamburg streets. Similar to the combined sewer system, any additional inflows of storm water to these interceptors should be avoided to maintain maximum operating capacity of the sanitary system.

Pump Stations  The sanitary, combined, and interceptor sewers all flow underground largely via gravity. To overcome the extreme depths required for extended lengths of sewer, several pump stations are used to lift sewage from lower to higher elevations. There are three pump stations located along the Buffalo River – the Skyway Pump Station at the foot of Main Street; the Hamburg Pump Station at Hamburg Street and the I-190; and the South Buffalo Pump Station at the confluence of Cazenovia Creek and the river.

Storm Sewer

The storm sewer system is composed of separate storm sewers, combined sewers, storm overflow sewers, and storm sewer outfalls. Storm sewers are managed by the BSA, which has adopted a storm water management plan pursuant to state and federal requirements.

The areas of greatest need for storm sewers generally have the highest levels of impervious surface coverage. Impervious surfaces capture rainfall and convey it directly into the storm (or combined) sewer system, with an ultimate outfall to the Buffalo River. The areas with the most significant levels of impervious cover are Kelly Island, the Katherine Street peninsula, and the Buffalo Color and ExxonMobil/Buckeye complexes.

Separate Storm Sewers  There are 2.2 miles of separate storm sewers located within the BOA. More than half of this runs along Route 5, and is not currently servicing any private development. Small segments of separate storm sewers are located along Ohio and Louisiana streets, and another small area services the Buffalo Color complex. These storm sewers convey rainfall directly to the Buffalo River. In many instances, storm water is also conveyed directly to the river from adjacent properties, without the use of sewers.

Storm Sewer Outfalls  The Buffalo River is the only stormwater outfall location for significant portions of the city south of William Street. As a result, during large rainfall events significant flows of storm water and sewage enter the River, greatly diminishing water quality. There are three primary storm sewer outfalls within the BOA – at the foot of Louisiana Street by the Ohio Street Bridge; east of Hamburg Street at the New York Power Authority ice boom storage site; and beneath the rail bridge east of Red Jacket Riverfront Park.

Green Infrastructure

Green infrastructure seeks to recreate naturally occurring functions to generate positive impacts on energy use, air and water filtration, storm water management, and flood control and prevention. It includes components at multiple levels – from individual sites to neighborhoods to watersheds – each contributing to the sustainability of the natural network. The following are several green infrastructure and sustainable infrastructure developments that have occurred or are planned within the BOA.

Buffalo River Remedial Action Plan  This US Environmental Protection Agency plan outlines strategies to restore the health of the Buffalo River by building strong community partnerships to protect and restore shoreline buffers and habitat, secure public access, dredge the river, and provide public education. All of these measures contribute to broader public awareness and interest in green infrastructure strategies.

Buffalo River Greenway Planning  Greenway planning work has identified key environmental issues, trail connections, parks, conservation areas and community assets. The plans make recommendations for green infrastructure related to open space preservation in conjunction with implementation of the multi-purpose open space corridor.

Niagara River Riparian Restoration Program  This program seeks to develop forest buffers or other habitat features such as rain gardens, small-scale soft shoreline stabilization, meadows, and wetlands on waterfront properties along the Niagara and its tributaries. The goal is to restore ecological integrity for property closest to the water for habitat and increased filtration. Properties along the Buffalo River that have participated in the program include: China Light Yacht Club, RCR Yachts, and Buffalo Scholastic Rowing Association. Riparian restoration is a broad approach to green infrastructure and provides the ground-work for the development of smaller, neighborhood and site specific green infrastructure measures.

Buffalo Niagara Riverkeeper Water Quality Testing  The Riverwatch Team has been testing approximately 40
sites within the Niagara River watershed (including the Buffalo River). The goal is to monitor the waterways over a one-year period in order to develop a clear picture of where problem areas are located, and identify the time of year that is most problematic. Sites along the Buffalo River include: Buffalo River Commercial Slip, Ohio Street Fishing Access, Smith Street Park, the confluence with Cazenovia Creek, and Seneca Bluffs. The water quality tests are important to understand when developing plans for green infrastructure opportunities that improve water quality within the BOA.

**Niagara River Watershed Management Plan** Buffalo Niagara Riverkeeper is working in collaboration with dozens of municipalities and agencies and with individual citizen participation on the development of a Niagara River Watershed Management Plan to determine what needs to be done to protect and restore water resources in our community and the Niagara River watershed. The management plan serves as a foundation for the implementation of the green infrastructure Stormwater best practices.

### 4.3 Transportation

The BOA contains a comprehensive network of streets and sidewalks, making most points easily accessible by foot, bike, bus, or car. There are also a number of active rail lines; and the Buffalo River provides for both recreational boating and commercial shipping.

**Pedestrians and Bikes**

Buffalo has had a Complete Streets policy since 2008, to ensure that streets are designed to be safe, comfortable, and convenient for all users -- particularly cyclists, pedestrians, and the mobility impaired. As streets are reconstructed throughout the city, the impacts of this policy will become increasingly evident. [Map 4.6]

The city also completed a Bicycle Master Plan Update in 2016. This plan integrates cyclists’ needs into the city’s projects, policies, and programs; and planning, implementation, and maintenance of roadway, public works, and transit projects will include improvements to accommodate cyclists of all abilities. A well-connected bicycle infrastructure network will improve safety, the environment, public health, and quality of life; and make Buffalo a more affordable, economically competitive, and sustainable city.

**Public Transportation**

The BOA provides an extensive sidewalk network that connects residential neighborhoods such as the Valley and Old First Ward. These sidewalks also connect with a comprehensive network of sidewalks and pedestrian walkways extending beyond the BOA.

**Public Transportation**

The Niagara Frontier Transportation Authority operates eight bus lines within the BOA. These routes are located along Ohio Street, South Park Avenue, Elk Street, Bailey Avenue, and Seneca Street. There are a total of 36 bus stops, with the majority located near residential neighborhoods. Bus routes serving the BOA also connect with the city’s subway line, which parallels Main Street from downtown to the University at Buffalo South Campus. [Map 4.7]

**Roads**

The existing road network is classified into a hierarchy based on several factors, primarily road capacity and traffic volume. Local streets, arterials, and collectors comprise the majority of the road infrastructure in the BOA. There are also two high-volume, limited access highways:
Map 4.6 Pedestrian and bicycle infrastructure

Map 4.7 Public transportation
Interstate 190 runs east/west and has interchanges at Smith and Seneca streets; and State Route 5 runs north/south and has an interchange at Fuhrmann Boulevard.

Recent improvements to Route 5 include a new interchange at Ohio Street, which is located just south of the BOA. This provides direct access to Fuhrmann Boulevard and the southern portion of the Outer Harbor, as well as to the BOA along Ohio Street.

There is also a proposal for a Tifft Street Arterial, which would direct commercial traffic away from the I-190/Route 5 interchange downtown. This limited access roadway would connect with the I-190 at the Seneca Street interchange and travel south along an abandoned rail corridor to intersect with Tifft Street just south of the BOA. The proposal would require the construction of a new bridge over the Buffalo River.

Finally, there is an extensive network of truck routes throughout the BOA, to allow access to the many industrial and warehousing facilities. [Map 4.8]

**Rail**

The BOA is served by two Class I railroads – CSX Transportation and Norfolk Southern. Class I railroads are defined as having annual carrier operating revenues of at least $250 million. Other railroads operate facilities and use trackage in the BOA, including Amtrak, the Class II Buffalo and Pittsburgh Railroad, and the Class III Buffalo Southern Railroad and South Buffalo Railway.

Buffalo Junction Yard is a transfer location within the BOA, located beneath the I-190. Both CSX and Norfolk Southern interchange here prior to traveling to CSX’s Frontier Yard and Norfolk Southern’s Bison Yard. CSX also owns, operates, and maintains two drawbridges over the Buffalo River, both of which link to the Tifft Street Yard, a transfer location south of the BOA.

The extensive rail network offers opportunities to more effectively utilize existing lines, as well as to develop new ones. There are numerous industrial sites adjacent to existing rail lines or already connected by sidings or spurs; and abandoned rail corridors that could be put back into service. [Map 4.9]
Navigable Waterways

The Buffalo River and City Ship Canal are the primary navigable waterways within the BOA. The Army Corps of Engineers maintains the shipping channel for the Buffalo River from its mouth to the former Conrail Bridge south by the Buckeye Terminal, as well as the majority of the City Ship Canal. Both channels are maintained to a minimum depth of 22 to 23 feet below low water datum, although slightly deeper depths may occur in localized areas. Shipping channels are dredged every two to three years to remove accumulated sediment. [Map 4.10]

Headwalls  The shorelines of the Buffalo River and the City Ship Canal are comprised of headwalls of varying types and conditions. The shoreline is generally more natural or comprised of rip rap on the upstream portion of the river, with higher concentrations of wall structures or bulkheads in the downstream areas.

Bridges  There are two fixed highway bridges, three active road drawbridges, two active railroad drawbridges, and two inactive railroad drawbridges within the BOA. The two fixed highway bridges carry Bailey Avenue and Seneca Street traffic over the Buffalo River, while the three drawbridges are at Michigan Avenue, Ohio Street, and South Park Avenue.

The Michigan Avenue Bridge connects Kelly Island to the mainland, and has a 20-foot clearance over the Buffalo River when down, and 101 feet when raised. The Ohio Street Bridge has an 18-foot clearance when down, and 105 feet when raised; and the South Park Avenue Bridge has a 19-foot clearance when down, and 95 feet when raised.

The Michigan Avenue and Ohio Street bridges are raised an average of 1.5 times per weekday, with a slightly higher average on weekends. The typical operating time of a movable span is approximately eight to ten minutes. All drawbridge operations, whether for vehicular or rail traffic, are regulated and have specific requirements for operation times and advance notice periods.

The CSX Rail Drawbridge at River Mile 4.0 crosses between the Katherine Street peninsula and Red Jacket River Front Park, and provides about 18 feet of clearance when down. The Buffalo Creek Railroad Bridge at River Mile 4.4 has a clearance of approximately 12 feet.

CSX also owns the inactive drawbridge adjacent to the Buffalo Creek Railroad Bridge. Half the span is permanently locked in the upright position, while the other half is a fixed span, sitting 12 feet over the Buffalo River. A second inactive drawbridge, formerly known as the DL&W
Buffalo River Draw, is located at River Mile 5.8. The lift section of the bridge has been removed, leaving the fixed portion jutting out into the Buffalo River.

**Ship Traffic** Buffalo River shipping traffic is monitored by the United States Coast Guard, although the United States Department of Homeland Security, Immigration and Naturalization Service, New York State Department of Environmental Conservation, Erie County Sheriff, and Buffalo Police Department also monitor the waterway.

The average navigation season runs from April 1 to December 30. Travel out of the Buffalo River into Lake Erie may be prohibited during the winter, since no navigation channel is maintained when the lake is frozen. The river often freezes as well, although a small navigation channel is maintained for small craft travel and transport.

Regulations stipulate that all vessels requiring the Michigan Avenue drawbridge to be raised must have the assistance of a tug boat when approaching and passing the bridge. Commercial shipping to the upstream portion of the river beyond Mile 3.0 is infrequent, with only an occasional barge serving the Buckeye facility. Most of the commercial shipping is focused on General Mills, Pillsbury, LaFarge Cement, and sand storage at Port Crescent.

Buffalo River traffic is significantly influenced by recreational users, largely generated by private marinas lining the City Ship Canal and Outer Harbor areas. In 2010 the Erie Canal Harbor Development Corporation conducted a Moveable Bridge Lift Analysis Report, which summarized traffic trends. It indicated that less than 10 percent of the river traffic is designated as commercial, and that half the traffic is able to clear the Michigan Avenue and Ohio Street drawbridges in their closed positions.

**Map 4.10** Navigable waterways
4.4 Parks and Open Space

The BOA contains a number of parks, trails, water access points, and community centers that provide the public with open space opportunities, access to the river, recreational activities, and community services.

Parks

The BOA is home to five public parks and one community-maintained open space. [Map 4.11]

Riverfest Park is a privately-owned, publicly-accessible open space that also serves as the northern gateway to the Ohio Street corridor. The three-acre park sits along 600 feet of shoreline, and looks out over Kelly Island to give visitors a glimpse of Buffalo’s industrial past. It has paved walking trails that lead to a waterfront boardwalk and docks and slips on the river. It offers several seating areas, a band shell, and Tewksbury Lodge.

Father Conway Park sits on 15 acres between Ohio and Louisiana streets, to the southeast of Riverfest Park. It has a pair of softball diamonds used by recreation leagues, a playground, and several acres of open space. A comfort station is located adjacent to the playground, and there is parking across Louisiana Street.

Ohio Street Boat Launch is a DEC facility across the street from Father Conway Park, and provides access to the Buffalo River via a hand launch that accommodates canoes, kayaks, and row boats.

Mutual Riverfront Park is owned and operated by the New York Power Authority, and opened in 2012. It takes its name from the historic Mutual Boat Club that was located near the present site in the early 1900s. The park offers a number of amenities, including a museum and concession building, a boat storage facility, a non-motorized boat launch, a fishing overlook, riverfront promenade, and parking. It is adjacent to the site where the NYPA stores the ice boom when not in place.

Red Jacket River Front Park provides 44 acres of open space at the end of Smith Street, and is owned by Erie County and the NFTA. A former rail right-of-way and parking area for Concrete Central employees, it was purchased and remediated by Erie County in the 1990s. It includes a series of nature trails with benches that take visitors through various ecosystems, including marshlands, meadows, forests, and the riparian corridor of the river. Several interpretive exhibits are also located along the trails, detailing the history of Red Jacket, a Seneca chief. There is a kayak launch into the river and overlook areas for bird watching and fishing. A series of murals on the abandoned rail embankments celebrate the industrial, architectural, and natural history of the area.
Bailey Avenue Park is a city-owned two-acre parcel on the north shoreline of the river, just east of Bailey Avenue. Access is through the Communications Workers of America parking lot off Elk Street. It offers passive recreational opportunities and riverfront access.

Water Access

There are a number of water access points, most of which are located within designated parks. Hand launches at Riverfest Park, Ohio Street Park, Mutual Riverfront Park, and Red Jacket River Front Park provide opportunities for active recreation along the river.

RCR Yachts operates a marina on 14 acres of land along the City Ship Canal. It offers 125 floating boat slips, complete with potable water and electricity for visiting boaters; boat sales and repair services; and winter storage for approximately 300 boats. Marina users primarily access Lake Erie as opposed to the Buffalo River.

The Buffalo Scholastic Rowing Center is located just north of the Ohio Street Park. It is privately-owned, but operated by the Buffalo Scholastic Rowing Association. Completed in 2010, it serves as the base for many of the rowing programs in the Buffalo School District, as well as several adult rowing programs. The center offers a large canvas boat storage facility, and a boat put-in at the historic Ohio Street Canal. [Map 4.12]

Trails

Designated trails include the Fuhrmann Boulevard Parkway, Red Jacket River Front Park Nature Trail, and the private Buffalo Color Area D Access Trail. Opportunities exist to create an integrated trail system that ties into trails beyond the boundaries of the BOA.

The Shoreline Trail currently terminates to the west of Riverfest Park near the intersection of Ohio Street and Michigan Avenue. From this point, it extends north through Buffalo into the Tonawandas, and links up with a spur that runs along Scajaquada Creek to Delaware Park.

Making this short connection, along with one to the south along Ohio Street, would link the BOA to the entire waterfront trail system. Additional proposed trails include the Buffalo River Trail and the Heritage Trolley Line Trail. [Map 4.13]
4.5 Archeological and Historical Resources

Archaeological Resources

Locations near the confluence of Buffalo Creek (River) and Little Buffalo Creek would be considered highly sensitive if in non-urban settings. The intensive occupation by heavy industry since the late 1800s has likely disturbed the archaeological record across much of the BOA. Archeologically sensitive areas exist where past disturbances may be minimal or undocumented, such as west of the City Ship Canal and along isolated sections of the river’s northern shoreline. Development is not prohibited in these areas, but consideration may be required when a project involves state or federal funding, permitting, or approval.

Historical Resources

There are a number of properties that reflect the area’s heritage as a focal point of transshipment and industry. Properties listed or eligible for listing in the State or National Registers of Historic Places are afforded some protection under preservation laws, although development is not strictly prohibited.

The only property currently listed on the S/NRHP is the former E&B Holmes Machinery Company on Chicago Street, which was added in 2009. There are 11 additional properties that are eligible for listing, including seven grain elevators (Great Northern, Spencer Kellogg, Electric, American, Perot, Lake and Rail, and Marine A); three moveable bridges (Ohio Street and two rail); and a transshipment facility (the Truck/Transfer Building).

Among the historic resources, the grain elevators provide a unique opportunity for both reuse and promotion of the area’s industrial heritage. They comprise the greatest collection of extant grain elevators in the country; and collectively represent the variety of construction materials, building forms, and technological innovations that revolutionized grain handling. [Map 4.14]
Map 4.14  Historical resources

1  E&B Holmes Machinery Company
2  Spencer Kellogg Elevator
3  Great Northern Elevator
4  Ohio Street Lift Bridge
5  Truck/Transfer Building
6  Electric Elevator
7  American Elevator
8  Perot Malting Elevator
9  Lake and Rail Elevator
10  Marine “A” Elevator
11  Conrail Twin Railroad Bridge
12  Norfolk Southern Railroad Bridge
4.6 Land Use

The BOA covers 888 acres of land, with 134 acres taken up by right-of-way for streets and sidewalks. The remaining 754 acres have been subdivided into a variety of uses. Industrial is the most prevalent, covering almost 40 percent of the net land area. This encompasses a range of activities, such as chemical manufacturing, flour milling, and shipping. [Map 4.15]

Vacant land, which sometimes includes parcels with abandoned structures, accounts for 220 acres, and can be found throughout the BOA. Rail and utilities is the next most prevalent use, covering 14 percent of the land, largely due to the many active and inactive rail lines.

Residential uses account for only 35 acres, or about 5 percent of the land base. Most of this is located in the Old First Ward and Valley neighborhoods, although there are small, isolated pockets of housing scattered throughout the BOA. Although this is a small land use in terms of acreage, there are more residential parcels than any other kind in the BOA. Residential density averages about 10 units per acre, which supports a walkable community.

A distinguishing characteristic of the BOA is its relative discontinuity. The sweeping bends in the Buffalo River, combined with two separate north/south rail lines, make the study area a series of sub-distinct areas rather than an integrated whole.

Understanding the distribution and configuration of land ownership within the BOA is essential for making sound reuse decisions. Land ownership can be viewed from two perspectives: public versus private ownership, and large versus small parcels.

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[Map 4.15 Land use]
The majority of parcels within the BOA are privately-owned, indicating that redevelopment decisions will largely be based on market and financial considerations. Publicly-owned parcels are primarily either dedicated parkland or vacant lots that have been abandoned by prior owners and fallen to the city. Land for street right-of-way comprises another 92 acres; and 190 acres are covered with surface water. [Map 4.16]

Ownership and control of large parcels can facilitate redevelopment by reducing the need for land assembly. There are three public and 10 private property owners with holdings of 10 or more acres, although some of these parcels are parkland or contain deed restrictions. Combined, these large landowners control over 250 acres, or almost a third of the land in the BOA. [Map 4.17]
The highest concentration of large holdings is the area south of the Elk Street corridor, yet much of this land is not available for immediate redevelopment due to significant environmental constraints. Properties owned by Advance Metals Recycling, Buffalo Creek Property Group, and BOC Group may offer the best potential for a change in use based on their size and location along the riverfront.

Land in small parcels accounts for the remaining 67 percent of the BOA. Most of this land is categorized as either industrial or vacant, and most of the vacant land was previously industrial. Residential land constitutes the greatest number of parcels, but the total acreage is substantially smaller than that covered by industrial and commercial uses.

Due to the physical barriers that divide the BOA into distinct sub-districts, and the fragmented pattern of land ownership, the redevelopment of larger parcels is unlikely to have much of an impact on the reuse of smaller parcels.

The redevelopment of residential parcels within the Old First Ward and the Valley will likely be influenced by market trends beyond the boundaries of the BOA, where the bulk of these neighborhoods are located.

Pre-Green Code zoning was dominated by industrial classifications, with over 98 percent of the land currently zoned for such uses. Small residential and commercial zones are located in the Valley, but the rest of the BOA was designated as either M1-Light Industrial, M2-General Industrial, or M3-Heavy Industrial. [Map 4.18]

The majority of land was historically used for industry, and industrial zoning classifications often extended into residential areas to facilitate potential future expansion. With limited prospects for large-scale industrial expansion, the rationale for this policy no longer exists. Areas that have been out of active industrial use for years, or that encroach upon residential neighborhoods, have been re-examined to determine whether the zoning needs to be changed.
**Key buildings** are typically older, former industrial structures that are increasingly providing redevelopment opportunities. These structures were identified based on their location, current use, potential for contributing to area-wide revitalization, and anticipated redevelopment potential. [Map 4.19]

**Major commercial and industrial facilities** generally consist of active industrial operations on properties that may or may not be considered brownfields, and properties that may contain key buildings. These facilities were identified based on active site operations, revenue generated, and employment capacity, and include General Mills, ADM/Pillsbury, Rigidized Metals, Honeywell, Austin Air, and PVS Chemicals. [Map 4.20]
**Vacant structures** are properties that are either vacant or are not being utilized to their highest potential based on their location, zoning, and level of development. The nine vacant structures within the BOA includes historic grain elevators located along the banks of the Buffalo River that are no longer used to their designed capacity. Several at Silo City, and are strategically located for redevelopment.

**Vacant parcels** were initially identified through the NYS Office of Real Property Services classification codes, and refined through site evaluations. These sites may have recorded tax arrears or be in foreclosure. Within the BOA, the majority of the 68 vacant sites are concentrated along Ohio, Ganson, Katherine, and Elk Streets. [Map 4.21]

**Potential brownfields** may consist of active, vacant, or underutilized sites. As defined by the US Environmental Protection Agency, they include any real property where the expansion, redevelopment, or reuse is complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant. Brownfields are generally considered sites where previous operations have impacted the property’s environmental integrity. Many times these are large former industrial sites, but they may also include smaller commercial sites such as dry cleaners, gas stations, and auto repair shops. Brownfields can have a variety of adverse impacts on a community—signifying disinvestment, posing environmental and public health threats, and impacting the local economy.

The 58 potential brownfields within the BOA were identified based on a variety of databases, including the NYSDEC’s Remediation Site Database, Spills Inventory, and Bulk Storage Facility Database, as well as the USEPA’s Envirofacts database. In addition, windshield surveys were conducted to evaluate any apparent recognized environmental concerns that may indicate on-site contamination issues. [Map 4.22]

Brownfield areas consist of both actively used properties as well as vacant and abandoned properties. While vacant and abandoned properties offer greater opportunities in terms of redevelopment, the presence or perceived presence of contamination can impact the ability to redevelop a property due to required remediation, associated costs, and project timing.

Sites listed in one or more of the NYSDEC or EPA databases that have documented contamination issues or that have had environmental studies (Phase I/Phase II Environmental Site Assessments, Remedial Investigations) performed to confirm the presence of contaminants are included as brownfields. Environmental remediation activities have occurred at some of these sites, but contamination may still be present due to the method utilized to remediate the site (such as capping of contaminated sediments).
Among potential brownfield sites, 16 have known contamination. Vacant brownfields are scattered throughout the BOA, but not all are considered strategic from an area-wide redevelopment perspective. Following is a summary description of some key brownfields.

**PVS Chemicals** is a Class 2 NYSDEC State Superfund site. Since the 1900s, it has been actively used for chemical manufacturing, including the production of sulfuric acid, oleum and ammonium thiosulfate. Between 1930 and 1977, an unlined wastewater lagoon was used primarily for retention of production process waste-water. The installation of monitoring wells in 1982 and completion of Phase I and II Environmental Site Assessments in 1989 determined that contaminants in the lagoon had leached into on-site groundwater. Contaminants also migrated from the into the Buffalo River, impacting bottom sediment with the same chemicals identified in on-site groundwater. The plant remains active today and remedial investigations are ongoing. It is considered a brownfield, but not a strategic site for area-wide planning and redevelopment purposes.

**Buffalo Color Areas “A” & “B”** are Class A NYSDEC Brownfield Cleanup Program sites, which previously contained numerous process, administrative and maintenance buildings, process equipment, and chemical storage tanks. Site soil and groundwater is contaminated by petroleum, chlorinated solvents, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals. To date, several remedial activities have been undertaken on-site, including the installation of groundwater interceptor/extraction wells, the installation of a vertical hydraulic barrier around the site, demolition and removal of on-site buildings, abandonment/plugging of existing process/storm sewers, installation of a new storm sewer system, installation of a site-wide integrated cover system and the filing of an environmental easement limiting future use of the site to commercial/industrial. These sites remain vacant as remediation activities continue.

**Buffalo Color Area “D”** is located on a peninsula jutting south into the Buffalo River, and is a Class 02 NYSDEC State Superfund Program site. It was part of the historic Schoellkopf/National Analine/Buffalo Color Chemical Dye Plant complex that operated between 1879 and 2003. Operation of the plant resulted in metal sludge, process chemical, petroleum and organic compound contamination to on-site soil and groundwater. After on-site buildings were removed in 1984, remedial activities were undertaken to address soil and groundwater contamination issues. Remedial activities were completed in 1996 and included the installation of a slurry wall and impermeable cap around the contaminated property, extraction and treatment of contaminated groundwater, removal of contaminated sediments from the Buffalo River around the parcel and the installation of erosion protection measures along the bank of the Buffalo River. The property has renaturalized and no future development is expected.
**Buckeye Terminal** was once part of the Exxon-Mobil facility, and is a Class 03 NYSDEC State Superfund Program site. It was historically used by the city and Exxon-Mobil for dumping municipal waste, demolition debris, tank sediments, sewer sediments, soils containing asphalt, and general refuse. Phase I and II Environmental Site Assessments have identified high concentrations of lead and organic compounds. Remedial actions are currently being conducted under the Brownfield Cleanup Program. The property remains an active transshipment terminal for Buckeye Liquid Petroleum. If it were to be redeveloped, additional investigations would be required to determine whether substantial impacts occurred from operations following the above-referenced remediation activities.

**Exxon-Mobil/Panapinto property** is a Class A NYSDEC Brownfield Cleanup Program site. It was used continually for petroleum refining and storage between 1880 and 2006 and was significantly contaminated with SVOCs. Initial remediation activities included the removal of over 5,600 tons of contaminated soil, and the removal of 22 miles of subsurface process piping. Ongoing remediation activities will be focused on preventing migration of an existing subsurface contaminant plume. The vacant portions of the property will likely be available for redevelopment after remediation activities are completed.

**Safety Kleen** operates an active oil recovery facility with 13 petroleum bulk storage tanks on-site. It is a registered Large Quantity Generator of hazardous waste. The site was historically used to store PCB-contaminated waste oil, and was the subject of a 1994 settlement between NYSDEC and the property owner for improper handling of PCB-contaminated waste oil. The property is also the location of 37 registered waste oil spills between 1978 and 2011. Although this site is considered a brownfield, it is an actively operating site and not considered strategic.

**Sam’s Petroleum Sales & Service** is a Class A NYSDEC Brownfield Cleanup Program site, which was used as a gas station and vehicle repair shop until the 1990s. A Phase II Environmental Site Assessment conducted in 2010 confirmed that significant subsurface soil and groundwater contamination has occurred on the property. It is currently undergoing remediation under the Brownfield Cleanup Program.

**Sovereign Specialty Chemical** is a vacant former chemical manufacturing plant and tank farm that operated between 1924 and 2010, and was primarily involved in manufacturing solvents and adhesives. The property is a Class C NYSDEC Voluntary Clean-Up Program Site. It has historically been contaminated with VOC’s such as toluene, methyl ethyl ketone, and xylene. Portions with contaminated soils were excavated and replaced with clean fill. Contaminated soils and groundwater are continuously treated by a high vacuum extraction system and groundwater collection/treatment system that was installed in 2004. The property is currently vacant, and future redevelopment opportunities will be limited by the presence of site development controls, including a Deed Notice, Ground Water Use Restriction, Land-use Restriction, Monitoring Plan, O&M Plan, and Site Management Plan.

**Ameristeel** is a 19-acre parcel serving as an active motor vehicle junkyard and metal recycling facility. The site contained four large aboveground petroleum bulk storage tanks that have been closed and removed, but seven large tanks remain. The property had a series of hazardous material spills between 1993 and 1999. A large industrial fire in September 2011 resulted in a number of gas tank and vehicle explosions before being brought under control. The property is currently being marketed for sale to another recycling company.
The analysis of demographic characteristics and market potential, along with the inventory of assets, form the basis for establishing a vision for the Buffalo River Corridor. In undertaking this process, priorities must be set, since some land may not be development ready for many years. To ensure success that ultimately reaches all corners of the BOA, initial efforts need to create critical mass by focusing on targeted areas and strategic locations.

The goal of the Step 2 process is to develop an understanding of the BOA’s long-term potential, which can then be translated into the city’s proposed Land Use Plan and Unified Development Ordinance. These documents will guide the city’s development over the next 20 years, and are designed to make long-neglected areas more attractive to investment and redevelopment.

5.1 Alternative Scenarios

As the first step in this process, the consultant team prepared three alternative scenarios for guiding future development within the BOA. These were presented to the public to determine how much support there was for each. This feedback was then used to inform the city’s Land Use Plan and Unified Development Ordinance. Public input also assisted with the selection of strategic sites for further study under the BOA process.

To help frame the discussion of the alternative scenarios, a set of visioning directions and emerging principles were prepared:

Emerging Principles

- Restore and enhance the environmental quality of the river and make it an international success story.
- Expand and diversify the role of the river, and position it as an amenity for surrounding neighborhoods, the city, and the region.
- Safeguard the river as a working waterfront and balance the needs of existing water-based employers with emerging interests.
- Enhance waterfront access and reduce isolation within the BOA through new connections.
- Promote quality place-making by creating waterfront communities and business districts and attractions.

Visioning Directions

- The residential neighborhoods surrounding the BOA are important and should be strengthened.
- Significant historic resources exist and are a defining characteristic of the area.
- Emerging commercial strips serving local neighborhoods should be encouraged.
- Conflicting land uses have resulted in weakened neighborhood edges, and should be addressed.
Land and Water Based Logistics Scenario

- Rail, water, and transportation infrastructure creates logistics opportunities; and key waterside locations are preserved for water-dependent uses

- Park and river access improvements

- Modest riverfront community infill

- Trail development along former DL&W right-of-way

- Aquatic habitat restoration at key locations
Logistics facilities
Industrial Expansion and Diversification Scenario

- Builds on existing Elk Street Corridor Plan to accommodate a greater range of industrial uses, including flex industry
- Abandonment of waterside locations for water-dependent uses
- Riverside community infill
- Greater level of recreational and open space amenity
- Silo City provides a unique waterfront event and cultural destination
Flex industrial and warehousing and manufacturing.
Employment, Recreational and Cultural Scenario

- Greatest employment diversification

- Heritage Discovery District and Innovation Park complement existing Elk Street industrial uses

- Katherine Street boating and marine hub

- Riverside community infill, and development of former DL&W right-of-way as transit corridor

- Park and waterfront access, and expansion of Silo City as cultural attraction
Flex industrial and commercial R&D innovation hub
5.2 Community Feedback

Highlights from the input provided by residents who attended the open house include:

- Strong support for restoration of riparian habitats – at the foot of Kelly Island, on the Katherine Street Peninsula, and at other locations along the Buffalo River.

- Clear favor for Ohio Street as a strategic corridor both for the Old First Ward and as a connection between the Outer Harbor and Downtown. Housing, mixed-use development, and improvements to the public realm were all key elements of that vision.

- A mix of views on the reuse of the “Del” – a former rail right-of-way bisecting the Old First Ward. Some favored it as a multi-use trail, others as a transit route.

- Little attention to alternative concepts for the Elk Street corridor.

- “Industrial Expansion and Diversification” was the most favored scenario with 60 percent of votes; but the key to this support was expanded recreation and access, rather than industry.

- Both “Land and Water Based Logistics” and “Employment, Recreational and Cultural” were favored by 20 percent of participants.

<table>
<thead>
<tr>
<th>Land and Water Based Logistics</th>
<th>Industrial Expansion &amp; Diversification</th>
<th>Employment, Recreational &amp; Cultural</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Likes</strong></td>
<td><strong>Habitat restoration</strong></td>
<td><strong>Ohio Street public realm improvements</strong></td>
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<td></td>
<td><strong>Ohio Street public realm improvements</strong></td>
<td><strong>Katherine Street boating center</strong></td>
</tr>
<tr>
<td>Water-dependent uses along riverfront</td>
<td><strong>Katherine Street park</strong></td>
<td><strong>Ohio Street mixed-use</strong></td>
</tr>
<tr>
<td>Multi-use trails on former rail corridors</td>
<td><strong>Residential infill in neighborhoods</strong></td>
<td><strong>Red Jacket Park expansion</strong></td>
</tr>
<tr>
<td>Ohio Street residential</td>
<td><strong>Silo City cultural attractions</strong></td>
<td><strong>Rail / trolley extension</strong></td>
</tr>
<tr>
<td>Elk Street logistics</td>
<td><strong>Elk Street corridor</strong></td>
<td><strong>Elk Street distribution hub</strong></td>
</tr>
<tr>
<td>Residential infill in neighborhoods</td>
<td><strong>Pedestrian bridge to South Buffalo</strong></td>
<td><strong>New bridges</strong></td>
</tr>
<tr>
<td>Red Jacket Park expansion</td>
<td><strong>Multi-use trails on former rail corridors</strong></td>
<td><strong>Expanded R&amp;D cluster</strong></td>
</tr>
<tr>
<td>Katherine Street water-dependent uses</td>
<td><strong>Train museum</strong></td>
<td><strong>Residential connecting OFW to downtown</strong></td>
</tr>
<tr>
<td><strong>Dislikes</strong></td>
<td><strong>Industrial uses on Katherine Street</strong></td>
<td><strong>Buildings on river side of Ohio Street</strong></td>
</tr>
<tr>
<td>Industrial uses on Katherine Street</td>
<td><strong>Industrial uses on Katherine Street</strong></td>
<td><strong>Buildings on river side of Ohio Street</strong></td>
</tr>
<tr>
<td>Residential infill along riverfront</td>
<td><strong>Non-water dependent uses</strong></td>
<td></td>
</tr>
<tr>
<td>Industrial infill</td>
<td><strong>Industrial uses at Silo City</strong></td>
<td></td>
</tr>
<tr>
<td>Water-dependent uses</td>
<td></td>
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</tbody>
</table>
As the final component of the Step 2 process, the consultant team and city took the community feedback that was provided for the alternative scenarios, and translated these into land use and zoning recommendations. These represent the core elements of Buffalo’s proposed Green Code, which employs a place-based planning approach to address issues of form and character.

In addition to the public input received during the BOA process, nearly 1,000 residents attended separate Green Code meetings that were held at various locations throughout the city. The resulting land use and zoning recommendations reflect this input, along with the city’s existing and desired development character, and the market trends that drive investment.

The land use and zoning recommendations proposed for the BOA will provide guidance for the next 20 years. These designations generally offer more flexibility than the existing zoning. The Green Code is designed to lay the foundation for future development, so that the market can determine what investments make sense and where, within the parameters agreed upon by the community.

It is expected that this approach will be more adaptable and encourage greater levels of private investment. The result of this planning process will be a Buffalo River Corridor that balances its remaining manufacturing sites with emerging employment, recreational, and natural uses that will increasingly drive its future.

**Place-Based Planning**

The conventional approach to land use planning and zoning divides places into mutually exclusive single-use zones. Place-based planning takes a different approach by addressing form and character, recognizing that great places typically have a mix of uses—residential, retail, office, civic, recreational, and natural—that make neighborhoods lively, interesting, and safe.

To initiate this planning process, historic development patterns were evaluated in the Buffalo River Corridor and across the city. Legal records indicated when different areas were subdivided and developed, and property maps showed street patterns and lot sizes. Windshield surveys then provided measurements of development character such as building setbacks and heights, uses, design characteristics at an even greater level of detail.

The existing neighborhood fabric—buildings, parks, streets—provides the foundation for future development, and was an important factor in assigning place types. The proposed place types were ultimately determined by a combination of three factors: what existed in the past, what is there now, and what residents indicated they wanted their neighborhoods to become.

Buffalo’s land use pattern is built around three distinct place types:

- **Neighborhoods**
  - Downtown neighborhoods house a range of uses—offices, shops, restaurants, theaters, and apartments—with structures that are built to the sidewalk. They work best when there is activity on the ground floor that attracts pedestrians and keeps streets safe. Examples include the Central Business District and secondary employment centers such as the Larkin District and Niagara Street in Upper Rock.
  - Central neighborhoods are Buffalo’s oldest, first developed in the 1800s and mostly adjacent to downtown and the waterfront. The lots are
small—typically 25 to 35 feet wide. Homes are close together and setbacks from the street minimal. Mixed-use, walkable centers are dense and have an array of uses in smaller buildings. Examples include Black Rock, Fruit Belt, and Old First Ward.

- Streetcar neighborhoods were developed along streetcar lines at the turn of the 20th century, have strong mixed-use centers at their cores, and are located near the outskirts of the city. These neighborhoods have slightly larger lots—typically 35 to 50 feet wide. Homes have more space between them with deeper setbacks, and building heights rarely exceed three stories. Examples include Kaisertown, Riverside, and University Heights.

- Edge neighborhoods are characterized by large lot sizes, spacious front yards, and single-family homes, often developed around parks and parkways. While they contain no retail activity, they are usually within walking distance of denser neighborhoods with a mix of commercial uses. Examples include Central Park, Kensington Heights, and Rebecca Park.

**Districts** are single-use areas such as employment centers or green spaces, where development patterns were created specifically for that use. There are three basic types, each with a pre-dominant use. Although districts are often separate from the prevailing street grid, their structure parallels the adjacent neighborhoods, sometimes with an identifiable focus that provides orientation, identity, and clear boundaries.

- Open space districts include natural conservation areas such as Tifft Nature Preserve; the Olmsted Park and parkway system; parks such as Unity Island and Tow Path; and civic spaces such as Market Square Park.

- Campus districts can be residential, medical, or educational. They function separately from surrounding activities, and are often served by an internal circulation system apart from the adjacent street grid. Examples include Shaffer Village, Marine Vista, Erie County Medical Center, and Buffalo State College.

- Employment districts include auto-oriented shopping centers, office parks, and light and heavy industrial facilities. They are often separated from, but within walking or transit distance of, residential neighborhoods. Examples include Delaware Consumer Square, the Free Trade Zone, and Aurubis.

Corridors are linear connections that form the borders of and connect neighborhoods and districts. Corridors are composed of natural and man-made components, including waterways, trails and green spaces, limited access highways, and rail lines.

- Transportation corridors have long been organizing elements for the city, serving as both connectors and boundaries that define neighborhoods. Examples include active rail lines and the Metro Rail.

- Waterfront corridors are bodies of water that connect neighborhoods, industrial areas, and employment centers. They also define the edges of neighborhoods and give identity to the city. Examples include Lake Erie, the Buffalo and Niagara Rivers, Black Rock Canal, and Scajaquada and Cazenovia Creeks.
Proposed Place Types

By applying these place-based planning principles, the entire city was mapped by place type. All of the city’s 90,000 parcels (including over 700 in the Buffalo River Corridor) were assigned a specific place type. This allowed residents and stakeholders to establish goals tailored for each, while encouraging mixed-use places with a combination of functions—the foundation for creating walkable neighborhoods and employment centers.

The Buffalo River Corridor BOA will remain dominated by employment uses—primarily light and heavy industrial. There is very little residential within the BOA, but parts of two established neighborhoods—the Old First Ward and Valley—which are largely zoned as manufacturing under the existing zoning, will be preserved as mixed-use neighborhoods to protect them from future encroachment.

Kelly Island on the west side of Ganson Street will be zoned heavy industrial, to protect the existing operations of General Mills and ADM/Pillsbury. The east side of Ganson will largely be light industrial, to recognize the transitions that have begun with the development of RiverWorks and investments that are taking place across the Buffalo River along Ohio Street.

The Ohio Street corridor has been zoned to permit fairly intensive mixed-use development, to take advantage of its emerging role as a primary connection between downtown and the Outer Harbor.

Silo City will remain light industrial, which will provide the flexibility to accommodate a variety of uses. The Katherine Street peninsula is divided between light and heavy industrial, based on the needs of long-term occupants and the potential for conflicts and poor access if portions were zoned for additional open space.

### N-1D: Downtown Hub

Within walking distance of Main Street, and directly accessible to Metro Rail service and several Metro Bus lines.

Able to support high densities, with building heights that exceed the width of the adjacent right-of-way. New construction should be at least four stories, to protect the scale and character of the neighborhood and support a range of transportation options.

Appropriate for an intense mix of residential and commercial uses, to encourage all-day pedestrian activity as the regional center.

On blocks of between 200 and 400 feet.

### N-1C: Mixed-Use Core

Accessible to either Metro Rail or more than two high-frequency Metro Bus lines.

Able to support higher densities, with building heights that match the width of the adjacent right-of-way. New construction should be at least two stories, to protect the scale and character of the neighborhood and support a range of transportation options.

Appropriate for an intense mix of residential, commercial, and industrial uses, to encourage pedestrian activity.

On blocks of between 200 and 400 feet.

### N-1S: Secondary Employment Center

Accessible to at least one high-frequency Metro Bus line.

Located in an industrial heritage area of significant density, with warehouses and factories developed in clusters adjacent to road or water shipping routes.

Able to support high densities, with building heights of up to six stories.

Occupied by industrial structures that are appropriate for redevelopment into an intense mix of industrial, commercial, and residential uses.

Amenable to design standards contributing to the reuse of heritage structures, without imposing an unreasonable burden on industrial uses.

On blocks of up to 1,200 feet.
### N-2C: Mixed-Use Center

Accessible to at least one high-frequency Metro Bus line.

Located along a neighborhood main street, characterized by small-scale, mixed-use buildings placed close to the sidewalk and designed for pedestrian access.

Able to support density at a human scale, with buildings of up to four stories. New construction should be at least two stories, to protect the scale and character of the neighborhood and support a range of transportation options.

Appropriate for development as a consistent streetscape of pedestrian-oriented shop fronts.

Amenable to design standards promoting walkability to attract pedestrian activity and boost retail sales.

On blocks of between 200 and 400 feet.

### N-2E: Mixed-Use Edge

Accessible to at least one Metro Bus line.

Located at less intensely developed areas, where a diverse set of building types and setbacks reflects a mixed residential and commercial character.

Able to offer a transition between a neighborhood main street and principally residential areas.

Able to support density at a human scale, with buildings of up to four stories.

Amenable to design standards promoting walkability, while providing flexibility to respond to a more residential context.

On blocks of up to 800 feet.

### N-2R: Residential

Located in a predominantly residential area with a variety of housing options (single-family to multi-family), occasional civic structures (schools, places of worship), and mixed-use buildings on corner lots.

Able to support density at a human scale, with buildings of up to three stories (four stories along frequent transit routes).

On lots of between 18 and 60 feet.

On blocks of up to 800 feet.

### N-3C: Mixed-Use Center

Accessible to at least one high-frequency Metro Bus line.

Located along a neighborhood main street, characterized by small-scale, mixed-use buildings placed close to the sidewalk and designed for pedestrian access.

Able to support density at a human scale, with buildings of up to three stories. New construction should be between one and three stories, to protect the scale and character of the neighborhood and support a range of transportation options.

Appropriate for development as a consistent streetscape of pedestrian-oriented shop fronts.

Amenable to design standards promoting walkability to attract pedestrian activity and boost retail sales.

On blocks of between 200 and 400 feet.
### N-3E: Mixed-Use Edge

Accessible to at least one Metro Bus line.

Located at less intensely developed areas, where a diverse set of building types and setbacks reflects a mixed residential and commercial character.

Able to offer a transition between a neighborhood main street and principally residential areas.

Able to support density at a human scale, with buildings of up to three stories.

Amenable to design standards promoting walkability, while providing flexibility to respond to a more residential context.

On blocks of up to 800 feet.

### N-3R: Residential

Located in a predominantly residential area with a variety of housing options (single-family to multi-family), occasional civic structures (schools, places of worship), and mixed-use buildings on corner lots.

Able to support density at a human scale, with buildings of up to three stories.

On lots of between 30 and 75 feet.

On blocks of up to 800 feet.

### N-4-30: Single Family

Located in a predominantly single-family residential area, with occasional civic structures and no mixed-use or commercial buildings.

Able to support density at a human scale, with buildings of up to three stories.

On lots of between 30 and 75 feet.

On blocks of up to 800 feet.

### N-4-50: Single Family

Located in a predominantly single-family residential area, with occasional civic structures and no mixed-use or commercial buildings.

Able to support density at a human scale, with buildings of up to three stories.

On lots of at least 50 feet.

On blocks of between 800 and 1,200 feet.
<table>
<thead>
<tr>
<th><strong>D-OS: Square</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Intended for a formal public square, designed as a largely hardscape area.</td>
</tr>
<tr>
<td>Less than two acres.</td>
</tr>
<tr>
<td>Appropriate for an intense mix of civic and commercial uses, to support a lively public realm.</td>
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<thead>
<tr>
<th><strong>D-OG: Green</strong></th>
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</thead>
<tbody>
<tr>
<td>Intended for a formal civic green, often identified as a public park.</td>
</tr>
<tr>
<td>Appropriate for some civic and commercial uses, in support of its primary use as a public space.</td>
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</tbody>
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<thead>
<tr>
<th><strong>D-ON: Natural</strong></th>
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</thead>
<tbody>
<tr>
<td>Intended to be set aside as protected areas principally used for the conservation of natural habitat.</td>
</tr>
<tr>
<td>At least a quarter acre.</td>
</tr>
<tr>
<td>Characterized by wetlands, flood plains, or sensitive habitats.</td>
</tr>
<tr>
<td>Inappropriate for intensive use by the public, and appropriate only for passive recreation that is compatible with natural habitat.</td>
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</tbody>
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<thead>
<tr>
<th><strong>D-R: Residential Campus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Located in a predominantly residential area, usually under single ownership, with occasional civic and commercial uses that support campus residents.</td>
</tr>
<tr>
<td>Able to support a range of building types and heights.</td>
</tr>
<tr>
<td>On blocks of up to 1,200 feet.</td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>D-E: Educational Campus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Located within an integrated college or university campus with clearly defined boundaries.</td>
</tr>
<tr>
<td>Directly accessible to Metro Rail or at least one high-frequency Metro Bus line.</td>
</tr>
<tr>
<td>Able to support high densities, with buildings of up to six stories (12 stories with special review).</td>
</tr>
<tr>
<td>Appropriate for an intense mix of residential and commercial uses to support campus development.</td>
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</tbody>
</table>

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<thead>
<tr>
<th><strong>D-M: Medical Campus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Located within an integrated medical or research campus with clearly defined boundaries.</td>
</tr>
<tr>
<td>Directly accessible to Metro Rail or at least one high-frequency Metro Bus line.</td>
</tr>
<tr>
<td>Able to support high densities, with buildings of up to six stories (16 stories with special review).</td>
</tr>
<tr>
<td>Appropriate for an intense mix of residential, commercial, and industrial uses to support campus development.</td>
</tr>
<tr>
<td><strong>D-S: Strip Retail</strong></td>
</tr>
<tr>
<td>----------------------</td>
</tr>
<tr>
<td>Located at a highway interchange or along a major arterial with little or no on-street parking.</td>
</tr>
<tr>
<td>Developed for large-scale retail establishments that draw upon markets beyond the immediate neighborhood.</td>
</tr>
<tr>
<td>Appropriate for an intense mix of residential and commercial uses, but not for industrial uses.</td>
</tr>
<tr>
<td>Over 10,000 square feet in area, and more than 200 feet deep.</td>
</tr>
<tr>
<td>On blocks of up to 1,200 feet.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>D-C: Flex Commercial</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Located at a highway interchange, along a major arterial with little or no on-street parking, or along a truck route.</td>
<td></td>
</tr>
<tr>
<td>Identified as an appropriate transition area between industrial and residential zones.</td>
<td></td>
</tr>
<tr>
<td>Appropriate for a mix of uses, including industrial in some cases.</td>
<td></td>
</tr>
<tr>
<td>Over 10,000 square feet in area, and more than 200 feet deep.</td>
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<tr>
<td>On blocks up to or exceeding 1,200 feet.</td>
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<thead>
<tr>
<th><strong>D-IL: Light Industrial</strong></th>
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<tbody>
<tr>
<td>Appropriate for light industrial uses.</td>
<td></td>
</tr>
<tr>
<td>Accessible to a truck route, rail or water</td>
<td></td>
</tr>
<tr>
<td>Over 10,000 square feet in area, and more than 200 feet deep.</td>
<td></td>
</tr>
<tr>
<td>On blocks up to or exceeding 1,200 feet.</td>
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<tr>
<th><strong>D-IH: Heavy Industrial</strong></th>
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<tbody>
<tr>
<td>Appropriate for heavy industrial uses, without reasonable likelihood of producing conflicts with established uses nearby.</td>
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</tr>
<tr>
<td>Buffered from residential neighborhoods by either distance or a rail, highway, or water barrier.</td>
<td></td>
</tr>
<tr>
<td>Accessible to a truck route, rail or water.</td>
<td></td>
</tr>
<tr>
<td>Over 10,000 square feet in area, and more than 200 feet deep.</td>
<td></td>
</tr>
<tr>
<td>On blocks up to or exceeding 1,200 feet</td>
<td></td>
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</tbody>
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<thead>
<tr>
<th><strong>C-R: Rail</strong></th>
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<tbody>
<tr>
<td>Owned by an entity that actively provides intercity freight or passenger rail service, or that previously provided service but maintains importance as a rail link.</td>
<td></td>
</tr>
<tr>
<td>Considered critical to supporting transportation access, and set aside and protected exclusively for that use.</td>
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</tbody>
</table>
Elk Street is also divided between light and heavy industrial. Between Elk and the river, parcels are zoned for heavy industry, in recognition of existing occupants and the limited potential for cleaning these sites to accommodate residential or commercial development, or active open space uses.

Some of the residential streets that run north/south between Elk and the I-190, with limited amounts of housing left, have been rezoned to light industrial to allow for future expansion of employment uses as these neighborhoods continue to empty out.

A small area near the intersection of Elk and Bailey, and with frontage on Seneca Street, has been dedicated to strip retail, to take advantage of proximity to I-190 interchanges at Elk and Seneca.

Finally, open space has been identified and formally designated throughout the BOA, to take advantage of key waterfront locations, and to allow previously contaminated lands to regenerate naturally. [Map 5.1]
Three strategic locations were identified within the BOA: Kelly Island, Ohio Street, and Elk Street. These were considered strategic due to a combination of factors including location, current land uses, proximity to transportation, environmental conditions, and redevelopment potential.
6.1 Kelly Island

Kelly Island has traditionally been an industrial center of the city, housing such enterprises as American Ship Building, American Steamship, Grange League Federation, General Mills, and Pillsbury. The area is no longer exclusively dedicated to industrial activities, however, as the development of Riverworks and increased recreational use of the Buffalo River have both impacted traditional uses.

In order to ensure the continued operation of long-term tenants, while ensuring the safety of patrons of new venues, the city assembled a steering committee of stakeholders to examine how Ganson Street and Kelly Island could serve both.

Stakeholder issues

- Don’t narrow Ganson Street, as was done with Ohio Street; trucks need entire street width to turn in and out of properties
- There is little parking enforcement on Ganson; trucks often illegally park or idle for long periods
- Focus bicycle and pedestrian traffic along the waterfront
- Simple infrastructure improvements needed: curbs, sidewalks, paving, striping, signage, and a barrier between the street and rail line
- Major infrastructure improvements to consider: burying utilities, lighting improvements, electrical capacity, and storm sewer system upgrades
- Majority of conflicts occur at intersection of Michigan and Ganson; this needs to be redesigned to improve safety and reduce confusion
- Events at RiverWorks have not caused significant problems; police presence and other event planning have minimized conflicts
- Worried about potential traffic volumes with increase in crowds attending RiverWorks events
- Most existing industrial operations have become comfortable with RiverWorks’ events and operations

The steering committee met as a group, and stakeholders were interviewed individually as well, to come up with recommendations for public improvements to the Ganson Street corridor.

The steering committee was composed of representatives from all landowners on Kelly Island: ADM, Burnett Trucking, Ellicott Development, General Mills, LaFarge, Riverworks, and St. Mary’s Cement.
Existing Conditions
Goals and Principles

- Preserve current street width to accommodate truck turning movements
- Utilize best contemporary practices for street design to preserve and enhance circulation
- Increase bicycle and pedestrian safety and access to the riverfront
- Minimize conflicts associated with privately-owned properties
- Re-purpose underutilized spaces
- Design (physical and cost) flexibility for short-term implementation strategies that are compatible with long-term goals and mix of land uses
Proposed Improvements
Short-term Priority Projects

1. Ganson Street Right-of-Way Improvements
   - Road striping: two 12-foot travel lanes; one 12-foot buffer lane
   - Wayfinding and destination signage
   - Targeted sidewalk improvements
   - Consolidation of curb-cuts

2. Rail Barrier/Screening + Green Infrastructure
   - Roadside bioswale
   - Green wall barrier/screening
   - Access gates at curb-cut entrances to industrial properties on west side of Ganson

3. Michigan Avenue / Ganson Street Intersection Improvements
   - Road striping: two 12-foot travel lanes; one 2-foot cycle track buffer
   - Relocate stop signs: move stop sign on Michigan approximately 80 feet to the east; move stop sign on Ganson approximately 35 feet to the south
   - Enhanced crosswalk: elements include continental striping, push for cross button, lights embedded into pavement that light up when push for cross button is applied, yield to pedestrians in crosswalk signage
   - Rebuild sidewalk
   - Wayfinding and destination signage

4. Michigan Avenue / Michigan Avenue Bridge Improvements
   - Intersection improvements: position pedestrians and bicyclists towards desired facilities on Kelly Island and along Ohio Street, to reduce the number of interactions and potential conflicts with trucks and industrial operations.
Mid-term Projects

4. Michigan Avenue / Michigan Avenue Bridge Improvements
   • Waterfront path along bridge and around St. Mary’s property (platform + easement)
   • Waterfront path along RiverWorks and Ellicott Development properties

Long-Term Projects

4. Michigan Avenue / Michigan Avenue Bridge Improvements
   • Michigan Avenue Bridge cycle-track cantilever

5. Riverfront + Internal Pedestrian and Bicycle Path
   • Internal bicycle / pedestrian circulation path
   • Streetscaping
1. Ganson Street Right-of-Way Improvements
2. Rail Barrier / Screening + Green Infrastructure

Ganson Street: existing

Ganson Street: proposed
2. Rail Barrier / Screening + Green Infrastructure

Bioswale examples

Green wall examples
3. Michigan Avenue / Ganson Street Intersection Improvements

**Existing**

- 1. Truck Turning Radii
- 2. Michigan Avenue / Ganson Street with no striping
- 3. Existing stop signs

**Proposed**

- 1. Relocated Stop Signs
- 2. Buffer striping
- 3. Improved sidewalk (where necessary)
- 4. Landscape buffer (bioswale)
- 5. Off-street two-way cycle-track (10' wide)
- 6. Bicycle stop sign
- 7. Shared bicycle / pedestrian area
- 8. Travel lane striping
- 9. Rail Barrier/Screening (bioswale and green wall)
- 10. Enhanced Crosswalk
- 11. On-street two-way cycle-track (10’ wide)
- 12. Rebuilt sidewalk
- 13. New driveway entrance (34’ wide)
- 14. Fence for St. Mary’s property

Note: Curve radius or location is unchanged.
NACTO Street Design Standards demonstrate how intersections can be configured to allow truck turning movements for a 15-foot radius by moving the stop sign back from the intersection and allowing trucks to use the entire intersection. The current 50-foot corner radius is more than adequate to allow for truck turning movements.
4. Michigan Avenue / Michigan Avenue Bridge Improvements

Proposed Improvements
4. Michigan Avenue / Michigan Avenue Bridge Improvements

Existing conditions

On-street cycle track (short-term)

Cantilevered cycle track (long-term)
4. Michigan Avenue / Michigan Avenue Bridge Improvements

Cyclists and pedestrians accessing Kelly Island from the Michigan Avenue Bridge are directed to the south side of the bridge in order to minimize conflicts with vehicular traffic and industrial operations. In order to safely direct cyclists and pedestrians to the south side of the Michigan Avenue Bridge, the following intersection improvements are recommended:

**Stop Signs:** Added to Michigan Avenue at the intersection of Ohio Street. New stop signs will allow pedestrians and cyclists to safely cross Michigan Avenue and the Michigan Avenue/Ohio Street intersection to access both the Ohio Street bicycle path and the south side of the Michigan Avenue Bridge.

**Bicycle Boxes + Scramble:** Added to Michigan Avenue in front of the new stop signs. Bicycle boxes are used to indicate the presence of bicycles at intersections. The bicycle boxes would provide a 'queuing' area for bicycles that alert drivers to the pedestrian scramble like diagonal intersection movement of cyclists accessing the Ohio Street bicycle path or south side of the Michigan Avenue Bridge.

**Bicycle Lane Intersection Markings:** Added to intersection of Michigan Avenue and Ohio Street. Green bicycle lanes in the intersection indicate to cyclists how they should move through the intersection and also provide a visual indication for vehicles of the movements to be made by bicycles.
5. Riverfront + Internal Pedestrian and Bicycle Path
6.2 Ohio Street

The Ohio Street reconstruction project is an $11.3 million investment in a 1.4-mile corridor that connects the Outer Harbor with downtown Buffalo. In addition to linking a number of adjacent open spaces, public improvements are intended to encourage private investment along Ohio Street. The reconstruction project makes the corridor a “Complete Street,” and includes the following:

- Two-way vehicular traffic on two travel lanes
- Off-road multi-purpose pedestrian and bicycle path
- Street trees, landscaping, and lighting
- Pedestrian amenities such as benches and trash receptacles

The project was initiated in 2013 and completed in 2015. It has been one of the most significant public investments within the Buffalo River BOA, and provides the impetus for developing an infill strategy. Private investment in both residential and commercial uses along Ohio Street are needed to support surrounding residential, commercial and open space uses, allowing the corridor to develop as a neighborhood where residents can live, work and play.

Existing Conditions

Within the BOA, the Ohio Street Corridor is bounded on the north by South Park Avenue, on the east by Louisiana Street, and on the south and west by the Buffalo River. This area is generally within walking distance to Ohio Street, and lends itself to the goals of local neighborhood revitalization.

Ohio Street is a prominent thoroughfare in the Old First Ward, connecting the neighborhood with both downtown Buffalo and the Outer Harbor. The corridor and adjacent neighborhood include a mix of residential, commercial, industrial, and open space uses. For most of the First Ward’s history, it was defined by break bulk shipping and an Irish-American population that lived in the shadows of the grain elevators. The image of a pub on every corner, with a dense mix of residential, commercial and industrial uses characterized this area until the decline of the grain industry after the opening of the St. Lawrence Seaway.

As the grain and other industries diminished along the Buffalo River, portions of the surrounding fabric also deteriorated. But the Old First Ward remains strong, with neighborhood institutions such as Gene McCarthy’s, Mazurek’s Bakery, Swannie House, and Our Lady of Perpetual Help contributing to its overall stability and providing a solid foundation for private sector investments such as RiverFest Park, Tewksbury Lodge, and the Barrel Factory.

Land Use

Five land use types – residential, commercial, industrial, open space, and vacant – each comprise between 13 percent and 18 percent of total land area of 85 acres. Recreation and entertainment (6 percent) and community service (1 percent) make up a minor portion of land area. Of the 228 parcels within the corridor, 47 percent are residential and 39 percent are vacant parcels. Residential parcels are typically one-tenth an acre or smaller, with a detached one- or two-family house. The majority of vacant lots are former residential parcels along or east of Louisiana Street, although some vacant commercial properties are located along Ohio Street.

The Old First Ward benefits from a number of parks and open spaces. Father Conway Park is about 15 acres in size and is centrally located in the neighborhood at the site of the former Ohio Basin. RiverFest Park is located at the northern portion of the corridor, providing 2.8 acres of recreational space on the Buffalo River, including a small craft launch. The state Department of Environmental Conservation operates a 1.9-acre park a bit further south on the river, which also includes a small craft launch.

An east-west rail corridor bisects the residential neighborhoods along Republic Street. Commercial and industrial uses are organized along the rail lines, which contribute to the mixed-use dynamic of the Old First Ward. Additional commercial uses are generally located in the northern portion of the study area along Ohio and Miami Streets.

Property Ownership

Approximately 89 percent (202) of all parcels within the Ohio Street corridor are privately-owned. Only 19 parcels are publicly-owned, mostly by the city. This includes Father Conway Park and a number of vacant residential lots to its south and east. The state DEC owns two parcels south of Father Conway Park, which forms a contiguous band of publicly-owned lands.

Among privately-owned properties, a significant number are owned by Ellicott Development or its affiliated entities.
These properties are generally grouped together, providing a large area appropriate for new development. This includes a prominent parcel along Ohio Street with about a quarter-mile of frontage. In addition to these properties, there are other privately parcels of significant size within the corridor: Bison City Rod and Gun Club, the former Erie Freight House, and ADM Milling. Most private properties are generally owned by a single business or individual, and have not been assembled for redevelopment.

**Zoning** Recently enacted zoning designations have been designed to preserve the diversity of existing land uses within the corridor, and represent a significant change from the previous zoning code. Under the prior code, all areas south and east of Father Conway Park were zoned as M2 – General Industrial; while the areas to the north and west were zoned M1 – Light Industrial.

The recently enacted Green Code designations respect the historical land uses patterns of the Old First Ward, which are characterized by a mix of residential, commercial, and industrial uses. Preserving walkable communities is increasingly seen as a way to attract investment to city neighborhoods.
The Unified Development Ordinance provides for the following zones within the corridor:

- **Mixed-Use Core (N-1C)** are areas at the edges of downtown, which encourage mid-rise development and an intense mix of uses.

- **Mixed-Use Edge (N-2E)** are compact neighborhoods defined by a mix of residential and commercial uses, and allow fairly intense uses while transitioning between higher density mixed-use areas and largely residential ones.

- **Residential (N-2R)** are neighborhoods defined by compact residential blocks with occasional mixed-use corners.

- **Flex Commercial (D-C)** are general commercial and mixed-use areas that are close to residential neighborhoods, and which typically benefit from flexible form standards.

- **Light industrial (D-IL)** are sites intended for low- and moderate-impact employment uses that generally have existing buildings or are less than an acre in size, which limits the intensity of future industrial uses to ones compatible with adjacent residential areas.

- **Green (D-OG)** are civic greens and parks framed by landscape elements or building facades.

- **Natural (D-ON)** are open spaces maintained in a predominantly undeveloped state for land conservation, passive recreation, and ecological restoration.

- **Rail Corridor (C-R)** protects and addresses rail lines and yards, including vacant rights-of-way intended to be long-term transportation corridors.
Guiding Principles

Most of the infill development opportunities along the Ohio Street Corridor are limited to privately-owned parcels. Infrastructure investment via the Ohio Street Reconstruction Project, combined with implementation of the city’s Green Code, will help to jump start redevelopment and revitalization of the corridor. As Ohio Street functions as the “front door” for the surrounding neighborhood, the development and circulation patterns that evolve along this corridor will transition into other areas.

In order to preserve the mixed-use, walkable character of the neighborhood, infill development should encourage a complementary urban fabric. The following guiding principles and objectives are proposed:

Waterfront access The Buffalo River is a significant natural resource within the corridor and surrounding community, and has become a catalyst for redevelopment projects and public space creation and enhancement. The river creates a competitive advantage for the community by providing access to the natural environment, increased recreational opportunities and connection to other parts of the city.

Objectives:

- Implement setback requirements outlined in the Green Code to ensure public access to the riverfront
- Provide additional pedestrian connections to the river
- Establish a continuous waterfront path/promenade along the river

Active corridors Corridors and neighborhoods with a substantial pedestrian and bicycle utilization tend to be healthier. They increase social engagement, add “eyes on the street,” and enable healthier lifestyles. Communities that provide an attractive relationship between public infrastructure and the private realm promote walking and cycling for commuting, living, and recreation.

Objectives:

- Promote mixed-use infill on vacant parcels along Ohio Street, and a mix of market rate and affordable housing to fill residential gaps
- Provide neighborhood services, such as a local food market with healthy options and household goods
- Restore Father Conway Park and enhance other park spaces

Local neighborhood The availability of and access to community resources is an important quality that can impact an individual’s desire to reside in a community. Resources that allow residents to satisfy daily needs within the neighborhood contribute to overall quality of life and enhance the vitality and development of neighborhood character.

Objectives:

- Promote mixed-use infill on vacant parcels along Ohio Street, and a mix of market rate and affordable housing to fill residential gaps
- Provide neighborhood services, such as a local food market with healthy options and household goods
- Restore Father Conway Park and enhance other park spaces

Sustainable development Creating a community that offers a better quality of life for everyone, without sacrificing the ability of future generations to meet their own needs, is the core philosophy of sustainable development. Such policies and practices challenge us to undertake neighborhood revitalization in ways that protect the physical environment, efficiently use resources, promote social equality and improve quality of life.

Objectives:

- Utilize the Brownfield Cleanup Program and other tax credits to facilitate remediation of brownfield sites and promote redevelopment opportunities
- Continue to restore natural features throughout the corridor, including the Buffalo River shoreline
- Promote use of green infrastructure to reduce sediment-laden runoff and associated water pollution
Strategic sites

A number of strategic sites have been identified within the Ohio Street Corridor based on existing conditions as well as stakeholder input. These sites are vacant or underutilized parcels with opportunities for significant private investment that will enable further development of neighborhood commercial and residential properties.

Under the city’s recently enacted Green Code, the portion of Ohio Street between Michigan Avenue and the Ohio Street Bridge is proposed as a major waterfront mixed-use node. This area was identified because it will directly benefit from its proximity to the river, providing opportunities for the development of water-enhanced uses such as restaurants and apartments.

The strategic sites all have excellent exposure to pedestrian, bicycle, and vehicular traffic to support commercial activities and allow for more intense forms of development. By concentrating initial activities along Ohio Street, future redevelopment efforts can move forward incrementally with respect to the existing urban fabric and neighborhood socio-economic conditions.

Buffalo River Landing  This project is taking place on a strategic parcel located on the Buffalo River. The site was formerly occupied by the Erie Freight House, a two-story, heavy timber frame structure built in 1868 that had been abandoned and fallen into disrepair. It was designated a local landmark in 2012 by the Buffalo Common Council, although a demolition request was later approved, with the developer agreeing to inventory, salvage, and store key components of the historic structure.

Savarino Companies is constructing a five-story, mixed-use building with secured parking, a small amount of ground level commercial space, and 78 market-rate apartments with high-end amenities. The developer will also provide rooftop patios and gardens, floating boat docks for river access, and secure storage for recreational water vehicles. The project will include a 25-foot setback from the Buffalo River and continuous public access.
**Ellicott Development**  Ellicott Development owns multiple properties within the corridor, which are generally contiguous along Ohio Street. As a result of the Ohio Street Reconstruction Project, Ellicott has announced plans for multiple projects on some of these currently vacant sites.

The initial project was 301 Ohio Street, a five-story, 52,000 square foot mixed-use structure. The first phase includes 21 market-rate apartments on the upper three floors, featuring one and two bedroom units ranging in size from 880 to 1400 square feet. Future phases will include two restaurants on the first floor, and 10,000 square feet of commercial space on the second. A recreational area adjacent to the building will include boat slips and a sand volleyball court, and public access is provided along the entire riverfront.

A future project will be located on a group of contiguous parcels adjacent to Father Conway Park and the Cooperage building. Ellicott demolished three buildings that previously served as a truck stop, and the sites underwent remediation through the Brownfield Cleanup Program. The developer has announced plans to construct a two- or three-story office building on the combined 5-acre site once a tenant is identified.

**Silo City**  Silo City is designed to reuse and celebrate a set of historic grain elevators that contribute to a unique industrial landscape. The site is ultimately proposed for a mix of light industrial, office, commercial, and residential uses. Initial improvements include a public access dock to the Buffalo River, security measures, and restroom facilities. In addition to these investments, a number of art, cultural and recreational uses have taken place to help activate the site to encourage its redevelopment:

- **Silo City Tapped** was a day long music, food, and craft beer festival that featured local breweries.
- **Against the Grain Theatre** is a new company that presents literature in a dynamic way with actors, storytellers, artists and scholars in locations throughout Buffalo. For its first show, ATG performed a live reading of Henrik Ibsen’s *The Master Builder* at Silo City using multiple grain elevators as stages for the performance.
- **Storehouse at Silo City** was a three day exhibition that was the third exploration of grain elevators put on by Torn Space Theatre. The production was a multidisciplinary performance consisting of installations, dance, music, film and athletics.
• Silo City Gateway Wall was a collaboration between the University at Buffalo School of Architecture and Planning and Rigidized Metals. The project used 152 thin metal sheets to create a 20-foot high wall that resembles a sail, to showcase how a permanent structure could act as both a piece of art and billboard.

All of these events, installations, and improvements have taken place in the past few years and grown exponentially. These new recreational and cultural uses have contributed to the historic and industrial character that makes Silo City unique and attractive. Early conceptual plans beyond the recent improvements include the preservation and adaptive reuse of the existing grain elevators, coupled with infill development that supports the area’s industrial aesthetic.
Ohio Street Conceptual Rendering
6.3 Elk Street

The Elk Street Corridor was once the site of heavy industry, but has been transitioning with the loss of employers such as Allied Chemical, Trico, Thompson Paper, and Exxon Mobil. Today the study area’s location makes it attractive for commercial and light industrial redevelopment, as demand for space increases and areas such as Lakeside Commerce Park and RiverBend are built out.

The original Elk Street Corridor Redevelopment Plan was completed in 2008 with input from a 15-member steering committee that included representatives from Honeywell, Exxon Mobil, National Grid, Empire State Development, the state DEC, Buffalo-Niagara Enterprise, Erie County Industrial Development Agency, and Buffalo Urban Development Corporation. The committee identified opportunities and constraints, and proposed a preferred redevelopment scenario based on assessment of the alternatives. This report serves to update the 2008 Redevelopment Plan based on current conditions and information.

The boundaries employed were originally set for the 2008 study, and include the I-190 to the north, the Buffalo River to the south, Bailey Avenue to the east, and a rail corridor to the west. The study area is located within and adjacent to areas that have recently been targeted for various planning activities, including the city’s Local Waterfront Revitalization Plan, and Brownfield Opportunity Area plans for South Buffalo and the Buffalo River Corridor.

Existing Conditions

The updated Elk Street Corridor Redevelopment Plan is based on a thorough understanding of the study area’s current conditions, and will identify land use trends, development opportunities and constraints, and corridor improvements that will encourage private investment.

The study area is adjacent to the Valley and Old First Ward neighborhoods. The First Ward was originally settled by Irish immigrants as completion of the Erie Canal and invention of the grain elevator transformed Buffalo into a shipping and industrial center. The Irish settled into dense working-class neighborhoods along the Buffalo River. Many of the original residents of the Valley came from the First Ward, and the shared churches and other community institutions reinforced the connection between the two neighborhoods. These similarities were further emphasized by the geographic isolation of the First Ward and Valley from other city neighborhoods. Over time, many of the employers that initially drew residents to the Valley closed, leaving behind vacant and contaminated sites that required remediation.

Land Use According to current assessment data, the study area is comprised of 219 parcels and 265 acres of land. Vacant properties make up the largest land use within the study area, comprising 53 percent of parcels and 43 percent of the land area, the result of former industrial operations that have left the area. Clusters of vacant parcels are also present on the residential streets between Elk and the I-190. While vacant properties can present challenges for a neighborhood due to negative perceptions, they also provide the study area with its greatest opportunity for redevelopment and rebranding.

Residential properties comprise 21 percent of the parcels, but less than 2 percent of the land area due to their small size. Residential land uses are primarily located north of Elk Street along Walter Street, Maurice Street, Orlando Street, and Babcock Street. Commercial properties comprise 10 percent of the parcels, and almost 16 percent of the land area. These are generally located at primary intersections and along transportation routes such as Bailey Avenue and Seneca Street. Commercial land uses generally consist of motor vehicle services, storage, warehousing, and distribution facilities.

Industrial properties account for 8 percent of the parcels, but at 35 percent make up the second largest land use. Industrial activities within the study area are generally characterized as manufacturing and processing; and are located south of Elk Street abutting the Buffalo River, as well as in the northwest portion of the study area.

The majority of property within the study area is privately owned, with the exception of small, publicly-owned areas associated with transportation rights-of-way or open spaces. While publicly-owned properties generally offer greater opportunities for redevelopment, the corridor has large amounts of privately-owned vacant parcels, which offer redevelopment opportunities that should be identified and coordinated with input from current property owners.
Land Use

Transportation  The study area’s historic industrial development can be largely attributed to its transportation assets. The study area is located in proximity to highway, rail, and waterways, which facilitated the shipment of raw materials and finished products to and from area industries.

The area is bordered on the north by the I-190, a six-lane limited access highway that experiences approximately 86,700 vehicles per day in the section adjacent to the Elk Street Corridor. This highway provides access to downtown and Canada to the west, and the New York State Thruway (I-90) to the east.

Bailey Avenue borders the area to the east, and is a principal arterial that carries 16,000 to 19,000 vehicles per day. Seneca Street, located just north of the study area, is an east-west connector that averages 6,525 vehicles per day. South Park Avenue, located just south of the study area, is another east-west arterial that carries about 6,900 vehicles per day. This street also serves as the primary access route to RiverBend. The current traffic volumes within the study area are generally consistent with those noted in the 2008 Redevelopment Plan.

The study area is well served by existing rail, and there are also several underutilized or abandoned rail corridors within the vicinity, which provides the opportunity to identify future land uses that may capitalize on these assets.

An extensive rail network is located along the western boundary of the study area, which includes a major switching yard that is shared by CSX and Norfolk Southern. This yard services a major corridor that crosses the Buffalo River via a single-track bridge west of South Park Avenue. The bridge acts as a bottleneck for rail transportation, as it can accommodate only one train at a time, which backs up other rail traffic until the bridge clears.
To the north of the bridge, Norfolk Southern has a number of lines that branch off, with one continuing to the Bison Intermodal Yard in Cheektowaga and another paralleling Route 400 through West Seneca. The CSX line continues further north and east to the Kenmore Yard in Tonawanda and the Frontier Yard in Cheektowaga, as well branching off to cross the International Railroad Bridge into Canada.

Two short-line railroads have trackage rights and operate switching operations at the Buffalo Creek Yard. The Southern Buffalo Railroad operates 33 miles of track between the yard and Gowanda; while the Buffalo & Pittsburgh Railroad operates trains between the yard and Pittsburgh.

There is railroad siding off the main line track that extends to the east into the study area, south of Elk Street, which provides rail access to area industries such as PVS Chemicals. The railroad bed extends beyond the PVS Chemical property, although the rails have been abandoned and would require improvements to resume service. Another abandoned line bisects the eastern portion of the study area; while the right-of-way is partially intact, the bridge over the Buffalo River has been removed. This corridor remains the proposed location for the Tifft Street Arterial of the Southtowns Connector project.

**Infrastructure** The Buffalo Water Department serves the study area. A 48-inch transmission main runs along Perry Street from the northwestern boundary of the study area, then continues up to Elk Street, where it runs eastward to Bailey Avenue. The main distribution feed for the area is a 10-inch line that runs along Elk Street, which serves the majority of the study area.
The Buffalo Sewer Authority operates and maintains sanitary and storm sewers within the study area. Combined sewer flows are collected by a network of pipes ranging from 10- to 30-inches in diameter. This network directs flow to a 72-inch line that runs southerly along Babcock Street. At the intersection of Babcock and Prenatt, the line connects into a permitted combined sewer overflow (CSO). Flow from the CSO is directed to the inceptor along Orlando Street. During heavy rainfall events that produce high flow conditions, the CSO is relieved by a 6-foot by 6-foot concrete conduit that discharges directly to the Buffalo River. A flap gate on the outlet pipe prevents back flow or intrusion into the pipe from the River. This gate is located along the southeastern corner of the PVS Chemical property.

The South Buffalo Pumping Station is located at the southeast corner of the study area. This station pumps wastewater from areas in South Buffalo to large diameter interceptor pipes that are tributary to the city’s South Interceptor. Flows from the interceptor are carried to BSA’s wastewater treatment facility, which currently has excess capacity to service the study area.

Natural gas service is provided by National Fuel. The main feed for the study area is a 24-inch high pressure line that runs along Perry Street eastward to Dole Street where it turns south. The line runs south along Dole Street to Elk Street, where it turns east and continues past Bailey Avenue. Additional smaller lines of differing pressure branch out at various locations from the main high pressure line to service residential streets and surrounding industries.

Electric service is provided by National Grid. The company has a 115kV substation located at the northwest corner of Elk and Dole. Power is distributed through both overhead and underground distribution lines. Residential areas have mostly overhead service, while the remaining industrial areas have a mix of both overhead and underground lines.

**Environmental conditions** The study area has historically been the location of heavy industrial operations, primarily located south of Elk Street along the Buffalo River, utilizing the waterway for the transport of goods and raw materials. Industries included petroleum refining, metal production, chemical manufacturing, and waste disposal. As these closed, many of the properties were left vacant or underutilized, with legacy contamination. As a result, elevated concentrations of pollutants have been identified in the soil, groundwater and river sediment.

South of Elk Street, a significant portion of the study area contains potential environmental hazards in the form of major oil storage facilities, hazardous waste sites, and brownfield properties. Buckeye Terminal is an active oil storage facility, and PVS Chemicals is classified as a chemical storage facility. Both of these operations increase the risk of soil and groundwater contamination. Other former industrial properties include Exxon-Mobil, Allied Chemical, and Buffalo Color Corporation.

The status of properties range from unknown contamination to those that have been investigated and remediated, or are undergoing long-term monitoring. Surface and subsurface contamination includes organic and inorganic constituents which have been detected above the restricted industrial soil cleanup objectives (SOCs). Some of these areas have been addressed and no further action is required; while others remain to be remediated.

Groundwater pumping systems are in place to address free-phase petroleum contamination and other contamination identified within the corridor. This engineering control was enacted to remove contamination and prevent flow and discharge to the adjacent Buffalo River. Existing water quality data indicates that deep aquifer groundwater quality did not require remediation. Limited sampling of sub-slab vapors indicated low levels of volatile organic compounds.

Although the majority of the study area is considered brownfield property, not all of it has been fully characterized. Absent known environmental contaminants on potential redevelopment properties, investigation will be required to identify and mitigate potential health hazards. Some areas may be subject to soil and fill management restrictions, residential use limitations, engineering controls, deed restrictions, or long-term monitoring requirements.
Redevelopment Scenario

The 2008 Elk Street Corridor Redevelopment Plan proposed three redevelopment scenarios. These considered a variety of factors, including market opportunities, availability and condition of infrastructure and utilities, access to major transportation routes, environmental conditions, current land uses and property conditions, and other planning level criteria.

Infill identifies properties for new business development, including opportunities for back-office uses on larger vacant parcels located south of Elk. Riverfront access is proposed via a new street east of Babcock. Two small retail sites were proposed at the intersection of Elk and the new roadway east of Babcock. New access roads were additionally proposed parallel to Elk and as an extension of Lee to improve access to the Buffalo Color properties.

Commercial/Industrial Park identifies 13 parcels for light industrial redevelopment. In this scenario, the foot of Babcock is proposed as public space to provide access to the river and serve as an amenity for the industrial park. Future commercial and retail development is identified in areas along Bailey and the proposed Tifft Street arterial. Finally, residential uses located north of Elk would be transitioned to non-residential uses.

Transportation Village capitalizes on the study area’s access to transportation infrastructure, particularly sites with rail and water access. In this scenario, a 37-acre site south of Elk is designated for large-scale distribution, while other properties were identified for back office and light industrial development opportunities. This development scenario proposes new roadways and repurposing of some existing paper roads located within the study area.

2008 Redevelopment Plan
The three scenarios were presented to stakeholders, and a final redevelopment plan was prepared that incorporated elements from each scenario. Subsequent to this effort, the Buffalo Billion Plan was developed by the Western New York Regional Economic Development Council. The plan carefully evaluates the region’s assets and economic dynamics, which serve as the foundation for strategies to accelerate growth in manufacturing, the health/life sciences, and tourism. The signature project is the High-Tech Manufacturing and Innovation Hub at RiverBend, which will be home to SolarCity. The RiverBend site, which is located across the Buffalo River from the study area, is a critical consideration for the Elk Street Corridor planning process due to its proximity and potential future demand.

As a result of these changing conditions and recent investments, the BOA consultant team looked at potential revisions to the 2008 Redevelopment Plan. Based on input from the steering committee, stakeholders, and the general public, the updated scenario establishes the study area as a mix of industrial and commercial uses.

Guided by the city’s Unified Development Ordinance, zoning for the study area falls into four designations: D-C (flex commercial), D-IL (light industrial), D-IH (heavy industrial), and D-OG (open space). Most properties remain zoned for heavy industrial use, which reflects current and historic patterns and the limited potential for remediating these sites to accommodate more intensive uses. Light industrial uses are targeted for areas north of Elk Street, some of which are currently in residential use, but most of which are vacant.
Elk, Babcock, and Lee streets would serve as primary access points for redevelopment sites. Reestablishing Babcock Street helps create an axis for the area, opens up large tracts of land south of Elk Street for redevelopment, reconnects the study area to residential neighborhoods that have been cut-off by I-190, and facilitates public access to the Buffalo River.

The conversion of Elk to two-way traffic between the I-190 ramp and Bailey is also important. This one-way stretch negatively impacts accessibility to businesses in the area, as highway traffic that exits at Bailey cannot travel west on Elk. This results in circuitous routes that can be confusing and add travel time and distance. Finally, the preferred alternative preserves right-of-way so that the Southtowns Connector can be constructed if the need arises.

Proposed redevelopment uses are envisioned to evolve over the long-term and to work in harmony with public realm improvements. As a result of its proximity to River-Bend, the Elk Street Corridor has the potential to develop with complementary uses. The area surrounding the intersection of Elk and Babcock consists of parcels that are approximately 6 to 10 acres in size. Frontages along streets should be lined with buildings, with parking located at the interior of parcels and hidden from the public realm.

Lands south of Elk are envisioned to be used for a mix of light and heavy industry, along with the continuing operation of legacy employers such as PVS Chemicals and Buckeye Terminal. These uses will follow similar design standards, with buildings developed with zero setback and parking hidden within the interior of blocks. This arrange-
ment will provide a uniform fabric through the Elk Street Corridor, as well as promote good design standards that will help with its rebranding.

A small area along Bailey north of Elk is designated as flex commercial. Traffic counts here may be high enough to eventually attract retail uses. Buildings should be developed with zero setbacks to encourage a pedestrian environment. Any off-street parking should be located within the interior of blocks and hidden from the public realm.

North of Elk Street between Honeywell and Austin Air, lands are designated for small-scale, light industrial uses such as small tool and die operations, warehousing, and distribution. The existing residential neighborhood has been designated to allow a long-term transition to light industrial uses.

A small waterfront park is provided at the foot of Babcock Street. The park link up with waterfront trails that circulate through the study area. In line with Babcock Street, a pedestrian and bicycle bridge could be constructed to provide access to the RiverBend site. The ultimate ownership of this parkland must be determined to ensure proper long-term maintenance and protection of the area.

Immediately east of the proposed park is additional open space that would have restricted access and be designated primarily for stormwater retention, remediation facilities for Exxon-Mobil, and ecological restoration. Public open space along the river is also provided at the far eastern and western edges of the designated study area – around the perimeter of the BSA lands on Bailey and on the remediated Red Jacket peninsula, known as Area D.

Elk Street Conceptual Rendering
The following site profiles describe the size and condition of significant vacant, abandoned, or underutilized parcels within three strategic locations: the Ohio Street corridor, Kelly Island, and the Elk Street corridor.

This compendium is based on review of existing or historical records and reports; aerial photographs; existing environmental site investigations; remedial investigations and feasibility studies; field observations; government records; private environmental databases; and Sanborn Fire Insurance maps.

The city elected not to pursue Phase II site assessments based on the Buffalo Urban Development Corporation’s experience with the South Buffalo BOA. BUDC and their consultant found that few private property owners are interested in these assessments unless they are ready to redevelop. Otherwise, the potential liability incurred by identifying site contamination becomes a deterrent. If there are any property owners who indicate a willingness to participate in the future, we will identify work with them to identify funding to carry out these assessments.

### LIST OF PROFILES

**Ohio Street**
- 55 Chicago
- 286 Ohio
- 300 Ohio
- 399 Ohio
- 509 Ohio
- 670 Ohio
- 169 Buffalo River

**Kelly Island**
- 189 Ganson
- 201 Ganson

**Elk Street**
- 1337 South Park
- 229 Elk
- 500 Elk
- 572 Elk
- 620 Elk
- 654 Elk
- 710 Elk
- 612 Old Bailey
- 787 Elk
- 701 Elk - front
- 701 Elk - rear
- 635 Elk
- 503 Elk
### 55 Chicago

**Address:** 55 Chicago Street  
**Owner:** Newark Niagara LLC  
**Acres:** 0.7  
**Zoning:** N-1C  
**Property class:** 710 (manufacturing)  
**Special district:** National Register of Historic Places

#### Site criteria

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<td>Major facility</td>
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<td>Underutilized</td>
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<td>Vacant</td>
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#### Utilities

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#### Adjacent uses

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<td>South</td>
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#### Access

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<td>Bus route</td>
<td>14 Abbott; 16 South Park; 36 Hamburg; 74 Hamburg (0.2 mile)</td>
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Property description

**Previous use:** The buildings were originally part of E&B Holmes Machinery factory used for barrel manufacturing.

**Current use:** Building not in active use

**Existing structures:** Three two-, three-, and four-story structures, built between 1870 and 1913, poor condition

**Notes:** Building is listed on National Register of Historic Places. Previous plans called for adaptive reuse for residential and commercial uses.

Environmental history

**Bulk storage facility:** No

**Hazardous waste generator:** No

**NYSDEC spill event site:** Closed; PCB oil - soil impacted; petroleum - soil impacted

**NYSDEC remediation database:** No

**Notes:** Complete Phase I/Phase II environmental site assessment should be conducted prior to site redevelopment

Redevelopment potential

Site located adjacent to $11.3 million Ohio Street reconstruction; redevelopment options for mixed-use housing and commercial development have been considered by private developers.
## 286 Ohio

<table>
<thead>
<tr>
<th>Address:</th>
<th>286 Ohio Street</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner:</td>
<td>1029 Group LLC</td>
</tr>
<tr>
<td>Acres:</td>
<td>0.4</td>
</tr>
<tr>
<td>Zoning:</td>
<td>N-1C</td>
</tr>
<tr>
<td>Property class:</td>
<td>330 (vacant commercial)</td>
</tr>
<tr>
<td>Special district:</td>
<td>None</td>
</tr>
</tbody>
</table>

### Site criteria

<table>
<thead>
<tr>
<th>Key building:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major facility:</td>
<td>No</td>
</tr>
<tr>
<td>Underutilized:</td>
<td>Yes</td>
</tr>
<tr>
<td>Vacant:</td>
<td>Yes</td>
</tr>
<tr>
<td>Brownfield:</td>
<td>Yes</td>
</tr>
<tr>
<td>Strategic location:</td>
<td>Ohio Street Corridor</td>
</tr>
</tbody>
</table>

### Utilities

<table>
<thead>
<tr>
<th>Water:</th>
<th>Buffalo Water Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewer:</td>
<td>Buffalo Sewer Authority</td>
</tr>
<tr>
<td>Natural gas:</td>
<td>National Fuel</td>
</tr>
<tr>
<td>Electric:</td>
<td>National Grid</td>
</tr>
<tr>
<td>Phone:</td>
<td>Verizon</td>
</tr>
<tr>
<td>High speed data:</td>
<td>Time Warner</td>
</tr>
</tbody>
</table>

### Adjacent uses

<table>
<thead>
<tr>
<th>North:</th>
<th>Vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>East:</td>
<td>Vacant</td>
</tr>
<tr>
<td>South:</td>
<td>Vacant</td>
</tr>
<tr>
<td>West:</td>
<td>Residential, Buffalo River</td>
</tr>
</tbody>
</table>

### Access

<table>
<thead>
<tr>
<th>Highways:</th>
<th>I-190 and NYS 5 (0.5 mile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail service:</td>
<td>None</td>
</tr>
<tr>
<td>Bus route:</td>
<td>14 Abbott; 16 South Park; 36 Hamburg; 74 Hamburg (0.2 mile)</td>
</tr>
</tbody>
</table>
Property description

Previous use: Residential and commercial storefronts
Current use: Vacant land
Existing structures: None
Notes: Development potential to support residential and commercial uses emerging nearby

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: Classification P; State Superfund Program, potential concern about site contamination
Notes: Environmental site assessment should be completed prior to redevelopment

Redevelopment potential

Site located along $11.3 million Ohio Street reconstruction; cleared site offers redevelopment options for mixed-use housing and commercial development, similar to 301 Ohio Street across the street.
### 300 Ohio

- **Address:** 49, 53 Mackinaw Street; 11 Chicago Street; 300, 326, 328, 340, 354 Ohio Street
- **Owner:** 4216 Group LLC
- **Acres:** 4.7
- **Zoning:** N-1C
- **Property class:** 340 (vacant industrial)
- **Special district:** None

#### Site criteria

<table>
<thead>
<tr>
<th>Key building</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major facility</td>
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</tr>
<tr>
<td>Underutilized</td>
<td>Yes</td>
</tr>
<tr>
<td>Vacant</td>
<td>Yes</td>
</tr>
<tr>
<td>Brownfield</td>
<td>Yes</td>
</tr>
<tr>
<td>Strategic location</td>
<td>Ohio Street Corridor</td>
</tr>
</tbody>
</table>

#### Utilities

- **Water:** Buffalo Water Authority
- **Sewer:** Buffalo Sewer Authority
- **Natural gas:** National Fuel
- **Electric:** National Grid
- **Phone:** Verizon
- **High speed data:** Time Warner

#### Adjacent uses

- **North:** Vacant, industrial
- **East:** Park, residential
- **South:** Vacant, industrial
- **West:** Vacant, Buffalo River

#### Access

- **Highways:** I-190 and NYS 5 (0.6 mile)
- **Rail service:** None
- **Bus route:** 14 Abbott; 16 South Park; 36 Hamburg; 74 Hamburg (0.2 mile)
Property description

**Previous use:** Historically utilized for rail lines, equipment maintenance, shipping, and warehousing and storage. More recently served as gas station, motor vehicle garage, and storage.

**Current use:** Vacant land

**Existing structures:** None

**Notes:** Site is currently planned for commercial office development, with construction beginning when a tenant is secured

Environmental history

**Bulk storage facility:** 13 tanks from 1,000 - 20,000 gallons; 10 USTs closed and removed; two USTs closed in place; one AST closed in place

**Hazardous waste generator:** No

**NYSDEC spill event site:** Closed; 13 diesel and gasoline spills from 1988 to 2010; groundwater and soils impacted

**NYSDEC remediation database:** Classification A; Brownfield Cleanup Program

**Notes:** Three buildings demolished at 11 Chicago Street, 53 Mackinaw Street, and 300 Ohio Street. All three sites are undergoing environmental remediation through the BCP.

Redevelopment potential

Site located along $11.3 million Ohio Street reconstruction; cleared site offers redevelopment options for mixed-use housing and commercial development.
399 Ohio

Address: 399 Ohio Street
Owner: Paladino Revocable Trust
Acres: 7.2
Zoning: N-2E
Property class: 433 (auto related)
Special district: None

Site criteria

Key building: No
Major facility: No
Underutilized: Yes
Vacant: Yes
Brownfield: Yes
Strategic location: Ohio Street Corridor

Utilities

Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses

North: Park, vacant
East: Park, vacant
South: Vacant, residential
West: Buffalo River

Access

Highways: I-190 and NYS 5 (0.6 mile)
Rail service: None
Bus route: 14 Abbott; 16 South Park; 36 Hamburg; 74 Hamburg (0.2 mile)
## Property description

| Previous use: | Historically utilized for rail lines, equipment maintenance, shipping, and warehousing and storage. |
| Current use:  | Temporary boathouse and vehicle storage |
| Existing structures: | Single story; approximately 8,900 sf; good condition |
| Notes:       | Site is currently planned for residential and recreational development |

## Environmental history

| Bulk storage facility: | No |
| Hazardous waste generator: | No |
| NYSDEC spill event site: | No |
| NYSDEC remediation database: | Classification A; Brownfield Cleanup Program |
| Notes: | Information submitted with BCP application regarding environmental conditions is currently under review |

## Redevelopment potential

Site located along $11.3 million Ohio Street reconstruction; planned residential development includes three or four apartment buildings, each three- to four-stories in height; plus 16,000 sf boathouse with locker rooms and repair facilities on southern portion of site.
509 Ohio

Address: 509 Ohio Street
Owner: Bison City Rod and Gun Club
Acres: 1.3
Zoning: N-2E
Property class: 330 (vacant commercial)
Special district: None

Site criteria
- Key building: No
- Major facility: No
- Underutilized: Yes
- Vacant: Yes
- Brownfield: Yes
- Strategic location: Ohio Street Corridor

Utilities
- Water: Buffalo Water Authority
- Sewer: Buffalo Sewer Authority
- Natural gas: National Fuel
- Electric: National Grid
- Phone: Verizon
- High speed data: Time Warner

Adjacent uses
- North: Vacant
- East: Residential
- South: Commercial
- West: Residential

Access
- Highways: I-190 and NYS 5 (0.6 mile)
- Rail service: None
- Bus route: 36 Hamburg; 74 Hamburg (0.1 mile)
**Property description**

**Previous use:** Historically utilized for rail lines, equipment maintenance, shipping, and warehousing and storage.

**Current use:** Vacant land

**Existing structures:** None

**Notes:** Site is directly adjacent to Buffalo River Landing residential development, currently under construction.

**Environmental history**

**Bulk storage facility:** No

**Hazardous waste generator:** No

**NYSDEC spill event site:** No

**NYSDEC remediation database:** No

**Notes:** Environmental Site Assessment should be completed prior to redevelopment, due to unknown site conditions.

**Redevelopment potential**

Site located along $11.3 million Ohio Street reconstruction; infill development potential to support emerging residential and commercial uses.
670 Ohio

Address: 670 Ohio Street
Owner: Apollo Services Inc.
Acres: 7.6
Zoning: D-IL
Property class: 710 (manufacturing)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: Yes
Brownfield: Yes
Strategic location: Ohio Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Vacant
East: Industrial
South: Rail
West: Rail

Access
Highways: I-190 and NYS 5 (0.6 mile)
Rail service: Norfolk Southern (0.1 mile)
Bus route: 36 Hamburg; 74 Hamburg (0.1 mile)
Property description

Previous use: Pierce and Stevens, lacquer and cement manufacturers
Current use: Not in active use
Existing structures: Two-story brick structure; unknown sf; unknown construction date; fair condition
Notes: Redevelopment potential for industrial or commercial use

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment, due to unknown site conditions.

Redevelopment potential

Site located along $11.3 million Ohio Street reconstruction; redevelopment potential to complement manufacturing uses at Rigidized Metals next door.
169 Buffalo River

Address: 169 Buffalo River
Owner: Gerdau Ameristeel US, Inc.
Acres: 18.8
Zoning: D-IL
Property class: 710 (manufacturing)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Ohio Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Silo City
East: Buffalo River
South: Rail
West: Industrial

Access
Highways: I-190 and NYS 5 (0.6 mile)
Rail service: Norfolk Southern (0.1 mile)
Bus route: 36 Hamburg; 74 Hamburg (0.1 mile)
Property description

Previous use: Kelly Island Lime and Transport Company, manufacturing and storage; Archer Daniels Midland Company grain elevators
Current use: Recycling / scrap processing
Existing structures: None
Notes: Redevelopment potential for industrial or commercial use

Environmental history

Bulk storage facility: Unregulated and closed PBS; closed and removed 5,000 gallon UST
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment, due to historic uses and unknown site conditions.

Redevelopment potential

Site located along $11.3 million Ohio Street reconstruction; redevelopment potential to complement adjacent manufacturing uses, water dependent uses along Buffalo River frontage.
189 Ganson

Address: 189 and 191 Ganson Street; 127 Buffalo River
Owner: George W. Burnett, Inc.
Acres: 7.0
Zoning: D-IL
Property class: 340 (vacant industrial); 433 (auto related)
Special district: None

Site criteria

Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Kelly Island

Utilities

Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses

North: Vacant industrial
East: Buffalo River
South: Rail
West: Industrial

Access

Highways: I-190 and NYS 5 (0.8 mile)
Rail service: None
Bus route: 36 Hamburg; 74 Hamburg (0.3 mile)
Property description

Previous use: Rail lines and Erie Railroad Freight House
Current use: Logistics
Existing structures: Multiple one-story buildings; 2,000 to 20,000 sf; built between 1920 and 1966; good condition
Notes: Redevelopment potential for more intensive industrial or commercial use

Environmental history

Bulk storage facility: Unregulated and closed PBS - three 275-gallon ASTs closed and removed; one 4,000-gallon UST closed; one 10,000-gallon UST closed and removed; one 500-gallon AST converted to non-regulated use; active PBS - four 4,000-gallon USTs closed; one 10,000-gallon AST in service
Hazardous waste generator: No
NYSDEC spill event site: Closed; multiple spills; petroleum, soil impacted; diesel fuel, groundwater impacted; #2 fuel oil, soil impacted; unknown material, soil impacted
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site located near RiverWorks mixed-use development; redevelopment potential for light industrial or commercial uses, with water dependent uses along Buffalo River frontage.
### 201 Ganson

**Address:** 201 Ganson Street; 121 Buffalo River  
**Owner:** Ellicott Development  
**Acres:** 13.8  
**Zoning:** N-2E  
**Property class:** 330 (vacant commercial)  
**Special district:** None

### Site criteria

| Key building: | Yes |  
| Major facility: | No |  
| Underutilized: | Yes |  
| Vacant: | Yes |  
| Brownfield: | Yes |  
| Strategic location: | Kelly Island |

### Utilities

| Water: | Buffalo Water Authority |  
| Sewer: | Buffalo Sewer Authority |  
| Natural gas: | National Fuel |  
| Electric: | National Grid |  
| Phone: | Verizon |  
| High speed data: | Time Warner |

### Adjacent uses

| North: | Commercial |  
| East: | Buffalo River |  
| South: | Logistics |  
| West: | Industrial |

### Access

| Highways: | I-190 and NYS 5 (0.8 mile) |  
| Rail service: | None |  
| Bus route: | 36 Hamburg; 74 Hamburg (0.3 mile) |
Property description

Previous use: American Ship Building site included dry docks, machine shops, storage, offices, and other industrial uses
Current use: Vacant
Existing structures: Multiple one- and two-story buildings; 2,000 to 20,000 sf; built between 1920 and 1974; fair condition

Notes:

Environmental history

Bulk storage facility: Unregulated and closed PBS - one 4,000-gallon UST closed and removed; one 8,000-gallon UST closed and removed
Hazardous waste generator: No
NYSDEC spill event site: Closed; multiple spills; petroleum, soil impacted; diesel fuel, surface water and soil impacted
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site adjacent to RiverWorks mixed-use development; redevelopment potential for complementary mixed-uses, with water dependent uses along Buffalo River frontage.
1337 South Park

Address: 1337 South Park Avenue
Owner: South Buffalo Development LLC
Acres: 10.2
Zoning: D-IL
Property class: 710 (manufacturing)
Special district: None

Site criteria

Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities

Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses

North: Industrial
East: Buffalo River
South: Rail, open space
West: Rail

Access

Highways: I-190 (0.5 mile)
Rail service: Con-Rail (0.1 mile)
Bus route: 14 Abbott; 16 South Park; 23 Fillmore (0.1 mile)
Property description

Previous use: Allied Chemical and Dye Corporation chemical production
Current use: Inactive; undergoing remediation
Existing structures: Multiple one-story buildings; floor area and construction date unknown; good condition
Notes: Permanent open space easement to south of site, where Buffalo Color Area D was located

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: Closed; potential impact (exact spill location unknown); florescent dye, surface and groundwater impacted
NYSDEC remediation database: Classification A, C; Brownfield Cleanup Program, Buffalo Color Corp. site areas A and B; Classification 02: State Superfund Program, remedial investigation completed
Notes:

Redevelopment potential

Potential for light industrial uses to build upon location near SolarCity; opportunity to install rail sidings from adjacent lines.
229 Elk

Address: 229, 339, 427 Elk Street; 85 Lee Street; 98 Maurice Street
Owner: South Buffalo Development LLC
Acres: 20.9
Zoning: D-IL
Property class: 710 (manufacturing); 340 (vacant industrial)
Special district: None

Site criteria
Key building: Yes
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial
East: Vacant
South: Vacant
West: Rail

Access
Highways: I-190 (0.5 mile)
Rail service: Con-Rail (0.1 mile)
Bus route: 14 Abbott; 16 South Park; 23 Fillmore (0.2 mile)
Property description

**Previous use:** Allied Chemical and Dye Corporation and Buffalo Works General Chemical Company heavy industrial and chemical production

**Current use:** Inactive; undergoing remediation

**Existing structures:** Three buildings, ranging from one– to three-stories; buildings; 700 to 72,000 sf; built between 1917 and 1945; fair condition

Notes:

Environmental history

**Bulk storage facility:** No

**Hazardous waste generator:** No

**NYSDEC spill event site:** Closed; multiple spills; PCB; unknown resources impacted

**NYSDEC remediation database:** Classification C: Brownfield Cleanup Program, remedial investigation, remedial design and remedial action completed; Classification N: Brownfield Cleanup Program, application denied by DEC; Classification C: Brownfield Cleanup Program, Buffalo Color Corp Area E, NYSDEC environmental remediation site, likely contaminants include VOCs and petroleum, ongoing remediation activities

Notes:

Redevelopment potential

Potential for light industrial uses to complement proposed infill along Elk Street.
500 Elk

Address: 500 Elk Street; 1197 Perry Street
Owner: Scarp Property Associates LLC
Acres: 6.4
Zoning: D-IL
Property class: 710 (manufacturing); 330 (vacant commercial)
Special district: None

Site criteria

Key building: Yes
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities

Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses

North: I-190
East: Residential
South: Industrial
West: Residential

Access

Highways: I-190 (0.5 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.3 mile)
Property description

**Previous use:** Buildings served as Trico Products plant for manufacturing automobile components; vacant land was formerly comprised of multiple residential dwellings

**Current use:** Building fronting Elk Street is vacant; building fronting I-190 is used by Austin Air

**Existing structures:** Four- and five-story brick buildings, 476,000 sf; built in 1918; fair to good condition

**Notes:**

Environmental history

**Bulk storage facility:** Unregulated and closed PBS, two 11,600 gallon USTs closed and removed

**Hazardous waste generator:** No

**NYSDEC spill event site:** Closed; #6 fuel oil, soil impacted

**NYSDEC remediation database:** No

**Notes:** Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Vacant structure has adaptive redevelopment potential; vacant land has infill development potential to support industrial and commercial uses.
572 Elk

Address: 572 and 590 Elk Street; 1219 Perry Street
Owner: Modern Real Estate, LLC
Acres: 5.2
Zoning: D-IL
Property class: 331 (vacant commercial); 340 (vacant industrial); 433 (auto related)
Special district: None

Site criteria

Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities

Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses

North: Industrial
East: Vacant
South: Vacant
West: Industrial

Access

Highways: I-190 (0.4 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.3 mile)
**Property description**

**Previous use:** Hulbert Forwarding truck storage yard and vacant land  
**Current use:** Terminal, vehicle and equipment storage for garbage collection company  
**Existing structures:** One-story structure, 24,000 sf; good condition  

**Notes:**

---

**Environmental history**

**Bulk storage facility:**  
Unregulated PBS - four 5,000-gallon USTs closed and removed, one 2,000-gallon UST closed and removed; Inactive PBS - one 10,000-gallon UST closed and removed; Active PBS - six ASTs in service ranging from 10 to 12,000 gallons

**Hazardous waste generator:** Small quantity hazardous waste generator

**NYSDEC spill event site:** Closed; multiple spills; diesel, soil impacted; gasoline, groundwater impacted; petroleum, soil impacted

**NYSDEC remediation database:** No

**Notes:** Environmental Site Assessment should be completed prior to redevelopment

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**Redevelopment potential**

Site has infill development potential to support industrial and commercial uses emerging nearby.
620 Elk

Address: 620 Elk Street
Owner: K.D.M. Die Company Inc.
Acres: 2.8
Zoning: D-IL
Property class: 449 (warehouse/distribution)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial
East: Industrial
South: Vacant
West: Industrial

Access
Highways: I-190 (0.5 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.3 mile)
Property description

Previous use: Unknown
Current use: Distribution warehouse
Existing structures: One-story structure, 32,000 sf; built in 1954; good condition
Notes:

Environmental history

Bulk storage facility: No
Hazardous waste generator: Conditionally exempt small quantity generator
NYSDEC spill event site: Closed; motor oil, soil impacted
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has infill development potential to support industrial and commercial uses emerging nearby.
**654 Elk**

**Address:** 654 Elk Street; 20 Keating Street  
**Owner:** Bison Wholesale Inc.  
**Acres:** 5.4  
**Zoning:** D-IL  
**Property class:** 449 (warehouse/distribution)  
**Special district:** None  

<table>
<thead>
<tr>
<th>Site criteria</th>
<th>Utilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key building: No</td>
<td>Water: Buffalo Water Authority</td>
</tr>
<tr>
<td>Major facility: No</td>
<td>Sewer: Buffalo Sewer Authority</td>
</tr>
<tr>
<td>Underutilized: Yes</td>
<td>Natural gas: National Fuel</td>
</tr>
<tr>
<td>Vacant: No</td>
<td>Electric: National Grid</td>
</tr>
<tr>
<td>Brownfield: Yes</td>
<td>Phone: Verizon</td>
</tr>
<tr>
<td>Strategic location: Elk Street Corridor</td>
<td>High speed data: Time Warner</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adjacent uses</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>North: I-190</td>
<td>Highways: I-190 (0.5 mile)</td>
</tr>
<tr>
<td>East: Industrial, residential</td>
<td>Rail service: None</td>
</tr>
<tr>
<td>South: Vacant</td>
<td>Bus route: 15 Seneca; 19 Bailey (0.3 mile)</td>
</tr>
<tr>
<td>West: Industrial</td>
<td></td>
</tr>
</tbody>
</table>

![Map of 654 Elk site](image1)  
![Aerial view of 654 Elk site](image2)
Property description

Previous use: Residential before conversion to South Buffalo Auto Wrecking
Current use: Auto parts and junkyard
Existing structures: One-story cinder block structure, unknown floor area; good condition
Notes:

Environmental history

Bulk storage facility: Active PBS, two 250-gallon ASTs in service, one 150-gallon AST in service
Hazardous waste generator: No
NYSDEC spill event site: Closed, multiple spills; waste oil, soil impacted; auto waste fluid, soil impacted; motor oil and gasoline, soil impacted; auto fluids, soil impacted
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has infill development potential to support industrial and commercial uses emerging nearby.
710 Elk

Address: 710 Elk Street; 5 and 8 Kellogg Street
Owner: Natural Environmental Inc.
Acres: 0.9
Zoning: D-IL
Property class: 310 (vacant residential); 340 (vacant industrial)
Special district: None

Site criteria

- Key building: No
- Major facility: No
- Underutilized: Yes
- Vacant: Yes
- Brownfield: Yes
- Strategic location: Elk Street Corridor

Utilities

- Water: Buffalo Water Authority
- Sewer: Buffalo Sewer Authority
- Natural gas: National Fuel
- Electric: National Grid
- Phone: Verizon
- High speed data: Time Warner

Adjacent uses

- North: Junkyard
- East: I-190
- South: Industrial
- West: Junkyard

Access

- Highways: I-190 (0.5 mile)
- Rail service: None
- Bus route: 15 Seneca; 19 Bailey (0.3 mile)
Property description

Previous use: Residential and steel plate shop and parts storage
Current use: Outside storage for Modern Disposal garbage bins
Existing structures: None
Notes: Lot is largely vacant

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has infill development potential to support industrial and commercial uses emerging nearby.
612 Old Bailey

Address: 612, 620, 622 Old Bailey Avenue; 137, 139, 141 Prenatt
Owner: William O’Connell
Acres: 3.9
Zoning: D-IH, D-IL, D-OG
Property class: 330 (vacant commercial); 340 (vacant industrial)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial
East: Buffalo River
South: Industrial
West: Abandoned rail corridor

Access
Highways: I-190 (0.3 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.2 mile)
Property description

Previous use: Unknown
Current use: Auto impound and junkyard
Existing structures: Butler building; good condition
Notes:

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: No
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has infill development potential to support industrial and commercial uses emerging nearby.
787 Elk

Address: 787 Elk Street
Owner: 787 Elk Street LLC
Acres: 4.4
Zoning: D-IH
Property class: 447 (trucking terminal)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial
East: Residential
South: Industrial
West: Abandoned rail corridor

Access
Highways: I-190 (0.3 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.1 mile)
Property description

Previous use: Angert Auto Parts junkyard
Current use: Industrial and vehicle storage
Existing structures: Four buildings; one- and two-stories; approximately 22,500 sf total; built between 1930 and 1988; fair to poor condition

Notes:

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: No

Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has infill development potential to support industrial and commercial uses emerging nearby.
701 Elk (front)

Address: 701 Elk Street
Owner: Skier EAS Inc.
Acres: 1.0
Zoning: D-IH
Property class: 710 (manufacturing)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: No
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial
East: Industrial
South: Industrial
West: Vacant

Access
Highways: I-190 (0.3 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.2 mile)
Property description

Previous use: R.H. Thompson Paper Company; wholesale manufacturing
Current use: Gro-Green material and vehicle storage
Existing structures: Multiple one-story buildings; 450 to 10,500 sf; built in 1963; fair condition
Notes:

Environmental history

Bulk storage facility: Closed and unregulated PBS: one 2,000-gallon UST closed and removed, one 1,000-gallon UST closed and removed, one 4,000-gallon AST closed and removed, two 250-gallon ASTs closed and removed, one 15,000-gallon UST unregulated
Hazardous waste generator: No
NYSDEC spill event site: Closed, multiple spills; unknown material, soil impacted; diesel, soil and groundwater impacted
NYSDEC remediation database: Classification N: State Superfund Program, site characterization completed, waste solvents poured onto demolition materials in rear of site during 1960s
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has infill development potential to support industrial and commercial uses emerging nearby.
701 Elk (rear)

Address: None listed  
Owner: None listed  
Acres: 4.5  
Zoning: D-IH  
Property class: None listed  
Special district: None  

Site criteria

Key building: Yes  
Major facility: No  
Underutilized: Yes  
Vacant: Yes  
Brownfield: Yes  
Strategic location: Elk Street Corridor  

Utilities

Water: Buffalo Water Authority  
Sewer: Buffalo Sewer Authority  
Natural gas: National Fuel  
Electric: National Grid  
Phone: Verizon  
High speed data: Time Warner  

Adjacent uses

North: Industrial  
East: Industrial  
South: Industrial  
West: Vacant  

Access

Highways: I-190 (0.3 mile)  
Rail service: None  
Bus route: 15 Seneca; 19 Bailey (0.2 mile)
Property description

Previous use: R.H. Thompson Paper Company; wholesale manufacturing
Current use: Not in active use
Existing structures: Multiple brick buildings; ranging from two- to five-stories; unknown sf; poor condition
Notes:

Environmental history

Bulk storage facility: No
Hazardous waste generator: No
NYSDEC spill event site: No
NYSDEC remediation database: Classification N: State Superfund Program, site characterization completed, waste solvents poured onto demolition materials in rear of site during 1960s
Notes: Environmental Site Assessment should be completed prior to redevelopment

Redevelopment potential

Site has adaptive reuse potential to support industrial and commercial uses emerging nearby.
635 Elk

Address: 635 Elk Street
Owner: Exxon Mobil Oil Corporation
Acres: 6.5
Zoning: D-IH
Property class: 330 (vacant commercial)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: Yes
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial, residential
East: Industrial
South: Industrial
West: Vacant

Access
Highways: I-190 (0.3 mile)
Rail service: None
Bus route: 15 Seneca; 19 Bailey (0.2 mile)
**Property description**

**Previous use:** R.H. Thompson Paper Company wholesale manufacturing and storage; Socony Vacuum Oil Company heavy industry and manufacturing

**Current use:** Vacant land

**Existing structures:** None

**Notes:**

**Environmental history**

**Bulk storage facility:** No

**Hazardous waste generator:** No

**NYSDEC spill event site:** Closed, multiple spills; gasoline, groundwater and soil impacted

**NYSDEC remediation database:** Classification A: Brownfield Cleanup Program, remedial investigation and remedial actions completed

**Notes:**

**Redevelopment potential**

Site has infill development potential to support industrial and commercial uses emerging nearby.
503 Elk

Address: 503 and 542 Elk Street
Owner: Exxon Mobil Oil Corporation
Acres: 35.1
Zoning: D-IL
Property class: 340 (vacant industrial)
Special district: None

Site criteria
Key building: No
Major facility: No
Underutilized: Yes
Vacant: Yes
Brownfield: Yes
Strategic location: Elk Street Corridor

Utilities
Water: Buffalo Water Authority
Sewer: Buffalo Sewer Authority
Natural gas: National Fuel
Electric: National Grid
Phone: Verizon
High speed data: Time Warner

Adjacent uses
North: Industrial, residential
East: Industrial
South: Buffalo River
West: Industrial

Access
Highways: I-190 (0.6 mile)
Rail service: None
Bus route: 14 Abbott; 15 Seneca (0.5 mile)
Property description

Previous use: Land on south side of Elk Street was part of Socony Vacuum Oil Company and used for oil refining and storage; land on north side of Elk Street was residential before being converted to employee parking

Current use: Vacant land

Existing structures: None

Notes:

Environmental history

Bulk storage facility: No

Hazardous waste generator: No

NYSDEC spill event site: No

NYSDEC remediation database: Classification A: Brownfield Cleanup Program, remedial investigation and remedial actions completed

Notes:

Redevelopment potential

Site has large-scale infill development potential to support industrial and commercial uses emerging nearby; while portion of site adjacent to Buffalo River allows for water dependent uses to be established.
8.1 Marketing

The Buffalo River Corridor BOA underwent extensive market analysis to understand local, regional, and national contexts. Although the BOA’s history includes a great deal of heavy industry and transportation, market projections suggest that the study area must advance beyond these types of uses to reach its full potential.

The Nomination Study describes market trends, while taking into consideration the complex land base and community concerns that shape the plan. As with the city’s Green Code, a Smart Growth approach was employed to balance the BOA’s need for economic development with preserving the built environment and targeting vacant and underutilized properties for future redevelopment.

Five principles will be used to guide decision-making within the BOA:

- Leverage existing assets
- Diversify the economic base
- Encourage public realm investments
- Promote quality design and placemaking
- Establish a range of implementation activities

The Implementation Strategy identifies three strategic locations that meet these principles. However, the BOA has also witnessed extraordinary investments since work on the study began. These investments have been driven in part by the renewed development focus provided by the BOA program, and are positioned to continue as the strategic plan for the BOA is implemented. The visibility and success of these projects has become one of the primary means of marketing the BOA.

RiverWorks is a privately-funded entertainment complex on Kelly Island that combines repurposed industrial structures with new recreational facilities. It features twin hockey rinks located under a 50,000 square foot open-air roof. The rinks host hockey tournaments during the winter months and lacrosse in the summer. Inside is an event and concert space, roller derby track, four bars and restaurants, concessions, and locker rooms for the recreational leagues. The facility has 600 feet of frontage along the Buffalo River, with a public path, docks, and seating for outdoor dining.

The Ohio Street Reconstruction Project has been responsible for encouraging development along the corridor by transforming the street into a pedestrian-friendly parkway linking the Inner and Outer Harbors. The $11.4 million project was funded by the Federal Highway Authority, Erie Canal Harbor Development Corporation, and the city. It includes a multi-use bicycle and pedestrian pathway, cross-walks, landscaping, and LED street lighting. National Grid invested over $4 million to install new underground duct work and cabling to accommodate future development.
The project has improved public access to the waterfront, encouraged recreational opportunities, and stimulated additional investment such as Ellicott Development’s plans to build a $1.4 million permanent boathouse for the Buffalo Scholastic Rowing Association. The boathouse will include storage bays, training space, locker-rooms, and a repair facility. The BSRA is an association of high school rowing teams and community-based rowing clubs which currently operates a temporary facility at the site.

Ellicott Development has also invested $4.5 million in 301 Ohio Street, a five-story mixed-use facility consisting of commercial space, two restaurants, and 21 apartments. To the south, Savarino Companies is investing $18 million into Buffalo River Landing, a four-story development with 78 apartment. Further south along Ohio Street, the owner of three historic grain elevators has repurposed the structures into Silo City, an event space for theater, flea markets, literary readings, and craft beer festivals.

Elk Street continues to support a number of significant manufacturers, including Honeywell, Austin Air, and PVS Chemicals; in addition to welcoming newcomers such as the Heritage Discovery Center. A great deal of potential lies in the reuse of 30 acres at the former Allied Chemical and Buffalo Color manufacturing sites. Over the past decade these parcels have been cleared and remediated so that they can be put back into productive use.

Efforts to clean up and improve access to the Buffalo River have been a primary reason behind many of the developments that have occurred or are planned. Approximately one million cubic yards of contaminated sediment was recently dredged from the river as part of a $44 million partnership among the US EPA, Army Corps of Engineers, NYS DEC, Buffalo Niagara Riverkeeper, and Honeywell. This work was coupled with a project to restore roughly two miles of shoreline and 20 acres of habitat at eight sites along the river. Funded with a $4.7 million grant from the Great Lakes Restoration Initiative, it will increase the amount of natural and stable shoreline, improve storm water treatment, control and manage invasive species, reduce erosion, and limit sedimentation.

Two new parks are providing valuable recreational opportunities while attracting development to adjacent sites. Riverfest is a three-acre park with 600 feet of river frontage. It features boat docks, a wharf, boardwalk, trails and gardens, and an amphitheater. It was funded by a combination of 15 grants and contributions totaling $1.7 million. Tewksbury Lodge was recently added at its southern end. The two-story facility offers indoor seating for 120, with dining space and restrooms for park users.

Mutual Riverfront Park was developed with $2.3 million in funding from the New York Power Authority, and is located adjacent to the storage site for NYPA’s ice boom. The park includes a canoe and kayak launch,

In addition to the marketing opportunities resulting from recent and ongoing development efforts, research conducted by the Western New York Regional Economic Development Council for the “Buffalo Billion” identified a number of industry clusters to target. “A Strategy for Prosperity,” WNYREDC’s economic development plan that was released in November 2011, targeted eight specific industry sectors, including advanced manufacturing, bi-national logistics, professional services, and tourism. The report also calls for a comprehensive and coordinated approach to regional marketing and promotion to address the negative images of Western New York.

The BOA is best positioned to compete in advanced manufacturing, bi-national logistics, and tourism that takes advantage of its proximity to the waterfront. To advance development opportunities in the BOA, a coordinated marketing effort aligned with the ongoing efforts of the WNYREDC and local economic development organizations such as Invest Buffalo Niagara, and the Buffalo Urban Development Corporation is needed. Strategies to consider include:

- Marketing the BOA as a regional asset in its targeted industry clusters;
- Leveraging and promoting “Buffalo Billion” infrastructure investments;
- Uniting regional marketing power to entice businesses to expand in or relocate to the city;
- Implementing marketing campaigns to improve brand awareness of the BOA;
- Increasing direct foreign investment by targeting Canadian firms; and
- Matching company needs with incentive programs to encourage relocation or expansion.

Targeting appropriate markets will require ongoing analysis by WNYREDC and its partners. The audience for a successful marketing strategy includes investors, private sector companies, and brokers. Invest Buffalo Niagara’s Canadian strategy has produced significant success and created a road map for greater outreach. While Canada remains a key focus, additional national and international efforts using an industry-focused approach are required.

A marketing strategy requires multiple formats to reach potential investors. A strong web presence with industry sector and site specific content is an important avenue for pursuing a broad-based target audience. Invest Buffalo Niagara, BUDC, and ECIDA websites all currently maintain a strong presence that could be used to support the BOA. These organizations are able to maintain contact with key targets, stakeholders, and media outlets to promote positive news and foster awareness for the BOA. Other broad forms of outreach can include trade shows, industry journals, e-mail blasts, blogs, and direct mail. Using this creative marketing approach would be beneficial to introducing new audiences to this exciting area.

Previous efforts have also shown that most business owners are not interested in building a structure or dealing with issues associated with new construction. A majority of Invest Buffalo Niagara successes have been with companies that lease existing facilities, often in small spaces that allow them to introduce their products or services to the area. Including local developers will allow them to share their experiences, promote potential partnering opportunities, and create awareness of the requirements among companies interested in expanding or relocating.

The Implementation Strategy expands on previous planning efforts for the BOA, and provides recommendations for three strategic locations. A number of parcels throughout the BOA are owned by the city, and have sufficient environmental information regarding existing conditions for prospective buyers. However, most of the land is privately held, so that the assessment and remediation at these sites will be done at the discretion of individual owners.

To convey the information about the strategic locations and other areas of interest within the BOA, graphic representations such as plans, sections, and perspectives may need to be created. These can be used to better inform elected officials, community groups, residents, and potential investors of proposed implementation strategies. Additional advantages include use by news media, in advertisements, or for real estate agents looking to market specific properties.
Implementing the BOA Plan will require the participation of numerous stakeholders, including residents, community organizations, business owners, city departments, civic leaders, and cultural institutions. By partnering together, interested parties can share knowledge and execute the projects outlined in the plan.

Financial resources are pivotal to success. The following list outlines potential funding sources. It is often possible to combine funds from a range of sources to support priority projects.

**New York State**

The **Brownfield Cleanup Program** encourages private sector cleanup and redevelopment of brownfield sites through the use of tax credits. Sites located in approved BOAs are eligible for an additional five percent credit, on top of the amount conferred by their status. Exempt sites include sites listed as Class 1 or 2 in the Registry of Inactive Hazardous Waste Disposal Sites; sites listed on the USEPA National Priorities List; Hazardous waste treatment, storage or disposal facilities; sites subject to cleanup order or stipulation under Article 12 of the Navigation Law; or sites subject to any on-going state or federal enforcement actions regarding solid/hazardous waste or petroleum.

The **Environmental Restoration Program** provides municipalities with up to 90 percent of on-site and 100 percent of off-site costs associated with brownfield site investigation and remediation measures. Upon successful completion of the program, the municipality and future owners are released from liability for contaminants on the property prior to obtaining ownership. The municipality must own the property and not have caused the contamination; and the property cannot be listed as Class 1 or 2 on the New York State Registry of Inactive Hazardous Waste Sites.

The **Consolidated Funding Application** is designed to improve New York’s business climate and expand economic opportunity by directing state resources to development projects. Ten Regional Economic Development Councils have developed strategic plans with advice from a broad spectrum of stakeholders. These plans serve as road maps, guiding each region’s efforts to stimulate economic growth. The Western New York Regional Economic Development Council’s strategic plan and implementation agenda guide investments that the state makes through its annual Consolidated Funding Application process.

**Low Income Housing Tax Credits** is a state-administered program that provides federal tax credits for costs related to the development of affordable rental units. Both for-profit and non-profit developers can use LIHTC to construct new buildings or rehabilitate existing ones. All activities associated with housing development, including site remediation, can be claimed as expenses under LIHTC. Projects must rent at least 20 percent of the units to households with incomes at or below 50 percent of the area median; or at least 40 percent of the units to households with incomes at or below 60 percent of the area median.

The **Rehabilitation Tax Credit Program** provides a 20 percent tax credit for qualified rehabilitation expenditures, and is used in conjunction with the federal Historic Preservation Tax Incentive Program. Any commercial, industrial, or residential rental property is eligible if it is listed on the state or national register of historic places either individually or as a contributing building in a historic district; eligible for inclusion on the registers; or has an approved Part I federal tax credit certification. For the state credit, the property must also be located in a qualified census tract with a family income at or below the statewide median.

The **Green Innovation Grant Program** provides grants to municipalities and non-profits for projects that improve water quality and demonstrate green stormwater infrastructure. It is administered by the state Environmental Facilities Corporation through a grant from the US Environmental Protection Agency.

The **New York State Council on the Arts** funding for municipalities and non-profits is available for the study and presentation of performing and fine arts; surveys and capital investments to encourage participation in the arts and cultural heritage; and to promote tourism by supporting arts and cultural projects.
Federal Government

Brownfields Cleanup Funding by the Environmental Protection Agency provides technical and financial assistance to assess, remediate, and sustainably reuse brownfield properties. State, regional, and local governments and agencies; as well as non-profit organizations are eligible to apply. Up to $200,000 in funding is available for each identified site, but no entity may apply for cleanup at more than five sites. Grants require a 20 percent match, which may be in the form of funding, labor, materials, or services.

The New Markets Tax Credit Program was established to help economically distressed communities attract private investment by providing investors with tax credits. The program is designed to offset investment risks in low-income communities. An organization wishing to receive funding must be certified as a Community Development Entity, demonstrate a primary mission of serving low-income communities or residents, and maintain accountability to residents through representation on its governing or advisory board. In exchange for investing in a certified project, an investor receives 39 percent of the investment value in tax credits over a seven-year schedule.

Historic Preservation Tax Incentives provide investors with a 10 or 20 percent tax credit that can be claimed for the year in which an eligible building is put into service. A historic structure is defined as a building that is listed individually in the National Register of Historic Places, or as a contributing building within a certified local historic district. Rehabilitation of certified historic structures qualifies for a credit equal to 20 percent of the cost of the work; while rehabilitation on non-certified structures qualifies for a credit equal to 10 percent of the cost of the work. All restored buildings and properties must be income producing and rehabilitated according to the Department of Interior’s standards. Projects must meet IRS criteria to qualify for the credit, including: the structure must be depreciable; the property must be returned to an income-producing use; and the building must be maintained as a certified historic structure when returned to service.

The Great Lakes Habitat Restoration Program funds technical assistance to state agencies, municipalities, and non-profits to restore coastal habitats along the Great Lakes. Projects funded by NOAA typically have strong habitat restoration components that provide social and economic benefits for persons and communities, in addition to long-term ecological habitat improvements.

Foundations

The Great Lakes Protection Fund provides funding to government, academia, and non-profits for research projects that protect, restore and improve the health of the Great Lakes ecosystem.

Sustain Our Great Lakes provides funding to non-profits and state, tribal, and local governments to sustain, restore and protect fish and wildlife habitat in the Great Lakes basin, build conservation capacity, and focus partners and resources toward key ecological issues.

Fish America provides funding to non-profits and conservation-minded groups to enhance fish populations, restore habitat, improve water quality, and advance fisheries research to improve sport fishing opportunities.
The BOA Plan has been prepared in accordance with guidelines established by the New York State Departments of State and Environmental Conservation for the Step 2 Nomination Study and Step 3 Implementation Strategy phases of the BOA program. It is anticipated that the adoption and implementation of the Plan will result in the redevelopment of several brownfield, abandoned, and vacant sites; enhanced open space and parks; new commercial, recreational and mixed-use opportunities; and improvements to access and connectivity.

This section describes how State Environmental Quality Review Act requirements have been fulfilled; including consistency with New York State Coastal Management Program policies, Heritage Area Management Plans, and specific conditions or criteria under which future actions will be undertaken or approved, including requirements for any subsequent SEQRA compliance. This includes thresholds and criteria for supplemental Environmental Impact Statements to reflect site specific impacts that are not adequately addressed in the Draft Generic Environmental Impact Statement.

The following provides an overview of the BOA process, beginning with the Step 2 Nomination Study phase and its integration with the larger Buffalo Consolidated Development Framework.

### Early SEQRA Procedural Steps

Prior to starting the environmental impact review process for the BOA, the city conducted a series of procedural steps in accordance with SEQRA and its implementing regulations. It completed Part 1 of the Environmental Assessment Form, and classified BOA adoption and implementation as a Type 1 action under SEQRA. The project was considered a Type 1 action because it would involve adoption of a plan with prescribed land use components; the physical alteration of over 10 acres of land; and certain unlisted actions conducted within publicly-owned recreation areas and designated open spaces. Other Type 1 activities were also assumed to apply, given the number and types of projects that could be implemented as a result of the plan.

Upon completing Part 1 of the EAF and classifying the project as a Type 1 action, the Common Council passed a resolution on February 5, 2008 proposing to seek SEQRA lead agency status for the adoption and implementation of the BHBOA Plan, and indicated its intent to conduct a coordinated review by requesting consent from other potentially involved agencies to act as SEQRA lead agency.

On March 18, 2008, upon receiving consent from potentially involved agencies, the Common Council passed a resolution resolving that it would act as lead agency for the Project and issued a Positive Declaration indicating that the adoption and implementation of the BOA Plan may have a significant impact on the environment and that a DGEIS would be prepared.

The city determined that a GEIS rather than a project-specific conventional EIS was particularly well suited because the BOA Plan:

- Represents a number of separate actions within the study area, which alone may have minor impacts, but together may have significant impacts; and
- Is an entire program or plan having wide application that may have new or significant changes to affecting the range of future policies, projects, and changes to land use, zoning, or development plans.

### Buffalo Consolidated Development Framework

Since 2008, the city has initiated a significant number of planning initiatives, including the preparation of a land use plan and zoning ordinance, a Local Waterfront Revitalization Program, and four BOA Nomination Studies. Based on the number and scope of these initiatives, the city decided that a consolidated environmental impact review process, through preparation of a GEIS, would be an appropriate vehicle for SEQRA compliance.

As a result, the city initiated a comprehensive SEQRA review under the auspices of the Buffalo Consolidated Development Framework. The BCDF is the culmination of years of planning work that aims to encourage and support redevelopment within the city. This effort consists of the following initiatives:

- The **Land Use Plan** accommodates future land uses in a way that reinforces the city’s historic character;
- The **Unified Development Ordinance** provides form-based zoning recommendations, revised subdivi-
sion and sign ordinances, and standards for street design and reconstruction;

- The **Local Waterfront Revitalization Program** guides development along the city’s coastal areas;

- An **Urban Renewal Plan** assessment provides recommendations on the termination, replacement, or modification of these plans to better reflect current community and economic development needs; and

- **Brownfield Opportunity Area Plans** for Buffalo Harbor, the Buffalo River Corridor, South Buffalo, and the Tonawanda Street Corridor guide redevelopment opportunities in those areas.

As part of the BCDF effort, it was determined that while certain elements of the Step 2 Nomination Study met the SEQRA GEIS content requirements (Project Description and Boundary, Community Participation, and Analysis and Inventory), the remaining elements necessary to satisfy SEQRA compliance requirements including analysis of the BOA’s potential adverse environmental impacts, description of mitigation measures and the range of reasonable alternatives to the action, conditions for future actions, and GEIS references, would be addressed in the broader DGEIS prepared for the BCDF.

The BCDF took a number of procedural steps under SEQRA, which in part satisfy the DGEIS requirements for the BOA Plan. On May 29, 2012, Common Council received a Full Environmental Assessment Form prepared on its behalf by the city’s Office of Strategic Planning. The Common Council determined that pursuant to 6 NYCRR § 617.4 (b) (1) that the adoption of the components of the BCDF was a Type 1 Action under SEQRA.

On May 30, 2012, the Common Council circulated a letter to other involved agencies and interested parties stating its intent to act as Lead Agency. Since no objections were raised, on July 10, 2012 the Common Council assumed the role of SEQRA Lead Agency. Pursuant to 6 NYCCR § 617.7, the Common Council determined that the adoption and implementation of the BCDF may have an adverse impact on the environment and that a DGEIS must be prepared. A Positive Declaration was subsequently issued on July 10, 2012.

The Common Council also determined that scoping for the DGEIS would be appropriate. Scoping, as established in 6 NYCCR § 617.8, is a process by which the Lead Agency, with input from the public, involved, and interested agencies, identifies potentially adverse impacts that should be evaluated in the DGEIS and eliminates impacts that are irrelevant or non-significant from consideration.

### SEQRA Procedural Steps

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<tr>
<th>Procedural Step</th>
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<th>Completion date</th>
<th>DGEIS reference</th>
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<tr>
<td>EAF Part 1</td>
<td>6 NYCRR 617.6(a)(2)</td>
<td>May 29, 2012</td>
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<td>July 10, 2012</td>
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<td>EAF Parts 2 and 3</td>
<td>6 NYCRR 617.6(a)(2)</td>
<td>July 10, 2012</td>
<td>BCDF DGEIS Appendix</td>
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<td>6 NYCRR 617.12(a)(2)(ii)</td>
<td>July 10, 2012</td>
<td>BCDF DGEIS Appendix</td>
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<td>July 10, 2012</td>
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<td>6 NYCRR 617.12(a)(2)(iii)</td>
<td>February 16, 2016</td>
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<tr>
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<td>6 NYCRR 617.12(a)(2)(iii)</td>
<td>April 22, 2016 (closed)</td>
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<td>December 13, 2016</td>
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<td>Findings Statement</td>
<td>6 NYCRR 617.11</td>
<td>December 27, 2016</td>
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The Lead Agency determined on February 16, 2016 that the DGEIS was complete and adequate for public review. Once the Lead Agency made this determination, a public comment period began. During the comment period, the public and interested and involved agencies submitted comments regarding the evaluation and conclusions summarized in the DGEIS. Following the comment period, the Common Council, as Lead Agency, assembled the comments and subsequently determined the appropriate procedural steps to complete the SEQRA review.

**Fulfillment of DGEIS Content Requirements**

The DGEIS is partially incorporated into the BOA Plan (Project Description and Boundary, Community Participation, Analysis, and Inventory). The remainder of the DGEIS content requirements (analysis of potential adverse environmental impacts, description of mitigation measures and the range of reasonable alternatives to the action, GEIS references, and conditions for future actions) are included in the BCDF DGEIS.

The DGEIS has been prepared in accordance with 6 NY-CRR 617.10, and as such presents a more general set of analyses than a conventional, project-specific EIS. The DGEIS describes the proposed action, and includes assessments of specific anticipated impacts commensurate to the level of detail available. The analysis is based on conceptual information due to the comprehensive and prospective nature of the BOA Plan.

The following is a brief summary of the BOA Plan elements and their relationship to the DGEIS content requirements:

**Project Description and Boundary**

The description of the proposed action and boundary justification was prepared as part of the Step 2 Nomination Study. The project description and boundary justification satisfies both SEQRA and BOA program requirements. The BOA Plan includes a concise description of the project and its purpose, public need and benefits, including social and economic considerations. A map showing the location of the BOA in relation to the city, county, and region is also included.

**Community Participation**

The BOA Plan includes a description of the extensive community participation process implemented as part of the plan. It summarizes the partners who have been consulted, the methods and techniques used to inform partners about the project’s status, and progress enlist their assistance in the process. It also provides a summary of stakeholder meetings and public open houses that have occurred at appropriate stages during the planning process. In addition to the community participation process in the BOA Plan, the BCDF DGEIS provides an overview of the community participation process conducted for all of the planning initiatives and the associated SEQRA public scoping effort, comment period, and hearing processes. These extensive efforts satisfy both SEQRA and BOA program requirements.

**Environmental Setting**

The BOA Plan provides a concise description of the environmental setting of the study area, in conformance with both SEQRA and BOA program requirements. It includes a description of the community and regional setting; existing land use and zoning; brownfield, abandoned and vacant sites; land ownership patterns; parks and open space; a building inventory; historic and archeologically significant areas; transportation, infrastructure, and utilities; natural resources and environmental features; and economic and market trends.

**Impacts, Mitigation and Alternatives**

The DGEIS prepared for the BCDF includes an analysis of potential adverse environmental impacts, mitigation measures where applicable and appropriate, and an analysis of alternatives. Included in this discussion is an analysis of the BCDF’s consistency with New York State Coastal Management Program polices (addressed as part of the LWRP in the DGEIS) and Heritage Area Management Plans, as applicable. This material satisfies both SEQRA and BOA program requirements.

**Thresholds and Criteria for Future Actions**

The DGEIS prepared for the BCDF also identifies and establishes thresholds and criteria under which future actions will be undertaken or approved, including requirements for any subsequent SEQRA review. Future SEQRA review of projects is limited to either topics or specific sites that were not evaluated in the DGEIS. BHBOA-specific thresholds included in the DGEIS satisfy both SEQRA and BOA program requirements.
## DGEIS Content Requirements and Locations

<table>
<thead>
<tr>
<th>Plan element</th>
<th>Location</th>
<th>Content requirements met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project/Boundary description</td>
<td>BOA Plan Section 1</td>
<td>Description of proposed action</td>
</tr>
<tr>
<td>Community Participation</td>
<td>BOA Plan Section 1</td>
<td>SEQRA public hearing conducted simultaneously with BHBOA Plan public hearing</td>
</tr>
<tr>
<td>Analysis and Inventory</td>
<td>BOA Plan Sections 2 and 3</td>
<td>Description of environmental setting</td>
</tr>
<tr>
<td>Implementation Strategy</td>
<td>BOA Plan Section 4</td>
<td>Potential significant adverse impacts; description of mitigation measures and range of reasonable alternatives to proposed action</td>
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<tr>
<td>SEQRA Compliance</td>
<td>BOA Plan Section 5</td>
<td>Consistency with state Coastal Management Program policies; consistency with Heritage Area; GEIS references; conditions for future actions</td>
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