

Cover Photos (Clockwise from Top Left): Ken Aspeslagh; Amesburytrails.net; Andrew P Watson; City of Amesbury; and Tom Barrasso.

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# **Section 1: Plan Summary**

The City of Amesbury is rich in natural resources that provide ample open space and recreation opportunities for residents and visitors. Lake Attitash and Lake Gardner, several ponds, the Merrimack and Powwow Rivers, open space preserves, farmland, numerous parks, the Town Forest, and the Riverwalk dot Amesbury's natural landscape. To guide the City of Amesbury's stewardship of its open spaces, natural resources, and recreation facilities, this 2020 Amesbury Open Space and Recreation Plan presents updates to the 2012 Amesbury Open Space and Recreation Plan based on the Municipal Vulnerability Preparedness (MVP) planning efforts completed in 2019. As land development initiatives and climate hazards increase pressure on remaining undeveloped land in Amesbury, protection of key parcels, vistas, and connections between existing protected open space is crucial to ensure municipal resiliency. Stewardship efforts are required to address increasing pressure from human use, invasive species, and the adverse impacts of climate change.

While the City of Amesbury is fortunate to balance its urban downtown setting with a wealth of open space, trails and natural resources, the City faces financial, management, and staffing challenges to address the diverse needs of parks, playgrounds, athletic fields, and conservation land. Certain recreational uses are underserved, and high levels of use alongside deferred maintenance and budgetary and staffing constraints have created significant challenges for the City's existing parks and recreational facilities. Moreover, climate change is already having profound effects on people, infrastructure, ecosystems and wildlife. Open space such as undeveloped lands and urban green spaces contribute to mitigating climate change by reducing greenhouse gases and increasing resilience in the face of changes already underway. Therefore, it is important to ensure that Amesbury's investments in land protection benefit not only natural resource protection, landscape connectivity, and the recreational needs of the Amesbury community but also incorporate other aspects of resiliency to climate change.

As Amesbury prepares and plans for the effects of climate change, the overarching goals of its 2020 Open Space and Recreation Plan (OSRP) are to preserve and enhance the City's existing open spaces, natural resources, and recreational facilities and leverage additional opportunities for passive and active recreation for all residents through a resiliency lens. Considering these overarching goals, the OSRP identifies objectives and actions to achieve the following sub-goals:

- 1. Preserve, restore, enhance and acquire natural resources that increase Amesbury's resilience to the effects of climate change, protect Amesbury's drinking water supply, and expand opportunities for passive and active recreation.
- 2. Maintain, enhance, and create recreational facilities for the enjoyment of Amesbury residents and visitors of all ages, abilities and interests.
- 3. Improve care, management and awareness of existing protected land, natural resources, and recreational facilities.
- 4. Improve access to and connectivity among open spaces, recreational facilities, and other important city resources for all members of the Amesbury community, including low-income neighborhoods, English language learners (ELL), persons with disabilities, and older residents ("socially vulnerable populations").
- 5. Improve coordination and collaboration among departments, committees, and local organizations working toward common goals for open space, natural resources, and recreation within Amesbury and with abutting municipalities.

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<sup>&</sup>lt;sup>1</sup> Losing Ground – Nature's Value in a Changing Climate (Sixth Edition), prepared by Mass Audubon, 2020.

#### **Section 2: Introduction**

# A. Statement of Purpose

Open Space and Recreation Plans help guide the protection and management of open space and recreational facilities within municipalities. Parks and open space enhance quality of life, and a growing body of evidence emphasizes that parks and related programming are a critical part of a community's public health infrastructure. This role has been made even more prominent by the COVID-19 pandemic, with local parks and open space providing much-needed respite from quarantine when social distancing is necessary. In addition to these social and public health benefits, open space planning can provide ecological, climate resiliency and economic benefits by minimizing the misuse or mismanagement of a community's natural resources, preserving or enhancing ecosystem services provided by natural systems, and by proactively managing natural resources for these multiple cobenefits. From protecting water resources through nature based solutions, land conservation, and green infrastructure to reducing urban heat island effect by providing urban tree canopy, open space, natural areas, and parks also play a critical role in building climate resilient communities. The purpose of this document is to help ensure that investments in land protection benefit not only natural resource protection, landscape connectivity, and the recreational needs of the Amesbury community but also incorporate other aspects of resiliency to climate change.

This Plan Update builds upon the draft Amesbury Open Space and Recreation Plan (OSRP) that was intended to cover a 7-year period starting in 2012 and expiring in 2019. However, this prior OSRP remained in draft form and was not submitted for State approval. The draft plan has been utilized as a basis for the 2020 OSRP Update, which also incorporates information acquired during the 2019 MVP Planning efforts including the Natural Resources Inventory Assessment (NRIA) report.

The 2020 Plan Update has been compiled in accordance with the Massachusetts Executive Office of Energy and Environmental Affairs (EEA) and Division of Conservation Services (DCS) requirements and guidelines. For Amesbury to be eligible for grant aid offered through the EEA, an approved Open Space and Recreation Plan is required.

# **B.** Planning Process and Public Participation

This new seven-year plan has been developed by consultant BSC Group, Inc. (BSC Group) with the support of the Amesbury Open Space, Natural Resources, and Trails Committee (OSNRTC), staff from the City of Amesbury Department of Energy & Environmental Affairs, Amesbury residents, and members of City boards and committees. For this open space update, the following public participation efforts were completed:

- Fall 2019 survey undertaken by OSNRTC
- Fall 2019 MVP community engagement process
- Virtual OSRP Presentation held on April 16, 2020
- Online survey and interactive mapping conducted from April 16, 2020 to May 1, 2020

In 2018, the City of Amesbury applied for and received a MVP program grant from the EEA to complete a climate vulnerability assessment and action-oriented resilience plan. The MVP process follows the Community Resilience Building (CRB) framework developed by EEA and The Nature Conservancy, and its resulting reports are integral to this OSRP. The CRB framework uses a community-driven workshop process to identify climate-related hazards, community strengths and vulnerabilities, and to develop solutions to address these considerations. The MVP program emphasizes the value of nature-based solutions to climate challenges due to the many co-benefits that often accrue. Amesbury was also granted EEA funds to complete a Natural Resources Infrastructure Assessment (NRIA) project, which

assessed Amesbury's existing natural resources and evaluated their climate vulnerability and/or resiliency as well as their capacity to contribute to Amesbury climate resiliency goals through nature-based solutions. This OSRP incorporates the NRIA results.

The goals and objectives articulated in this document reflect many of the goals and objectives of other Amesbury plans including the MVP Community Resilience Building Summary of Findings Report (2019), MVP NRIA Report (2019), Sports Fields Master Plan (2018), the Amesbury Landscape Reconnaissance Report (2005), and the Amesbury Master Plan (2004). These public plans and reports involved extensive community participation and input and reflect the collective knowledge and vision of the Amesbury community at large.

Although it has been some years since an OSRP has been approved, Amesbury has continued to expand and enhance open space and recreational resources. Examples of these efforts include the creation of Heritage Park on a former industrial site in the Lower Millyard in 2014 and a splashpad in Town Park in 2015. In 2016, the OSNRTC was established to support the maintenance, update, and implementation of Amesbury's OSRP. The committee includes representatives from the City Council, Conservation Commission, Planning Board and at-large Amesbury residents.

# **Section 3: Community Setting**

# A. Regional Context

The City of Amesbury is located at the crossroads of I-95 and I-495 in northeastern Massachusetts in Essex County. It is a primarily residential community that lies along the northern banks of the Merrimack River and is bordered by the Towns of Merrimac to the west, West Newbury to the southwest, Newburyport to the southeast, Salisbury to the east, and South Hampton, New Hampshire, to the north. Amesbury is a member of the Merrimack Valley Regional Planning Commission, which encompasses 14 other constituent communities across the Merrimack Valley region.

Covering 13.7 square miles, Amesbury is comprised of 12.3 square miles of land and 1.5 square miles of water. The City of Amesbury lies completely within and downstream from much of the Merrimack River Watershed and contains an abundance of water resources including rivers, floodplains, ponds and wetlands. The Merrimack River Watershed encompasses approximately 5,000 square miles, originating in Northern New Hampshire and discharging into the Atlantic Ocean in Newburyport, Massachusetts. The river and its associated canals and tributaries helped fuel the industrial revolution in the 1800s, and today the river system supports a variety of uses, including water supply, recreation, aquatic habitat, and hydropower. In Amesbury, Lake Gardener and the Powwow and Back Rivers drain the eastern parts of the city, while Lake Attitash, Tuxbury Pond, the Powwow River, Goodwin's Creek, and the Great Swamp drain the western parts of town. The Merrimack and Powwow Rivers are both tidally influenced.

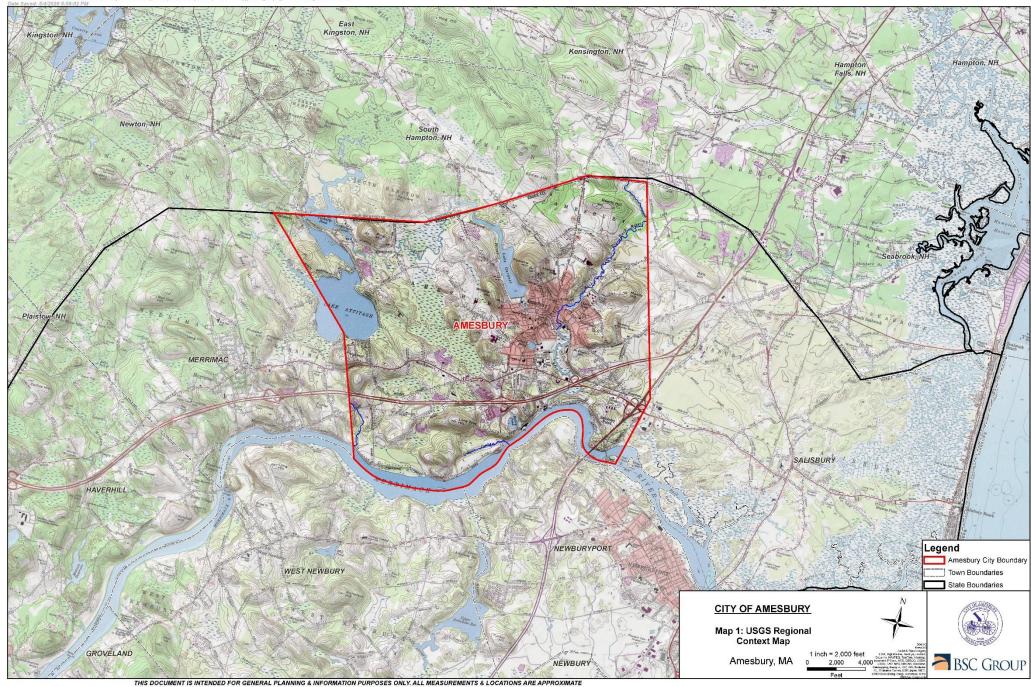
Key water resources in Amesbury are located within the Powwow River sub-watershed, which also provides the primary source for the City's public drinking water supply. The estimated 58 square mile Powwow River sub-watershed lies at the eastern end of the Merrimack River watershed and encompasses 12 municipalities in New Hampshire and Massachusetts. Towns in New Hampshire include Sandown, Hampstead, Danville, Kingston, Newton, East Kingston, South Hampton, Kensington, and Seabrook. The Massachusetts communities include Merrimac, Amesbury, and a very small portion of Salisbury. The watershed is primarily rural and suburban with more intense development downstream in Amesbury.

The city is rich in natural resources that provide ample recreation opportunities. Lake Attitash and Lake Gardner, several ponds, a public beach, the Merrimack and Powwow Rivers, open space preserves, protected and unprotected farmland, numerous parks, the Town Forest, and the Riverwalk dot Amesbury's natural landscape. Additionally, the New England Sports Park and the Amesbury Golf & Country Club provide additional recreation amenities to the region's residents.

Efforts to connect Amesbury to regional trail networks have been undertaken in recent years by the City of Amesbury, the Coastal Trails Coalition, the MA Department of Transportation (MassDOT), MA the Department of Conservation and Recreation (MA DCR) and Merrimack Valley Metropolitan Planning Commission (MVPC). The Amesbury/Salisbury Trail Connector at I-95 will connect the Amesbury Riverwalk to the western end of Salisbury's Ghost Trail. This project, which began construction in 2019, also includes a trailhead at the historic Chain Bridge filling station in Amesbury with a connecting stairway to the Garrison Trail on the I-95 Whittier Bridge. The trail connection under I-95 represents one of the last missing links in the Coastal Trails Network and will provide safe travel on foot or by bike between the two communities.<sup>2</sup>

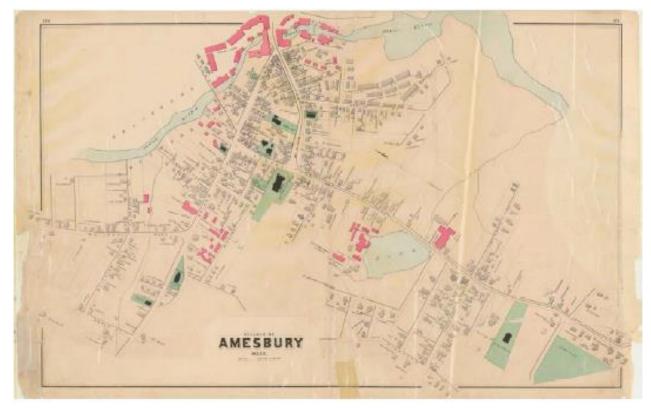
The regional land trust, Essex County Greenbelt Association (Greenbelt), has taken the lead for regional conservation efforts. The regional land trust owns and manages 7,490 acres of conserved land across Essex County, and holds over 240 conservation restrictions, permanently protecting an additional 6,700 acres owned by private individuals, municipalities, or other organizations. In 2019, Greenbelt completed its second conservation restriction in Amesbury on the Amesbury portion of Heron Pond Farm. Greenbelt also owns the Whittier Hill Reservation, with a trail connecting to Woodsom Farm. Driven by an interest in connecting with municipal and regional partners, Greenbelt undertook a Prioritization Mapping project in 2019 that integrates the latest geospatial data and evaluates the climate resilience of Essex County. Over 6,500 parcels across the county were evaluated for their conservation value through the lenses of agriculture, natural resilience, habitat, drinking water, inland and coastal flood mitigation, and urban cooling. The Amesbury Prioritization Maps are included in Appendix D in this Plan.

<sup>&</sup>lt;sup>2</sup> "2019 CTC Progress Report," Coastal Trails Coalition, <a href="https://coastaltrails.org/news/2019-ctc-progress-report/">https://coastaltrails.org/news/2019-ctc-progress-report/</a>.



# **B.** History of the Community

Amesbury shares its early history with neighboring communities including Merrimac and Salisbury. First settled by Europeans in 1645, the town was incorporated in 1668. It originally included Merrimac, which became a separate community in 1876. Boundaries shifted as late as 1886 when Amesbury annexed parts of Salisbury. During the Colonial period, between 1675-1775, Amesbury remained mostly agricultural with dispersed farmsteads engaged in food production and animal husbandry. With plentiful waterpower, a variety of small-scale industries started to develop in the early 19th century including ironworks, sawmills, gristmills, tanneries, hat manufacturing, shipyards and maritime commerce. During the latter part of the 18th century and into the 19th century, transportation routes improved with construction of several bridges including the Essex Merrimack Bridge in 1790. Water travel continued along the Merrimack River while maritime industries, including fishing, shipping and shipbuilding, remained important until the War of 1812. Textile mills were built along the falls of the Powwow River beginning in the early 1800s and assumed an increasingly important role in Amesbury's economy during the 19th century, moving the commercial and civic center of the community inland along the Powwow River. This early industrial period was one of significant growth in Amesbury, with population increasing by 128% between 1830 and 1870.



VILLAGE OF AMESBURY, 1884 (SOURCE: DRAFT 2012 - 2019 OPEN SPACE AND RECREATION PLAN)

Carriages for horse and buggy were one of Amesbury's chief products until the 20th century, when the carriage mills converted their production facilities into plants for making automobile bodies. Until the Great Depression of 1929, auto body making was a major industry in the town. Farming continued into the 20th century, with emphasis on dairy products and hay in the pre-World War II period. Manufacturing became more diverse by mid-20th century with residential development occurring in the town center and in outlying areas.

The construction of Routes I-95 and I-495 in the 1960s and 70s was a major force of change, bringing widespread residential and commercial growth to Amesbury that dramatically changed the character of the community. The city's current population (2017 estimate) is just over 17,200, and like most Essex County communities, it faces intense pressure for development. The advent of the interstate highway system, and the associated connection provided by Route 110 to the towns of Salisbury and Merrimac, helped encourage the automobile-oriented commercial strip development adjacent to the I-95/I-495 intersection. Land uses along the Route 110 corridor are more diverse in nature, consisting of a mix of small- and large-lot commercial and industrial development interspersed with various densities of older and newer residential uses. Additional industrial areas are located south of I-495, along the Hunt Road corridor, and in the Amesbury Industrial Park, all within proximity to the interstate system.<sup>3</sup>

# **C.** Population Characteristics

In 2017, Amesbury's population was approximately 17,2184 with a density of 1,400 people per square mile, and it is continuing to grow. Given Amesbury's proximity to 1-95 and 1-495, and residing approximately 40 miles north of Boston, the city continues to be attractive to both residential and commercial development. Consistent with regional and national trends, Amesbury has continued to move away from the typical mill town employment base toward a more suburban employment structure, with increasing emphasis on service-related employment.

To properly plan for Amesbury's open space and recreational needs, the size, density, and composition of the population must be considered. Based on the 2017 American Community Survey (ACS) estimates, Amesbury's household growth, at slightly above 10% since 2000, is faster than the state (5.8%) or Essex County (6.8%). However, this is despite a modest population growth, which is only at 4.7%. The average household size decreased from 2.52 persons per household, to an estimated 2.4 persons per household.

Change in Amesbury Household Characteristics. 2000 - 2017

	2000	2010	2017 Estimate	% Change from 2000 - 2017
Population	16,450	16,283	17,218	4.7%
Households	6,380	6,642	7,025	10.1%
Households with individual(s) < 18 years	36.4%	31.5%	32.2%	-11.5%
Average Household Size	2.52	2.41	2.40	-4.8%
Average Family Size	3.09	3.02	3.05	-1.3%
Source: U.S. Decennial Census 2000 and	2010; 2013-20	017 American Com	munity Survey E	Estimates

In addition, according to the 2018 Amesbury Housing Production Plan, Amesbury households are growing at a faster rate than many of the region's communities. The composition of households in Amesbury is also changing with fewer households with children, more single person households, and more older adults (age 65 plus).

The Merrimack Valley Priority Growth Strategy (updated in 2015), projected that the population of Amesbury would increase by nearly 12% from 2010 to 20355; while the UMass Donohue Institute population projections indicate a potential decline in Amesbury's population by just over 800 people

<sup>&</sup>lt;sup>3</sup> The Town of Amesbury Master Plan, Prepared by Vanasse Hangen Brustlin, Inc., 2004.

<sup>&</sup>lt;sup>4</sup> 2013 – 2017 American Community Survey 5-Year Estimates, United States Census Bureau.

<sup>&</sup>lt;sup>5</sup> Merrimack Valley Priority Growth Strategy - Regional Land Use Plan for the Merrimack Valley Region, Prepared by the Merrimack Valley Planning Commission, 2015.

during the same period. Despite this potential decline, the latter projections also show that the age composition of Amesbury's population will continue to change. The projections indicate a 112% increase in older adults (age 65 years and over), reaching nearly 29% of the population, fewer households with children, more single-person households, and a smaller percentage of adults age 20 to 34 years. The aging population will increase demand for more passive recreational and learning opportunities for 65+ residents.

There are four census tracts in the city, divided into the City Center, Haverhill/Kimball Road, Congress Street/Fern Avenue, and the Salisbury Point neighborhoods. The City Center neighborhood makes up a third of the city's population, followed by the Haverhill/Kimball Road area on the west side of Amesbury where just over a quarter of the city's residents live. The Congress Street/Fern Avenue and Salisbury Point areas on the east side of the city make up 20% and 23% of the population, respectively. The overall distribution of age ranges is consistent throughout the Amesbury neighborhoods, though the highest percentage of seniors (18%) is found in the Salisbury Point neighborhood.<sup>6</sup>

#### **INCOME**

In 2017, the median income in Amesbury was \$78,6387, and while households have comparable incomes to households in the region, the poverty rates in Amesbury (5%) are significantly lower than in the Merrimack Valley region (13%).8 Using 2015 ACS estimates, the Amesbury Housing Production Plan (2018) found that roughly 35% of Amesbury households have an income of \$100,000 or more, and about 32% have an income of less than \$50,000, whereas about 34% of households in the region and 38% in the state have an income of \$100,000 or more. About 39% of households in the region and 34% of households in the state have an income less than \$50,000.

#### INDUSTRY AND EMPLOYMENT

Amesbury's economic history is like most Merrimack Valley communities in that both agriculture and manufacturing played major roles in the development of the city. Today, agriculture has a minor role, and manufacturing no longer dominates the economic base of the community. According to 2015 ACS estimates, close to half of Amesbury's labor force is employed in the management, business, science, and arts industries, about 21% is employed in sales or office occupations, and about 17% is employed in the service industry. The remaining employed population works in the fields of natural resources, construction, and maintenance and production, transportation, and material moving.

As of 2015, an estimated 53% of Amesbury households have less than a 30-minute travel time to work, indicating the availability of jobs within and close to the community. This is slightly lower than the estimated percentage of the population that has a less than 30-minute travel time to work in the region (57%), the county (57%), and the state (56%). About 14% of Amesbury households commute over an hour, which is comparable to the region, county, and state.

#### **VULNERABLE POPULATIONS**

The Massachusetts Environmental Justice Policy is intended to foster the equitable distribution of environmental benefits and to improve environmental quality for communities of color and low-income communities. This is to be accomplished both through protection from environmental pollution and

<sup>&</sup>lt;sup>6</sup> Amesbury Sports Fields Master Plan, prepared by Milone & Macbroom, October 2018.

<sup>&</sup>lt;sup>7</sup> 2013 – 2017 American Community Survey 5-Year Estimates, United States Census Bureau.

<sup>&</sup>lt;sup>8</sup> Amesbury Housing Production Plan, prepared by the Merrimack Valley Planning Commission, 2018.

<sup>&</sup>lt;sup>9</sup> Ibid.

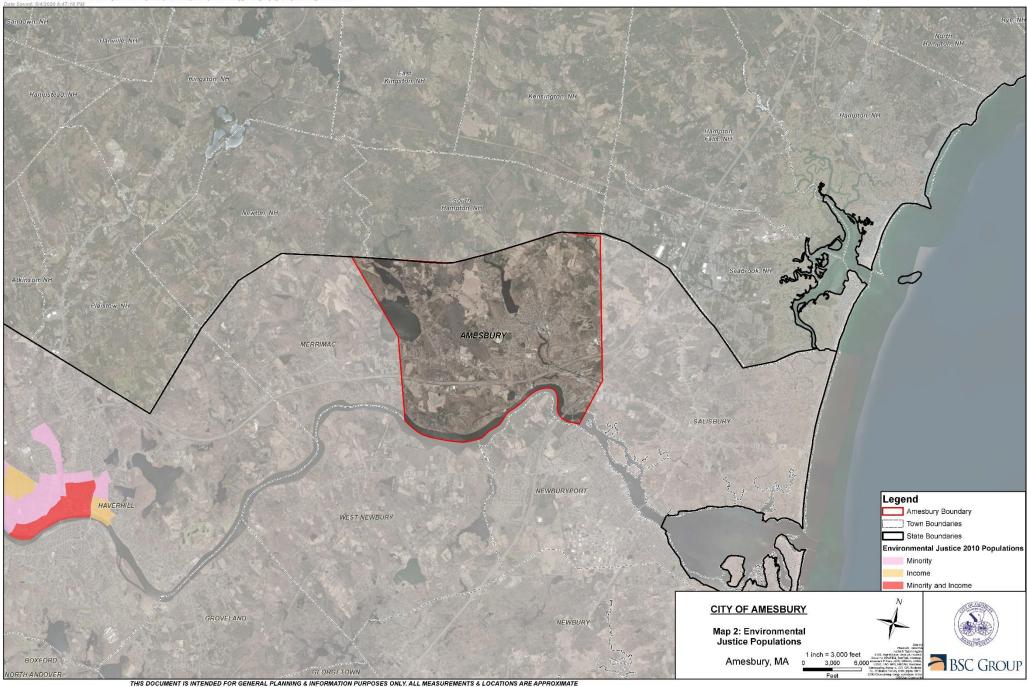
ensuring access to parks, green spaces and recreational opportunities. These Environmental Justice (EJ) populations are identified based on income, minority status and English language isolation as identified in the most recent census. While Amesbury does not have any population blocks that qualify under this program, additional vulnerable populations include Amesbury's aging residents and families with young children. These were highlighted in Amesbury's 2019 MVP Community Resilience Building Report as residents most at risk for experiencing the negative effects of climate hazards.

Climate impacts and extreme weather events can affect anyone, but some people have the potential to be more affected than others. How adversely a person or group will be affected will depend not just on their exposure to the event, but on their social vulnerability<sup>10</sup> – that is, how well they are able to cope with and respond to events like floods and heatwaves due to poverty, physical or mental disabilities, age, lack of transportation, crowded housing and other factors. People and communities experiencing multiple causes of social vulnerability are the most at risk to the impacts of climate change.

Importantly, Amesbury has one of the largest concentrations of disabled residents in the Merrimack Valley region. While it is more common for older adults to have disabilities in general, Amesbury has a slightly greater proportion of its total population reporting disabilities (14%) than the region (11%), county (12%), and state (12%).<sup>11</sup> The estimated percentage of children under 18 years with a disability in Amesbury (6%) is comparable to the region and state (5%) and county (6%). The estimated percentage of adults age 18 to 64 years with a disability is slightly higher in Amesbury (11%) than the estimated 9% of the population in this same age cohort in the region, county, and state. Moreover, the estimated percentage of people 65 years and over with a disability is 38% in Amesbury, compared to about 33% of this age cohort in the region, county, and state population. Persons with disabilities include those with physical disabilities that require the use of a wheelchair, walker or cane, visual impairments, hearing impairments or mental disabilities. The acquisition or upgrading of any open space areas for recreational access and uses should consider the needs of this segment of the community.

<sup>10</sup> https://svi.cdc.gov/factsheet.html

<sup>&</sup>lt;sup>11</sup> Amesbury Housing Production Plan, prepared by the Merrimack Valley Planning Commission, 2018.



# D. Growth and Development Patterns

#### **Patterns and Trends**

Amesbury's development patterns are reflective of its historical roots as a traditional New England mill village. Central to this village character is a mixed-use downtown surrounded by established residential neighborhoods of higher density housing, forming a densely developed core area. From this core, spokes of residential development extend outward in various densities along key roadways, with other neighborhood areas clustered adjacent to Amesbury's significant natural resources including Lake Attitash, Lake Gardner, and the Merrimack River. Between these spokes of residential development are substantial open space areas consisting of undeveloped and agricultural lands, highlighting the City's scenic hills and valleys providing important scenic corridors.<sup>12</sup>

While several multi-family uses are near the downtown area, a significant number of newer apartment/condominiums and townhouse developments are in outlying areas, most visibly along Whitehall Road, South Hampton Road and Pleasant Valley Road. As noted previously, the construction of I-495 and I-95 in the 1960s and 1970s altered the landscape and settlement patterns of Amesbury. The interstates simplified travel to Boston and other employment centers which stimulated residential development away from the central downtown area. A significant percentage of lower density single-family uses line the major roadways that form the spokes from the center, with newer cluster subdivisions and smaller neighborhood areas adjacent to these corridors.

Amesbury's contemporary development pattern exhibits two dominant features. One is the industrial and commercial development along Route 495 and 110, and the other is the "traditional" Amesbury which exhibits a clearly defined land use pattern of a densely developed core from which radials of residential development extend outward. These radials of development are separated by wedges of wetland, open, forested, and agricultural land. Amesbury also exhibits relatively abrupt changes from dense development to open rural landscapes close to the developed core, a land use pattern more European than North American.

According to the MA Department of Revenue (DOR) Municipal Databank for fiscal year 2020, nearly 80% of parcels in Amesbury have a residential use. Of the 5,540 residential use parcels, 3,489 (63%) are classified as single-family homes, 1,564 (28%) are condominiums, and 127 (8%) are two family, three family or apartment developments. Slightly more than 3% of land parcels are categorized as commercial, and 1.2% of parcels are categorized as industrial or manufacturing.

#### Land Use in Amesbury

Land Use	# of Parcels	% of Parcels
Residential	5,540	79.8%
Commercial	217	3.1%
Industrial & Manufacturing	84	1.2%
Chapter 61 Land - Forest	3	0.0%
Chapter 61A Land - Agriculture	75	1.1%
Chapter 61B Land - Recreation	11	0.2%
Vacant/Exempt/Other	1,014	14.6%
TOTAL	6,944	100.0%
Source: Massachusetts Department of Reve	enue (DOR) Municipal Databank, F	iscal Year 2020

<sup>&</sup>lt;sup>12</sup> The Town of Amesbury Master Plan, Prepared by Vanasse Hangen Brustlin, Inc., 2004.

Land in Amesbury that has been developed for commercial or residential purposes has grown significantly over the past several decades. Considering this growth, a reduction of forested, agricultural, and other open land will likely continue. Throughout its history, Amesbury has been a community with significant open areas, but it has entered a period in which open land could represent a rapidly decreasing proportion of the overall land use base. It is anticipated that future development will continue along the major radials emanating from the developed core, and at a point where available vacant frontage along these radials becomes scarce, development could penetrate the wedges of remaining undeveloped land.

### Recent and Anticipated Development Activity

Despite the UMass Donohue Institute's population projections that indicate a potential decline in Amesbury's population, growth pressures and increased housing demand in the region are expected to continue. As more jobs are created along I-495 and I-95, there will be greater pressure on Amesbury as a residential location. As the residential base of the community expands, there will be greater demand for local services which in turn will expand and broaden the economy. With proper use of its natural setting and links to the region, Amesbury will grow, diversify, and expand to the benefit of its residents and natural resources.

The City has experienced significant growth more recently in the area around South Hunt Road, located primarily between I-495 and the Merrimack River in southwest Amesbury. This growth includes the approval of residential developments such as Amesbury Heights (240 apartment units), Baileys Pond (100 units of townhouses), and Hatters Point Phase II (45 condominiums). In addition to these recently constructed projects, a groundbreaking was held in fall 2019 for Maples Crossing, a mixed-use development featuring a 410,000-square-foot, six-rink ice hockey facility to be built at 24 South Hunt Road. The complex is also slated to include an office building, restaurant, and eventually a hotel.<sup>13</sup> The Maples Crossing project area is located along a prominent ridgeline and abuts conservation land.

Growth in the South Hunt Road area has been encouraged through a targeted, multi-phase infrastructure program intended to support the economic development and expansion of the South Hunt development area. The improvements are designed to increase capacity for higher traffic volumes for the full build-out of the development area, and to facilitate complete streets improvements that mitigate growth from housing and economic development. The City was awarded a \$2 million MassWorks grant in 2019 for the second phase of the infrastructure program, known as the South Hunt Road Corridor Improvements Project, which is designed provide access and multimodal connectivity between the first phase of improvements, which upgraded the two Route 150/I-495 ramp intersections, and the end of the Maples Crossing office and hotel site.<sup>14</sup>

Elm Street, which serves as a gateway to the downtown, has also been experiencing notable development in recent years, particularly along the southern portion near Route 110 and the Carriagetown Marketplace. A hotel was constructed on a previously undeveloped site at 284 Elm Street and a new veterinary facility was constructed at 277 Elm Street. In 2019, an office building was constructed on a previously undeveloped site at 282 Elm Street, and a new hotel is being constructed at 295-297 Elm Street. The latter development will consist of a four-story hotel with 115 rooms. The developer is also proposing to provide a dozen shared parking stalls for the Amesbury/Salisbury Trail

<sup>&</sup>lt;sup>13</sup> "South Hunt Area - District Improvement Program," City of Amesbury, <a href="https://www.amesburyma.gov/community-economic-development/pages/district-improvement-program-south-hunt-area-projects">https://www.amesburyma.gov/community-economic-development/pages/district-improvement-program-south-hunt-area-projects</a>.

<sup>&</sup>lt;sup>14</sup> "South Hunt Improvement Project," City of Amesbury, <a href="https://www.amesburyma.gov/community-economic-development/pages/south-hunt-infrastructure-project">https://www.amesburyma.gov/community-economic-development/pages/south-hunt-infrastructure-project</a>

Connector at I-95 Project, which abuts the proposed development. Furthermore, the Elm Street Reconstruction Project, a \$10 million project funded by the Commonwealth of Massachusetts, began in Spring 2020. The project includes roadway and traffic improvements, the installation of ADA compliant sidewalks, and a bicycle lane.

In addition to new development, Amesbury has seen growth channeled into redevelopment efforts such as the Lower Millyard. The Lower Millyard project has been a primary component of Amesbury's economic development efforts since the mid-1990s, and to facilitate reinvestment the City relocated a Department of Public Works garage out of the area and demolished the structure in 2015. This allowed for extensive redesign of the area, including the realignment of Water Street, significant brownfield remediation in the Powwow River waterfront area, the creation of Heritage Park, and connections to the Riverwalk rail trail.

#### Recent Open Space Projects

Since 2012, the City has leveraged public and private resources to implement several active recreation improvements. During 2019 the City and MassDOT completed the extension of Amesbury's Riverwalk into its new Heritage Park along the Powwow River. Other highlights include the incremental rail trail system efforts that are increasing the Riverwalk's connections eastward. The Amesbury/Salisbury Trail Connector at I-95 will connect the Amesbury Riverwalk to the western end of Salisbury's Ghost Trail. This project, which began construction in 2019, also includes a trailhead at the historic Chain Bridge filling station in Amesbury with a connecting stairway to the Garrison Trail on the I-95 Whittier Bridge. The new Heritage Park was created on a former industrial site in the Lower Millyard in 2014 through a combination of State and City funds. A new playground was completed at the Town Park Playground in 2012, and the splashpad was completed in 2015.



HERITAGE PARK (SOURCE: AMESBURY CARRIAGE MUSEUM)

In terms of open space preservation, recent highlights include the protection of the Woodsom Farm parcel complex under Article 97 of the Amendments to the Massachusetts Constitution in 2018. The

Point Shore Meadows cluster development transferred open space to the Amesbury Conservation Commission in 2019, and an open space parcel was created in connection with the creation of a two-lot subdivision at 13 Horton Street, which has been restricted to conservation purposes in perpetuity.

Notable projects in the planning and design stage include the final connection of the Riverwalk around the Carriagetown Marketplace and hotel complex to the almost complete Trail Connector terminating at Elm Street and Route 110. In addition, the City Council approved an order in 2019 to appropriate \$1.5 million to pay for costs of designing and constructing athletic fields at Woodsom Farm. The proposed athletic fields are intended to replace the two baseball fields that will be displaced by the building of a new Amesbury Elementary School adjacent to the Woodsom Farm parcel complex. This project is currently in the planning and approval process.

#### Infrastructure

### **Transportation**

Like many older communities, the roadway system in Amesbury developed as radials from the center of the city. Later, as the city developed, through streets were added or radials were lengthened to connect the city with other centers of population. Finally, as traffic on these through streets built up, wider roadways were constructed in new locations to relieve the traffic congestion. Interstate 95 and Interstate 495 are two such roadways which pass through Amesbury and provide increased capacity on the highest traffic volume corridors in Amesbury as well as improved intrastate travel. Because of these and other historical developments, the original traffic patterns in the city have been modified to the degree that a major function of the radial street system today is to feed the peripheral system and the newer commercial sites.

Amesbury is well-oriented with respect to regional circulation. Major north-south limited access highway routes are provided by Interstate 95, which provides access to major east-west highway routes in other areas. Both Interstate 495 and Interstate 95 pass directly through the city and are served by a number of interchanges within and in close proximity to Amesbury.

Connections to areas east and west of Amesbury can be made using Route 110 while north-south connections can be made using Route 150. Route 110 extends well beyond the Merrimack Valley to the west and into Salisbury and the coast to the east. Route 150 extends from the Merrimack River on the south into South Hampton, New Hampshire on the northern border of the city. These routes are not limited-access highways intended to bypass busy community business centers, but rather, they developed as links between the main business districts in each of the cities and towns they cross. The result of this major highway network is a circulation system which provides convenient access to and from Amesbury.

Rail service to Amesbury is from the Newburyport Commuter Rail Line, which opened for service in 1998. In addition, the city is served by Merrimack Valley Regional Transit Authority (MVRTA) bus service, and the Amesbury MVRTA Costello Transportation Center opened in 2012 to serve as a central hub for bus transit. Concerning water transportation, the nearest major port facilities are provided in Portsmouth, New Hampshire or in Boston, Massachusetts. The Merrimack River, which is the nearest navigable waterway on the southern border of Amesbury, has a channel depth of 14 feet at mean low water level.

In terms of bicycle and pedestrian facilities, Amesbury's Riverwalk – a pedestrian walkway and bike path that winds along the lower reaches of the Powwow River – is a significant asset providing a greenway along the old Boston & Maine rail bed from Amesbury's historic downtown Upper Millyard and Market Square to the CarriageTown Marketplace along Route 110. It is part of the Coastal Trails

Coalition Network, a growing network of trails through Amesbury, Salisbury, and Newburyport. During 2019, the City of Amesbury and MassDOT completed the extension of Amesbury's Riverwalk into its new Heritage Park along the Powwow River.

#### Water Supply Systems

Water and sewer services are key elements in a community's ability to accommodate growth, and the level and location of water and sewer service are also key factors in inducing and controlling growth. Most of Amesbury (98%) is served by the public water supply system. The Amesbury Water Treatment Facility, which was upgraded in 2012, draws from the Powwow River, and has a maximum safe yield of 4 million gallons per day (mgd), with a back-up system consisting of two wells (1.76 mgd). Lake Attitash and Meadowbrook also supplement the water source seasonally and in times of drought.

The City's daily water consumption averages 1.3 million gallons<sup>15</sup>, or less than one-half the supply's potential capacity. In the summer months water consumption can reach 2.8 mgd due to a higher demand and the sale of water to neighboring Salisbury. While the water supply appears to be adequate for sustained growth, there is doubt as to the level of protection from pollution. The water supply system is dependent on the Powwow River, but only the lower reaches of the river are in Amesbury. The great majority of the river's watershed area is located in five upstream communities in New Hampshire. Presently, there are no known water quality problems with the Powwow River that cannot be handled by Amesbury's water treatment plant. However, there is at present no coordination among Amesbury and the five New Hampshire communities regarding the type and level of development that may occur within the watershed.

Wetlands, forests, and floodplains maintain water quality and water quantity, thereby reducing costs for drinking water treatment and storage. As storm events and drought become more severe, threats to both water supply and water quality grow – both increased flooding and increased drought/low flow have the potential to degrade water quality. Flood waters pick up upland contaminants/toxins and introduce them to waterways and water bodies. Droughts and low flows cause concentration of contaminants/toxins as flow volumes decrease. Wetlands, floodplains and forests absorb stormwater and rainfall, reducing peak flood volumes and velocities, thereby reducing opportunities for introduction of contaminants/toxins into water supplies. Wetlands provide base flow during drought, thereby providing water supply and reducing the concentration of pollutants.

The existing agricultural and forested nature of Amesbury's watershed does not pose a threat to Amesbury's water supply system. However, there remain significant parcels of unprotected land in the Amesbury portion of the Powwow Watershed. Development of these parcels could negatively impact Amesbury's water supply through polluted runoff associated with chemicals used in residential landscaping and increasing impervious surfacing from roads. In addition, residential and commercial development pressure has been strong in southern New Hampshire, and though the Powwow River watershed is largely rural and undeveloped, potential upstream development at higher densities could adversely impact Amesbury's water quality. In 2018, the Rockingham Planning Commission in New Hampshire launched the Powwow River Watershed Collaborative to identify effective strategies to improve and protect water quality in the Powwow River watershed. <sup>16</sup> It is recommended that discussions among the New Hampshire and Massachusetts communities be instituted to explore cooperative methods to monitor development within the watershed, and, where possible, to coordinate land use policy and water supply protection programs. Further protection of wetlands, floodplains,

<sup>&</sup>lt;sup>15</sup> "Water Facts," City of Amesbury, https://www.amesburyma.gov/water-department/pages/water-facts.

<sup>&</sup>lt;sup>16</sup> "Powwow River Watershed Collaborative," Rockingham Planning Commission, http://www.therpc.org/environment/water-resources/powwow.

forests and other undeveloped land within the watershed will help ensure a clean and plentiful water supply as the climate changes.

The Amesbury Wastewater Treatment Facility has the capacity to treat 2.4 million gallons per day, and the relatively extensive sewer system in Amesbury provides service for the central core of the community, all major residential arterials, and the major commercial and industrial areas along Route 110 and Hunt Road. Importantly, the extension of the sewer system along major radial streets from the center of the city acts as an incentive for development in more sparsely settled areas of Amesbury. However, the zoning amendments of June 10, 1985, created 40,000 and 80,000 square foot lot densities in most of the presently non-sewered areas of the community, which should help preclude the need for further sewer extension into these areas.

### Climate Change and Built Infrastructure

As the 2019 MVP Community Resilience Building report notes, the built infrastructure within Amesbury is characterized by an interdependent network of roads, bridges, dams, municipal buildings, and privately-owned buildings that are vulnerable to climate change. Extreme weather events, inland freshwater flooding, and coastal storm surge were highlighted as significant concerns for the city as part of the MVP process.

State and local roadways within Amesbury are often vulnerable to flooding, some of which are located along important local and regional emergency evacuation routes or provide access to community shelters. All of the dams in Amesbury are owned by the City, other than the Bailey's Pond dam, which is privately owned. These dams contribute to flood control issues across the community. Publicly and privately-owned buildings in the downtown business district are a source of urban heat island effect. A National Grid power station is located on the banks of the Powwow River in downtown Amesbury. The riverbanks are eroding, potentially putting the security of the power station at risk. In downtown Amesbury, the Powwow River is at the nexus of inland precipitation-driven flooding and coastal storm surges, thereby exacerbating riverbank erosion and flooding. These storm and flood-related threats to existing infrastructure and power supply are anticipated to worsen as the climate changes and inland flooding, coastal storm surges and sea level rise intensify.



UPPER DAM IN THE AMESBURY MILLYARD (SOURCE: AMESBURY CARRIAGE MUSEUM)

<sup>&</sup>lt;sup>17</sup> Amesbury Housing Production Plan, prepared by the Merrimack Valley Planning Commission, 2018.

#### **Long-Term Development Patterns**

Since the 1970s, Amesbury's growth and development has been guided by the Amesbury Zoning Bylaw (see *Map 3: Zoning Map*). The City of Amesbury is divided into fourteen (14) zoning districts including five residential districts, three commercial districts, three industrial districts, one office district, and an open space district. Amesbury today, as in the past, contains mostly single-family residences which are mainly located along the original urbanized area. Despite rapid development outside of the urban core, Amesbury still contains a large supply of open space.

Portions of the existing Amesbury Zoning Bylaw have been designed to protect open spaces and natural resources in the context of development. These provisions, including the Wetlands and Floodplain Protection District and the Water Resources Protection District, help ensure that public benefits from green spaces continue to be enjoyed by the community while allowing healthy growth. Please note that while Amesbury changed its status from a town to a city in 1997 and changed the city's official name to the City of Amesbury in 2011, the zoning code still retains the term bylaw. For the purposes of this report, the term bylaw will be used for consistency with the past, but it refers to both bylaws and ordinances.

#### Wetlands and Floodplain Protection District

The Wetlands and Floodplain Protection District is intended to regulate development impacting Amesbury's extensive wetlands, the most prominent of which are associated with the city's principal rivers and lakes. The largest wetland system is the "Great Swamp," covering 500 acres, and the upper Powwow River wetlands. The second major system is the wetlands of the Back River and those along the Powwow River south of downtown Amesbury. Other waterbody associated wetlands are those at Lake Attitash, Lake Gardner, along Goodwin's Creek and extending inland from the Merrimack River. These wetlands have also had a major effect on Amesbury's development pattern; growth outside of the downtown area occurred in the dry land between wetlands, and in outlying dry land pockets separated from downtown. Fortunately, the principal wetlands have not yet been filled to any great extent. The filling of the City's wetlands is regulated by state and local wetland regulations, and development within wetlands is also regulated within the Wetlands and Floodplain Protection District. Thus, wetlands should remain a significant part of Amesbury's open space network and continue to shape the city's settlement pattern, as well as continuing to provide increasingly important ecosystem services related to climate resiliency (flood storage, water quality and supply, storm damage prevention, fish and wildlife habitat, recreation, mental and physical health).

#### Water Resources Protection District

The creation of the Water Resources Protection District in 2000 was intended to provide enhanced protection of watersheds, surface water, and aquifers by establishing certain water resource protection zones consisting of watershed areas of the Powwow River and tributaries, and recharge areas of existing municipal water supply wells. The bylaw regulates new construction, reconstruction, expansion of existing buildings, subdivision of land, and new or expanded land uses within these zones, and allows certain uses including outdoor recreation, boating, fishing, hunting where legally permitted, and pedestrian and bicycle paths.

#### Other Relevant Bylaws

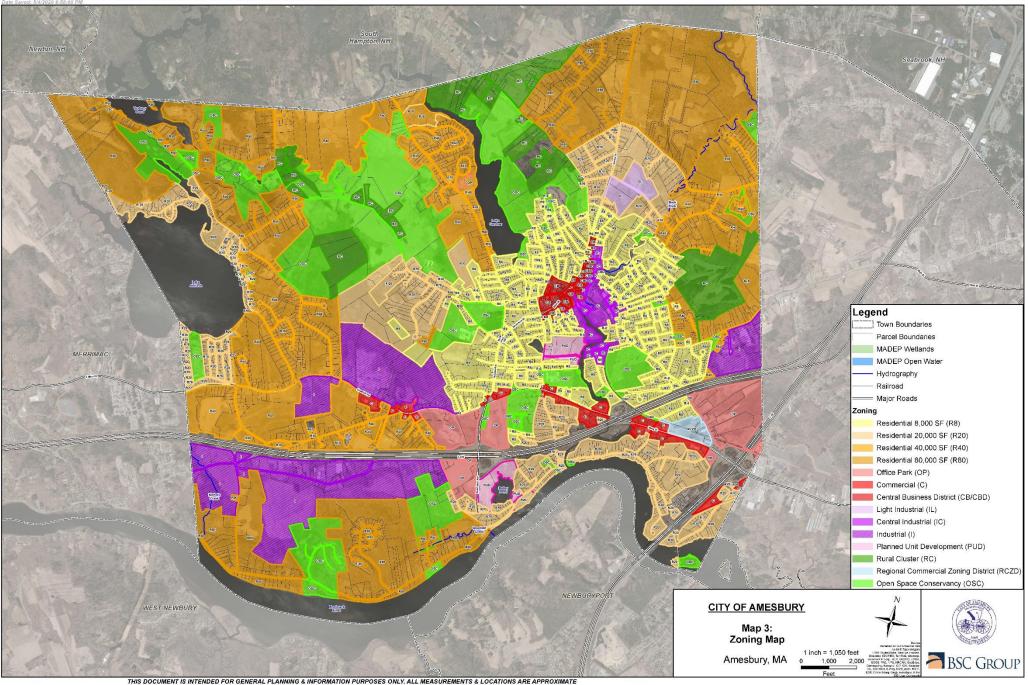
The City has modified some of its existing zoning districts to allow development along existing major roadways and limit development between the major roadways to protect and preserve key natural features. The Cluster Residential Special Permit encourages the preservation of open space areas for active and passive recreational use and to maintain the City's traditional character and land use pattern in which small villages contrast with open land. The construction of a cluster residential district

is subject to certain site plan review requirements and procedures, which are also applicable to the Rural Cluster District in Amesbury.

The enactment of Neighborhood Conservation Districts (NCD) bylaw was intended to bolster the conservation and enhancement of Amesbury's neighborhood resources by encouraging design that is complementary to the cultural, historic and environmental resources of the area. The Planning Board must designate an area as eligible for a conservation district, a process that successfully led to the establishment of the Brown Hill Overlay District (BHOD). The purpose of the BHOD includes assisting in the establishment of permanent and contiguous public open space within sensitive areas and discouraging development along steep vegetated slopes.

Amesbury has also adopted a Smart Growth Overlay District in accordance with the purposes of M.G.L. Chapter 40R to promote compact residential and mixed-use development. While this overlay district is intended to foster the development of affordable housing, it includes provisions to promote the configuration of contiguous open space with abutting conservation open areas and the permanent protection of open space areas left in their natural condition.

Amesbury's Zoning Bylaw serves to direct and guide planning and development throughout the municipality and to protect natural resources such as wetlands and waters. This existing regulatory and planning instrument represents a strength, but one that can be further strengthened by incorporating climate change considerations.



# **Section 4: Environmental Inventory and Analysis**

# A. Geology, Soils and Topography

Amesbury lies within the Southern New England Coastal Plains and Hills Ecoregion, an area comprised of plains with a few low hills. Amesbury is characterized by rough, hilly topography containing numerous water bodies. The major water resources are generally found in the north central and northwest portion of Amesbury, with the exception of the Merrimack River which forms the southern boundary of the City. The United States Department of Agriculture's Natural Resources Conservation Service is the primary source of soil and soil drainage information. In 1969, along with the Essex Conservation District, the Soil Conservation Service published "Soils and Their Interpretations for Various Land Uses" for Amesbury, which was updated in "A Soil Survey for Essex County, MA – Northern Part" in February 1981. The following information is derived from these two documents and assesses the suitability of various soil groups (associations) to accommodate development. In Amesbury, there are six general soil associations, described below, which contain 14 soil classes and over 50 separate soil types.

**Hinkley-Merrimac Association** – Approximately 28.2% of all land in Amesbury consists of these soils. Comprised of very sandy and gravelly soils, they exhibit good to excellent drainage characteristics and have good development potential with or without public sewerage systems and have a fair agricultural value. Much of the developed area in the community's core contains this association.

**Paxton-Chariton-Woodbridge Association** - Almost 41% of all the land in Amesbury consists of these soils and, together with the Hinkley-Merrimac Association, form more than two thirds of the land area in the city. This is significant because both associations are quite capable of sustaining development and have fair agricultural value. Derived from stony, compact glacial till, each of the class's surface soil, subsoil and substratum are generally a fine sandy loam.

**Scantic-Biddeford Association** - Approximately 14.5% of all the land in the city consists of these soils. They are poorly drained soils comprised primarily of silt and clay. They occur in depressions and flat areas and generally have a high water table. A portion of the Great Swamp lies within this soils association. With or without public sewerage, this soils association cannot readily support development and has poor agricultural value.

**Peat-Muck Association** - These soils represent only 4.2% of the land area in Amesbury. Composed primarily of organic deposits underlain by mineral soil materials, these soils exhibit extremely poor drainage characteristics with a water table that is at or near the surface most of the year. Unless extreme engineering techniques are applied, these soils have virtually no development or agricultural potential. Most of the Great Swamp contains these soils and should be preserved from any development.

Charlton-Hollis Association - These soils represent only 2.25% of all the land in the city. Some of these soils exhibit excessive drainage characteristics because of the stony nature of the soils and could pose a pollution threat to the underlying groundwater if development with septic systems were to occur. Formed in glacial till, they have sandy loam surface soils and subsoils which are very stony. The stony nature also limits their agricultural value.

Made Soil-Deerfield-Windsor Association - Almost 11% of the land in the city is comprised of these soils. This association, which includes soils mixed in cut-and-fill operations as well as soils which have high water tables most of the year, exhibit spotty and imperfect drainage

characteristics. With public sewerage, they have good development potential; otherwise development should be avoided.

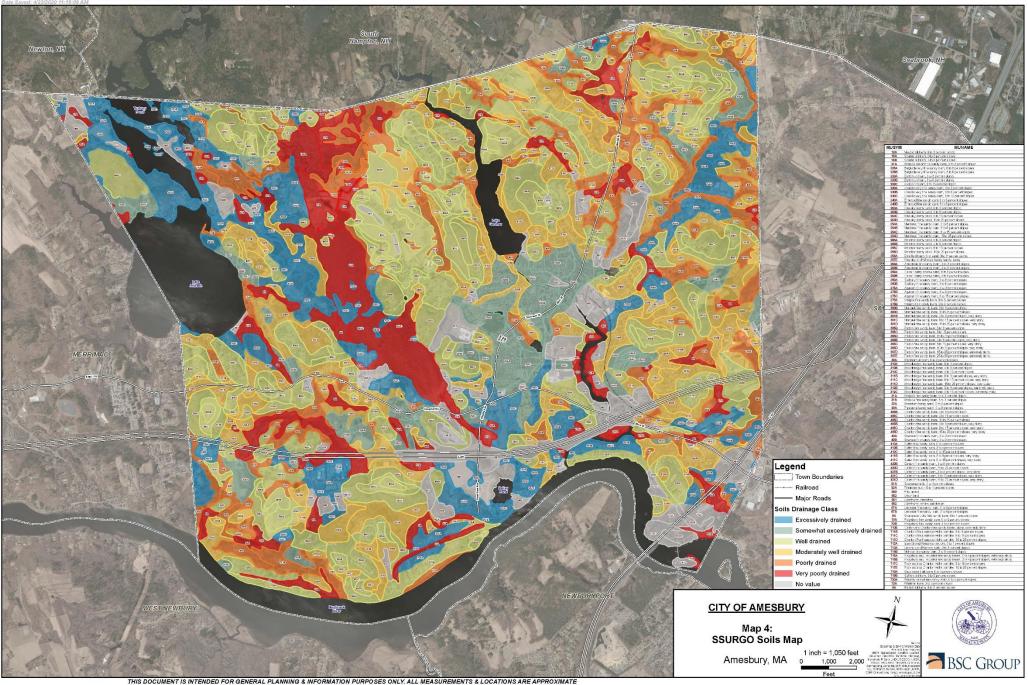
The development potential of any area is dependent upon three factors: soil, natural drainage conditions, and slope. The best land, having good development potential, is the land which is both level (slope of 0-4%) and well drained. Lands of fair development potential would be those of 5-14% slope and only moderately well drained. These lands can be developed when needed although perhaps at a higher cost than better lands. Poor development potential would occur in three sections: steeply sloped lands (15% and over), very poorly drained lands, and those subject to flooding. Development is possible in these lands but only at excessive costs due to the extensive treatment necessary to prepare them for development.

Calculations based on the natural drainage and slope conditions indicate that of the city's 8,870 acres, 3,588.31 acres (or 40.5%) is relatively flat (0-4% slope); 2,049.60 acres (23.1%) is moderately sloped (5-14% slope), and 741.7 acres (8.5%) is excessively sloped. The land in Amesbury therefore has, for the most part, good development potential. As strong regional growth pressures continue, it is crucial that the City continues to set and enforce well defined guidelines, principles, and standards to direct expected growth into acceptable locations and at appropriate densities. A proper framework will allow opportunities to accommodate the housing, employment and service needs for future residents.

In addition to development potential, the soils found in Amesbury play an important role in building resilience to climate change. Healthy soils with more organic matter can store carbon while providing agricultural and environmental benefits. When managed sustainably, soils can play an important role in climate change mitigation by sequestering and storing carbon and decreasing greenhouse gas emissions into the atmosphere. On the other hand, if soils are managed poorly or cultivated through unsustainable agricultural practices or wetlands are drained, dried or disturbed, soil carbon can be released into the atmosphere in the form of carbon dioxide (CO2), which can contribute to climate change. *Map 4: SSURGO Soils Map* provides a guide to soil types and drainage classes in Amesbury. The drainage class mapping indicates areas of poorly drained and very poorly drained soil in the Woodsom Farm and surrounding areas, confirming that this area is particularly valuable for flood storage and water quality ecosystem services. In addition, poorly drained and very poorly drained soils often have higher than average soil organic carbon content, and therefore provide carbon storage services.<sup>19</sup>

<sup>&</sup>lt;sup>18</sup> 2012 – 2019 Draft Amesbury Open Space and Recreation Plan, prepared by the City of Amesbury, 2012.

<sup>&</sup>lt;sup>19</sup> Amesbury Natural Resources Infrastructure Assessment Report, prepared by BSC Group, Inc. and City of Amesbury, 2019.



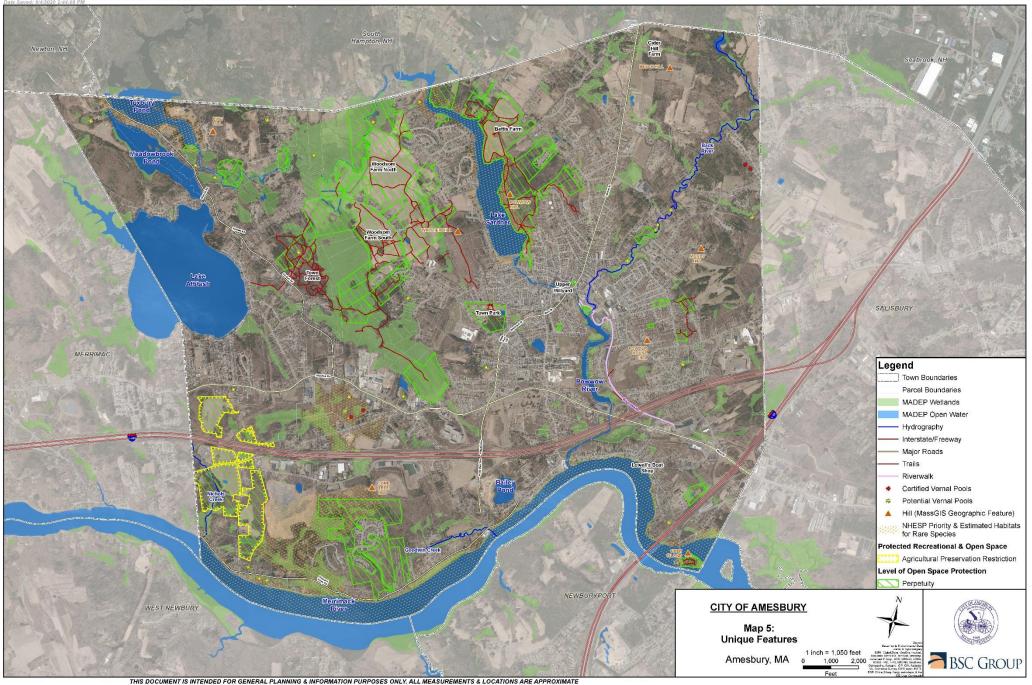
### **B.** Landscape Character

Amesbury's distinctive landscape character, with its hills, lakes, wetlands and river corridors, has helped shape the community from the earliest Native American use of the land to the present day. Amesbury's development patterns historically consist of a densely developed core area, with spokes of residential development extending outward along major roadways. Between these spokes of residential development are substantial open space areas that highlight the city's scenic hills and valleys. It is these open space networks that provide the unique landscape that portrays Amesbury's quality of life and provide ecosystem services (flood storage, cooling of air and water) that have a direct bearing on Amesbury's climate resiliency.

Key scenic landscapes are located throughout Amesbury, both in the downtown and in the surrounding rural areas. The 2004 Amesbury Master Plan identified the following areas as some of the unique and scenic vistas in Amesbury:

- Whitehall Road, views of Woodsom Farm and Lake Gardner:
- Lion's Mouth Road, views of Woodsom Farm;
- Fern Avenue and Market Street, views of Cider Hill Farm and Back's Pond;
- Kimball Road, views of the Town Forest, Lake Attitash, and Tuxbury Pond;
- Pleasant Valley Road and Main Street, views of the Merrimack River;
- Main Street, views of the Point Shore neighborhood historic district;
- South Hampton Road, views of the Powwow River Conservation Area;
- Newton Road, views of the forested areas to the north and south; and
- Downtown Amesbury, the restored Upper Millyard around the falls.

The climate-related vulnerabilities of several key scenic landscapes have been identified through the community-driven MVP process. Pleasant Valley Road, which parallels the Merrimack River, currently experiences flooding and was identified as being particularly vulnerable. In some locations, riverbank erosion has the potential to undermine the stability of the road or to erode properties located along the roadway. Increasingly severe storms, sea level rise, coastal storm surge, winter river ice action, and boat wakes are all contributing to the worsening of riverbank erosion. Similarly, the Powwow River flows through downtown Amesbury and the Upper Millyard, putting these areas at risk for flood damages from precipitation-driven freshwater flooding events. Exacerbating this freshwater flooding, coastal storm surge moves up the Powwow River from the Merrimack River, reaching as far as Sparhawk Street (Powwow River) and Clinton Street (Back River) in the downtown area. These and other environmental challenges in Amesbury are described further in Section 4G. Environmental Challenges.



#### C. Water and Wetland Resources

Amesbury is home to an abundance of surface waters, including many rivers, streams, lakes and ponds, along with adjacent and upstream wetlands that are essential to supporting the health of the surface waters. The long-term protection of these water bodies, waterways, and wetlands requires a number of activities including monitoring of water quality, hazardous waste disposal, and protection under the Massachusetts Wetlands Protection Act and the Amesbury Wetlands Protection Ordinance. Amesbury's water and wetland resources are described below and depicted in *Map 6: Water Resources*.

#### **Watersheds**

As described in Section 3. Community Setting, the City of Amesbury lies completely within and downstream from much of the Merrimack River Watershed and contains an abundance of water resources. Encompassing roughly 5,000 square miles, the Merrimack River Watershed originates in northern New Hampshire and discharges into the Atlantic Ocean in Newburyport, Massachusetts. The river system supports a variety of uses, including water supply, recreation, and wetland and aquatic habitat (including freshwater, brackish and salt water). In Amesbury, Lake Gardener and the Powwow and Back Rivers drain the eastern parts of the city, while Lake Attitash, Tuxbury Pond, the Powwow River, Goodwin's Creek, and the Great Swamp drain the western parts of town. The Merrimack River Watershed Council, established in 1976, is a non-profit organization that aims to improve and conserve the Merrimack River watershed for people and wildlife through advocacy, education, recreation, and science.

The **Powwow River sub-watershed**, a HUC-12 watershed within the greater Merrimack River watershed, contains many of Amesbury's key water resources and provides the primary source for the City's public drinking water supply. The estimated 58 square mile sub-watershed is a complex arrangement of ponds and lakes connected by freshwater wetlands, and stream and river segments that stretches across 12 municipalities in New Hampshire and Massachusetts. Towns in New Hampshire include Sandown, Hampstead, Danville, Kingston, Newton, East Kingston, South Hampton, Kensington, and Seabrook. The Massachusetts communities include Merrimac, Amesbury, and a very small portion of Salisbury. The watershed is largely rural and undeveloped, yet still has serious water quality impairments due to dense development near its largest surface water bodies.

In 2018, the Powwow River Watershed Collaborative was launched in New Hampshire to identify effective strategies to improve water quality and protect existing high quality water and natural resources in the Powwow River watershed.<sup>20</sup> A collaborative working group with representatives from nine New Hampshire towns in the watershed was formed to serve as a forum for sharing local knowledge about the watershed with other stakeholders. A final project report was submitted to the project funder, the New Hampshire Department of Environmental Services, in December 2019, and included a recommendation to secure funding for technical assistance to continue the Powwow Watershed Working Group.<sup>21</sup>

#### **Surface Water**

Lake Attitash serves as a recreational resource and fishery in Amesbury, as well as a Class B backup water supply for the City, and there are nearby wellfields. Lake Attitash covers 360 acres in Amesbury and Merrimac, Massachusetts, not far from the New Hampshire border. The main tributary is the Back River, entering from the west-northwest, with a much smaller secondary tributary entering from the

<sup>&</sup>lt;sup>20</sup> http://www.therpc.org/environment/water-resources/powwow

<sup>&</sup>lt;sup>21</sup> Collaborative Engagement and Capacity Building in the Powwow River Watershed, prepared by Rockingham Planning Commission, December 2019.

southwest, and additional direct drainage around the lake. The shore of Lake Attitash was developed over the years as a summer cottage community that was made permanent through private home improvement investment, the provision of more convenient access, and the construction of public sewer to serve the area. The lake has a public boat ramp and is heavily used by shoreline residents as well as visitors.

Lake Attitash is listed as a Category 5 impaired waterbody in the EPA's 303(d) list, which is a state's list of impaired and threatened waters (e.g. stream/river segments and lakes). Section 303(d) of the Clean Water Act establishes a process to identify and clean up polluted waters. Lake Attitash is impaired by harmful algal blooms and mercury in fish. The Lake Attitash Association (LAA) has been undertaking efforts to protect the lake and its tributaries from pollution. Annual monitoring of vegetation in the lake has been conducted since 2010. In conjunction with the City of Amesbury, the LAA has secured grants for public education and invasive control efforts. In recent years, Lake Attitash has experienced significant cyanobacteria (blue-green algae) blooms and an increase in invasive or non-indigenous aquatic plants. The LAA has spearheaded the implementation of an aquatic management plan including the application of Diquat and Alum treatments, as well as non-chemical control strategies for invasive species.

Lake Attitash flows into **Meadowbrook**, a shallow pond whose water then flows through the Archbrook culvert to rejoin the Powwow River, and into Tuxbury Pond via the Stateline Dam. **Tuxbury Pond** is another shallow water body that is also fed from the north by the Powwow River. The City water supply intake is downstream from Tuxbury Pond.

Lake Gardner, a long, narrow lake formed by a dam on the Powwow River, is another prominent surface water body. It stretches from the center of Amesbury north to the New Hampshire border, and is currently used for passive recreation. Homes line its western shore, which are supported by the public sewer system. Lake Gardner Beach, a sandy public swimming beach with canoe and small boat access, is at the southern end. The beach is very popular as it is one of the few freshwater public beaches in the area. The eastern and northern shores are undeveloped conservation land made up of woods and other open space, including the Powwow River Conservation Area. The City's Battis Farm protects over a half mile of Lake Gardner's shoreline. Hidden coves provide swimming holes and convenient landings for kayakers and canoes. The Lake Gardner Improvement Association (LGIA) is a group of Amesbury residents that advocates for Lake Gardner, its beach, and the surrounding Powwow Conservation Area. The LGIA provides essential services such as water testing and organizes community activities on the lake and beach. The LGIA is currently collaborating with the City on improvements to Lake Gardner beach, in the effort to reduce the run-off of surface water and sediment into the lake. In 2019, a retaining wall with a French drain was installed along the beach towards the conservation area.



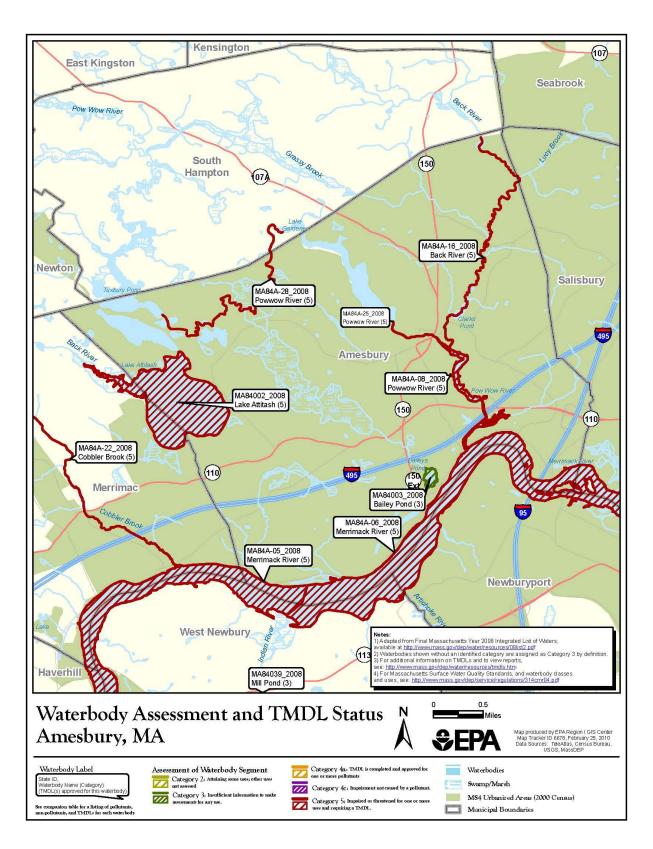
Clarks Pond, near downtown Amesbury, was formed by a small, 88-foot long dam on the Back River, which flows down from New Hampshire through a wooded area leading up to the pond. After flowing over the dam, the Back River continues, eventually merging with the Powwow River at the Lower Millyard. Clarks Pond itself is about seven acres. With extensive construction in Amesbury and in Southern New Hampshire runoff has led to silt filling in the pond. Algae and weeds have also posed an issue for the pond. There is no dedicated public access to Clarks Pond, but several smaller residential streets surround it that do allow for access. The Clarks Pond Watershed Association (CPWA) is an association of residents formed in 2015 to advocate for the Clarks Pond watershed and the Back River from Clinton Street to the Powwow River in Amesbury.

The **Back River**, which runs from the New Hampshire border through Amesbury to an inlet at Clarks Pond, is listed as a Category 5 impaired water due to the presence of E.Coli, sedimentation/siltation and turbidity. A total maximum daily load (TMDL) is required but has not been completed for the Back River. TMDL is a regulatory term in the U.S. Clean Water Act that describes a plan for restoring impaired waters that identifies the maximum amount of a pollutant that a body of water can receive while still meeting water quality standards. **Bailey Pond**, a waterbody located in south central Amesbury, is listed as a Category 3 impaired water. The Category 3 designation indicates that there is insufficient or no information available to assess any designated uses for the water body.

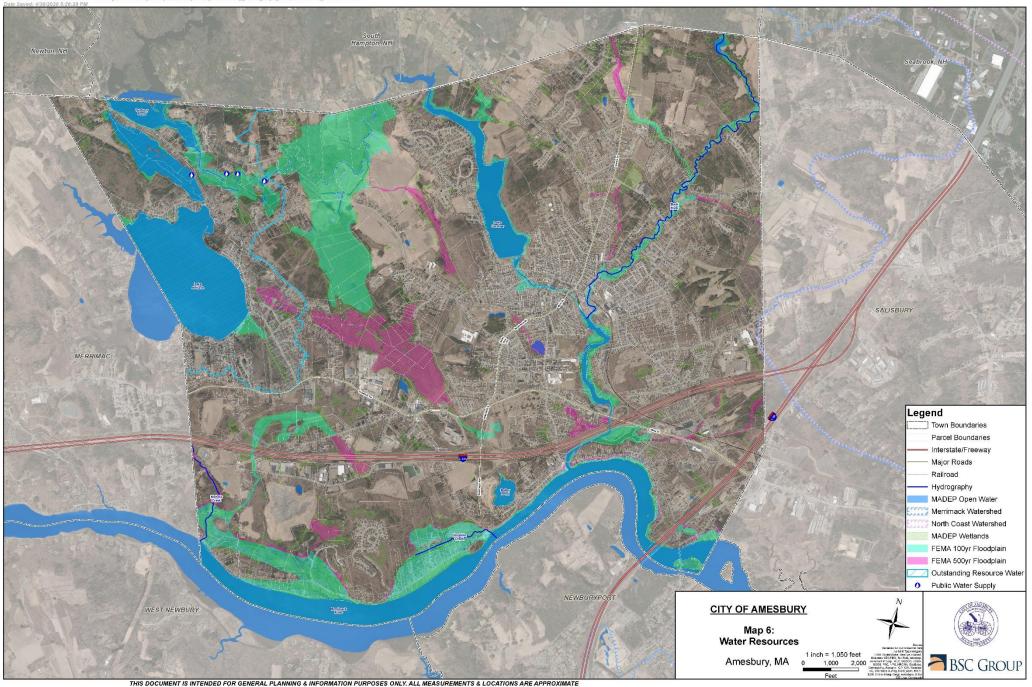
The Merrimack River and Powwow River are both tidally influenced and contain some limited estuarine habitat. The Merrimack River provides a scenic shoreline along the southern border of Amesbury, and many water-related uses and historic settlement areas are located along the river. The Powwow River has its headwaters in New Hampshire and then flows through Tuxbury Pond in the northwest corner of Amesbury, emerging as a narrow winding stream that meanders through the northern part of Amesbury passing near the water treatment plant and then through Woodsom Farm. The river reenters New Hampshire briefly and then flows southeast to widen into Lake Gardner. As it flows through the city center, the Powwow River transitions to falls that were historically used to power industrial uses through a series of dams created in the 19th century. It then joins with the Back River to form a wide slow-moving river that flows south into the Merrimack. The Amesbury Riverwalk (also known as the Powwow Riverwalk) is a scenic pedestrian walkway and bike path that winds along the Powwow River.

Both the Merrimack River and the Powwow River are Category 5 listed waterbodies in EPA's 303(d) list. Sections of the Merrimack River located in Amesbury are impaired by Enterococcus and Polychlorinated biphenyls (PCBs) in fish tissue. The Powwow River is impaired by E.Coli. The section of the Powwow River by Tuxbury Pond is also impaired by total suspended solids and turbidity. There is no total maximum daily load (TMDL) listed or approved as of December 2019.

The presence of water bodies that are impaired and monitored for TMDLS underlines that the projected increase in annual precipitation and extreme precipitation events related to climate change will only exacerbate existing water quality challenges, their impacts on recreational opportunities, and increased potential for toxicity exposure of Amesbury's residents and visitors.



AMESBURY, MA WATERBODY ASSESSMENT, 305(B)/303(D), AND TOTAL MAXIMUM DAILY LOAD (TMDL) STATUS MAP (SOURCE: EPA REGION I GIS CENTER, 2010)



# D. Vegetation/Ecosystems

A variety of vegetation types are found in Amesbury forests, fields, roadsides and wetlands. Amesbury is part of the southeastern hardwood (or mixed deciduous) forest. Upland forests are predominantly mature hardwood – northern red oak, shagbark hickory, red maple, and birch – with smaller stands of softwood hemlock and white pine. Red and silver maple, speckled alder, white oaks, pin oaks, hemlock, sweet pepperbush, and highbush blueberry are common in the swampy, wet areas.

Important forested land in Amesbury includes the Town Forest, which offers 80 acres of rolling forest between Kimball Road and the Great Swamp and is crisscrossed by miles of labeled trails. The Town Forest is adjacent to other open spaces including Bartlett Reservation (owned by Greenbelt), the southern part of Woodsom Farm, and other private and municipal parcels. Much of the adjacent land is primarily swampland. The Great Swamp consists of over 250 acres of pristine cedar and deciduous swamp habitat.<sup>22</sup> Conifer stands along the Merrimack River provide excellent views, water quality, and habitat for rare and endangered species. There are also large areas of second growth immature forests and shrub cover, as well as miles of utility rights-of-way which provide habitat for diverse wildlife.

The City's Battis Farm property on the south face of Powwow Hill includes a vast open meadow as well as forested land. Trails through Battis Farm offer a scenic view and a boardwalk brings visitors into wetlands. Contiguous forested areas are also found up the Powwow River north and west of Battis Farm.

The patchwork of rolling farmland fields, pastures, and meadows provide important habitat for diverse plant species, including aster, black-eyed susan, buttercup, chicory, chickweed, columbine, coneflower, daisy, fleabane, goldenrod, jewelweed mayflower, milkweed, pokeberry, Queen Anne's lace, sorrel, thistle, wintergreen and yarrow. Less commonly seen wildflowers include bleeding heart, gentians, saxifrage, trailing arbutus, and trillium.

Wetlands are critical vegetated resources for groundwater recharge and discharge, flood control, water purification, sediment retention, storm damage prevention, carbon sequestration and storage, as well as fish and wildlife habitat and recreation. Many of these important ecosystem services contribute to increased resiliency to the specific changes in climate in Amesbury that are worsening as the 21st century proceeds. Wetlands are areas of high biodiversity that provide both environmental and socioeconomic benefits. Wetlands act as biological and mechanical filters, thereby preventing pollutants from entering lakes, rivers, and groundwater. They provide important habitat for birds, animals, and plants. Wetlands are also important in controlling stormwater. Their flexible storage capacity allows floodwaters to be released slowly, reducing flood damage. The socio-economic benefits include recreational activities related to fish and wildlife such as fishing, hunting, bird watching and photography, as well as boating and hiking. Wetlands also provide economic benefit and community climate resiliency by limiting flood damage, protecting water supplies during drought and low flow, protecting water quality, cooling surrounding areas during high heat events and supporting mental and physical health by providing recreational space. Access to local natural areas, conservation land, public parks, and other recreational spaces is especially valuable for both mental and physical health and resiliency during crises such as the COVID-19 pandemic.

Amesbury's major wetland areas include the 500-acre Great Swamp, the Powwow River basin, and Goodwin's Creek. The bordering vegetated wetlands associated with Amesbury's abundant water resources support (among other plant species): red maples, highbush blueberry, winterberry, arrowwood, various dogwood species, sweet pepperbush, skunk cabbage, bellflowers, cattails, Joe-

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<sup>&</sup>lt;sup>22</sup> http://www.amesburytrails.net/amesbury-town-forest

Pye weed, pickerel weed, cattails, sedges and rushes and spiderworts. Certain invasive species, such as purple loosestrife and common reed/phragmites, are found in some wetlands. Since they have no natural predators in the area, they can invade, degrade or destroy the habitat of local species. The proportion of wetlands to undeveloped land is increasing in Amesbury, and the City has adopted a local wetlands protection bylaw to help preserve this ecologically rich but vulnerable resource.

Vernal pools are small, seasonal wetlands that provide important wildlife habitat, especially for amphibians and invertebrate animals that use them to breed. Amesbury has four Natural Heritage Endangered Species Program (NHESP) Certified Vernal Pools and 25 Potential Vernal Pools.

The natural vegetation found throughout Amesbury is one of its most vital natural resources and plays a significant role in achieving community climate resiliency. Drought has less of an impact when wetlands are protected because they act as reservoirs for ground and surface water. Severe storms, sea level rise, and storm surge do less damage to coastal communities if coastal and estuarine wetlands and salt marshes are healthy and protected. Wetlands and waters cool nearby areas because they store water, and forested areas create shade, which enhances climate resiliency for neighboring humans, wildlife, crops, and native vegetation. Wetlands, riparian areas and forests also provide corridors for wildlife to traverse the landscape and move in response to changes in climate, thereby increasing the resiliency of wildlife populations. Wetlands and forests are important elements in slowing the acceleration of climate warming, as they sequester large quantities of carbon into their biomass and soils, storing it over the long-term. Wetlands cover approximately 5% – 8% of the world's land surface yet store 30% of the world's soil carbon. These many ecosystem and climate resiliency/carbon storage services are provided by our natural resources for free.

#### E. Fisheries and Wildlife

The fish and wildlife species found in Amesbury are similar to those present in forests, fields, water bodies, and wetland habitats throughout much of New England. Raccoons, woodchucks, porcupines, chipmunks, gray squirrels, weasels, mice and voles inhabit many of Amesbury's woodlands. White-tailed deer and fox are also quite common. Occasionally residents will report sighting bear, bobcat, fisher, coyote, and moose.

Amesbury's freshwater bodies and adjoining riparian lands provide habitat for beavers, muskrats, and otters, as well as for fish, amphibians and some birds. Bluegill, chain pickerel, large-mouth bass, white perch and yellow perch all live in Lake Attitash. The Merrimack River is home to alewife, Atlantic salmon, Atlantic shad, American eel, Atlantic sturgeon, blueback herring, striped bass, and sea lamprey. Amphibious species including frogs and salamanders as well as turtles and snakes use Amesbury's lakes, ponds, and wetlands, as do cormorants, cranes, ducks, geese, herons, and ospreys.

The Massachusetts Audubon Society reports that more than 230 bird species reside in or migrate through the Amesbury area. The federally endangered bald eagle relies on the Merrimack River riparian corridor for habitat and has been seen soaring over the river and the city. The diversity of Amesbury's landscapes – woodlands, wetlands, meadows, lakes and ponds – provides habitat for bird breeding, nesting, and feeding.

As part of the Open Space and Recreation Plan updating process, BSC Group contacted the MA Division of Fisheries and Wildlife, Natural Heritage and Endangered Species Program (NHESP) on behalf of the City for the latest information on rare species, natural communities, and other aspects of biodiversity that have been documented in Amesbury. This information is detailed in an NHESP letter to BSC Group dated February 21, 2020, together with accompanying maps, that are included in Appendix A of this Plan. According to the NHESP, Amesbury has habitat for rare species including:

- Shortnose Sturgeon, (Acipenser brevirostrum, Endangered, federally Endangered)
- Atlantic Sturgeon, (Acipenser oxyrinchus, Endangered, federally Threatened)
- Blue-spotted Salamander, (Ambystoma laterale, Special Concern)
- Bald Eagle, (Haliaeetus leucocephalus, Special Concern)
- Eastern Pondmussel, (Ligumia nasuta, Special Concern)
- Eastern Meadlowlaw (Sturnella magna, Special Concern)

Based on the information compiled, the NHESP staff provided recommendations for habitat management. The recommendations include assessment and management of invasive species in recreational and conservation areas, and mowing schedules for large fields like Woodsom Farm to encourage breeding of grassland birds (the fields are mowed on contract with the City by a farmer who harvests hay for animal feed). It is important to note that in 2017, Amesbury's Open Space, Natural Resources & Trails Committee issued Woodsom Farm Mowing Schedule Recommendations that follow the guidelines described in Mass Audubon's publication, Best Management Practices for Nesting Grassland Birds, were based on a prior grassland bird survey, and were developed in consultation with Mass Audubon. The recommendations are intended to help the City of Amesbury establish a maintenance plan and schedule at Woodsom Farm that encourages breeding of grassland birds in valuable habitat and minimizes their destruction. Though the mowed fields at Battis Farm also offer habitat for various grassland birds to breed, similar modifications to its mowing plan and schedule have not been pursued.

The NHESP and The Nature Conservancy's Massachusetts Program developed BioMap2 to protect the state's biodiversity in the context of climate change. BioMap2 is designed to guide strategic biodiversity conservation in Massachusetts by focusing land protection and stewardship on the areas that are most critical for ensuring the long-term persistence of rare and other native species and their habitats, exemplary natural communities, and a diversity of ecosystems.

The Amesbury BioMap2 Map shows Core Habitat along the Merrimack and Powwow Rivers, in the vicinity of Lakes Gardner, Lake Attitash, and Tuxbury Pond, and in an area adjacent to Middle Road. Adjacent to and overlapping some of these Core Habitats are areas of Critical Natural Landscape, including two Wetland Core Buffers, three Aquatic Core Buffers, and one Coastal Adaptation Area. The Core Habitats and Critical Natural Landscapes include one BioMap2 Priority Natural Community (salt marsh), two Wetland Cores, three Aquatic Cores, and four Species of Conservation Concern Cores. See Appendix A for additional details and maps of the BioMap2 elements.

# F. Ecological Climate Resiliency

The MVP Natural Resources Infrastructure Assessment (NRIA) project completed in 2019 resulted in the creation of maps that identify ecological climate resiliency on the landscape within Amesbury. Using a variety of datasets including The Nature Conservancy's (TNC) "Resilient and Connected Landscapes for Terrestrial Conservation" (RCL) GIS datasets, the University of Massachusetts CAPS MA Index of Ecological Integrity dataset, and Mass Audubon's MAPPR Tool 2.0, existing natural infrastructure assets, their climate vulnerability/resiliency, and their capacity to support the climate resiliency of the Amesbury community was assessed. The resulting maps indicate areas within the city that provide the greatest level of ecological climate resiliency, local connectedness, and ecological and habitat integrity, and are most likely to continue to do so in the coming decades.

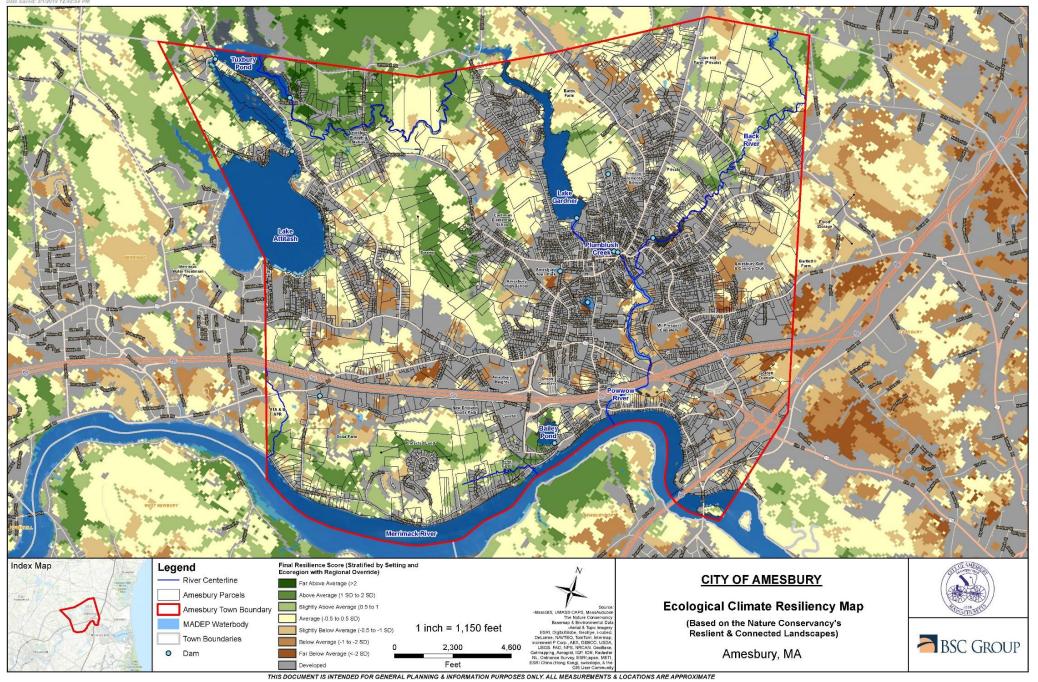
This in-depth assessment of Amesbury's natural resource infrastructure is available to help support community and ecological resilience to the changing climate. The NRIA project provides a guide for furthering city goals for increasing the capacity to manage climate-related threats, such as increased

freshwater flooding, coastal storm surge, sea level rise, severe storm events, fluctuating and extreme temperatures, and drought. The report is available on the City of Amesbury's website<sup>23</sup>, and provides detailed descriptions of climate resiliency recommendations, many of which are incorporated into this Plan.

In reviewing the available ecological climate resiliency mapping, the NRIA project identified Woodsom Farm and surrounding undeveloped areas as providing significant ecological climate resiliency, flood control, water quality and wildlife habitat value. Taken together, Woodsom Farm and adjacent undeveloped areas present the largest contiguous area within Amesbury that score in the slightly above average to far above average range on the TNC Ecological Climate Resiliency Map, therefore this area is likely to be the most ecologically climate resilient within Amesbury. Moreover, this area connects to a large area of high ecological climate resiliency to the north of Amesbury, and therefore is part of a regionally significant area of ecological climate resiliency that provides migration pathways for species moving in response to changes in climate.

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<sup>23</sup> https://www.amesburyma.gov/energy-environmental-affairs/pages/amesbury-mvp-reports



## **G.** Scenic Resources and Unique Environments

The Massachusetts Department of Conservation and Recreation (DCR) and the Essex National Heritage Commission (ENHC) collaborated to produce a Heritage Landscape Inventory report for the Amesbury community in 2005. <sup>24</sup> The following section draws extensively from this detailed Reconnaissance Report, as well as the 2004 Amesbury Master Plan, to describe selected scenic, historic, and cultural resources that give Amesbury its own special character.

#### Hills

Amesbury has a rolling, hilly landscape whose unique features include six drumlins (glacially formed hills): Beech, Lone Tree, Mundy, Ring, Powwow and Whittier Hills. These hills function as visual landmarks and provide orientation and identity within the community. There are also three smaller unnamed hills just south of Friend Street that provide a natural buffer between the Great Swamp and the older developed area in Amesbury. Lone Tree Hill, which abuts and overlooks the priority ecosystems in the Goodwin's Creek, Bartlett's Reach, and Merrimack Landing Conservation area, is the site of the planned Maples Crossing Hockey Rink complex.

Powwow Hill, at 331' above sea level, is the highest point in Amesbury and Essex County. It was an important site to the Native Americans and was used as a ski area in the 20th century. It is partially located in the Powwow Conservation Area. A portion of Whittier Hill, an important link in Amesbury's conservation corridor, was permanently preserved through a community-based fundraising campaign led by the Essex County Greenbelt Association.

Until recently most of the taller hills have remained forested but development is now either occurring or proposed on some of them. If preserved as open space, these hills will continue to serve as scenic resources and provide significant flood control and water quality protection, since development on these hills would add considerably to stormwater runoff.



BATCHELDER PARK AT THE SUMMIT OF POWWOW HILL (PHOTO: KEN ASPLESAGH)

<sup>&</sup>lt;sup>24</sup> Amesbury Reconnaissance Report - Essex County Landscape Inventory, prepared by Massachusetts Department of Conservation and Recreation and Essex National Heritage Commission, May 2005.

#### **Kimball Road**

Amesbury has two distinctive glacial eskers, which are long narrow glacially deposited ridges of gravel. One is located parallel to the Merrimack River in the Point Shore Neighborhood. The other is in the northwestern corner of Amesbury. This second esker forms the route for a stretch of Kimball Road, which extends northwest from Haverhill Street. Kimball Road is important to the community in part for its unique geological background, but also as a scenic route with rural agricultural character along its southern part and dramatic views of Lake Attitash and Tuxbury Pond along its northern section.

## **Pleasant Valley Road**

Pleasant Valley Road is a winding two-lane roadway about two miles long that still follows its historic alignment along the Merrimack River, extending from the town of Merrimac east to Martin Road in Amesbury. It is one of the most rural routes in Amesbury and one of nine designated scenic roads in the community. Much of the river edge along Pleasant Valley Road is largely invisible due to private ownership and overgrown vegetation, with only periodic views of the river edge. Access also is limited with many of the once informal connections to the river disappearing. Currently, Pleasant Valley Road is threatened by erosion of the Merrimack River bank and by recurring flooding of the roadway itself, conditions that are anticipated to worsen as heavy precipitation events, coastal storms, and sea level rise intensify during the coming decades.

## **Point Shore Neighborhood**

One of Amesbury's key goals is to preserve the rural character of the waterfront and maintain physical and visual access to the river. The Point Shore neighborhood (also known as Salisbury Point) is located along the Merrimack River south of Macy Street (Route 110) and east of the Powwow River. Main Street is the major road corridor through this neighborhood. Most of the residences are located on the north side of the street facing the Merrimack, while the south or river side of Main Street is occupied by a mix of commercial and residential uses including boatyards and fishing docks. Lowell's Boat Shop at 459 Main Street is a National Historic Landmark with a long history of continuous boat building. The Congregational Church and Alliance Park are other important features of the neighborhood.

Road treatment (i.e. width, appearance, speed, crosswalks, lighting) is key to neighborhood character. Traffic has increased, major additions have been made to some buildings and views of the Merrimack are increasingly obstructed. The neighborhood is highly valued by the community because of its link with the town's early shipbuilding industry, the scenic and historic quality of the neighborhood, and the prominent location along the Merrimack River. The Ferry District, which lies directly to the west of Point Shore, has many of the same characteristics and faces many of the same challenges.

#### **Woodsom Farm**

Woodsom Farm is a 379-acre farm on Lion's Mouth Road that was acquired by the City of Amesbury in 1989. At one time, it was Essex County's largest dairy farm, and it is considered one of Amesbury's significant historical assets. While the land is no longer used for dairy farming, the landscape maintains an agricultural image. Since that time, most of the Woodsom Farm property has been maintained as agricultural fields that are mowed and/or hayed on a regular enough basis to prevent the growth of trees and other woody plants. In addition to encouraging passive recreational use by a wide variety of users, the fields host several nesting grassland bird species. Grassland nesting birds are among the most imperiled in the region due to habitat decline, according to Mass Audubon. During the summer, species such as Savannah Sparrows, Bobolinks, and Eastern Meadowlarks—as well as state-endangered Upland Sandpipers and Grasshopper Sparrows—nest in large fields such as the ones at Woodsom Farm. Between 1966 and 2012, grassland-nesting birds have experienced steeper, more consistent, and more widespread population declines than any group of birds in North America. Grassland birds are disappearing at an alarming rate. Between

1966 and 2012, they have experienced steeper, more consistent, and more widespread population declines than any group of birds in North America. In Massachusetts, many breeding grassland birds are identified as needing urgent conservation action.

Woodsom Farm is also used for active recreation, including the use of athletic fields by the Amesbury Soccer Association and space for the annual Fourth of July fireworks display. Woodsom Farm has been at the forefront of open space and recreational planning because of its expansive size and proximity to the Cashman Elementary School and Amesbury High School. All of Woodsom Farm was designated Article 97 protected open space in 2018 for active and passive recreation (zones differentiating the two were not designated).

The MVP planning process and associated MVP NRIA project that mapped Amesbury's ecological climate resiliency led to the identification of Woodsom Farm as a significant area for ecological climate resiliency providing flood storage, groundwater storage, storm damage prevention, water quality improvement, pollution prevention, and wildlife habitat.



WOODSOM FARM SOUTH (PHOTO: ADRIENNE LENNON)

#### **Farms**

A significant amount of agricultural land is still present in Amesbury along South Hampton Road, Lion's Mouth Road and Middle Road. These areas have a distinctive rural, scenic, bucolic character which should be preserved as much as possible. The farmlands help form the "urban-rural" edge and give Amesbury its unique and charming European quality. Unfortunately, many of Amesbury's farms have already been subdivided or converted to other uses.

Cider Hill Farm, located on Fern Avenue in the northern part of town, is an active farm with a farm stand/retail store. Cider Hill Farm functions as an anchor for the agricultural area that lies along South Hampton Road in the northern part of Amesbury. The land is currently enrolled in the Chapter 61A Agriculture Tax Program.



CIDER HILL FARM (PHOTO: WWW.CIDERHILL.COM)

## H. Environmental Challenges

The City of Amesbury faces a number of existing and potential environmental challenges that affect open space and recreational planning. These challenges are the result of a variety of factors including climate change, flooding, sedimentation and erosion along the waterways, development of open space, invasive species, and past land use.

As identified during the MVP Planning project, climate change is impacting Amesbury in multiple ways including increasing flooding, extreme weather, coastal storm surge, and drought. These challenges affect people, infrastructure, and the environment. Moreover, the Merrimack River basin climate projections below show that climate changes are anticipated to increase for Amesbury over the coming decades.

Climate Change Projections - Amesbury Merrimack Watershed Basin

	2030		20	90			
Average Temperature Increase 2019 Average Temp: 51.5°F	3.34 degrees		7.42 degrees				
<b>Days &gt; 90°F</b> 2019: 21 Days	26 days		82 days				
Days < 32°F 2019: 130 Days	117	days	78 days				
Draginitation Ingress by Copper	Winter: 17%	Summer: 13%	Winter: 14.5%	Summer: 12%			
Precipitation Increase by Season	Spring: 19%	Fall: 9%	Spring:14%	Fall: 13%			
Source: Climate Boston, US Climate Data, <a href="https://www.usclimatedata.com/climate/boston/massachusetts/united-states/usma0046">https://www.usclimatedata.com/climate/boston/massachusetts/united-states/usma0046</a> Source: Resilient MA. Climate by Basin,							

Source: Resilient MA, Climate by Basin, <a href="https://www.resilientma.org/resources/resources:2152">https://www.resilientma.org/resources/resources:2152</a>
Climate change has already had observable effects on the environment and will continue to do so as

the average temperature continues to rise and precipitation patterns change. Climate change is expected to increase the occurrence and intensity of natural hazard related weather events. During the 2019 MVP planning efforts, stakeholders identified the top natural hazards for the City of Amesbury. Inland freshwater flooding from extreme precipitation events was identified as the top hazard among most participants. Other extreme weather such as extreme snow, ice and wind events, coastal storm surge, extreme and fluctuating temperatures, and drought were also highlighted as significant concerns. Collectively, it was agreed upon by the group that the City of Amesbury's top hazards present ongoing and cumulative adverse impacts on the community's most important infrastructural, societal, and environmental resources. Participants at the MVP Community Resilience

Building Workshop, the MVP Core Team and the NRIA Team all identified addressing management of stormwater, flood water and the natural and built water management/drainage infrastructure throughout the city, including riverbank restoration, as one of the two top priorities in efforts to increase Amesbury's climate resiliency. The other identified top priority was addressing social vulnerability and increasing the resilience of vulnerable populations. Appendix B includes the CRB Workshop Risk Matrix which lists 23 specific climate vulnerabilities and strengths in Amesbury.

#### Sedimentation and Erosion

Sediment is the loose sand, clay, silt and other soil particles that settle at the bottom of a body of water. These particles can come from soil erosion or from the decomposition of plants and animals. Accelerated erosion from human use of land, including construction sites, is a substantial source of sedimentation in surface waters. Climate changes, such as more frequent and intense rain events, can also increase erosion and create more stormwater runoff that results in greater amounts of sediment washing into rivers, lakes and streams. Excess sediment can be damaging to the ecological health of wetlands, waterways and water bodies and reduce their environmental, social and cultural values.

In Amesbury, known areas with riverbank erosion issues include:

- Merrimack River bank adjacent to Pleasant Valley Road
- Powwow River bank as it flows through downtown
- Back River banks

## **Invasive Species**

Invasive species are most commonly defined as a plant, animal or other organism that is not native to a specific location and tends to spread and dominate an ecosystem. Invasive species displace or damage native fauna and flora, often posing serious threats to local biodiversity and causing adverse environmental, economic or public health effects. Since they often have no natural predators in the area, they can invade, degrade or destroy the habitat of local species. Invasive plants such as curly pond weed, milfoil, and water chestnuts threaten the majority of the city's major lakes and ponds<sup>25</sup> including Lake Attitash, Lake Gardner, and Clark's Pond. Invasive species such as Japanese knotweed (Fallopia japonica) occur along riverbanks, including the Back River. Certain invasive species, such as purple loosestrife and phragmites, are also found in some wetlands, including the Golden Triangle area. Climate change has been linked to the rise in invasive species. As a result, climate change is anticipated to exacerbate the environmental challenges posed by invasive species in Amesbury by increasing the vulnerability of recreational and conservation areas to invasion by non-native species.

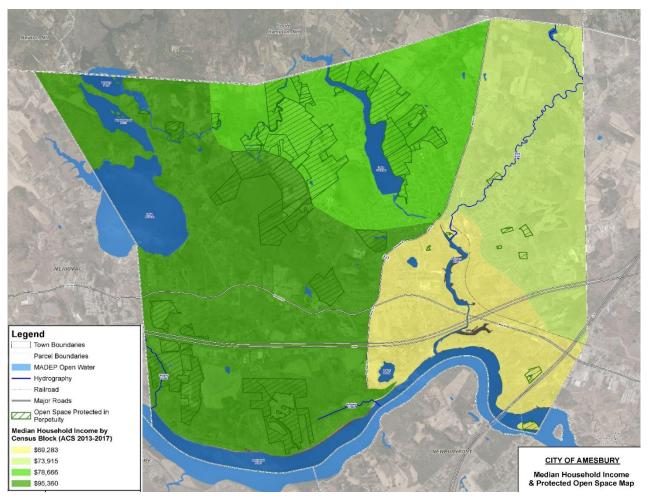
## **Environmental Equity Issues**

As a center for the American Industrial Revolution, Amesbury has been home to a wide variety of industries over the last 200 years. Mill buildings once housed carriage making, auto-body construction, hat factories, and textile manufacturers. This has left the landscape scarred with numerous brownfield sites. As with many post-industrial cities in New England, the residential neighborhoods are interwoven with these contaminated and blighted areas. In 2017, the City worked with EPA to designate the Former Microfab facility as a Superfund Site. This site is in close proximity to a residential neighborhood. Currently there are 180 sites listed with MA DEP. Twelve percent (12%) are the

<sup>&</sup>lt;sup>25</sup> Waterbody Assessment: A comprehensive assessment of Amesbury's Lakes, Ponds, and Rivers. Prepared by Amesbury Lakes and Waterways Commission, May 2013.

responsibility of the City, and more sites are added to that inventory every year. These range from former gas stations, to abandoned buildings and orphaned plumes of groundwater contamination.

In addition, park equity, or access to parks, green spaces and recreational opportunities, is a critical component of environmental equity. In Amesbury, protected open space generally exists in more affluent areas, thus building in a bias towards affluent neighborhoods and impeding equal access to open space.



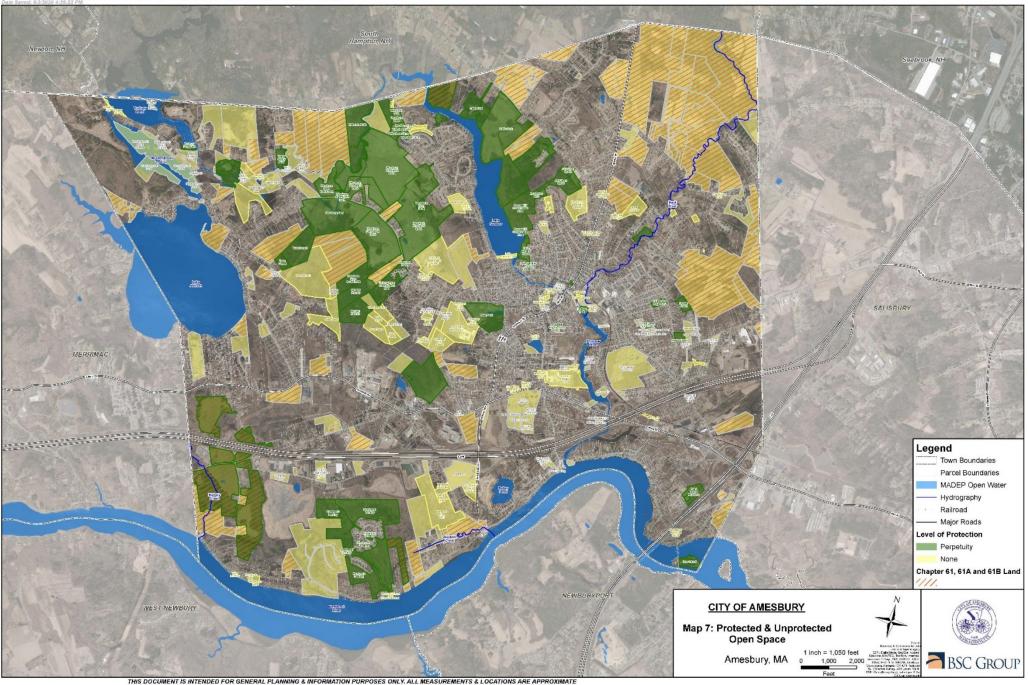
MEDIAN HOUSEHOLD INCOME & PROTECTED OPEN SPACE IN AMESBURY

## Section 5: Inventory of Lands of Conservation & Recreation Interest

An OSRP helps guide the protection and management of natural land and recreational facilities within a municipality. Besides enhancing the quality of life and providing public health and social benefits, open space planning can provide ecological, climate resiliency and economic benefits by minimizing the misuse or mismanagement of a community's natural resources and by proactively managing natural resources for multiple co-benefits.

For planning purposes, it is important to be aware of the degree of existing protection for each parcel. Knowing the level of current protection (or lack thereof) will point out how easily some properties assumed to be open space can be developed. This knowledge can help in identifying those open space and recreation areas that require additional efforts in order to ensure their long-term preservation and protection. *Map 7: Protected and Unprotected Open Space* depicts open space in Amesbury using the levels of protection defined below:

- In Perpetuity (P) Legally protected in perpetuity and recorded as such in a deed or other official document. Land dedicated to park and recreation purposes in its deed is protected under Article 97. Land is considered protected in perpetuity by Article 97 if it is held in the care, custody and control of the city's conservation commission or, sometimes, by the water department; if a city has a conservation restriction on the property in perpetuity; if it is owned by one of the state's conservation agencies; or if the city received federal or state assistance for the purchase or improvement of the property. Private land is considered permanently protected if it has a state-approved conservation restriction or Agriculture Preservation Restriction that is held by a qualified entity, such as a non-profit land trust (e.g., Greenbelt), a state conservation agency, or a municipality (typically under the care, custody and control of the Conservation Commission).
- None (N) Unprotected by any legal means. This land could be sold without restriction at any time for another use (e.g. development). This designation also includes land that is temporarily conserved through an existing functional use. For example, some water supply lands are only temporarily conserved while water resource protection is their primary use. These lands could be developed for other uses when their functional use is no longer necessary. This designation also includes lands that are likely to remain open space for other reasons (e.g. cemeteries).
- Chapter 61 Land These lands are enrolled in one of three Massachusetts Chapter 61 tax programs (Chapter 61, 61A or 61B). Each tax program provides a means to assess land at its current use (forest, agriculture, or open space/recreation) as opposed to its development value. Each of the Chapter 61 laws provides a voluntary and temporary form of conservation. The owner commits a property to agricultural, forest or recreational use. In exchange, the City reduces taxes and is granted the right to purchase the property at fair market value if and when it is removed from Chapter 61, 61A or 61B classification to be converted or sold for residential, commercial or industrial use.



## **Inventory of Conservation and Recreation Lands**

The column headings of the inventory of conservation and recreation lands within the City's boundaries are defined below:

- Site Names the open space site.
- Owner Indicates the owner of the property.
- Manager Indicates the department or responsible party for managing and maintaining the property. May be the same as the owner.
- Current Use Details the main use for the site and its facilities.
- Condition Identifies the site condition (excellent, good, fair, or poor) of City-owned open spaces and parks.
- Recreation Potential For land not used for recreational purposes, potential for recreational activities is identified.
- Funds Used Identifies the funds used for the acquisition of or upgrades to the site, including grant funds.
- Zoning District Identifies the zoning district in which the site is located.
- Level of Protection Indicates if the site, either by virtue of its ownership, existence of deed
  restrictions, or by the fact that it has received state or federal funding, is protected against
  conversion to some other use. Levels are protection are described in more detail in this
  section.
- Public Access Indicates if the public can access the site.

The following list is an inventory of conservation and recreation lands within the City's boundaries.

	Active and Multipurpose Recreation Facilities									
Site	Owner	Manager	Current Use	Condition	Recreation Potential	Funds Used	Zoning District	Level of Protection	Public Access	
Amesbury Elementary School	City of Amesbury	School Department	Playground and baseball field	Playground = good Field = poor	Trail connection to Powwow Hill Conservation Area		OSC	N	Yes	
Amesbury High School	City of Amesbury	School Department	Baseball field; softball field; tennis courts; soccer field; football stadium	Baseball = good Softball = good Tennis courts = good Soccer field = poor Football = good	Trail connections to Town Forest and Woodsom Farm		R20	N	Yes	
Amesbury Middle School	City of Amesbury	School Department	Tennis courts; baseball and softball fields; football stadium; soccer field	Good - Very Good	No changes planned at this time		osc	N	Yes	
Camp Kent	City of Amesbury	Youth and Recreation	Summer camps; special events	Good - Very Good	No changes planned at this time		osc	Р	Partial	
Cashman Elementary School	City of Amesbury	School Department	Little League baseball fields; snack shack; restroom; playground; soccer field; trails	Baseball = excellent Playground = poor Soccer = good Trail = good	No changes planned at this time		R20	N	Yes	
Collins Avenue Park	City of Amesbury	DPW	Softball field; basketball court; playground; general purpose area	Softball field = poor Basketball court = poor Playground = good General use = good	No changes planned at this time	PARC	OSC	Р	Yes	
Gillis Park	City of Amesbury	DPW	Giant chess board; benches	Excellent	Pocket park		СВ	L	Yes	

Lake Gardner Beach	City of Amesbury	DPW (Physical) & Youth and Recreation (Programm- ing)	Public beach; picnic area; bathrooms; paddle sport rentals (seasonal); trailhead; public (youth and adult) programming; events	Beach = good Trailhead = fair Bathrooms = poor	Accesible picnic furniture; carry-in boat ramp; sand enrichment	Self- Help	osc	Р	Yes
Town Landing	City of Amesbury	DPW	Parking; boat launch	Very good	No changes planned at this time		R80	N	Yes
Town Park	City of Amesbury	DPW	Softball field; playground; splash pad; basketball court; restrooms; baseball field (JV/pony); general field area; Little League field; skate park; gazebo; picnic area; skate park; seasonal outdoor; skate rink; disc golf course	Softball field = poor Playground = excellent Splash pad = excellent Basketball = good Restrooms = good Baseball field = good General field = poor Little League field = good Bleachers/benches = poor Parking = good Gazebo = excellent Pond picnic area = poor Skate park = good Disc Golf = good	Fundraising ongoing for improvements to skate park	PARC	osc	Р	Yes
Training Field	City of Amesbury	DPW	Active recreation; picnic tables; historic site	Very good	Potential playground site		OSC	N	Yes
Upper Millyard Amphitheatre	City of Amesbury	DPW	Falls viewing; public events	Very good		Self- Help	СВ	Р	Yes
Woodsom Farm	City of Amesbury	DPW	Soccer; walking; cross country skiing; sledding; public events; hay crops	Soccer = poor Tails = good Other passive = excellent	Planned additions of improved soccer fields and new baseball fields, along with		osc	Р	Yes

					lighting and paved parking				
			Conservation	and Passive Recreation	Facilities				
Name	Owner	Manager	Current use	Condition	Recreational Potential	Funds Used	Zoning District	Level of Protection	Public Access
AES Open Space	City of Amesbury	School Department	Trails	Good	No changes planned at this time		osc	Р	Yes
Batchelder Park	City of Amesbury	DPW	Trail Network Connections; Scenic Viewpoint; park bench	Trail connection: good Viewpoint = excellent Park bench = good	Potential for accessible access to scenic viewpoint		osc	Р	Yes
Battis Farm	Conservation Commission	DPW	Trails for passive recreation, Community Garden; Passive recreation; Hay Crops	Trails = good Community garden = very good Parking = good	Bird watching, if mowed for grassland bird breeding schedule; Paddle sports, with addition of landing on Powwow River/Lake Gardner; potential for accessible trail	Self- Help	osc	Р	Yes
City-Owned Open Space (116 Congress Street)	City of Amesbury	DPW	None	N/A	Pocket Park		R40	N	
Deer Island	Conservation Commission	DPW	Trails; fishing	Trails = good Fishing = poor	Establish/improve viewing points on Merrimack River		OSC	Р	Yes

Downtown Pocket Park (20 Friend Street)	City of Amesbury	DPW	Landscaped space	Very good	Trail connections to Woodsom Farm and Whittier Hill (Greenbelt)	СВ	N	Yes
Heritage Park	City of Amesbury	DPW	Riverwalk extension; Fountain feature; Historical site	Very good	Planned paddle sport access to Powwow River	IC	Р	Yes
Horton Street Open Space Parcel	City of Amesbury	DPW	None	Poor	Neighborhood park adjacent to senior housing	R8	Р	Yes
Huntington Memorial Park	City of Amesbury	DPW	Sitting area	Good	No changes planned at this time	R80	N	Yes
Merrimack Landing	Conservation Commission	DPW	Trails	Good - Poor	No changes planned at this time	R80	Р	Yes
Monument Park	City of Amesbury	DPW	War memorial; benches	Very Good	Limited recreational potential	R80	N	Yes
Mt. Prospect Cemetery	City of Amesbury	DPW	Cemetery	Good	No changes planned at this time	OSC	U	Yes
Polish-American War Memorial	City of Amesbury	DPW	Memorial	Excellent	No changes planned at this time	R8	N	Yes
Powder House	City of Amesbury	DPW	Conservation land with trails and historic structure	Poor	Repairs to artifact; informational signage	R8	Р	Yes
Powwow Hill Conservation Area	City of Amesbury	Conservation Commission	Conservation land with trails and trail markers	Poor	Trail improvements	osc	Р	Yes

Quinn Land* (not designated as permanent conservation land)	City of Amesbury	DPW	None	No improvements to evaluate	Trails to adjacent Woodsom Farm and Greenbelt land; preserve for conservation	R40	N	Yes
Riverwalk	City of Amesbury	DPW	Paved trail for passive recreation	Very good	Connect to Ghost Trail from Salisbury	Multiple	N	Yes
Rocky Hill Settlers Park	City of Amesbury	DPW	Historic site	Very good	No changes planned at this time	OP	U	Yes
Town Forest	City of Amesbury	Conservation Commission	Trails for passive recreation; parking lot	Trails = very good Parking = good	No changes planned at this time	osc	N	Yes
Tuxbury Pond	City of Amesbury	DPW	Paddle sports; fishing	Good	No changes planned at this time	R80	N	Yes
Union Cemetery	City of Amesbury	DPW	Cemetery	Good	No changes planned at this time	OSC	U	Yes
Alliance Park	Amesbury Improvement Association	Amesbury Improvement Association	Scenic area with benches	Good	No changes planned at this time	OSC	U	Yes
Patten's Pond Area	Amesbury Improvement Association	Amesbury Improvement Association	Conservation	Good	No changes planned at this time	R80	L	Yes
Bartlett Parcels	Essex County Greenbelt Association	Essex County Greenbelt Association	Conservation land with trail connection to Town Forest	Very Good	No changes planned at this time	R20	Р	Yes
Whittier Hill Reservation	Essex County Greenbelt Association	Essex County Greenbelt Association	Conservation land with trails	Very Good	No changes planned at this time	R20	Р	Yes

## **Section 6: Community Vision**

## A. Description of Process

Amesbury's Open Space, Natural Resources, and Trails Committee (OSNRTC) launched the process of updating the OSRP in fall 2019 with an online survey to better understand how residents are using the City's open space and recreation facilities and to identify priorities for the 2020 – 2027 OSRP. Over 360 responses were received, thereby providing important values and prioritization data for this OSRP.

In February 2020, BSC Group was brought on board to assist with updating the 2012 OSRP's goals, objectives, and actions based on the MVP planning efforts completed in 2019. A community forum was scheduled and advertised for March 2020, but the continuously evolving nature of the COVID-19 pandemic necessitated revising the approach to meet the required public participation process for the OSRP. Instead of meeting in person, an online community forum was launched on April 16, 2020 using electronic platforms including Zoom, WordPress, ESRI Storymap, and ESRI Online Mapping. On April 16, 2020, a virtual presentation was streamed and recorded through Zoom and Amesbury Community Television in real-time and included a run-through of the information posted into the other electronic platforms (mapping and survey questions) and a question and answer session. The online platform was used to solicit feedback on the proposed plan goals and objectives, to prioritize interests for additional open space and park amenities, and to allow attendees to provide input on any related concerns. The virtual community forum was advertised through the OSNRTC on social media and on the local cable access channel.

Though not part of this direct planning process, additional public engagement occurred through the MVP Community Resilience Building (CRB) process, which resulted in the City of Amesbury Community Resilience Building Summary of Findings Report (2019), as well as through the MVP Natural Resources Infrastructure Assessment (NRIA) project and report, also completed in 2019. The resulting information from both the CRB and the NRIA processes provides a guide for increasing the city's capacity to manage climate-related threats, such as increased freshwater flooding, coastal storm surge, sea level rise, severe storm events, fluctuating and extreme temperatures, and drought. The community participation helped shape the MVP reports, and the related feedback, analysis, and recommendations from these reports have been incorporated into this Open Space and Recreation Plan update.

## **B.** Statement of Open Space and Recreation Goals

#### **VISION STATEMENT**

The City of Amesbury is fortunate to balance its urban setting with its wealth of open space and natural resources. By developing a climate resilient Amesbury, the City will be a leader in local open space preservation and sustainable land use management. The City's efforts will interweave open space, natural resources, and trails into the fabric, enjoyment, and dialogue of the community resulting in an enhanced quality of life and improved access and awareness to open space and recreational resources for residents and visitors to enjoy for many generations to come.

## **GOALS**

As Amesbury prepares and plans for the effects of climate change, the overarching goals of its 2020 Open Space and Recreation Plan (OSRP) are to preserve and enhance the City's existing open spaces, natural resources, and recreational facilities and leverage additional opportunities for passive and active recreation for all residents through a resiliency lens. Considering these overarching goals, the OSRP contemplates the following sub-goals:

- 1. Preserve, restore, enhance and acquire natural resources that increase Amesbury's resilience to the effects of climate change, protect Amesbury's drinking water supply, and expand opportunities for passive and active recreation.
- 2. Maintain, enhance, and create recreational facilities for the enjoyment of Amesbury residents and visitors of all ages, abilities and interests.
- 3. Improve care, management and awareness of existing protected land, natural resources, and recreational facilities.
- 4. Improve access to and connectivity among open spaces, recreational facilities, and other important city resources for all members of the Amesbury community, including low-income neighborhoods, English language learners (ELL), persons with disabilities, and older residents ("socially vulnerable populations").
- 5. Improve coordination and collaboration among departments, committees, and local organizations working toward common goals for open space, natural resources, and recreation within Amesbury and with abutting municipalities.

## **Section 7: Analysis of Needs**

## A. Summary of Resource Protection Needs

Protected open space plays a significant role in helping to reduce the impacts of climate change. Importantly, there is significant overlap between critical areas identified in the Amesbury MVP process and the vast majority of Amesbury's protected open space and recreational holdings, such as Woodsom Farm, Battis Farm/Powwow Hill Conservation Areas, Heritage Park, Lakes Gardner and Attitash, and the Town Forest/Great Swamp which provides water storage for the Powwow River. Management of stormwater, flood water and the natural and built water management/drainage infrastructure throughout the city, including riverbank restoration, has been identified as one of the top priorities in efforts to increase Amesbury's climate resiliency.

The 2019 NRIA project identified Woodsom Farm and surrounding undeveloped areas as one of the areas providing the most significant ecological climate resiliency, flood control, water quality and wildlife habitat value in Amesbury. Moreover, the wetlands and floodplains in the Woodsom Farm area are able to store large volumes of water, reducing peak flows in the Powwow River and associated flooding in downstream areas such as downtown Amesbury and the National Grid power station. The ecological significance of Woodsom Farm must be sustained in light of the planned construction of the new Amesbury Elementary School building adjacent to Woodsom Farm and next to the existing Cashman Elementary School. Baseball fields at Cashman Elementary School are planned to be built upon for the new school, and the fields will be shifted north onto the Woodsom Farm land. Improved soccer fields at Woodsom Farm are also planned. As a result, there are concerns about downstream impacts on residential areas and downtown Amesbury. Approaches to management and enhancement of Woodsom Farm that best enhance and protect the climate resiliency functions of the property while at the same time enhancing and supporting the open space and recreational value of Woodsom Farm are needed.

The Mass Audubon Mapping and Prioritizing Parcels for Resilience (MAPPR) Tool 2.0, which is hosted on their website,<sup>26</sup> identifies parcels of land within an area of interest that are the highest priorities for protection based on habitat quality, climate change resilience, and other metrics such as parcel size

<sup>&</sup>lt;sup>26</sup>https://www.massaudubon.org/our-conservation-work/advocacy/shaping-the-future-of-your-community/current-projects/mappr-project/mappr-tool

and adjacency to existing protected parcels. For Amesbury, the MAPPR Tool 2.0 identifies parcels in the vicinity of Woodsom Farm, Lake Attitash, Tuxbury Pond, the Merrimack River, Lake Gardner, and the Back River as being of greatest climate resiliency and conservation value (see 2019 NRIA Amesbury MAPPR Resilience Model and MAPPR Aquatic Model Maps in Appendix C).

In a letter dated February 21, 2020, NHESP staff provided recommendations for land protection, habitat management, regulation, and education and outreach. For land protection, NHESP recommends that the City target the remaining large properties that are both undeveloped and unprotected along the Powwow River near the New Hampshire border, an area that was also recognized for providing significant ecological climate resiliency and ecosystem services in the 2019 NRIA report. The NHESP also recommends targeting any remaining undeveloped parcels or portions of parcels along the Merrimack River and in and adjacent to any wetlands.

For habitat management, NHESP recommendations include the assessment and management of invasive species in recreational and conservation areas, and mowing schedules for large fields like Woodsom Farm to encourage breeding of grassland birds. NHESP staff also recommended developing education and outreach efforts as low-cost ways to build support for land protection, habitat management, and regulation.

The Amesbury Open Space and Recreation Plan Survey completed in fall 2019 asked residents to rank the importance of preserving additional land for various natural resources. While all of the natural resources were ranked highly, protecting ground water and drinking water was ranked as very important by the most respondents (71%), followed by protecting wildlife habitat (62%) and protecting forests (60%). Passive recreation, farmland, and scenic and rural landscape were all ranked as very important by more than half of respondents.

Preservation of agricultural land is an important goal for Amesbury, particularly in areas that retain a high concentration of agricultural use such as along South Hampton Road, Lion's Mouth Road and Middle Road. Many of Amesbury's farms have already been subdivided or converted to other uses, but farms that remain are highly valued by the community, especially those that retain active agricultural use, have significant historic structures or are visible from public right of ways. <sup>27</sup> Cider Hill Farm is the cornerstone of the agricultural district in the northeastern part of Amesbury and a highly valued community asset. It is currently an active family-owned farm but there are no permanent protections in place to assure that the land remains in active agricultural use. The Agriculture Prioritization Results map in Appendix D (Greenbelt Parcel Prioritization Maps) highlights critical and high priority parcels for conservation efforts across the city. In planning for the future of Amesbury's climate resiliency, it is also recommended that climate-related challenges specific to agriculture be considered. Soil health is one significant component of agricultural resiliency to climate change.

To sustain the Amesbury community, green infrastructure systems—the parks, trails, water bodies, drinking water sources, agricultural and forest lands, biodiversity areas, and other open space—must function and remain viable at the regional scale. Accordingly, coordination amongst the City, local conservation (e.g., trails and waterways) and regional conservation and planning groups would facilitate a regional approach.

Lastly, while climate change is already having profound effects on people, infrastructure, ecosystems and wildlife, open space such as undeveloped lands and urban green spaces contribute to mitigating climate change by reducing greenhouse gases and helping us adapt by increasing resilience in the

<sup>&</sup>lt;sup>27</sup> Amesbury Reconnaissance Report - Essex County Landscape Inventory, prepared by Massachusetts Department of Conservation and Recreation and Essex National Heritage Commission, May 2005.

face of unavoidable changes already underway.<sup>28</sup> Therefore, it is important to ensure that investments in land protection benefit not only natural resource protection, landscape connectivity, and the recreational needs of the Amesbury community but also incorporate other aspects of resiliency to climate change.

## **B.** Summary of Community's Needs

Amesbury parks and open spaces provide residents and visitors with a variety of passive and active recreational opportunities; however, certain recreational uses are underserved, and high levels of use alongside deferred maintenance and budgetary and staffing constraints have created significant challenges for the City's existing parks and recreational facilities.

The draft 2012 OSRP identified a need for additional play lots and playgrounds in Amesbury, which is a known need going back to the 2004 Amesbury Master Plan. While a new playground was completed at the Town Park Playground in 2012, and a splashpad was completed in 2015, there is a continuing need for playgrounds to meet the needs of the community. This need is present in the Amesbury center, where the population is most dense and a play lot is essentially a substitute for a backyard, as well as lower-income communities such as along Route 110 and Main Street. In general, Amesbury's playground structures are not accessible to all users, as detailed in the ADA self-evaluations.

The Open Space and Recreation Plan Survey completed in fall 2019 asked respondents about their level of satisfaction with Amesbury's recreational options for various demographic groups. After excluding those that selected "No Opinion," respondents were generally very satisfied or somewhat satisfied with recreational options for elementary grades (93%), toddlers (91%), and adults ages 26-64 (85%). On the other hand, 48% of respondents were dissatisfied with options for persons with disabilities, 35% were dissatisfied with options for young adults (ages 19 – 25), and 33% were dissatisfied with options for high school students. In terms of maintenance of Amesbury's open space and recreation resources, the top five resources ranked as poorly maintained were Lake Gardner facilities (51%) and beach (43%), Landry Stadium (27.5%), Collins Street Fields/Courts (23%), and the Powwow River (21%). Respondents were also asked to rank where Amesbury should prioritize its resources for planning, maintenance, improvement, and expansion of open space and recreation resources. Protecting/preserving existing open space resources was ranked highest by 67% of respondents, followed by hiking/walking trails (57%), and lakes and waterways (53%).

The 2018 Amesbury Sports Fields Master Plan reviewed Amesbury's sports fields to assess whether the provisions for these facilities are in line with what other communities provide by referencing the annual park metrics survey results by the National Parks and Recreation Association (NPRA) as well as the typical averages for similar communities. Based upon this comparison, Amesbury appears in need of additional youth baseball and T-ball fields as well as full-size soccer fields. This challenge may be exacerbated by the proposed Amesbury Elementary School that will be constructed on the existing baseball fields at Cashman Elementary School. Additionally, the Sports Fields Master Plan found that Amesbury may want to consider adding a multipurpose synthetic field to address the use limitations of natural fields, which typically are limited to 20-24 hours of weekly use to maintain a healthy surface. It is important that planning for the location of sports fields take climate resiliency for the community as a whole into account.

Seniors, especially those living alone, are more vulnerable to social isolation and physical and mental health issues. This is particularly true during a public health crisis such as COVID-19, where social distancing is required. Parks, open space and recreational facilities provide settings where seniors can

<sup>&</sup>lt;sup>28</sup> Losing Ground - Nature's Value in a Changing Climate (Sixth Edition), prepared by Mass Audubon, 2020.

socialize, exercise, and enjoy the beauty of their natural surroundings. During public health crises that require social distancing, these outdoor public spaces allow social gathering while maintaining required distances between people. The open space and recreational needs of seniors varies between the younger, more active senior citizens and the frail elderly. Elderly residents may have similar needs to those of residents with disabilities in terms of their ability to access recreation facilities. Particularly with open space, the City needs to ensure that it provides opportunities for active older adults and intergenerational recreation with an emphasis on accessibility. Recent recreational improvements, including the splash pad at Town Park and the Heritage Park in the Lower Millyard, were designed with accessibility in mind. Other resources, such as the recently rebuilt playground at Town Park and the popular Riverwalk multiuse trail, could be made more accessible with some structural changes and improved maintenance. There are no accessible nature trails in Amesbury, though several opportunities exist, such as at Woodsom and Battis Farms, as well as Batchelder Park. See Appendix E for the ADA assessment of recreational facilities in Amesbury.

The Statewide Comprehensive Outdoor Recreation Plan (SCORP) is the Commonwealth's statewide open space plan. SCORP plans are developed by individual states in order to be eligible for federal Land and Water Conservation Fund (LWCF) grants. In 2017, the Executive Office of Energy and Environmental Affairs completed the Massachusetts SCORP to help guide the distribution of federal funding to state agencies and municipalities for the acquisition of open space, renovation of parks, and development of new parks. The SCORP is a planning document that discusses the available recreational resources in a state, as well as its needs, and identifies the gaps between the two. The goals and objectives of the 2017 SCORP are to:

#### Goal 1: Improve Access for Underserved Populations

- 1. Support the acquisition of land and development of new open spaces in areas that lack existing or useable open spaces, such as Environmental Justice neighborhoods.
- 2. Develop parks and open spaces that offer amenities that go above and beyond ADA requirements for people with disabilities.
- 3. Consider the needs of underserved demographic groups senior citizens and teenagers in park and open space designs.
- 4. Encourage establishment of programming endowments.

## Goal 2: Support the Statewide Trails Initiative

- 1. Support the acquisition of land and development of new open spaces that can provide a trail network.
- 2. Fill in the gaps of existing trail networks.
- 3. Ensure that any existing or new trails are fully accessible to people with disabilities.

#### Goal 3: Increase the Availability of Water-based Recreation

- 1. Support the acquisition of land that will provide for water-based recreation.
- 2. Support the acquisition of land that will increase drinking water supply protection.
- 3. Develop water-based recreational facilities, including swimming areas, spray parks, boating facilities, fishing areas, etc.

#### Goal 4: Support the Creation and Renovation of Neighborhood Parks

1. Promote the acquisition and development of neighborhood parks where none currently exist.

- 2. Develop amenities supported by neighborhood parks, such as playgrounds, offleash dog parks, and community gardens.
- 3. Work with community development organizations to improve walking access to local parks.

This OSRP is consistent with and helps further these goals and objectives.

## C. Management Needs, Potential Change of Use

Amesbury does not have a Parks and Recreation Department, and except for facilities owned and maintained by the School Department and the Conservation Commission, some of whose facilities and trails are maintained by volunteers, the Department of Public Works (DPW) currently maintains the City's parks, playgrounds, athletic fields, cemeteries, trees, municipal building grounds, and other City-owned infrastructure. Several athletic organizations have agreements with the City for use of specific athletic facilities, and the organizations often invest in updates and provide additional maintenance to the facilities. Over the years, facilities have been added while DPW staffing and its operations budget have remained fairly level. The economic fallout of the 2020 COVID-19 pandemic crisis is likely to erode municipal resources further. As a result, the department is limited in its ability to maintain the properties. The current climate of dwindling local funding resources adds strain to the DPW's personnel to maintain a diverse portfolio of facilities. Expanded maintenance funding is critical to maintaining a high quality of life that Amesbury residents expect. There is a need to discover new and unique sources of funding for maintenance, repairs, staff, and materials, including the adoption of the Community Preservation Act (CPA), which was proposed and defeated in Amesbury in 2016.

The Amesbury Sports Fields Master Plan (2018) identified a need for continued monitoring and close coordination between the City and athletic organizations in order to better manage levels of use of athletic fields. Ensuring a sustainable and resilient natural athletic field requires effectively managing the levels of use and maintenance. The Youth Recreation Department runs the City's community recreation programs and camps but it is not directly involved in organized athletic programs, which are run by various youth athletic organizations. The department upgraded its scheduling system and offers an online calendar showing field reservations. The very high demand for field space has led to the need for the City to gain full control of scheduling for its facilities. Steps should to be taken to improve coordination with user organizations to ensure that their needs are met and the facilities are not overscheduled, potentially by using the City's online recreation management software service to improve efficiency and services for management of athletic fields.

In addition, no City-owned open space properties, including Woodsom Farm, Town Forest, Powwow Hill Conservation Area, and Battis Farm, currently have comprehensive management plans to aid in the efficient and effective management of the sites. Management plans are essential tools to guide community decision-making, clarifying ownership and management responsibilities, enumerating community values, goals, and objectives for a particular property, describing uses, and laying out plans of action. Planning and decision-making for City-owned properties has often been hobbled by the absence of management plans. The NRIA report also identified the need to develop bank and river corridor management/maintenance plans for the Back River and Clark's Pond.

## **Section 8: Goals and Objectives**

As Amesbury prepares and plans for the effects of climate change, the overarching goals of its 2020 Open Space and Recreation Plan (OSRP) are to preserve and enhance the City's existing open spaces, natural resources, and recreational facilities and leverage additional opportunities for passive and active recreation for all residents through a resiliency lens. Considering these overarching goals, the OSRP contemplates the following sub-goals and objectives:

- GOAL 1. Preserve, restore, enhance and acquire natural resources that increase Amesbury's resilience to the effects of climate change, protect Amesbury's drinking water supply, and expand opportunities for passive and active recreation.
  - Objective 1.1 Encourage City to thoroughly and collaboratively evaluate opportunities to permanently protect open space, farmland, scenic and rural character through the Chapter 61/61A/61B Right of First Refusal Process.
  - **Objective 1.2** Integrate natural resource preservation and enhancement with other community development activities to ensure continued delivery of ecosystem services.
  - **Objective 1.3** Preserve critical undeveloped parcels through fee acquisition or conservation restrictions. Integrate climate resiliency assessment into prioritization criteria.
  - Objective 1.4 Implement nature based and green infrastructure solutions to enhance the ecological integrity of Amesbury's natural resources guided by Amesbury's MVP and Natural Resources Infrastructure Assessment Report and mapping.
- GOAL 2. Maintain, enhance, and create recreational facilities for the enjoyment of Amesbury residents and visitors of all ages, abilities and interests.
  - **Objective 2.1.** Repair and update existing active recreational facilities.
  - **Objective 2.2.** Provide recreational amenities that promote accessibility and use by all park user groups.
  - **Objective 2.3.** Develop new and/or expand existing field space to address unmet demand as identified in the 2018 Amesbury Sports Fields Master Plan, including the need for additional youth baseball, T-ball, and full-size soccer fields.
- GOAL 3. Improve care, management and awareness of existing protected land, natural resources, and recreational facilities.
  - **Objective 3.1.** Integrate sound resource management practices into active use of open space, recreational land, and water resources.
  - **Objective 3.2.** Improve public awareness and stewardship of Amesbury's open space, natural resources, and recreation assets.
  - **Objective 3.3.** Expand City's capacity and resources to manage existing conservation, open space, passive recreation, and active recreation facilities.
- GOAL 4. Improve access to and connectivity among open spaces, recreational facilities, and other important city resources for all members of the Amesbury community, including low-income neighborhoods, English language learners (ELL), persons with disabilities, and older residents ("socially-vulnerable populations").
  - **Objective 4.1.** Improve multimodal connections and wayfinding to provide safe travel to passive recreational trails and active recreation areas by walking, bicycle, and public transport.
  - **Objective 4.2.** Improve ADA accessibility at active and passive recreational facilities.
  - **Objective 4.3.** Evaluate and plan for nature based solutions that would provide accessible open space and recreational opportunities for socially-vulnerable populations.

- GOAL 5. Improve coordination and collaboration among departments, committees, and local organizations working toward common goals for open space, natural resources, and recreation within Amesbury and with abutting municipalities.
  - **Objective 5.1.** Continue to support locally organized recreation and conservation groups dedicated to the maintenance and expansion of existing facilities.
  - **Objective 5.2.** Think regionally and work collaboratively with neighboring municipalities and states encourage a regional approach to open space and natural resources protection.

## Section 9: Seven Year Action Plan

This section presents an Action Plan designed to address the Goals and Objectives developed through this Open Space and Recreation Plan update. The table identifies specific actions, determines priority, provides a suggested time frame, and defines who is responsible for making progress toward each recommended action. Cost estimates have not been established for specific action items, and a budget is therefore not included. The priorities, as listed, are reflective of the dynamics of the community at the time this plan was prepared. It should be recognized that any number of factors could influence the activities and their timing. Unexpected funding availability could change the status of an item or the sudden availability of a critical parcel of land may require the City to reassess its priorities. The OSNRTC should revisit this Action Plan annually and revise accordingly.

Goal 1: Preserve, restore, enhance and acquire natural resources that increase Amesbury's resilience to the effects of climate change, protect Amesbury's drinking water supply, and expand opportunities for passive and active recreation.								
Objectives/Actions	Responsible Party	Priority / Time Frame						
Objective 1.1 Encourage City to thoroughly and collaboratively evaluate opportunities to permanently protect open space, farmland, scenic and rural character through the Chapte 61/61A/61B to Right of First Refusal Process.								
Action: Create protocol for municipal review of Chapter 61 Right of First Refusal opportunities, including criteria commensurate with MVP objectives.	OSNRTC	High / Short-term						
Action: Identify priority parcels for preservation that are in the Chapter 61 program, and work with municipal officials to understand options for exercising Right of First Refusal and undertake proactive landowner outreach.	OSNRTC	Medium / Ongoing						
Objective: 1.2. Integrate natural resource preservation and enhancement with other community development activities to ensure continued delivery of ecosystem services.								
Action: Review Amesbury zoning and conservation bylaws and ordinances and incorporate green infrastructure and conservation of functioning	OSNRTC, Community & Economic Development	High / Short-term						

natural ecosystems and other nature based solutions as requirements. <sup>29</sup>		
Action: Make consideration of the site's contribution toward Amesbury's climate resiliency a requirement for future open space purchase and projects, rather than merely a recommendation or suggestion.		High / Ongoing
Objective 1.3 Preserve critical undeveloped pare restrictions. Integrate climate resiliency assessment		
Action: Prioritize parcels based on NRIA recommendations and Greenbelt Parcel Prioritization mapping.	OSNRTC	High / Short-term
Action: Work with neighboring communities (including in New Hampshire) to collaborate on protecting watershed lands supplying Amesbury's drinking water, notably the Powwow River watershed and Lake Attitash area.	ng EEA	High / Ongoing
Action: Designate all Town Forest parcels as Article 97 land for conservation and passive recreation.	EEA	Medium / Intermediate
Action: Identify funding resources for open space acquisition. Educate Amesbury residents about the benefits of the Community Preservation Act (CPA) and encourage CPA adoption.	OSNRTC	High / Ongoing
Objective 1.4 Implement nature based and greecological integrity of Amesbury's natural resources Resources Infrastructure Assessment Report and management	ces guided by Ames	
Action: Improve water quality of all Amesbury's lake and ponds including Lake Attitash [see Objective 5.2 as well] and Lake Gardner.	DPW, Conservation Commission, EEA	High / Ongoing
Action: Manage invasive plants on City-owned open space parcels.	DPW, Conservation Commission, OSNRTC	High / Ongoing

<sup>&</sup>lt;sup>29</sup> Mass Audubon provides a technical assistance and a Bylaw Review tool: <a href="https://www.massaudubon.org/our-conservation-work/advocacy/shaping-the-future-of-your-community/publications-community-resources/bylaw-review">https://www.massaudubon.org/our-conservation-work/advocacy/shaping-the-future-of-your-community/publications-community-resources/bylaw-review</a>

Action: Plan and design a streambank and wetland restoration project including invasive species removal on City-owned land adjacent to Back River.	EEA	High / Short-term
Action: Identify nature based solutions for areas known to have recurring and worsening flooding problems such as the Amesbury Elementary School Area and Bailey's Pond area.	EEA	High / Intermediate
Action: Address sedimentation and continue invasive species control at Clark's Pond.	EEA	High / Short-term
Action: Encourage native tree and vegetation planting in the downtown area and other high-pavement areas, including large parking lots, to help manage stormwater runoff and increase shade.	DPW, EEA	High / Intermediate
Goal 2: Maintain, enhance, and create recreational residents and visitors of all ages, abilities and inter		enjoyment of Amesbury
	Responsible	
Objectives/Actions	Parties	Priority / Time Frame
Objectives/Actions  Objective 2.1 Repair and update existing active recrea	Parties	Priority / Time Frame
	Parties	Priority / Time Frame  High / Ongoing
Objective 2.1 Repair and update existing active recreation: Upgrade amenities at recreational facilities as identified in this plan, including Lake Gardner, Landry Stadium, and Collins Street	Parties ational facilities.	High /
Objective 2.1 Repair and update existing active recreation:  Action: Upgrade amenities at recreational facilities as identified in this plan, including Lake Gardner, Landry Stadium, and Collins Street Fields/Courts.  Action: Implement the 2017 Lake Gardner Beach	Parties ational facilities.  DPW  DPW, EEA	High / Ongoing High / Short-term & Ongoing
Objective 2.1 Repair and update existing active recreation:  Action: Upgrade amenities at recreational facilities as identified in this plan, including Lake Gardner, Landry Stadium, and Collins Street Fields/Courts.  Action: Implement the 2017 Lake Gardner Beach Management Plan.  Objective 2.2 Provide recreational amenities that pro	Parties ational facilities.  DPW  DPW, EEA	High / Ongoing High / Short-term & Ongoing
Objective 2.1 Repair and update existing active recreation: Upgrade amenities at recreational facilities as identified in this plan, including Lake Gardner, Landry Stadium, and Collins Street Fields/Courts.  Action: Implement the 2017 Lake Gardner Beach Management Plan.  Objective 2.2 Provide recreational amenities that progroups.	Parties  ational facilities.  DPW  DPW, EEA  mote accessibility	High / Ongoing  High / Short-term & Ongoing  and use by all park user  High /

Action: Create small local parks in or near highly developed areas and areas currently underserved by neighborhood recreational facilities.	DPW, EEA	Medium / Intermediate					
Action: Identify locations for a potential future off- leash dog park and complete a plan for the preferred location.	EEA, OSRNTC	Medium / Intermediate					
Objective 2.3 Develop new and/or expand existing field space to address unmet den identified in the 2018 Amesbury Sports Fields Master Plan, including the need for addition baseball, T-ball, and full-size soccer fields.							
Action: Identify parcels in areas less likely to impact natural resources important to Amesbury's climate resilience.	DPW	High / Short-term					
Action: Incorporate resilient design options such as low maintenance and low water use landscaping, and nature based solutions when designing and building new active recreational facilities.	DPW	High / Ongoing					
Goal 3: Improve care, management and awareness of existing protected land, natural resources, agricultural land and recreational facilities.							
		, , , , , , , , , , , , , , , , , , , ,					
		Priority / Time Frame					
resources, agricultural land and recreational facilit	Responsible Parties	Priority / Time Frame					
resources, agricultural land and recreational facilit  Objectives/Actions  Objective 3.1 Integrate sound resource management	Responsible Parties	Priority / Time Frame					
Objectives/Actions  Objective 3.1 Integrate sound resource management recreational land, and water resources.  Action: Create management plans for each of the City's conservation and passive recreation areas, referencing best practices and the	Responsible Parties  t practices into a  Conservation	Priority / Time Frame  ctive use of open space,  High /					
Objectives/Actions  Objective 3.1 Integrate sound resource management recreational land, and water resources.  Action: Create management plans for each of the City's conservation and passive recreation areas, referencing best practices and the 2019 NRIA Report.  Action: To ensure sustainable and resilient natural athletic fields, develop a plan for effectively managing the levels of use and maintenance that incorporates key management goals in the 2018 Amesbury Sports Fields Master	Responsible Parties t practices into a  Conservation Commission  Youth Recreation,	Priority / Time Frame  ctive use of open space,  High / Intermediate					

resources and recreation assets.

Action: Develop and maintain an up to date inventor of City-owned recreational facilities and programming.	y Youth Recreation, DPW	High / Short-term
Action: Hold community engagement events and activities to inform the public of the values of protected open space and farmland.	OSNRTC	High / Ongoing
Action: Provide community education and outreach to make City government and residents fully aware of important resiliency services provided by Woodsom Farm and how critical the area is for protecting the downtown area from flooding.	OSNRTC	High / Ongoing
Action: Implement best management practices for natural area trails when maintaining, enhancing or building new trails.		Medium / Intermediate
Action: Create and implement a centralized online resource that provides information about open space and recreational programming in the City. Information should include location, trail maps, allowed uses, contacts and rules/regulations.	I PACTASTION	Medium / Short-term
Action: Create kiosks with trail maps, user regulations, natural resource and other information at every access point for Cityowned open space (other was too specific to current circumstances and read like an objective)	OSNRTC	Medium / Ongoing
Action: Encourage local health partners to support efforts to conserve natural resources and local farmland as part of a holistic plan to protect public health and local food supplies.	OSNRTC	Medium / Ongoing
Objective 3.3 Expand City's capacity and resources passive recreation, and active recreation facilities.	to manage existing (	conservation, open space,
Action: Develop a plan to monitor open space parcel for compliance with their respective permits, including restrictions, easements, or access requirements.	S Conservation Commission	Medium / Intermediate
Action: Work with existing conservation groups to expand membership, volunteers, and resources and other support of open space and recreational resources.	OSNRTC	High / Ongoing

Action: Explore options for expanding City staffing, including the creation of a Parks and Open Space Department within Energy & Environmental Affairs.	EEA	Medium / Intermediate						
Goal 4: Improve access to and connectivity among open spaces, recreational facilities, and other important city resources for all members of the Amesbury community, including low-income neighborhoods, English language learners (ELL), persons with disabilities, and older residents ("socially-vulnerable populations").								
Objectives/Actions	Responsible Parties	Priority / Time Frame						
Objective 4.1 Improve multimodal connections and v recreational trails and active recreation areas by walking								
Action: Complete and implement a Comprehensive Trails Plan that prioritizes multimodal connections and wayfinding between open spaces, recreational facilities, schools, downtown, commercial areas, densely populated neighborhoods and areas with socially vulnerable populations.	OSNRTC	High / Intermediate						
Action: Implement the Carriagetown Connector Project in concert with the Coastal Trails Coalition (CTC) to join Amesbury's Riverwalk and Elm Street, the final trail link between Amesbury and the rest of the Coastal Trails Network.	DPW	High / Short-term						
Objective 4.2 Improve ADA accessibility at active and	passive recreation	nal facilities.						
Action: Identify potential location(s) to establish allaccess trail(s).	EEA, OSNRTC	High / Ongoing						
Action: Prioritize projects that provide climate resilience as well as accessible open space and recreation. Accessibility would entail meeting Americans with Disabilities Act (ADA) requirements and would entail proximity to vulnerable populations in order to eliminate/reduce transportation needs to get to the area.	DPW	High / Short-term and Ongoing						
Action: Identify funding resources and apply for grants to facilitate access and connectivity improvements.	OSNRTC, City of Amesbury	High / Ongoing						
Objective 4.3 Evaluate and plan for nature based solutions that would provide accessible open space and recreational opportunities for socially vulnerable populations.								

Goal 5: Improve coordination and collaboration among departments, committees, and local organizations working toward common goals for open space, natural resources, and recreation within Amesbury and with abutting municipalities.

recreation within Amesbury and with abutting municipalities.		
Objectives/Actions	Responsible Parties	Priority / Time Frame
Objective 5.1 Continue to support locally organized recreation and conservation groups dedicated to the maintenance and expansion of existing protected open space and recreation facilities.		
Action: Encourage collaboration between the groups as well as public advocacy and dissemination of open space resource information to the community.	OSNRTC	High / Ongoing
Action: Host an Amesbury Open Space and Recreation Summit including local and regional conservation organizations and interested public to prioritize common goals and collaborate on action plans.	OSNRTC	Medium / Short-term to Intermediate
Objective 5.2 Think regionally and work collaboratively with neighboring municipalities and states – encourage a regional approach to open space and natural resources protection.		
Action: Partner with the Town of Merrimac for a regional project funded through MVP to address water issues at Lake Attitash, which is shared between the two communities.	EEA	High / Short-term to Intermediate
Action: Coordinate with the New Hampshire Powwow River Watershed Collaborative to identify effective strategies to improve water quality and protect existing high quality water and natural resources in the Powwow River watershed.	EEA	High / Short-term to Long-term

# Section 10: Public Comments ADD LETTERS OF REVIEW WHEN AVAILABLE

## Section 11: References

- Amesbury Municipal Vulnerability Preparedness (MVP) Community Resilience Building Summary of Findings Report, prepared by BSC Group, Inc. and City of Amesbury, 2019.
- Amesbury Natural Resources Infrastructure Assessment Report, prepared by BSC Group, Inc. and City of Amesbury, 2019.
- City of Amesbury Capital Improvement Plan, 2019.
- Amesbury Sports Fields Master Plan, prepared by Milone & Macbroom, October 2018.
- Amesbury Housing Production Plan, prepared by the Merrimack Valley Planning Commission, 2018.
- Waterbody Assessment: A Comprehensive Assessment of Amesbury's Lakes, Ponds, and Rivers. Prepared by Amesbury Lakes and Waterways Commission, May 2013.
- 2012 2019 Draft Amesbury Open Space and Recreation Plan, prepared by the City of Amesbury, 2012.
- Amesbury Reconnaissance Report Essex County Landscape Inventory, prepared by Massachusetts Department of Conservation and Recreation and Essex National Heritage Commission, May 2005.
- Town of Amesbury Master Plan, Prepared by Vanasse Hangen Brustlin, Inc., 2004.
- Losing Ground Nature's Value in a Changing Climate (Sixth Edition), prepared by Mass Audubon. 2020.
- Coastal Trails Coalition Progress Report, Coastal Trails Coalition, 2019.
- Collaborative Engagement and Capacity Building in the Powwow River Watershed, prepared by Rockingham Planning Commission, December 2019.
- Merrimack Valley Priority Growth Strategy Regional Land Use Plan for the Merrimack Valley Region, Prepared by the Merrimack Valley Planning Commission, 2015.
- U.S. Census Bureau, American Community Survey Data.
- Massachusetts Climate Change Projections Statewide and for Major Drainage Basins, Resilient MA, 2018.
- MA Wildlife NHESP, BioMap2, 2012.
- Soil Survey for Essex County, MA Northern Part, Soil Conservation Service and Essex Conservation District, 1981.
- Soils and Their Interpretations for Various Land Uses (Amesbury), Soil Conservation Service and Essex Conservation District, 1969.
- Massachusetts Statewide Comprehensive Outdoor Recreation Plan (SCORP), 2017.
- Open Space & Recreation Planners Workbook, 2008.

Appendix A: MA Natural Heritage and Endangered Species Program (NHESP) Letter, February 21, 2020 & BioMap2 Report



# DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 | f: (508) 389-7890 M A S S . G O V / M A S S W I L D L I F E

February 21, 2020

Alexandra Echandi BSC Group, Inc. 33 Waldo St. Worcester, MA

RE: Amesbury Open Space and Recreation Plan

Dear Ms. Echandi:

Thank you for contacting the Massachusetts Natural Heritage and Endangered Species Program (NHESP) regarding the Open Space and Recreation Plan for the City of Amesbury. Enclosed is information on species listed under the Massachusetts Endangered Species Act (MESA), as well as on Priority Natural Communities, Certified and Potential Vernal Pools, Coldwater Fishery Resource streams and rivers, and other aspects of biodiversity documented in our database for the City of Amesbury. The City is encouraged to include this letter and associated materials in the Open Space and Recreation Plan.

#### **MESA-listed Species**

According to the NHESP database, the City of Amesbury currently has habitat for the following rare species listed under MESA:

- Shortnose Sturgeon (Acipenser brevirostrum, Endangered, federally Endangered)
- Atlantic Sturgeon (Acipenser oxyrinchus, Endangered, federally Threatened)
- Vasey's Pondweed (*Potamogeton vaseyi*, Endangered)
- Blue-spotted Salamander (Ambystoma laterale, Special Concern)
- Twelve-spotted Tiger Beetle (*Cicindela duodecimguttata*, Special Concern)
- Bald Eagle (Haliaeetus leucocephalus, Special Concern)
- Eastern Pondmussel (*Ligumia nasuta*, Special Concern)
- Eastern Meadowlark (Sturnella magna, Special Concern)

Fact sheets on these species may be downloaded from our website at <a href="http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/mesa-list/list-of-rare-species-in-massachusetts.html">http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/mesa-list/list-of-rare-species-in-massachusetts.html</a>. The City is encouraged to include these fact sheets in its Plan.

#### **Priority Natural Communities**

There is one Priority Natural Community documented to NHESP from Amesbury;

Salt Marsh

A fact sheet on this natural community may be downloaded from our website at <a href="http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/natural-communities/natural-community-fact-sheets.html">http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/natural-communities/natural-community-fact-sheets.html</a>. The City is encouraged to include this fact sheet in its Plan.

#### **Vernal Pools**

As of this date, there are 4 Certified and 25 Potential Vernal Pools documented from Amesbury. The City is encouraged to require developers to certify pools on any property requiring permits from the City and, as well, to certify any pools on the City's own property.

## **Coldwater Fishery Resources**

There is one Coldwater Fisheries Resource stream in Amesbury:

Presbys Creek

#### BioMap2

Eighteen areas within Amesbury are *BioMap2* Core Habitat. They include three Aquatic Cores, two Wetland Cores, one Priority Natural Community Core, and areas for seven Species of Conservation Concern.

Adjacent to and overlapping some of these Core Habitats in Amesbury are six areas of *BioMap2* Critical Natural Landscape, including three Aquatic Buffers, two Wetland Buffers, and one Coastal Adaptation Area. For an explanation of *BioMap2* and the Core Habitats within Amesbury, please see the attached *BioMap2* Report.

#### Discussion

In a city like Amesbury, it can be hard to decide which areas are the highest priorities for conservation actions. The City should consider carefully these suggestions for inclusion in its Open Space and Recreation Plan:

• Land Protection: Much of Amesbury is already developed or conserved, but a few large properties are left that are both undeveloped and unprotected. A few such parcels are in BioMap2 Core Habitat #3035, along the Powwow River near the New Hampshire border. These parcels should be targeted for conservation. In addition, the City should encourage protection of any remaining undeveloped parcels or portions of parcels along the Merrimack River, and, indeed, in and adjacent to any wetlands in the City. Given the increased precipitation and severity of storms predicted under most climate change scenarios, protecting the capacity of

- wetlands to absorb and retain stormwater is likely to be vital for Amesbury to be resilient in the future.
- Habitat Management: The Town should assess its recreation and conservation areas for the
  presence of invasive species, and encourage the owners of large conserved properties to do the
  same. If invasives are present in substantial numbers or areas, consider removing them. Large
  fields, such as those on the City's Woodsom Farm, can support breeding populations of rare and
  uncommon grassland birds. On such fields, the City should consider mowing schedules that
  allow breeding grassland birds to raise fledglings successfully. (Note that MassWildlife currently
  offers grants to fund habitat management activities).
- Regulation: The City should support and encourage its Conservation Commission to enforce the
  provisions of the Massachusetts Wetlands Act. While there is no local board or official charged
  with enforcing the provisions of the Massachusetts Endangered Species Act, the City could
  consider having the Conservation Commission and the Building Inspector notify development
  applicants of the presence/absence of Priority Habitat of Rare Species on the applicant's
  property.
- Education and Outreach: Developing community support for conservation of biodiversity is essential for successful efforts at land protection, habitat management, and regulation. Offering field trips on City and other conservation areas, writing articles on conservation for local websites and newspapers, and encouraging local students to conduct biological surveys and observations on conservation areas are a few of the low-cost ways to build support that will pay off in the future.

The City of Amesbury is to be commended for undertaking production of an Open Space and Recreation Plan. Please do not hesitate to call me at 508-389-6351 if you have any further questions.

Sincerely,

Lynn C. Harper

Habitat Protection Specialist

Massachusetts Natural Heritage & Endangered Species Program



## Amesbury

Produced in 2012

This report and associated map provide information about important sites for biodiversity conservation in your area.

This information is intended for conservation planning, and is <u>not</u> intended for use in state regulations.









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Sources of Additional Information

Amesbury Overview

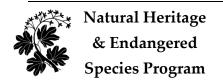
Core Habitat and Critical Natural Landscape Summaries

Elements of BioMap2 Cores

Core Habitat Summaries

Elements of *BioMap2* Critical Natural Landscapes

Critical Natural Landscape Summaries



Massachusetts Division of Fisheries and Wildlife 1 Rabbit Hill Road, Westbrorough, MA 01581 phone: 508-389-6360 fax: 508-389-7890

#### Introduction

The Massachusetts Department of Fish & Game, through the Division of Fisheries and Wildlife's Natural Heritage & Endangered Species Program (NHESP), and The Nature Conservancy's Massachusetts Program developed *BioMap2* to protect the state's biodiversity in the context of climate change.

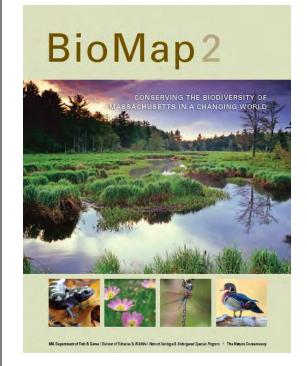
BioMap2 combines NHESP's 30 years of rigorously documented rare species and natural community data with spatial data identifying wildlife species and habitats that were the focus of the Division of Fisheries and Wildlife's 2005 State Wildlife Action Plan (SWAP). BioMap2 also integrates The Nature Conservancy's assessment of large, well-connected, and intact ecosystems and landscapes across the Commonwealth, incorporating concepts of ecosystem resilience to address anticipated climate change impacts.

Protection and stewardship of *BioMap2* Core Habitat and Critical Natural Landscape is essential to safeguard the diversity of species and their habitats, intact ecosystems, and resilient natural landscapes across Massachusetts.

#### What Does Status Mean?

The Division of Fisheries and Wildlife determines a status category for each rare species listed under the Massachusetts Endangered Species Act, M.G.L. c.131A, and its implementing regulations 321 CMR 10.00. Rare species are categorized as Endangered, Threatened or of Special Concern according to the following:

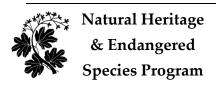
 Endangered species are in danger of extinction throughout all or a significant portion of their range or are in danger of extirpation from Massachusetts.



Get your copy of the *BioMap2* report! Download from <a href="www.mass.gov/nhesp">www.mass.gov/nhesp</a> or contact Natural Heritage at 508-389-6360 or <a href="matural.heritage@state.ma.us">natural.heritage@state.ma.us</a>.

- Threatened species are likely to become Endangered in Massachusetts in the foreseeable future throughout all or a significant portion of their range.
- Special Concern species have suffered a
  decline that could threaten the species if
  allowed to continue unchecked or occur in
  such small numbers or with such restricted
  distribution or specialized habitat
  requirements that they could easily become
  Threatened in Massachusetts.

In addition NHESP maintains an unofficial watch list of plants that are tracked due to potential conservation interest or concern, but are <u>not</u> regulated under the Massachusetts Endangered Species Act or other laws or regulations. Likewise, described natural communities are <u>not</u> regulated by any law or regulations, but they can help to identify



#### Massachusetts Division of Fisheries and Wildlife

ecologically important areas that are worthy of protection. The status of natural communities reflects the documented number and acreages of each community type in the state:

- Critically Imperiled communities typically have 5 or fewer documented sites or have very few remaining acres in the state.
- Imperiled communities typically have 6-20 sites or few remaining acres in the state.
- Vulnerable communities typically have 21-100 sites or limited acreage across the state.
- Secure communities typically have over 100 sites or abundant acreage across the state; however, excellent examples are identified as Core Habit to ensure continued protection.

In 2005 the Massachusetts Division of Fisheries and Wildlife completed a comprehensive State Wildlife Action Plan (SWAP) documenting the status of Massachusetts wildlife and providing recommendations to help guide wildlife conservation decision-making. SWAP includes all the wildlife species listed under the Massachusetts Endangered Species Act (MESA), as well as more than 80 species that need conservation attention but do not meet the requirements for inclusion under MESA. The SWAP document is organized around habitat types in need of conservation within the Commonwealth. While the original BioMap focused primarily on rare species protected under MESA, BioMap2 also addresses other Species of Conservation Concern, their habitats, and the ecosystems that support them to create a spatial representation of most of the elements of SWAP.

#### BioMap2: One Plan, Two Components

BioMap2 identifies two complementary spatial layers, Core Habitat and Critical Natural Landscape.

Core Habitat identifies key areas that are critical for the long-term persistence of rare species and other Species of Conservation Concern, as well as a wide diversity of natural communities and intact ecosystems across the Commonwealth. Protection of Core Habitats will contribute to the conservation of specific elements of biodiversity.

Critical Natural Landscape identifies large natural Landscape Blocks that are minimally impacted by development. If protected, these areas will provide habitat for wide-ranging native species, support intact ecological processes, maintain connectivity among habitats, and enhance ecological resilience to natural and anthropogenic disturbances in a rapidly changing world. Areas delineated as Critical Natural Landscape also include buffering upland around wetland, coastal, and aquatic Core Habitats to help ensure their long-term integrity.

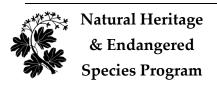
The long-term persistence of Massachusetts biological resources requires a determined commitment to land and water conservation. Protection and stewardship of both Critical Natural Landscapes and Core Habitats are needed to realize the biodiversity conservation vision of *BioMap2*.

#### Components of Core Habitat

Core Habitat identifies specific areas necessary to promote the long-term persistence of rare species, other Species of Conservation Concern, exemplary natural communities, and intact ecosystems.

#### Rare Species

There are 432 native plant and animal species listed as Endangered, Threatened or Special Concern under the Massachusetts Endangered Species Act (MESA) based on their rarity, population trends, and threats to survival. For



#### Massachusetts Division of Fisheries and Wildlife



Table 1. Species of Conservation Concern described in the State Wildlife Action Plan and/or included on the MESA List and for which habitat was mapped in *BioMap2*. Note that plants are not included in SWAP, and that marine species such as whales and sea turtles are not included in *BioMap2*.

Taxonomic	MESA-	Non-listed Species
Group	listed	of Conservation
	Species	Concern
Mammals	4	5
Birds	27	23
Reptiles	10	5
Amphibians	4	3
Fish	10	17
Invertebrates	102	9
Plants	256	0
Total	413	62

*BioMap2*, NHESP staff identified the highest quality habitat sites for each non-marine species based on size, condition, and landscape context.

#### Other Species of Conservation Concern

In addition to species on the MESA List described previously, the State Wildlife Action Plan (SWAP) identifies 257 wildlife species and 22 natural habitats most in need of conservation within the Commonwealth. *BioMap2* includes species-specific habitat areas for 45 of these species and habitat for 17 additional species which was mapped with other coarse-filter and fine-filter approaches.

#### **Priority Natural Communities**

Natural communities are assemblages of plant and animal species that share a common environment and occur together repeatedly on the landscape. *BioMap2* gives conservation priority to natural communities with limited distribution and to the best examples of more common types.

#### Vernal Pools

Vernal pools are small, seasonal wetlands that provide important wildlife habitat, especially for amphibians and invertebrate animals that use them to breed. *BioMap*2 identifies the top 5 percent most interconnected clusters of Potential Vernal Pools in the state.

#### **Forest Cores**

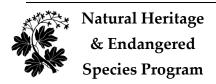
In *BioMap2*, Core Habitat includes the best examples of large, intact forests that are least impacted by roads and development, providing critical habitat for numerous woodland species. For example, the interior forest habitat defined by Forest Cores supports many bird species sensitive to the impacts of roads and development, such as the Black-throated Green Warbler, and helps maintain ecological processes found only in unfragmented forest patches.

#### **Wetland Cores**

BioMap2 used an assessment of Ecological Integrity to identify the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### **Aquatic Cores**

To delineate integrated and functional ecosystems for fish species and other aquatic



Massachusetts Division of Fisheries and Wildlife

Species of Conservation Concern, beyond the species and exemplary habitats described above, *BioMap2* identifies intact river corridors within which important physical and ecological processes of the river or stream occur.

#### Components of Critical Natural Landscape

Critical Natural Landscape identifies intact landscapes in Massachusetts that are better able to support ecological processes and disturbance regimes, and a wide array of species and habitats over long time frames.

#### Landscape Blocks

*BioMap2* identifies the most intact large areas of predominately natural vegetation, consisting of contiguous forests, wetlands, rivers, lakes, and ponds, as well as coastal habitats such as barrier beaches and salt marshes.

### Upland Buffers of Wetland and Aquatic Cores

A variety of analyses were used to identify protective upland buffers around wetlands and rivers.

## Upland Habitat to Support Coastal Adaptation

BioMap2 identifies undeveloped lands adjacent to and up to one and a half meters above existing salt marshes as Critical Natural Landscapes with high potential to support inland migration of salt marsh and other coastal habitats over the coming century.

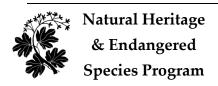
The conservation areas identified by *BioMap2* are based on breadth and depth of data, scientific expertise, and understanding of Massachusetts' biodiversity. The numerous sources of information and analyses used to

#### **Legal Protection of Biodiversity**

BioMap2 presents a powerful vision of what Massachusetts would look like with full protection of the land most important for supporting the Commonwealth's biodiversity. While BioMap2 is a planning tool with no regulatory function, all state-listed species enjoy legal protection under the Massachusetts Endangered Species Act (M.G.L. c.131A) and its implementing regulations (321 CMR 10.00). Wetland habitat of state-listed wildlife is also protected under the Wetlands Protection Act Regulations (310 CMR 10.00). The Natural Heritage Atlas contains maps of Priority Habitats and Estimated Habitats, which are used, respectively, for regulation under the Massachusetts Endangered Species Act and the Wetlands Protection Act. For more information on rare species regulations, and to view Priority and Estimated Habitat maps, please see the Regulatory Review page at http://www.mass.gov/eea/agencies/dfg/dfw/natur al-heritage/regulatory-review/.

BioMap2 is a conservation planning tool that does not, in any way, supplant the Estimated and Priority Habitat Maps which have regulatory significance. Unless and until the BioMap2 vision is fully realized, we must continue to protect our most imperiled species and their habitats.

create Core Habitat and Critical Natural
Landscape are complementary, and outline a
comprehensive conservation vision for
Massachusetts, from rare species to intact
landscapes. In total, these robust analyses
define a suite of priority lands and waters that, if
permanently protected, will support
Massachusetts' natural systems for generations
to come.



Massachusetts Division of Fisheries and Wildlife

#### **Understanding Core Habitat Summaries**

Following the Town Overview, there is a descriptive summary of each Core Habitat and Critical Natural Landscape that occurs in your city or town. These summaries highlight some of the outstanding characteristics of each Core Habitat and Critical Natural Landscape, and will help you learn more about your city or town's biodiversity. You can find out more information about many of these species and natural communities by looking at specific fact sheets at <a href="https://www.mass.gov/nhesp">www.mass.gov/nhesp</a>.

#### **Additional Information**

For copies of the full *BioMap2* report, the Technical Report, and an <u>interactive mapping tool</u>, visit the *BioMap2* website via the Land Protection and Planning tab at <u>www.mass.gov/nhesp</u>. If you have any questions about this report, or if you need help protecting land for biodiversity in your community, the Natural Heritage & Endangered Species Program staff looks forward to working with you.

Contact the Natural Heritage & Endangered Species Program

By phone 508-389-6360 By fax 508-389-7890

By email natural.heritage@state.ma.us
By Mail 100 Hartwell Street, Suite 230

West Boylston, MA 01583

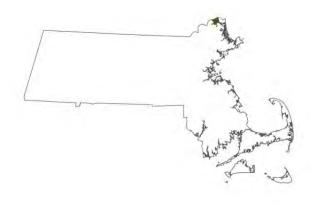
The GIS datalayers of *BioMap2* are available for download from MassGIS at <a href="https://www.mass.gov/mgis">www.mass.gov/mgis</a>.



phone: 508-389-6360 fax: 508-389-7890

#### **Town Overview**

Amesbury lies within the Southern New England Coastal Plains and Hills Ecoregion, an area comprised of plains with a few low hills. Forests are mainly central hardwoods with some transition hardwoods and some elm-ash-red maple and red and white pine. Many major rivers drain this area.



#### Amesbury at a Glance

- Total Area: 8,784 acres (13.7 square miles)
- Human Population in 2010: 16,283
- Open space protected in perpetuity: 493 acres, or 5.6% percent of total area\*
- BioMap2 Core Habitat: 938 acres
- *BioMap2* Core Habitat Protected: 60 acres or 6.4%
- BioMap2 Critical Natural Landscape: 1,115 acres
- *BioMap2* Critical Natural Landscape Protected: 101 acres or 9.0%.

#### **BioMap2** Components

#### **Core Habitats**

- 1 Exemplary or Priority Natural Community
- 2 Wetland Cores
- 3Aquatic Cores
- 4 Species of Conservation Concern Cores\*\*
- o 1 bird, 2 amphibians, 2 fishes, 1 mussel, 1 plant

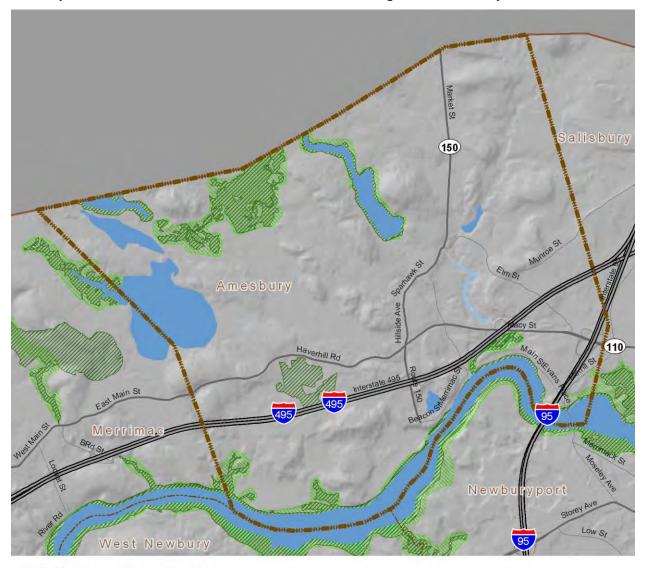
#### Critical Natural Landscape

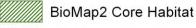
- 2 Wetland Core Buffers
- 3 Aquatic Core Buffers
- 1 Coastal Adaptation Area
- \* Calculated using MassGIS data layer "Protected and Recreational Open Space—March, 2012".
- \*\* See next pages for complete list of species, natural communities and other biodiversity elements.





#### BioMap2 Core Habitat and Critical Natural Landscape in Amesbury





BioMap2 Critical Natural Landscape

1 Mile





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## Species of Conservation Concern, Priority and Exemplary Natural Communities, and Other Elements of Biodiversity in Amesbury

#### Mussels

Eastern Pondmussel, (Ligumia nasuta), SC

#### **Amphibians**

<u>Blue-spotted Salamander</u>, (*Ambystoma laterale*), SC <u>Four-toed Salamander</u>, (*Hemidactylium scutatum*), Non-listed SWAP

#### **Fish**

<u>Shortnose Sturgeon</u>, (Acipenser brevirostrum), E <u>Atlantic Sturgeon</u>, (Acipenser oxyrinchus), E

#### **Birds**

Bald Eagle, (Haliaeetus leucocephalus), T

#### **Plants**

Vasey's Pondweed, (Potamogeton vaseyi), E

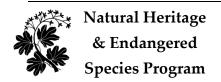
#### **Priority Natural Communities**

Estuarine Intertidal: Salt Marsh, S3

#### Other BioMap2 Components

Aquatic Core
Wetland Core
Aquatic Core Buffer
Wetland Core Buffer
Coastal Adaptation Area

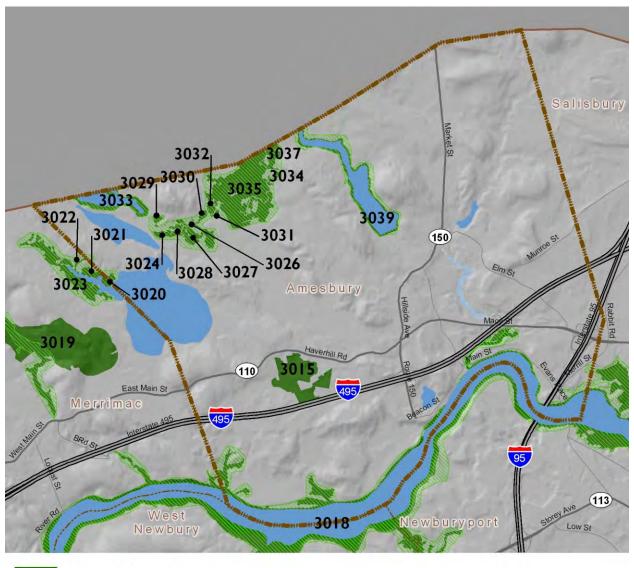
- E = Endangered
- T = Threatened
- SC = Special Concern
- S1 = Critically Imperiled communities, typically 5 or fewer documented sites or very few remaining acres in the state.
- S2 = Imperiled communities, typically 6-20 sites or few remaining acres in the state.
- S3 = Vulnerable communities, typically have 21-100 sites or limited acreage across the state.

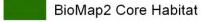


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#### BioMap2 Core Habitat in Amesbury

Core IDs correspond with the following element lists and summaries.







1 Mile





#### Elements of BioMap2 Cores

This section lists all elements of *BioMap2* Cores that fall *entirely or partially* within Amesbury. The elements listed here may not occur within the bounds of Amesbury.

#### **Core 3015**

Blue-spotted Salamander Ambystoma laterale SC

Four-toed Salamander Hemidactylium scutatum Non-listed SWAP

#### **Core 3018A**

Aquatic Core

Wetland Core

**Priority & Exemplary Natural Communities** 

Estuarine intertidal: freshwater tidal marsh

Estuarine intertidal: salt marsh

S3

Small-river floodplain forest

S2

Species of Conservation Concern

American Waterwort Elatine americana E
Eaton's Beggar-ticks Bidens eatonii E
Engelmann's Umbrella-sedge Cyperus engelmannii T
Estuary Arrowhead Sagittaria montevidensis ssp. spongiosa

Parker's Pipewort Eriocaulon parkeri E
Seabeach Dock Rumex pallidus T
Vasey's Pondweed Potamogeton vaseyi E
New England Siltsnail Floridobia winkleyi SC

Arrow Clubtail Stylurus spiniceps Non-listed SWAP

Cobra Clubtail Gomphus vastus SC Coppery Emerald Somatochlora georgiana Ε Riverine Clubtail Stylurus amnicola Ε Umber Shadowdragon Neurocordulia obsoleta SC Atlantic Sturgeon Acipenser oxyrinchus Ε Shortnose Sturgeon Acipenser brevirostrum E Τ Bald Eagle Haliaeetus leucocephalus

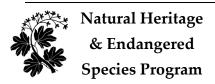
#### **Core 3018B**

Aquatic Core

Wetland Core

Priority & Exemplary Natural Communities

Black Oak - Scarlet Oak Forest/Woodland S3S4
Coastal Forest/Woodland S3
Coastal Interdunal Marsh/Swale S1



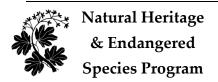
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E

Estuarine intertidal: brackish tidal ma	rsh	S1
Estuarine intertidal: salt marsh		S3
Marine subtidal: flats		S2
Maritime beach strand community		S3
Maritime dune community		S2
Oak - hickory forest		S4
Species of Conservation Concern		
Estuary Arrowhead	Sagittaria montevidensis ssp. spongi	osa E
Hemlock Parsley	Conioselinum chinense	SC
Long's Bulrush	Scirpus longii	T
Seabeach Dock	Rumex pallidus	T
Seabeach Needlegrass	Aristida tuberculosa	T
Silverling	Paronychia argyrocoma	E
Coastal Marsh Snail	Littoridinops tenuipes	SC
New England Siltsnail	Floridobia winkleyi	SC
Eastern Spadefoot	Scaphiopus holbrookii	T
Northern Leopard Frog	Rana pipiens	Non-listed SWAP
Atlantic Sturgeon	Acipenser oxyrinchus	E
Bridle Shiner	Notropis bifrenatus	SC
Shortnose Sturgeon	Acipenser brevirostrum	E
American Bittern	Botaurus lentiginosus	E
Bald Eagle	Haliaeetus leucocephalus	T
Barn Owl	Tyto alba	SC
Common Moorhen	Gallinula chloropus	SC
Common Tern	Sterna hirundo	SC
Eastern Whip-poor-will	Caprimulgus vociferus	SC
Grasshopper Sparrow	Ammodramus savannarum	T
King Rail	Rallus elegans	T
Least Bittern	Ixobrychus exilis	E
Least Tern	Sternula antillarum	SC
Northern Harrier	Circus cyaneus	T
Piping Plover	Charadrius melodus	T
Saltmarsh Sharp-tailed Sparrow	Ammodramus caudactus	Non-listed SWAP
Sanderling	Calidris alba	Non-listed SWAP
Seaside Sparrow	Ammodramus maritimus	Non-listed SWAP
Sedge Wren	Cistothorus platensis	Е
Sharp-shinned Hawk	Accipiter striatus	SC
Short-billed Dowitcher	Limnodromus griseus	Non-listed SWAP
Sora	Porzana carolina	Non-listed SWAP
Upland Sandpiper	Bartramia longicauda	E
1 1 1	0	

#### Cores 3020/3021/3022/3024/3026/3027/3028/3029/3030/3031/3032/3034/3035/3037

Wetland Core



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Aquatic Core

Species of Conservation Concern

Vasey's Pondweed Potamogeton vaseyi E

Core 3039

Aquatic Core

Species of Conservation Concern

Eastern Pondmussel Ligumia nasuta SC

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#### Core Habitat Summaries

#### **Core 3015**

An 87-acre Core Habitat featuring Species of Conservation Concern.

Adult and juvenile Blue-spotted Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Four-toed Salamanders live in forested habitats surrounding swamps, bogs, marshes, vernal pools, and other fish-free waters that are used as breeding sites. Most breeding sites in MA are characterized by pit-and-mound topography with significant sphagnum-moss cover. Eggs are typically laid in mounds or patches of sphagnum moss that overhang water. Upon hatching, the larvae wriggle through the moss and drop into the water, where they will develop for several weeks prior to metamorphosis.

#### **Core 3018A**

A 6,298-acre section of a larger 35,194-acre Core Habitat featuring Wetland Core, Aquatic Core, Priority Natural Communities, and Species of Conservation Concern.

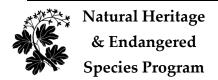
The mainstem of the Merrimack River, as it winds its way from the New Hampshire border in Tyngsborough to the tidal waters of its mouth, supports 19 rare and uncommon species. Bald Eagles have recently returned to nest along the river, while the federally Endangered Atlantic and Shortnose Sturgeons cruise the river's waters in small numbers. In West Newbury, a Freshwater Tidal Marsh - a very uncommon type of natural community - hosts six Endangered and Threatened plants, including the globally rare Eaton's Beggar-ticks and Parker's Pipewort.

The Freshwater Tidal Marsh community occurs along coastal rivers, upstream of brackish tidal marsh. Here the marshes are flooded by tidal action twice a day, but with fresh water. These structurally diverse marshes are globally rare. This example of Freshwater Tidal Marsh is relatively large and in good condition. It is the largest community of this type north of Boston.

The Salt Marsh community type is a graminoid-dominated, tidally flooded coastal community with several vegetative zones. Salt Marshes form in areas subject to oceanic tides, but sheltered from wave energy. At over 16,000 acres this example of Salt Marsh is the largest in New England. It is generally in good condition and largely under conservation ownership.

Small-River Floodplain Forests are silver maple/green ash forests occurring on alluvial soils of small rivers and streams. They occur on small tributaries of the Connecticut and Nashua Rivers and along some small rivers of eastern Massachusetts. This example of Small-River Floodplain Forest, though quite small, is an unusual variant of the community dominated by Green Ash. It is in relatively good condition and is well buffered by the surrounding landscape.

Wetlands Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are



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most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

#### **Core 3018B**

A 28,895-acre section of a larger 35,194-acre Core Habitat featuring Wetland Core, Aquatic Core, Priority Natural Communities, and Species of Conservation Concern.

All along the North Shore, from the mouth of the Merrimack River to the north shore of Cape Ann, stretches the Great Marsh, an extraordinary expanse of salt marsh. This marsh and its attendant barrier islands, such as Plum Island, support 25 MESA-listed rare species of birds, fish, snails, plants, and even the Eastern Spadefoot toad. The mouth of the Merrimack is home to a few federally Endangered Atlantic and Shortnose Sturgeons, as well as nesting and over-wintering Bald Eagles. On Plum Island, the North Pool, a freshwater impoundment in the salt marsh, is considered one of the most productive marsh bird sites in southern New England, supporting the entire suite of MESA-listed rare marsh birds, along with significant populations of Sora and Marsh Wren. A little to the south, the long barrier beach at Crane Beach is one of Massachusetts' major nesting sites for the federally Threatened Piping Plover, as well as strong numbers of Least Terns.

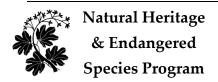
Black Oak-Scarlet Oak Forest is a fairly open oak/heath community maintained by regular fire. Often occurring on dry slopes, this community grades into Mixed Oak and Pine-Oak Forests. The subcanopy is sparse, and the shrub layer dense. This young occurrence of Black Oak - Scarlet Oak Woodland is on two upland islands in the Merrimack River with few exotics and good natural diversity.

Coastal Forests are mixed deciduous communities, and are often shorter than forests further inland, but taller than maritime forests. They may have dense shrubs and vines. This community is found in sheltered areas along the coast. These patchy occurrences of Coastal Forest are on marsh island uplands on conservation land succeeding from past agricultural use.

The Coastal Interdunal Marsh/Swale community is a graminoid- or shrub-dominated coastal community that occurs in shallow depressions between sand dunes. They occur as part of a dune system, and the best examples are complexes of numerous swales. This example of the Coastal/Interdunal Marsh/Swale community is in good condition, and is well buffered within a naturally vegetated landscape.

The Brackish Tidal Marsh community is often found in stretches of coastal rivers where salt and fresh water mix, and consists of mixed herbaceous vegetation that is flooded by daily tides. This Core has three examples of Brackish Tidal Marsh including the largest in Massachusetts, which is well buffered in the landscape, although exotic invasive species are present.

The Salt Marsh community type is a graminoid-dominated, tidally flooded coastal community with several vegetative zones. Salt Marshes form in areas subject to oceanic tides, but sheltered from wave energy. At over 16,000 acres this example of Salt Marsh is the largest in New England. It is generally in good condition and largely under conservation ownership.



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Marine Subtidal Flats, often called eelgrass beds, are offshore communities dominated by eelgrass (*Zostera marina*) that occur in shallow water. They provide important habitat for juvenile fish and invertebrates, and feeding grounds for shorebirds. This example of Marine Subtidal Flats is extremely sparsely vegetated but has a rich diversity of invertebrate fauna that provide forage for many species of birds.

Maritime Beach Strand communities are sparsely vegetated, narrow, wrack-strewn areas between the line of high tide and the foredunes. They are usually part of barrier beach systems and are found seaward of any dunes, but above daily high tides. This important example of Maritime Beach Strand extends over 2 miles. It is in very good condition despite heavy recreational use in some areas, provides important shorebird nesting habitat, and is well buffered by other coastal natural communities.

The Maritime Dune Community consists of patches of herbaceous plants interspersed with areas of bare sand and shrubs. It occurs on windswept dunes within the salt spray zone, and often grades into shrubland or woodlands on more sheltered back dunes. This Core has two examples of Maritime Dunes, one covering 600 windswept acres and the other 900 acres. The larger is poorly buffered from development and is heavily disturbed by human impacts and invasive plant species. At the smaller site, there are over a dozen Coastal Interdunal Marsh/Swales of various sizes and composition, another type of uncommon natural community.

Oak-Hickory Forests are dominated by a variety of oak species, with hickories present in lower densities. They generally occupy upper slopes or ridgetops. A subcanopy commonly present includes hop hornbeam, flowering dogwood, and shadbush. This Oak - Hickory Forest occurs as many small pockets in the upland edges around a large salt marsh. The salt marsh, brooks, other wetlands, and roads separate the patches. Old mining depressions occur throughout.

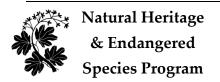
Wetlands Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

#### **Core 3020**

A 7-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.



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A 7-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3022

A 3-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3024

A 5-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### **Core 3026**

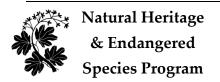
A 1-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3027

A 21-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.



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A 7-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3029

A 3-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3030

A 5-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3031

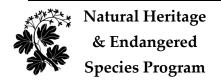
A 2-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3032

A 4-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.



A 59-acre Core Habitat featuring Aquatic Core and a Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Vasey's Pondweed is a rare aquatic plant of shallow, slow, open water. This species has floating leaves present when in flower or fruit.

#### Core 3034

A 3-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### **Core 3035**

A 157-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### **Core 3037**

A 13-acre Core Habitat featuring Wetland Core.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

#### Core 3039

A 134-acre Core Habitat featuring Aquatic Core and a Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

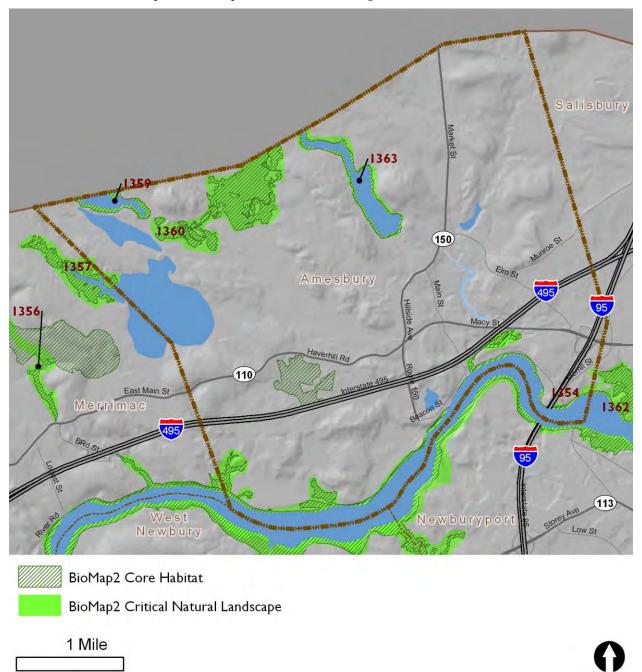
Eastern Pondmussels, large freshwater mussels, are most abundant in southeastern Massachusetts. They inhabit streams, rivers, and small to large lakes and ponds; they show no preference for substrate, depth, or flow conditions. As sedentary filter feeders they are vulnerable to the alterations of water bodies.

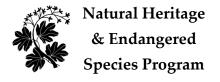


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#### BioMap2 Critical Natural Landscape in Amesbury

Critical Natural Landscape IDs correspond with the following element lists and summaries.





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#### Elements of *BioMap2* Critical Natural Landscapes

This section lists all elements of BioMap2 Critical Natural Landscapes that fall entirely or partially within Amesbury. The elements listed here may not occur within the bounds of Amesbury.

**CNL 1354** 

Coastal Adaptation Area

**CNL 1357** 

Wetland Core Buffer

CNL 1359

Aquatic Core Buffer

**CNL 1360** 

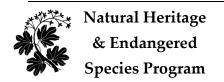
Wetland Core Buffer

**CNL 1362** 

Aquatic Core Buffer Coastal Adaptation Area Landscape Block Tern Foraging Area

**CNL 1363** 

Aquatic Core Buffer



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#### Critical Natural Landscape Summaries

#### **CNL 1354**

A 1-acre Critical Natural Landscape featuring Coastal Adaptation Area.

The coastal habitats of Massachusetts are particularly vulnerable to potential sea-level rise in the next century, which many estimates suggest is likely to exceed one meter. Therefore, in addition to prioritizing current coastal habitats, the creators of *BioMap2* examined the landward side of salt marshes to determine where these habitats might move to as sea levels rise. Undeveloped lands adjacent to and up to one and a half meters above existing salt marshes were identified, and included as Critical Natural Landscapes with high potential to support inland migration of salt marsh and other coastal habitats over the coming century.

#### **CNL 1357**

A 161-acre Critical Natural Landscape featuring Wetland Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

#### **CNL 1359**

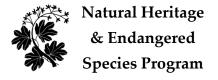
A 59-acre Critical Natural Landscape featuring Aquatic Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

#### **CNL 1360**

A 353-acre Critical Natural Landscape featuring Wetland Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.



Massachusetts Division of Fisheries and Wildlife

#### **CNL 1362**

A 50,627-acre Critical Natural Landscape featuring Aquatic Core Buffer, Landscape Block and Coastal Adaptation Area.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

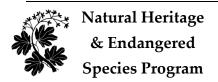
Landscape Blocks, the primary component of Critical Natural Landscapes, are large areas of intact predominately natural vegetation, consisting of contiguous forests, wetlands, rivers, lakes, and ponds, as well as coastal habitats such as barrier beaches and salt marshes. Pastures and power-line rights-of-way, which are less intensively altered than most developed areas, were also included since they provide habitat and connectivity for many species. Collectively, these natural cover types total 3.6 million acres across the state. An Ecological Integrity assessment was used to identify the most intact and least fragmented areas. These large Landscape Blocks are most likely to maintain dynamic ecological processes such as buffering, connectivity, natural disturbance, and hydrological regimes, all of which help to support wide-ranging wildlife species and many other elements of biodiversity.

In order to identify critical Landscape Blocks in each ecoregion, different Ecological Integrity thresholds were used to select the largest intact landscape patches in each ecoregion while avoiding altered habitat as much as possible. This ecoregional representation accomplishes a key goal of *BioMap2* to protect the ecological stages that support a broad suite of biodiversity in the context of climate change. Blocks were defined by major roads, and minimum size thresholds differed among ecoregions to ensure that *BioMap2* includes the best of the best in each ecoregion.

This 8,989-acre Landscape Block is the fourth largest of 62 Blocks in the ecoregion. Unlike Landscape Blocks in much of the state that are dominated by upland forests, this coastal Landscape Block is dominated by unique and important salt marsh, barrier beach, and estuary habitats.

The coastal habitats of Massachusetts are particularly vulnerable to potential sea-level rise in the next century, which many estimates suggest is likely to exceed one meter. Therefore, in addition to prioritizing current coastal habitats, the creators of *BioMap2* examined the landward side of salt marshes to determine where these habitats might move to as sea levels rise. Undeveloped lands adjacent to and up to one and a half meters above existing salt marshes were identified, and included as Critical Natural Landscapes with high potential to support inland migration of salt marsh and other coastal habitats over the coming century.

Terns range widely from their breeding colonies to forage. While the breeding and staging areas for Roseate, Arctic, Common, and Least Terns were included in the Species of Conservation Concern Core Habitat for *BioMap2*, tern foraging areas were included in *BioMap2* as part of Critical Natural Landscape. The extent of foraging habitat for Arctic, Common, and Roseate Terns depends on the size of the breeding



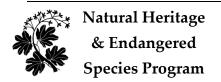
Massachusetts Division of Fisheries and Wildlife

colony. For Least Tern, all shallow marine and estuarine waters within 2 miles of recent colony sites and up to 1 mile offshore were mapped as foraging habitat.

#### **CNL 1363**

A 170-acre Critical Natural Landscape featuring Aquatic Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.



Massachusetts Division of Fisheries and Wildlife 1 Rabbit Hill Road, Westbrorough, MA 01581 phone: 508-389-6360 fax: 508-389-7890

## Help Save Endangered Wildlife!

Please contribute on your Massachusetts income tax form or directly to the



# Natural Heritage & Endangered Species Fund

To learn more about the Natural Heritage & Endangered Species Program and the Commonwealth's rare species, visit our web site at <a href="https://www.mass.gov/nhesp">www.mass.gov/nhesp</a>

### Appendix B: Municipal Vulnerability Preparedness Community Resilience Building Workshop Risk Matrix

							www.CommunityRo	ocilion	coRus	ilding	- Or
1- Extreme Precinitation	Iding Risk Matrix  rity Hazards (tornado, floo  2- Severe Weather - Snow, Ice, Wind	ds, w		4- Extr	ought, sea level rise, bread rise, bread reme/Fluctuating Cemperature	heat wave, etc.) Drought		Top Priority Hazard #	Infrastructural	Societal	Environmental
Vulnerabilities (V) and/or Strengths (	S)	V / S	Location		Owner		Solutions	#		735	(A)
Woodsom Fa	arm	S/V	Woodsom Farm		Amesbury		Protect flood storage value.	1,2,3,4, 5		Х	Х
Lake Gardner	Dam	V/S	Lake Garnder		Amesbury	Asse	ess for earthquake vulnerability.	1,2,3,4	Х		
NGRID Substation on Powwow Rive	er, especially retaining wall	v	Downtown Powwow Riv	ver	National Grid		structural and Nature Based Solutions, work with NGRID to plan ical facilities management process, relocate substation.	n 1,2,3,4	х	X	Х

National Grid

MassDOT

Varying

City

Amesbury DPW

Amesbury

Electric Utility redundancy/availability/supply

Rt 95 and other roads

**Emergency routes** 

Wastewater facility

Culvert and stormwater drainage system/infrastructure

Pleasant Valley Road/utilities/flooding

24 South Hampton Road

V/S

V/S

Citywide

Rte 110, I-95, I-495, Merrill St., Elm St.

Citywide

Citywide, includes Arch Brook Culvert and R St

Bridge

Pleasant Valley Road

24 South Hampton Road

Increase communication/cooperation to increase reliability, decentralize power sources, locate

utilities underground, switch to alternative sources of energy.

Work with MassDOT & abutting communities, address road flooding, improve culvert capacity.

Develop a coordinated evacuation plan.

Assess opportunity to discharge to location other than Merrimack River (where currently

discharges), conduct outreach and education to raise awareness.

Promote ecological restoration. See 24 South Hampton Road notes. Bailey's Pond hydrologic study,

culvert replacement and stream restoration. Conduct town-wide stormwater and culvert

assessment. Look for opportunities to use LID. Prioritize co-benefits and Nature Based Solutions.

Conduct hydrologic study and project to replace undersized culverts to meet stream crossing standards. Conduct coastal storm surge study to assess medium to long-term outlook for

embankment, road and property viability over the coming decades, develop Nature Based

responses/solutions. Address Merrimack River embankment erosion with living shorelines solutions.

South Hampton Road hydrologic study, culvert replacement and stream restoration, including

invasive species removal, near school.

Hight, Medium or Low priority for action over the Short or

S/L/O

0

0

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0

0/S

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H/M/L

M

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Н

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5

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1,2,3,4,

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X

X

X

X

X

X

X

X

X

X



www.CommunityResilienceBuilding.org

**Top Priority Hazards** (tornado, floods, wildfire, hurricanes, earthquake, drought, sea level rise, heat wave, etc.)

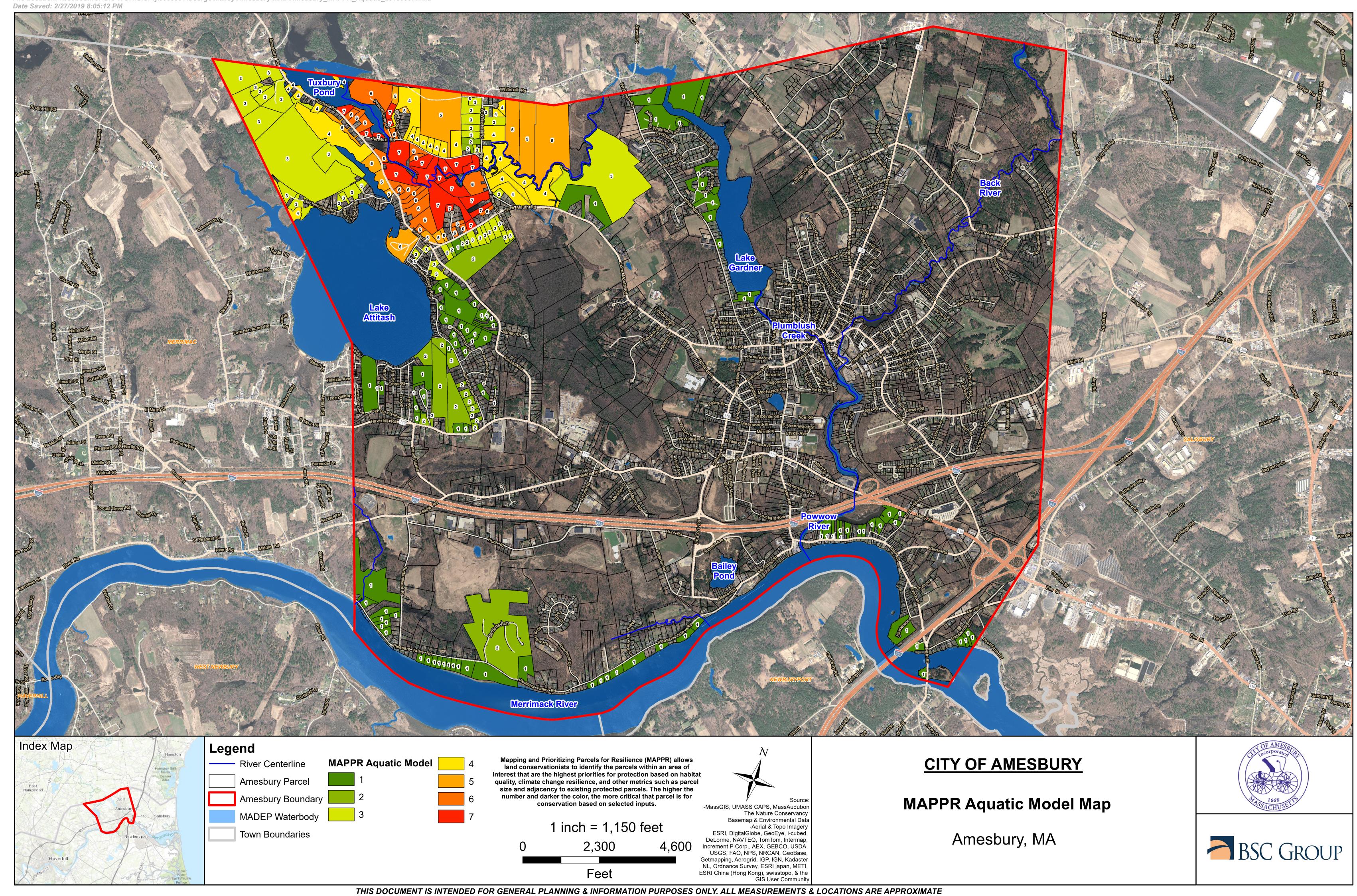
10p111	of ity mazarus (tornauo, noo	us, whalle, harricanes, earthy	uake, urbugiit, sea ievei rise, i	ical wave, etc.j
1- Extreme Precipitation	2- Severe Weather - Snow,		4- Extreme/Fluctuating	
(Freshwater Inland	Ice, Wind	3- Coastal Storm Surge	Temperature	Drought
Flooding)	ice, wind		remperature	

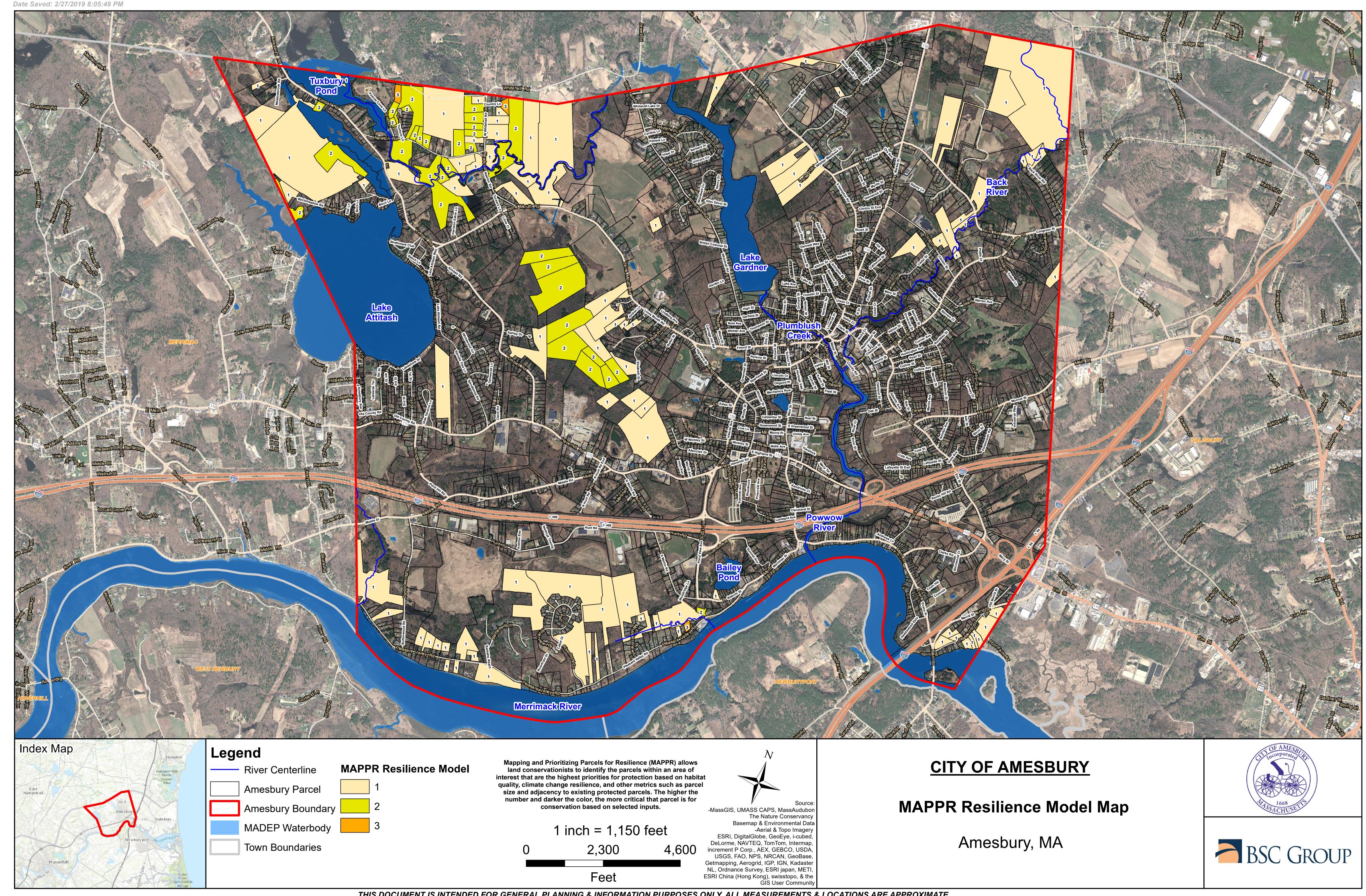
Putter of the property of the

					Tc	ㅂ	03	ш	Long term	and <b>O</b> ngoing
Vulnerabilities (V) and/or Strengths (S)	V / S	Location	Owner	Solutions	#		332	(A)	H/M/L	S/L/O
Downtown Center/Main Street Bridge/Upper Millyard/Commercial Areas	V	Downtown & commercial areas	Amesbury	Conduct flooding and stormwater management study and then replace undersized catch basins, install raingarden, tree wells, etc. Install stormwater sidewalks, develop incentives for businesses to install green roofs and walls. Conduct study to restore and stabilize Powwow River embankments, including removal of asbestos-lined pipe that runs over and along the Powwow River. Assess opportunities to reduce impervious cover and increase tree canopy at parking lot adjacent to Upper Millyard.	1,2,3,4	X	X	Х	Н	0
Shelters/Assembly Areas	v	Elementary, High, Innovation High, Middle, Cashman Elementary	Amesbury	Identify/establish backup energy generation, coordinate with NGRID, conduct community engagement & outreach effort, establish accessibility programs.	1,2,4	X	Х		Н	S
Vulnerable populations	V	Varying	N/A	Identify/ improve understanding of socially vulnerable populations, improve communication systems, improve access to information, conduct outreach, connect vulnerable to shelters/cooling centers during emergencies.	1,2,3,4, 5		Х		Н	0
Community outreach/Community based support service coordination	V/S	N/A	N/A	Community outreach about climate resiliency and emergency response to city leadership, citizens and stakeholders. Plan and coordinate with regional partners, as Amesbury receives water from adjacent and upstream towns in both Massachusetts and New Hampshire. Look for opportunities to coordinate flood control on regional level. Conduct outreach/education at the local level.  Consider tax breaks. Leverage state and local resources to expand capacity.	1,2,3,4		Х		Н	S
Disaster planning, evacuation plans, Hazard Mitigation Plan, Open Space Plan, Master Plan	V	Undetermined	Amesbury	Disaster planning, evacuation plans, Hazard Mitigation Plan, Open Space Plan, Master Plan	1,2,3,4		Х	X	Н	S
Evaluate regulatory approaches. Conduct Zoning, Ordinances, Regulatory updates to incorporate climate resiliency.	V/S	N/A	Amesbury	Conduct a regulatory review and do community outreach and education. Integrate climate considerations into regulatory changes (Zoning, and other Ordinances, Open Space planning)  Develop a floodplain overlay district. Renew and permanently protect Open Space. Find room for flood mitigation. Include Nature Based Solutions, LID, Green Infrastructure, Flood zone regulation.  Update planning and develop new policies for water supply (public and private) and for sewer, favoring use of town water and sewer.	1,2,3,4	X	Х	X	Н	0
Golden Triangle area	V/S	Vicinity of Elm Street, Route 110, Routes 95 and 495	Various	Conduct flood storage/hydrologic study to facilitate culvert replacement so that culverts meet stream crossing standards. Undersized culverts are located under Rt 110 and under Elm Street. Develop plans for streambank and ecological restoration: invasive species removal, potential increase in flood storage capacity, stabilize streambanks.	1,2,3,4, 5	, X	Х	X	Н	0
Back River and Clark's Pond	V	Back River and Clark's Pond	Various	Develop bank and river corridor management plans and maintenance program. Deepen pond/remove silt from Clark's Pond, improve gate to allow adjustments, continue invasive species control, consider a fish ladder.	1,2,3,4	X		X	М	0

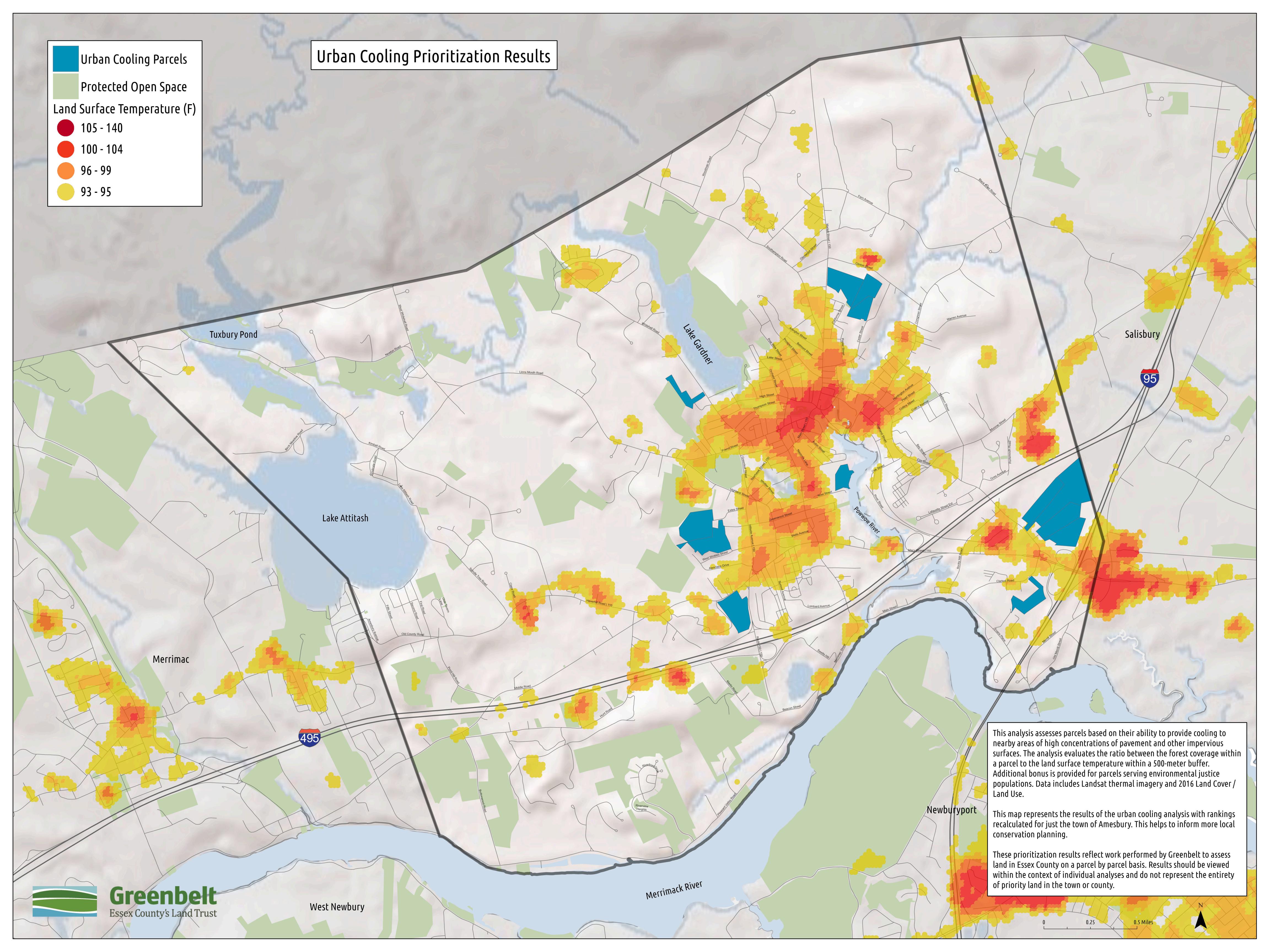
Community Resilience Building Risk Matrix	2	<b>22</b> 🚱			www.CommunityRe	esilien	ceBu	ilding	g.org		
	_	•				<b>±</b>					
<b>Top Priority Hazards</b> (tornado, floo	ds, w	ildfire, hurricanes, earthquake,	drought, sea level rise, l	heat wave, etc.)	1	Top Priority Hazard #	_		=	1	
1- Extreme Precipitation (Freshwater Inland) 2- Severe Weather - Snow,	3	- Coastal Storm Surge 4- I	Extreme/Fluctuating	Drought		rity Ha	ıctura	_	mental		
Flooding)  Ice, Wind	TO THE TOTAL PROPERTY OF THE TAXABLE PROPERTY OF TAXABLE PROPERTY		Temperature	Drought		o Prio	nfrastru	Societal	Environm	Hight, Mediu	m or Low priorit
	1						Inf	Sc	- E		ver the <b>S</b> hort or n and <b>O</b> ngoing
Vulnerabilities (V) and/or Strengths (S)	V / S	Location	Owner		Solutions	#		333	(A)	H/M/L	S/L/0
Streams, ponds, wetlands, rivers	V/S	Citywide	Public and private	Conduct study to	restore and expand flood storage capacity.	1,2,3,4,			Х	М	0
Lakes Attitash and Gardner	V/S	Lakes Attitash and Gardner	N/A	Conduct community engagement we	ty issues (invasive species, runoff, fertilizer, algal blooms). orkshops, engage the private sector. Assess impact of power boats on water quality.	1,2,4,5	X	X	Х	H/M/L	0/S
Open Space	S	Numerous	Amesbury, AIA	Pern	nanently protect open space.	1,2,3,4,		Х	Х	М	0
Tuxbury Pond	S/V	Powwow River watershed	Amesbury, MA	Repair cracks in old	flood control structure or replace structure.	1,2,4,5	X			М	S
Downtown Tree Planting/Re-planting	V	Downtown	Amesbury, MA	Re-plant trees to	enhance shade and safety, use tree wells.	1,2,3,4, 5	Х	Х	х	Н	S

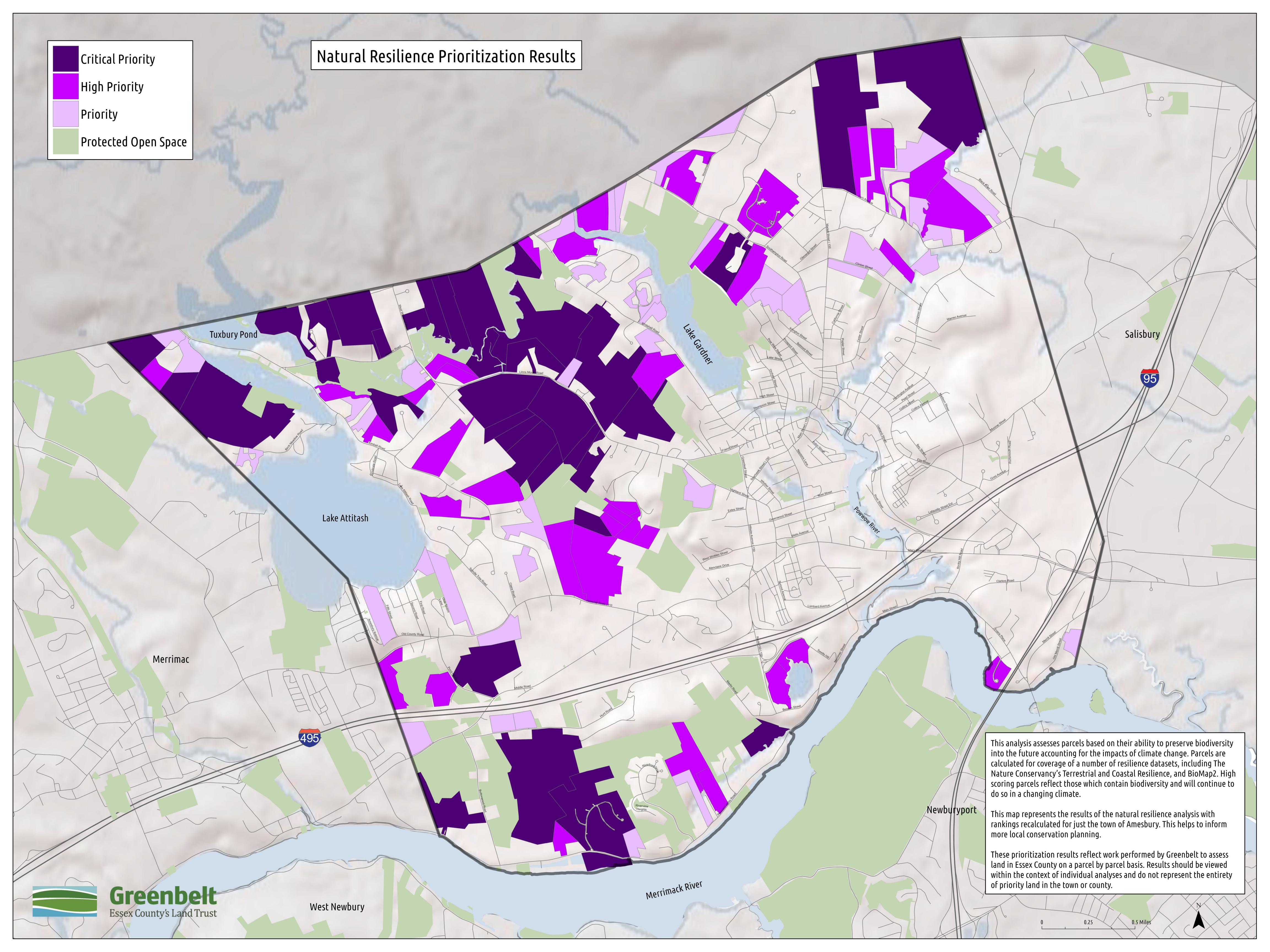
## Appendix C: Select Amesbury MVP Natural Resources Infrastructure Assessment (NRIA) Maps

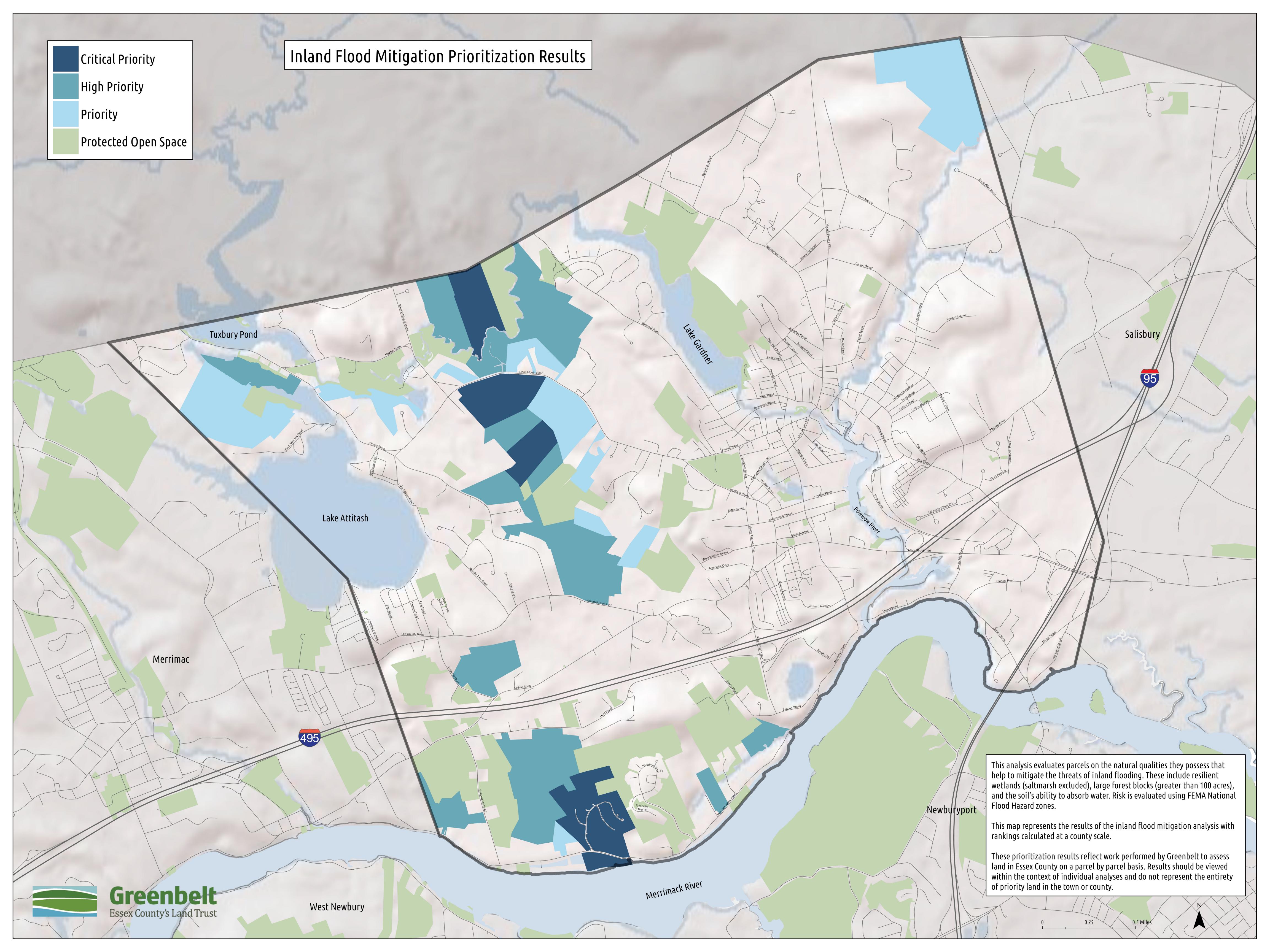


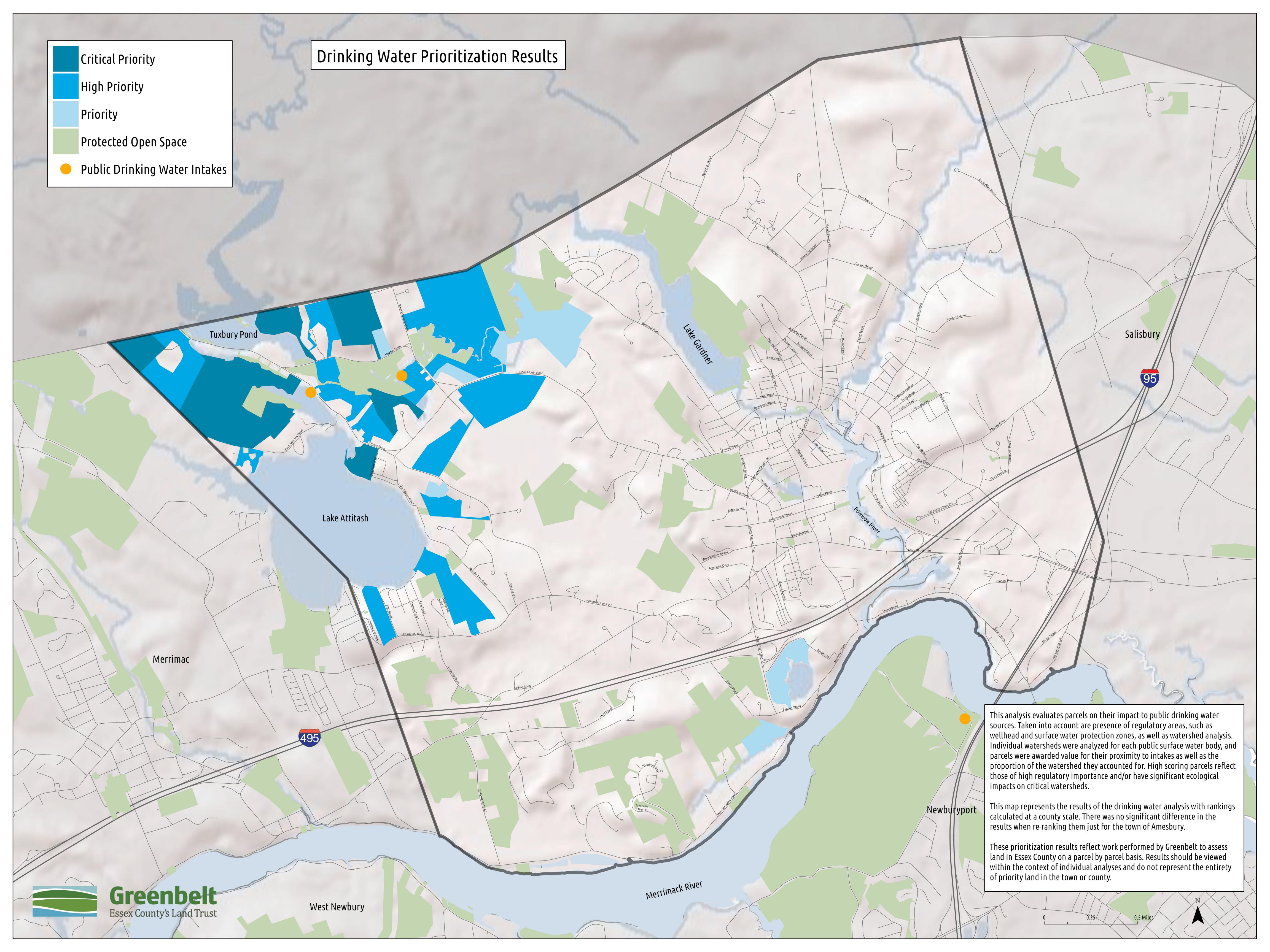


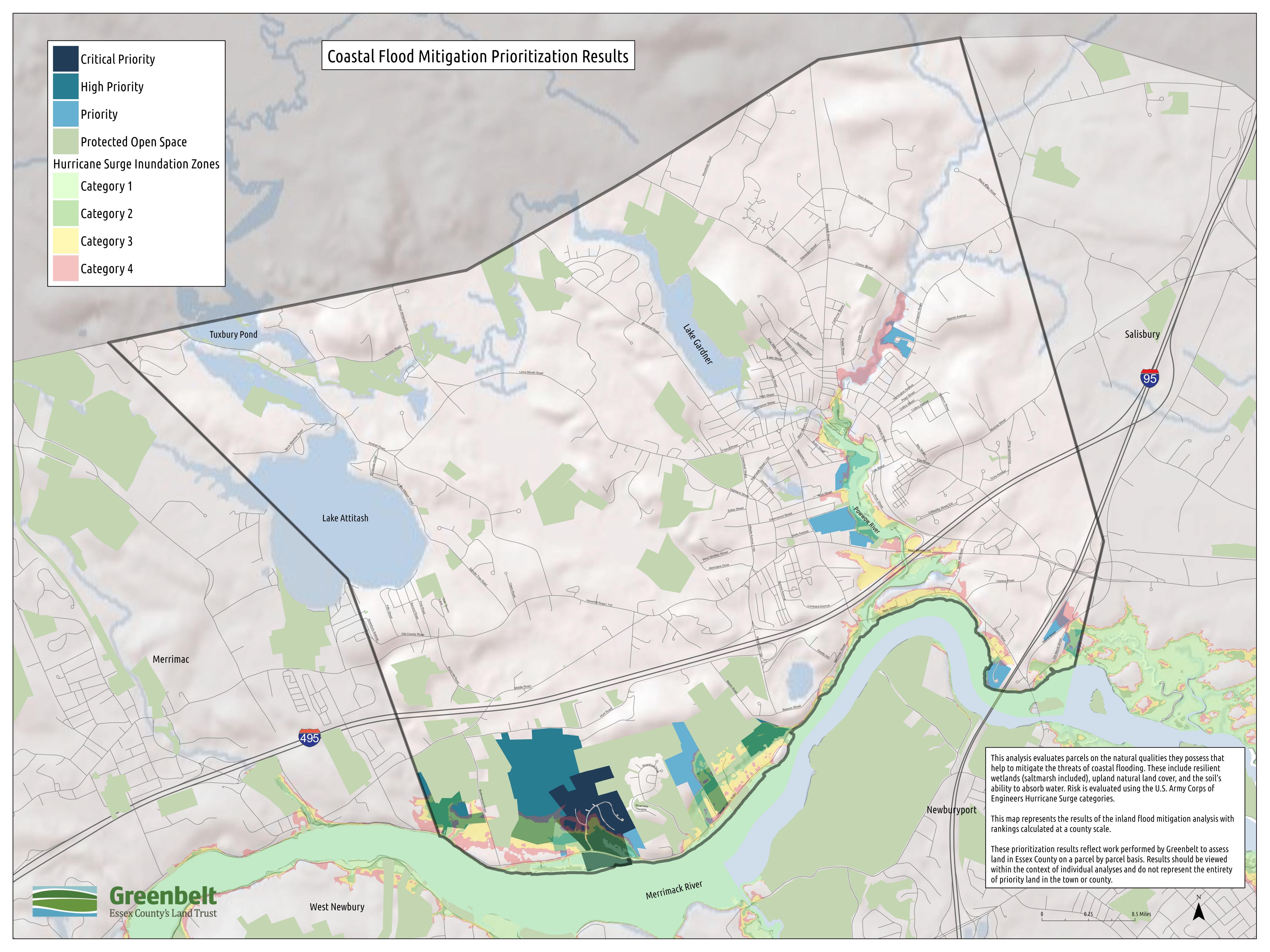
Appendix D: Essex County Greenbelt Association Prioritization Mappi	ng

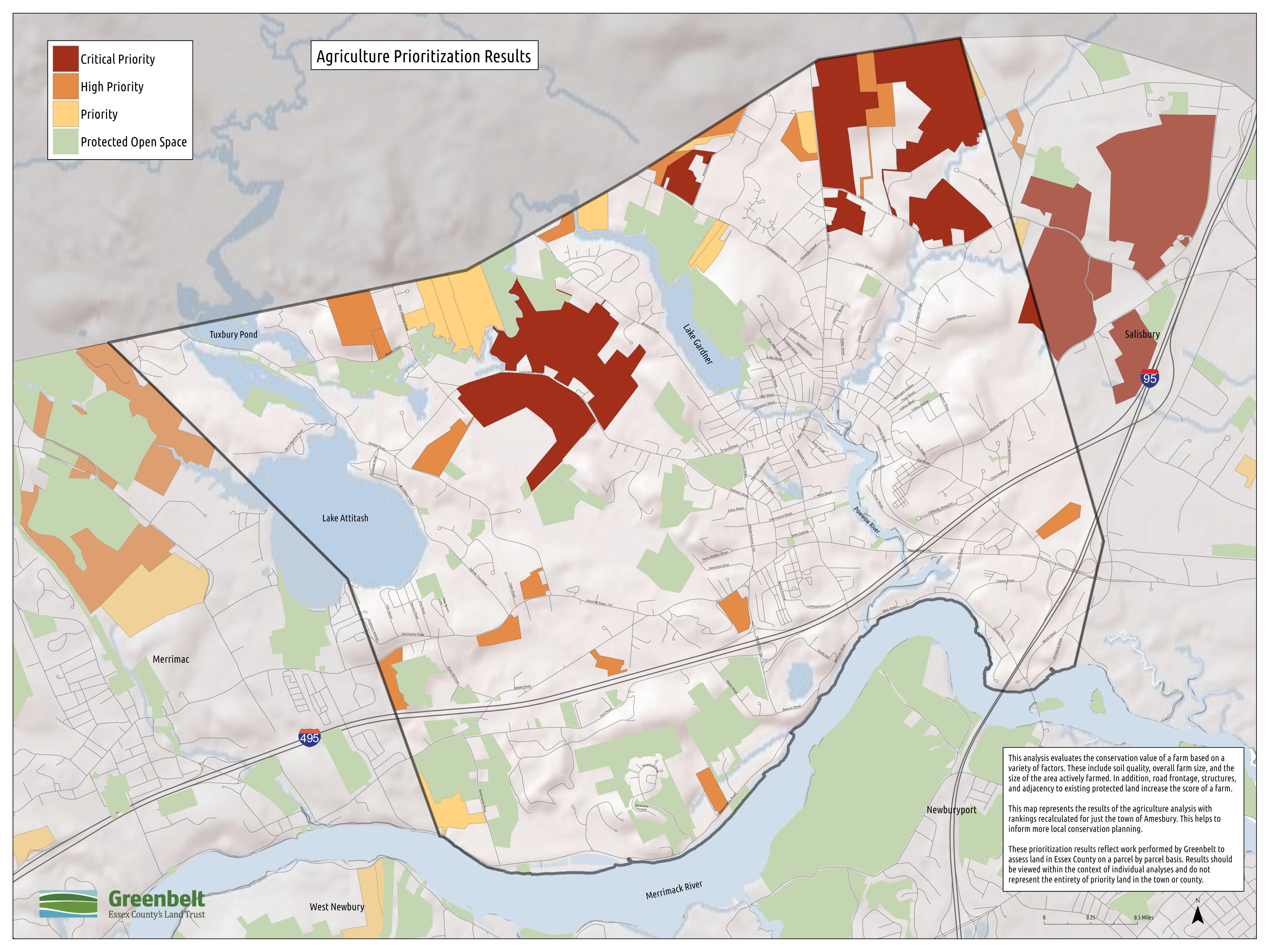


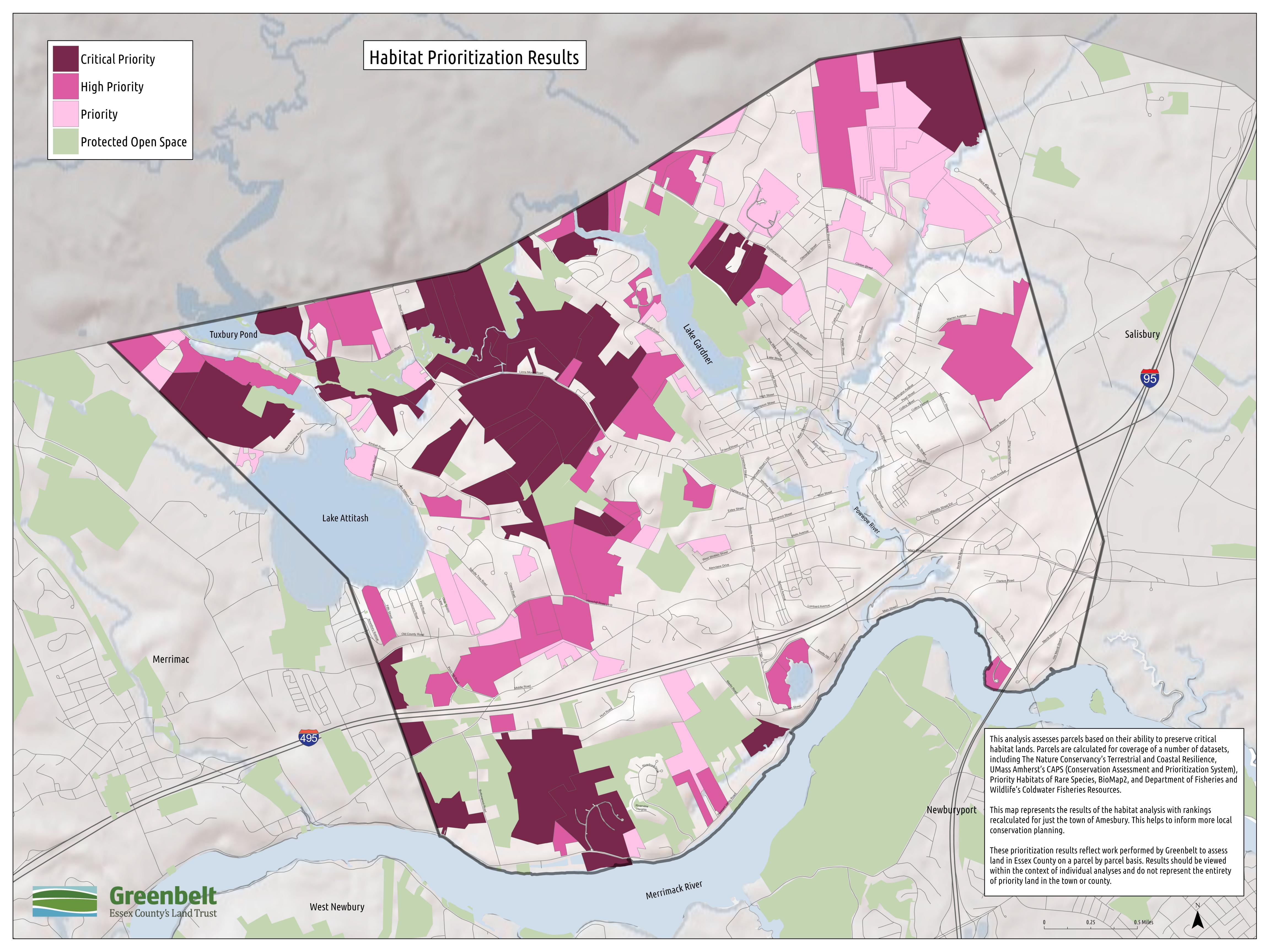












## Appendix E: Amesbury ADA Access Self-Evaluation

## City of Amesbury ADA Self-Evaluation

The required ADA self-evaluation provides an outline of how accessible the City's conservation and recreation properties and programs are to people with disabilities.

#### Part I: Administrative Requirements

#### Designation of ADA Coordinator

Paul Fahey, Chief of Staff, is the current ADA Coordinator for the City of Amesbury. See attachments for the official designation.

#### Grievance Procedure, EOE, and Public Notification Requirements

A prior ADA Assessment for Amesbury's municipal building facilities indicated that the City had made progress towards putting a Grievance Policy and Equal Opportunity Employment and Non-Discrimination Public Notification in place. However, with a change in mayoral administrations in January 2020, this documentation and information was not able to be identified for this Plan, either internally or on the City's public-facing website.

Transition Plan: the Amesbury Mayor's office will ensure that a grievance policy is established and publicized and that notification of non-discrimination (including based on disability) will be included in recruitment and publicity materials.

#### Part II: Program Accessibility: Site Information and Potential Improvements

For the self-evaluation of city-owned recreational facilities based on the Americans with Disabilities Act, the Open Space, Natural Resources, and Trails Committee assembled a team of volunteers. The team was comprised of three OSNRTC members and the members of the public. Persons with disabilities were represented on the team. One member was legally blind; she and her partner both brought experience in evaluating settings for disabled persons and in the provision of accommodations. The third member from the public is a mother of a child with mobility challenges. The team used the Facility Inventory tool provided by the Commonwealth in the Open Space and Recreation Plan guidebook. The team also consulted the 2019 Amesbury Public Sports Fields Master Plan report, which included notes regarding accessibility for several recreational facilities in town. See attachments for the completed Facility Inventory forms. Each Facility Inventory form is prefaced with a Google Earth map depicting the approximate boundaries of the site.

#### Amesbury Elementary School

Amesbury Public Schools is responsible for managing the recreational assets at Amesbury Elementary School. Assets include: non-regulation baseball field, a 'fitness' interactive structure, and two playgrounds (one for pre-schoolers and one for elementary students). There is adequate and marked accessible parking, though not adjacent to the recreational assets. The playgrounds are surrounded by railroad tie berms and not accessible. The floor of the playgrounds are wood chips and not accessible.

<u>Potential improvements</u>: AES is due to be replaced in 2022 by a new school facility, to be located adjacent to the existing Cashman Elementary School.

#### Amesbury High School

Amesbury Public Schools is responsible for managing the recreational assets at Amesbury High School. Assets include: softball field (also used for field hockey overlay), a running track, tennis courts, and an open general training field. The tennis courts and track are actively used by the public outside of school hours. Neither of the facilities are accessible. There is no accessible pathway for viewers or participants to the softball field. None of the facilities have bleachers.

#### **Potential improvements:**

Incorporate accessibility improvements into all other improvements identified and planned in the 2019 Athletic Fields Master Plan.

#### Amesbury Middle School

Amesbury Public Schools is responsible for managing the recreational assets at Amesbury Middle School. Assets include: tennis courts, 3 ballfields of varying size with soccer field overlays, and Landry Stadium, a multi-use field primarily used for high school football games and public events. There is adequate accessible parking by the Rosedale Street entrance. There are paved pathways that connect the parking lot with the tennis courts and Landry Stadium, passing near to some of the ball fields. None of the ballfields are accessible for viewers or participants. Tennis courts have pathway barriers at entrance. Landry Stadium entrance is not accessible, except through a service entrance. There is no directional signage.

## Potential improvements:

Incorporate accessibility improvements into all other improvements identified and planned in the 2019 Athletic Fields Master Plan.

#### Batchelder Park

Batchelder Park is managed by the Department of Public Works. Assets include: unpaved parking lot, access to trails in the Powow Hill Conservation Area and Amesbury Elementary School, scenic outlook to NNE, interpretive sign/map, and a bench. No accessible parking or pathways. Granite steps at parking lot into Park.

<u>Potential improvements</u>: Smooth or pave parking lot and create accessible space. Create accessible pathway from parking lot to interpretive sign and scenic overlook.

#### **Battis Farm**

Battis Farm is under the care and custody of the Conservation Commission and is managed by the Department of Public Works. Assets include: unpaved parking lot, network of packed farm roads and trails, community garden (managed through the Office of Economic and Community Development), access to Camp Kent, access to Powow Hill Conservation Area, access to Powow River and Lake Gardner, seasonal placement of portable toilet (DPW), and interpretive sign. Fields are mowed for hay under contract with a local farmer. DPW spreads particulate waste (produced by the process for producing drinking water at the Tuxbury Pond water treatment plant) on mown fields.

<u>Potential improvements</u>: Smooth or pave parking lot and create accessible space. Assess trails that connect directly from the parking lot for creation of an accessible path.

#### Camp Kent

The Youth and Recreation Department, supported by the Department of Public Works, is responsible for maintaining the Camp Kent Environmental Center. Assets include: house/building for groups, bathrooms, trails, camp shelters, interpretive signs, access to Powow River, and access to Battis Farm.

#### Potential improvements:

#### Cashman Elementary School

Amesbury Public School Department is responsible for Cashman Elementary School. Assets include: two playgrounds (one for elementary students, one for pre-schoolers), multi-use fields, and 2 Little League baseball fields. The Little League baseball fields are maintained under lease by Amesbury Little League; the fields include: fencing, night lighting, dugouts, a snack shack, restrooms, trash cans, storage shed, and a batting cage. The elementary school playground is accessible by a ramp, but the floor of the playground is wood chips and the equipment is not accessible. The pre-schooler playground is accessible by paved path but similarly has wood chip flooring and the equipment is no accessible. The multi-use field to the east of the school (used for soccer and lacrosse by schools and leagues) has no pathway from the parking lot; area crossed to access is a low, wet area. There is some spectator seating, none accessible. The pathways to the baseball fields are rough gravel and not readily accessible by wheelchair. The lower field is at parking level; the upper field is elevated, with no ramp or pathway. The snack shack and bathroom facility are not accessible. There are lower open play areas below the back of Cashman school; there are no pathways to them, and they are not accessible.

<u>Potential improvements</u>: The baseball fields and the pre-school playground are slated to be removed to accommodate the new elementary school to be built on site. Upgrade the playground for elementary students to have accessible equipment and flooring. Incorporate accessibility improvements into all other improvements identified and planned in the 2019 Athletic Fields Master Plan.

#### Collins Avenue Park

The Department of Public Works maintains Collins Avenue Park, with support from the Amesbury Youth Softball League. Assets include: playground, softball field, trash cans, benches and picnic tables. The tables and benches are not located near accessible parking and pathways. Some of the playground elements have accessible components but the playground floor is chipped wood. The ball field has no bleachers.

<u>Potential improvements</u>: Assess best playground location in Town to improve for accessibility; plan and fund improvements.

#### Deer Island

The Department of Public Works maintains Deer Island. Assets include: unpaved parking lot, unmaintained trails around island, scenic views of Merrimack River and fishing access. No interpretive signage; park rules sign.

<u>Potential improvements</u>: Create short accessible trail to scenic overlook of Chain Bridge and Merrimack River.

#### Garrison Trail

The Department of Public Works and the Massachusetts Department of Transportation maintain this recently created multi-use trail that begins in Amesbury and continues across the Whittier Bridge at I-95.

Assets include: connection to Salisbury's 'Ghost Trail' across MA Rt. 110, parking, trash cans, interpretive signage, and multi-use trail across the Merrimack River.

Potential improvements: None. Asset is new and created within ADA standards.

#### Giles Park

The Department of Public Works is responsible for maintaining this small pocket park on Elm Street, adjacent to the old train depot. Assets include: landscaping, 'human-sized' chess board, accessible parking, and benches.

<u>Potential improvements</u>: None. Asset complies with ADA standards.

#### Heritage Park

The Department of Public Works is responsible for maintaining this recently created park in the Lower Millyard area. Assets include: historic railroad shack, interpretive signage, decorative fountain, views of Powow and Back Rivers, landscaping, and benches. Pathway on-site connects to start of Amesbury's Riverwalk.

<u>Potential improvements</u>: None. Park was recently created and was built to ADA standards.

#### Lake Gardner Beach

The Department of Public Works is responsible for maintaining Lake Gardner Beach, with support from the Youth and Recreation Department. Assets include: parking lot with accessible parking, paved pathway towards Powwow Hill Conservation Area, interpretive sign (including park rules), sloped sandy beach to Lake Gardner, benches, a restroom/storage facility, trash cans, and seasonal placement of portable toilets. Work is ongoing by the City and the Lake Gardner Improvement Association to improve the quality of beach and prevent surface erosion into the lake. A retention wall was built in 2019, with other improvements planned, including the planting of native shade trees along the upper pathway and the supplemental placement of sand on the beach. The parking has accessible spaces, though the quality of the curb cuts has deteriorated. The beach itself is not accessible, with no ramp or appropriately sloped surface, though area above the new retention wall and the paved pathway are accessible. The paved pathway is deteriorating and becoming impassible, with the buildup of debris and material. The restroom facility is not ADA compliant but it has not been open to the public in recent years.

<u>Potential improvements</u>: Clear paved pathway regularly and keep it free of debris. Asses curb cuts for any necessary resurfacing. Ensure that accessible portable toilets are placed on-site during summer months.

#### Merrimack Landing Conservation Area

The Amesbury Conservation Commission has care and custody of these parcels, though there is no management plan in place and no active management of the area. Assets include: trails. Trail access is minimal and primarily available at a water pumping station maintained by the Department of Public Works. There is no accessible parking and trails are in a natural state, with no signage or maintenance.

<u>Potential improvements</u>: None, site has limited accessibility to Amesbury residents.

#### Powow Hill Conservation Area

The Amesbury Conservation Commission has care and custody of these parcels, though there is no management plan in place and no active management of the area. Assets include: trail network

connecting Battis Farm, Lake Gardner Beach, Batchelder Park, and Amesbury Elementary Nature Trail; wetland boardwalks near Battis Farm and Lake Gardner Beach trials, and trail signage at intersections. Trails, boardwalks, and signage maintained with support from Lake Gardner Improvement Association.

<u>Potential improvements</u>: Given the steeply sloped landscape combined with extensive wetlands along the lake's edge, creation of accessible trails in this area would be impracticable, with better opportunities for trail accessibility improvements elsewhere in town.

#### Quimby Lane Conservation Area

The Amesbury Conservation Commission has care and custody of this parcel, though there is no management plan in place and no active management of the area. Assets include: trails. Trail access is from Quimby Lane. The trail includes a short bridge near the start but generally the trail is in natural condition and not accessible. Trail connects with other trails in the 'Great Swamp' area, with eventual access to Woodsom Farm, the Town Forest, and an Essex County Greenbelt property.

<u>Potential improvements</u>: Given the steeply sloped landscape combined with wetlands along foot of the hillside that largely comprises the area, creation of accessible trails in this area would be impracticable, with better opportunities for trail accessibility improvements elsewhere in town.

#### Riverwalk

The Department of Public Works maintains this rail trail that leads from the Lower Millyard in downtown Amesbury to the Carriagetown Plaza commercial area. Assets include: asphalt paved trail, interpretive signage, benches, views of the lower Powwow River, and multiple points of access from nearby neighborhoods. The Riverwalk was designed to ADA standards, though the deterioration of the surface in locations — buckled pavement, regular water ponding, regular drainage of water across the trail - has reduced accessibility. Directional signage is absent and edge indicators are not always present.

<u>Potential improvements</u>: Improve drainage along the Riverwalk, especially in the Oak St/Riverwalk apartments area, where surface problems are concentrated. Increase directional signage at trail ends and at transitional points, for example around the Bartley Machine building, where the trail is obscured. Add textured curb cuts in areas near Back River.

#### **Town Forest**

The Department of Public Works maintains the trailhead parking lot at the Town Forest, which is a collection of parcels, some owned by the City and some by the Conservation Commission. Assets include: Parking lot, large trail map sign, color-coded trail markers, some trail directional signage, and connection to trail to Great Swamp and Essex County Greenbelt property. Trails are marked, signed and maintained by loose collection of volunteers.

<u>Potential improvements</u>: Given the steeply sloped landscape combined with wetlands along foot of the hillside that largely comprises the area, creation of accessible trails in this area would be impracticable, with better opportunities for trail accessibility improvements elsewhere in town. Consider accessible trail originating at Ashley St following old woodland road to Greenbelt parcel. Assess grades.

#### Town Park

The Department of Public Works is responsible for maintaining the Town Park, with support from multiple user groups, including Friends of Amesbury Disc Golf, Amesbury Little League, Amesbury Youth Softball League, the Amesbury Improvement Association and Friends of the Amesbury Skate Park. Assets include:

recently renovated playground, basketball court, disc golf course 'in the Pines', skateboard park, softball field, T-ball and Little League field, baseball field (with bleachers), splash pad, picnic area, restrooms, drinking fountain, 2 ponds, three parking areas, and connecting pathways. There is no overall management plan for the Park. Accessible pathways connect the playground, splash pad, restrooms, and drinking fountain with one parking lot, though the restrooms are not fully accessible. Only the lots on Friend St. have signed accessible parking spaces, though the lot near the skate park has no ground indicators for spaces/spacing. The elements in the recently renovated (2016) playground meet accessible standards but the floor of the playground is wood chips, and thus uneven and not accessible. Picnic area and splash pad are accessible.

The playground elements at Town Park are newer and most are compliant. However, the wood chip flooring negates accessibility.

<u>Potential improvements</u>: Assess viability of re-surfacing floor of playground, in order to make playground accessible. Add parking lines to lot near skate park; add accessible parking spots to lot on Highland street by the baseball field.

#### Training Field

The Department of Public Works is responsible for maintaining this park. Assets include: paved parking lot, open field, interpretive signs, benches, and picnic tables. The park is used by locals and as a practice field for youth sports. There are no pathways. Signs, benches and tables are not on accessible pathways and there is no marked spot at the paved lot.

<u>Potential improvements</u>: Create accessible picnic and bench facilities.

#### Woodsom Farm

The Department of Public Works is responsible for maintaining this collection of parcels. Amesbury Youth Soccer Association leases and maintains areas on the northern portion of the park. Assets include: unpaved parking lots (north and south entrances on Lions Mouth Road), soccer fields, mowed open spaces, trails, access to Powwow River, access to Essex County Greenbelt Association's Whittier Hill Reservation, access to Cashman Elementary School, access to trail network that connects to Quimby Lane Conservation Area and Town Forest, access to the 'Quinn' property on Whitehall Road (purchased in 2017), wetlands, grasslands, and forests. There is no active management plan for these parcels, which were placed under Massachusetts Article 97 protection in 2019. The DPW contracts with a regional farmer to mow the majority of the farm for hay, on a schedule adjusted for several uses, including the seasonal breeding of grassland birds. Trails are a mix of packed 'farm roads' and mown lanes. Baseball fields displaced by the planned construction of a new school at Cashman site are slated to be recreated on a portion of Woodsom Farm. The Amesbury Soccer Association has approved plans for improving existing and creating new soccer field surfaces on the Farm as well. There are no accessible trails or parking spaces.

<u>Potential improvements</u>: Modification or creation of existing athletic fields on the SE corner of Woodsom Farm will likely improve access from the north side parking lot and introduce accessible pathways among the new fields. Assess viability of creating an accessible nature trail through into the northern fields. Assess viability of creating an accessible trail along the lower portion of the hill on the south side of Woodsom Farm, from the parking lot to the large wetland area in the Powwow River drainage.

## Part III: Employment Practices

Please see attachments for the signed statement attesting that the City of Amesbury's employment practices are in compliance with the Americans with Disabilities Act.



# Amesbury Mayor Kassandra Gove

Office of the Mayor City Hall, 62 Friend Street Amesbury, MA 01913-2884 (978) 388-8121 Fax: (978) 388-6727 govek@amesburyma.gov

June 9, 2020

To Whom It May Concern:

This letter is to document that I have named Paul J. Fahey, Chief of Staff, Office of the Mayor, as the City's Americans with Disabilities Act (ADA) Coordinator on an interim basis.

Sincerely,

Kassandra Gove

Mayor



## Amesbury

Mayor Kassandra Gove

Office of the Mayor City Hall, 62 Friend Street Amesbury, MA 01913-2884 (978) 388-8121 Fax: (978) 388-6727 govek@amesburyma.gov

June 15, 2020

To Whom It May Concern:

As Interim Americans with Disabilities Act (ADA) Coordinator for the City of Amesbury, I hereby attest that the City's employment practices are in compliance with the ADA with respect to the following: recruitment, personnel actions, leave administration, training, testing, needed exams/questionnaires, social and recreational programs, fringe benefits, collective bargaining agreements, and wage and salary administration.

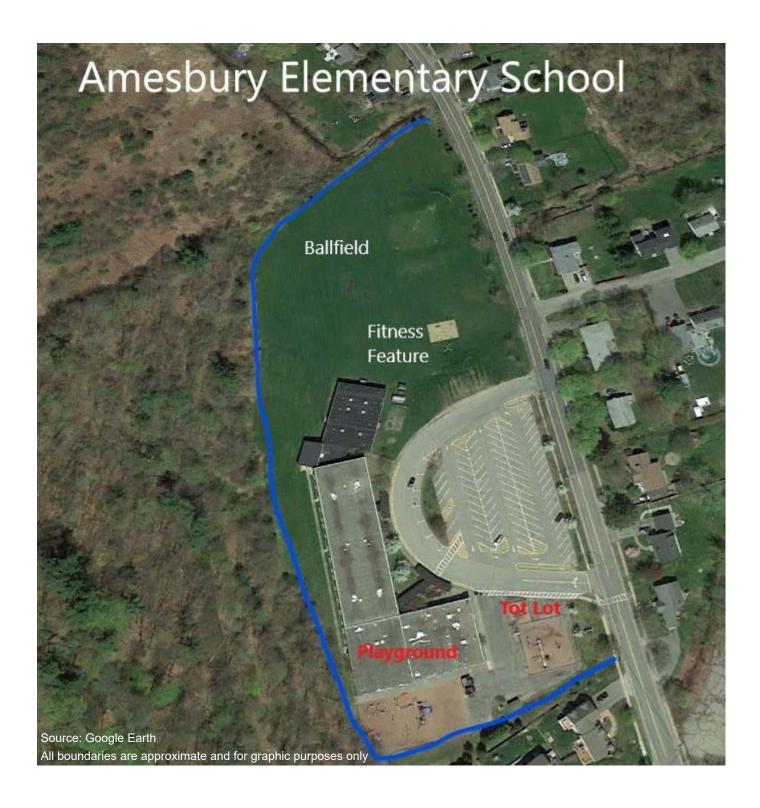
The City of Amesbury is an Equal Opportunity Employer. It does not discriminate in hiring or employment on the basis of race, color, religion, sex, sexual orientation, gender identity and expression, age, genetic information, national origin, ancestry, disability, veteran status or membership in the armed services, marital status or any other protected category under federal or state law.

Sincerely,

Paul J. Fahey

Chief of Staff, Office of the Mayor

Interim ADA Coordinator, City of Amesbury



**Facility Inventory** 

**LOCATION: Amesbury Elementary School** 

ACTIVITY	EQUIPMENT	NOTES				
		Located adjacent to accessible paths				
	Tables & Benches	Access to Open Spaces				
	Tables & Belicies	Back and Arm Rests				
		Adequate number				
District Frankling	C :II	Height of Cooking Surface				
Picnic Facilities	Grills	Located adjacent to accessible paths				
N/A	Trash Cans	Located adjacent to accessible paths				
N/A		Located adjacent to accessible paths				
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,				
		parking, etc.				
		Surface material <b>No</b>				
	Trail to Batchelder Park	Dimensions No				
Trails	Train to Battericider Fark	Rails No				
		Signage (for visually impaired) No				
		Entrance				
	Pools					
	Pools	Location from accessible parking				
Swimming Facilities		Safety features i.e. warning for visually impaired				
		Location from accessible path into water				
	Beaches	Handrails				
	250.00	Location from accessible parking				
		Shade provided				
Dian Amaza (tat	All Play Equipment i.e. swings, slides	Same experience provided to all <b>No</b>				
Play Areas (tot lots)	Access Routes	Located adjacent to accessible paths Yes				
		Enough space between equipment for wheelchair No				
Game Areas:	Access Routes	Located adjacent to accessible paths Mixed				
*ballfield		Berm cuts onto courts No				
*basketball		Height <b>No</b>				
*tennis	Equipment	Dimensions No				
*playground	' '	Spectator Seating No				
D . D . I	A	Located adjacent to accessible paths				
Boat Docks	Access Routes	Handrails				
N/A						
11/4		Located adjacent to accessible paths				
	Access Routes	Handrails				
		Arm Rests				
Fishing Facilities						
	Equipment	Bait Shelves				
N/A		Handrails Fish Cleaning Tables				
		FISH Cleaning Tables				
	Are special programs at your facilities accessible?	Learn-to-Swim				
Programming		Guided Hikes				
		Interpretive Programs				
	Information available in alternative formats i.e. for visually impaired No					
Services and Technical	Information available in alternati	ive formats i.e. for visually impaired No				

LOCATION					
PARKING					
Total Spaces			Required Accessible Spaces		
Up to 25			I space		
26-50			2 spaces		
51-75		3 spa			
76-100 <b>89</b>		4 spa	ces		
101-150		5 spa	ces X		
151-200		6 spa	ces		
201-300		7 spa	ces		
301-400		8 spa			
401-500		9 spa			
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes		
Accessible space located closest to accessible	X	740	Comments/Transition 140ccs		
entrance	^				
Where spaces cannot be located within 200 ft of	X				
accessible entrance, drop-off area is provided within	^				
100 ft.	<u> </u>				
Minimum width of 13 ft includes 8 ft space plus 5 ft	X				
access aisle	<u> </u>				
Van space – minimum of I van space for every	×				
accessible space, 8 ft wide plus 8 ft aisle. Alternative					
is to make all accessible spaces 11 ft wide with 5 ft					
aisle.					
Sign with international symbol of accessibility at each	X				
space or pair of spaces					
Sign minimum 5 ft, maximum 8 ft to top of sign	X				
Surface evenly paved or hard-packed (no cracks)	X				
Surface slope less than 1:20, 5%	X				
·					
Curbcut to pathway from parking lot at each space	X				
or pair of spaces, if sidewalk (curb) is present					
Curbcut is a minimum width of 3 ft, excluding	X				
sloped sides, has sloped sides, all slopes not to					
exceed 1:12, and textured or painted yellow					
RAMPS	1	Ī	<u> </u>		
Specification	Yes	No	Comments/Transition Notes		
Slope Maximum 1:12	, 53	1	N/A		
Siepe Flaximum 1.12					
Minimum width 4 ft between handrails	-				
i minimum widum i it betweem nandrans					
Handrails on both sides if rame is langue than 4.5	1	-			
Handrails on both sides if ramp is longer than 6 ft Handrails at 34" and 19" from ramp surface	-	-			
	-				
Handrails extend 12" beyond top and bottom	<u> </u>				
Handgrip oval or round	<u> </u>				
Handgrip smooth surface					
	ļ				
Handgrip diameter between 11/4" and 2"					
Clearance of 11/2" between wall and wall rail					
Non-slip surface					
	<u> </u>				
Level platforms (4ft x 4 ft) at every 30 ft, at top, at					
bottom, at change of direction					
<del>-</del>					

LOCATION SITE ACCESS, PATH OF TRAVEL, ENTRANCES					
Specification	Yes	No	Comments/Transition Notes		
Site Access	1				
Accessible path of travel from passenger		X	No path to fitness structure or baseball		
disembarking area and parking area to accessible			field.		
entrance			inc.u.		
Disembarking area at accessible entrance		X			
Surface evenly paved or hard-packed		x			
our lass system, parest or man a passes					
No ponding of water		X			
, , , , , , , , , , , , , , , , , , ,					
Path of Travel	1				
Path does not require the use of stairs	X				
Path is stable, firm and slip resistant	X				
3 ft wide minimum	X				
Slope maximum 1:20 (5%) and maximum cross pitch	X				
is 2% (1:50).					
Continuous common surface, no changes in level	X				
greater than ½ inch	<u> </u>				
Any objects protruding onto the pathway must be	X				
detected by a person with a visual disability using a	<u> </u>				
cane					
Objects protruding more than 4" from the wall	X				
must be within 27" of the ground, or higher than					
80"					
Curb on the pathway must have curb cuts at drives,	X				
parking and drop-offs					
Entrances			•		
Primary public entrances accessible to person using		X	Entrances to tot lot and playground have		
wheelchair, must be signed, gotten to independently,			raised railroad tie barriers and are		
and not be the service entrance			inaccessible. Both have wood chip flooring.		
Level space extending 5 ft. from the door, interior					
and exterior of entrance doors					
Minimum 32" clear width opening (i.e. 36" door					
with standard hinge)					
At least 18" clear floor area on latch, pull side of					
door					
Door handle no higher than 48" and operable with a					
closed fist					
Vestibule is 4 ft plus the width of the door swinging					
into the space					
Entrance(s) on a level that makes elevators					
accessible					
Door mats less than ½" thick are securely fastened					
Door mats more than ½" thick are recessed					
Grates in path of travel have openings of 1/2"					
maximum					
Signs at non-accessible entrance(s) indicate direction					
to accessible entrance					
Emergency egress – alarms with flashing lights and					
audible signals, sufficiently lighted					

STAIRS and DOORS Specification	Yes	No	Comments/Transition Notes
Stairs	163	140	Comments/Transition Notes
Stalls			
No open risers			N/A
Nosings not projecting			
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of 1 ft beyond top and			
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
Doors	•	•	•
Minimum 32" clear opening			N/A
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of			
the latch			
Maximum pressure 5 pounds interior doors			
Threshold maximum ½" high, beveled on both sides			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices) Hardware minimum 36", maximum 48" above the			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)  Hardware minimum 36", maximum 48" above the floor			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices) Hardware minimum 36", maximum 48" above the floor Clear, level floor space extends out 5 ft from both			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)  Hardware minimum 36", maximum 48" above the floor  Clear, level floor space extends out 5 ft from both sides of the door			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices) Hardware minimum 36", maximum 48" above the floor Clear, level floor space extends out 5 ft from both			
Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices) Hardware minimum 36", maximum 48" above the floor Clear, level floor space extends out 5 ft from both sides of the door Door adjacent to revolving door is accessible and			

RESTROOMS – also see Doors and Vestibules			
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor	703	140	Restrooms are inside AES
At least one Sink:		1	Restrooms are miside ALS
The roads one difficulty			
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			1
Open knee space a minimum 19" deep, 30" width, and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring			
activated handle)			
At least one Stall:			
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			1
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
11/4" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			<u> </u>
One mirror set a maximum 38" to bottom (if tilted,			
42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			

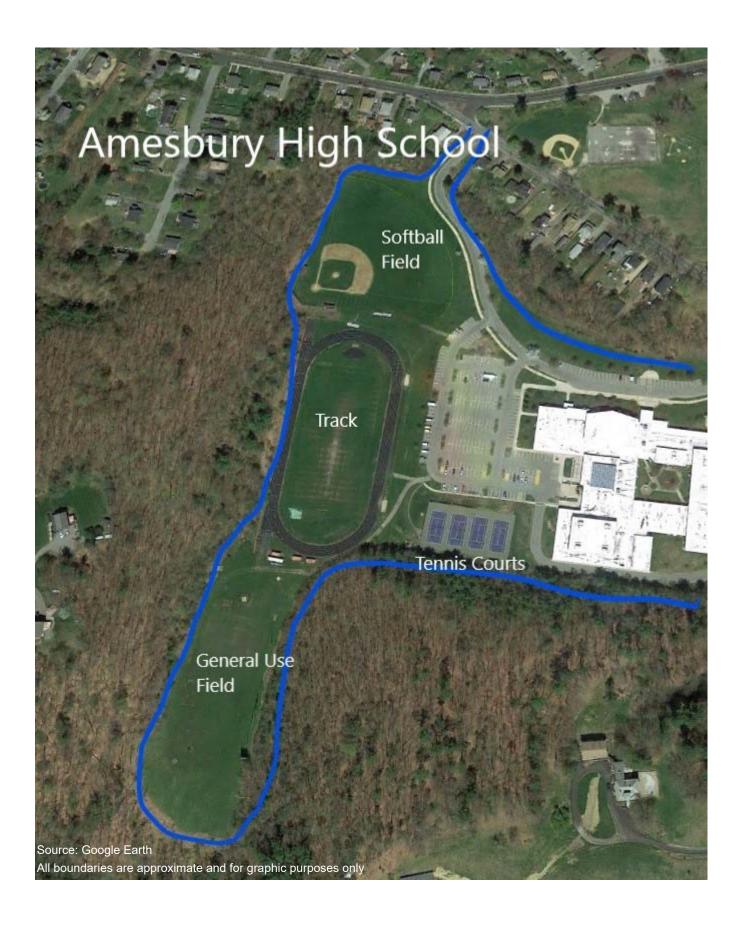
LOCATION FLOORS, DRINKING FOUNTAINS, TELEPHO	ONES		
Specification	Yes	No	Comments/Transition Notes
Floors		<u> </u>	
Non-slip surface			N/A
Carpeting is high-density, low pile, non-absorbent,			
stretched taut, securely anchored			
Corridor width minimum is 3 ft			
Objects (signs, ceiling lights, fixtures) can only			
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Drinking Fountains	•	•	
Spouts no higher than 36" from floor to outlet			
Hand operated push button or level controls			
Spouts located near front with stream of water as			
parallel to front as possible	<u> </u>		
If recessed, recess a minimum 30" width, and no			
deeper than depth of fountain			
If no clear knee space underneath, clear floor space			
30" x 48" to allow parallel approach			
Telephones			
Highest operating part a maximum 54" above the			
floor			
Access within 12" of phone, 30" high by 30" wide			
Adjustable volume control on headset so identified			
SIGNS, SIGNALS, AND SWITCHES			
Specification	Yes	No	Comments/Transition Notes
Switches, Controls and Signs		•	
Switches and controls for light, heat, ventilation,			N/A
windows, fire alarms, thermostats, etc, must be a			
minimum of 36" and a maximum of 48" above the			
floor for a forward reach, a maximum of 54" for a			
side reach	-		
Electrical outlets centered no lower than 18" above			
the floor			
Warning signals must be visual as well as audible  Signs			
Mounting height must be 60" to centerline of the	1	~	
sign		X	
Within 18" of door jamb or recessed	1	Х	
Letters and numbers a t least 11/4" high	1	x	
Letters and numbers raised .03"	1	Х	<u> </u>
Letters and numbers contrast with the background	1	X	<u> </u>
color		[`	

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			N/A	
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

## LOCATION

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use				
Specification	Yes	No	Comments/Transition Notes	
Stalls 36" by 60" minimum, with a 36" door opening			N/A	
Floors are pitched to drain the stall at the corner				
farthest from entrance				
Floors are non-slip surface				
Controls operate by a single lever with a pressure				
balance mixing valve				
Controls are located on the center wall adjacent to				
the hinged seat				
Shower heads attached to a flexible metal hose				
Shower heads attached to wall mounting adjustable				
from 42" to 72" above the floor				
Seat is hinged and padded and at least 16" deep,				
folds upward, securely attached to side wall, height				
is 18" to the top of the seat, and at least 24" long				
Soap trays without handhold features unless they				
can support 250 pounds				
2 grab bars are provided, one 30" and one 48" long,				
or one continuous L shaped bar				
Grab bars are placed horizontally at 36" above the				
floor line				

PICNICKING				
Specification	Yes	No	Comments/Transition Notes	
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access			N/A	
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.				
Top of table no higher than 32" above ground				
Surface of the clear ground space under and around the table must be stable, firma nd slip-resistant, and evenly graded with a maximum slope of 2% in all directions				
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter				



Facility Inventory LOCATION: Amesbury High School Recreational Facilities

Facility Inventory		Amesbury High School Recreational Facilities					
ACTIVITY	EQUIPMENT	NOTES					
		Located adjacent to accessible paths					
	Tables & Benches	Access to Open Spaces					
	Tables & Benches	Back and Arm Rests					
		Adequate number					
Diamin Familiaina	Cuille	Height of Cooking Surface					
Picnic Facilities	Grills	Located adjacent to accessible paths					
N/A	Trash Cans	Located adjacent to accessible paths					
II/A		Located adjacent to accessible paths					
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,					
		parking, etc.					
		Surface material					
<b>T</b> 1		Dimensions					
Trails		Rails					
NI/A		Signage (for visually impaired)					
N/A		Entrance					
	Pools	Location from accessible parking					
	1 0015	- "					
Swimming Engilities		Safety features i.e. warning for visually impaired					
Swimming Facilities	Beaches	Location from accessible path into water Handrails					
N/A							
14/5		Location from accessible parking					
	All Diagrams in a surious	Shade provided					
All Play Equipment i.e. swings, slides		Same experience provided to all					
riay rii cas (coc rocs)	Access Routes	Located adjacent to accessible paths					
N/A		Enough space between equipment for wheelchair					
Game Areas:	Access Routes	Located adjacent to accessible paths Partial					
*ballfield		Berm cuts onto courts No					
*basketball	Equipment	Height N/A					
*tennis		Dimensions N/A					
*track		Spectator Seating None					
Boat Docks N/A	Access Routes	Located adjacent to accessible paths					
		Handrails					
	Access Routes	Located adjacent to accessible paths					
		Handrails					
Fishing Facilities		Arm Rests					
<b>6</b>	Equipment	Bait Shelves					
N/A		Handrails					
		Fish Cleaning Tables					
		Learn-to-Swim					
Programming	Are special programs at your facilities accessible?	Guided Hikes					
NI/A		Interpretive Programs					
N/A Services and	Information available in alternat	live formats i.e. for visually impaired					
Technical							
Assistance Process to request interpretive services (i.e. sign language interpreter) for meetings							

LOCATION			,
PARKING			
Total Spaces			ired Accessible Spaces
Up to 25			ce
26-50			ces
51-75			ces
76-100		4 spa	ces
101-150			aces Adequate # marked spaces in lot
151-200		6 spa	
201-300		7 spa	
301-400		8 spa	
401-500		9 spa	
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes
Accessible space located closest to accessible	X – by	X	No marked parking near/adjacent to
entrance	school	Λ	recreational facilities
Where spaces cannot be located within 200 ft of	SCHOOL	X	recreational facilities
accessible entrance, drop-off area is provided within 100 ft.		Α	
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle		X	
Van space – minimum of I van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces II ft wide with 5 ft aisle.		X	
Sign with international symbol of accessibility at each space or pair of spaces		X	
Sign minimum 5 ft, maximum 8 ft to top of sign		X	
Surface evenly paved or hard-packed (no cracks)		X	
Surface slope less than 1:20, 5%	X		
Curbcut to pathway from parking lot at each space		X	
or pair of spaces, if sidewalk (curb) is present		Λ	
Curbcut is a minimum width of 3 ft, excluding		X	
sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow		^	
RAMPS	1		
Specification	Yes	No	Comments/Transition Notes
Slope Maximum 1:12	763	7.0	No ramps
Minimum width 4 ft between handrails			
Handrails on both sides if ramp is longer than 6 ft			
Handrails at 34" and 19" from ramp surface	1		
Handrails extend 12" beyond top and bottom	1		
Handgrip oval or round	1	<del>                                     </del>	
Handgrip smooth surface		<del>                                     </del>	
Handgrip diameter between 11/4" and 2"			
Clearance of 1½" between wall and wall rail			
Non-slip surface			
Level platforms (4ft x 4 ft) at every 30 ft, at top, at			
bottom, at change of direction			

SITE ACCESS, PATH OF TRAVEL, ENTRANCES					
Specification	Yes	No	Comments/Transition Notes		
Site Access	•				
Accessible path of travel from passenger		X			
disembarking area and parking area to accessible					
entrance					
Disembarking area at accessible entrance		X			
Surface evenly paved or hard-packed		X			
No ponding of water		X			
Path of Travel					
Path does not require the use of stairs	X				
Path is stable, firm and slip resistant	2.1		Softball – no (dirt, unnavigable)		
Tacir is scapic, in in and sup resistant			Tennis – yes		
			Track – no (paved, turns to dirt)		
3 ft wide minimum	X		paved, turns to unit)		
Slope maximum 1:20 (5%) and maximum cross pitch		X	Track – up to 7%		
is 2% (1:50).			Tennis – up to 10%		
Continuous common surface, no changes in level		X	Tolling up to 10/0		
greater than ½ inch		_			
Any objects protruding onto the pathway must be	X				
detected by a person with a visual disability using a					
cane					
Objects protruding more than 4" from the wall	X				
must be within 27" of the ground, or higher than					
80"					
Curb on the pathway must have curb cuts at drives,	X				
parking and drop-offs					
Entrances	,	,			
Primary public entrances accessible to person using		X			
wheelchair, must be signed, gotten to independently,					
and not be the service entrance					
Level space extending 5 ft. from the door, interior					
and exterior of entrance doors					
Minimum 32" clear width opening (i.e. 36" door					
with standard hinge)					
At least 18" clear floor area on latch, pull side of door					
Door handle no higher than 48" and operable with a					
closed fist					
Vestibule is 4 ft plus the width of the door swinging					
into the space					
Entrance(s) on a level that makes elevators					
accessible					
Door mats less than ½" thick are securely fastened					
Door mats more than ½" thick are recessed					
Grates in path of travel have openings of ½"					
maximum					
Signs at non-accessible entrance(s) indicate direction		1			
to accessible entrance					
Emergency egress – alarms with flashing lights and					
audible signals, sufficiently lighted					

#### **NOTES**

Access for <u>use and event spectating</u> to softball field, track, and tennis courts is inadequate, including lack of nearby, marked parking. Pathways exist to all facilities. Tennis courts have paved path with adequate width, but grade is excessive. Entrance has lip. Path to track is paved, turning to dirt, in conditions that exceed accessibility. (Softball field also used for other activities, including field hockey.)

Specification	Yes	No	Comments/Transition Notes
Stairs	763	140	Commences/Translation 140tes
No open risers			N/A - No Stairs
Nosings not projecting			
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of 1 ft beyond top and			
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
Doors	•		•
Minimum 32" clear opening			N/A - No Doors
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of			
the latch	1		
Maximum pressure 5 pounds interior doors			
Threshold maximum 1/2" high, beveled on both sides			
Hardware operable with a closed fist (no			
conventional door knobs or thumb latch devices)			
Hardware minimum 36", maximum 48" above the			
floor			
Clear, level floor space extends out 5 ft from both			
sides of the door			
Door adjacent to revolving door is accessible and			
unlocked			
Unlocked  Doors opening into hazardous area have hardware that is knurled or roughened			

RESTROOMS – also see Doors and Vestibules			
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor	7.03	110	Commence, Fransiaon Frances
At least one Sink:	1		<u> </u>
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width,			
and 27" high  Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring			
activated handle)			
At least one Stall:		•	
A		1	
Accessible to person using wheelchair at 60" wide by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars	1		
On back and side wall closest to toilet			
I'/4" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures	•		
Toilet paper dispenser is 24" above floor			1
One mirror set a maximum 38" to bottom (if tilted,	1		
42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			

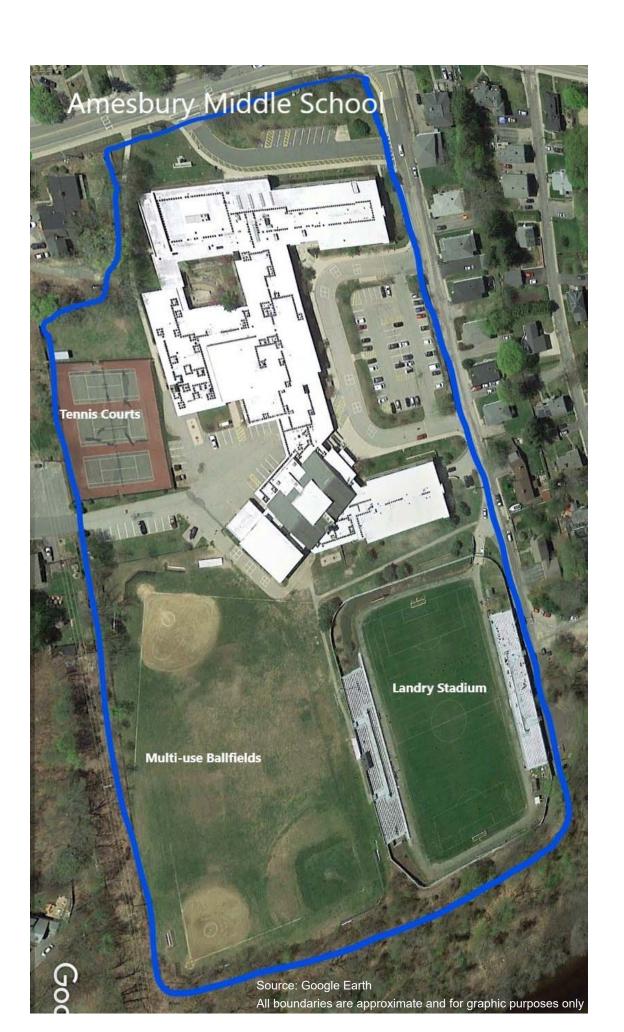
LOCATION	ONIEC		
FLOORS, DRINKING FOUNTAINS, TELEPH			T
Specification	Yes	No	Comments/Transition Notes
Floors			
Non-slip surface			
Carpeting is high-density, low pile, non-absorbent,			
stretched taut, securely anchored			
Corridor width minimum is 3 ft			
Objects (signs, ceiling lights, fixtures) can only			
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Drinking Fountains		1	1
Spouts no higher than 36" from floor to outlet			
Hand operated push button or level controls			
Spouts located near front with stream of water as			<u> </u>
parallel to front as possible			
If recessed, recess a minimum 30" width, and no			
deeper than depth of fountain			
If no clear knee space underneath, clear floor space			
30" x 48" to allow parallel approach			
Telephones			
11:1			
Highest operating part a maximum 54" above the floor			
Access within 12" of phone, 30" high by 30" wide			
Adjustable volume control on headset so identified			
SIGNS, SIGNALS, AND SWITCHES		-	
Specification	Yes	No	Comments/Transition Notes
Switches, Controls and Signs			
Switches and controls for light, heat, ventilation,	1		1
windows, fire alarms, thermostats, etc, must be a			
minimum of 36" and a maximum of 48" above the			
floor for a forward reach, a maximum of 54" for a			
side reach			
Electrical outlets centered no lower than 18" above			
the floor			
Warning signals must be visual as well as audible		+	
Signs			1
M Later and CON	_	1	
Mounting height must be 60" to centerline of the			
sign		1	
Within 18" of door jamb or recessed			
Letters and numbers a t least 11/4" high Letters and numbers raised .03"		+	
		+	
Letters and numbers contrast with the background			
color		1	

SWIMMING POOLS – accessibility can be via	amp, li	fting d	evice, or transfer area
Specification	Yes	No	Comments/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			
Lifting device			
Transfer area 18" above the path of travel and a minimum of 18" wide			
Unobstructed path of travel not less than 48" wide around pool			
Non-slip surface			

## LOCATION

LOGATION			
SHOWER ROOMS - Showers must accommod	WER ROOMS - Showers must accommodate both wheel-in and transfer use		
Specification	Yes	No	Comments/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening			
Floors are pitched to drain the stall at the corner			
farthest from entrance			
Floors are non-slip surface			
Controls operate by a single lever with a pressure			
balance mixing valve			
Controls are located on the center wall adjacent to			
the hinged seat			
Shower heads attached to a flexible metal hose			
Shower heads attached to wall mounting adjustable			
from 42" to 72" above the floor			
Seat is hinged and padded and at least 16" deep,			
folds upward, securely attached to side wall, height			
is 18" to the top of the seat, and at least 24" long			
Soap trays without handhold features unless they			
can support 250 pounds			
2 grab bars are provided, one 30" and one 48" long,			
or one continuous L shaped bar			
Grab bars are placed horizontally at 36" above the			
floor line			

PICNICKING			
Specification	Yes	No	Comments/Transition Notes
A minimum of 5% of the total tables must be			
accessible with clear space under the table top not			
less than 30" wide and 19" deep per seating space			
and not less than 27" clear from the ground to the			
underside of the table. An additional 29" clear			
space (totaling 48") must extend beyond the 19"			
clear space under the table to provide access			
For tables without toe clearance, the knee space			
under the table must be at least 28" high, 30" wide			
and 24" deep.			
Top of table no higher than 32" above ground			
Surface of the clear ground space under and around			
the table must be stable, firma nd slip-resistant, and			
evenly graded with a maximum slope of 2% in all			
directions			
Accessible tables, grills and fire rings must have clear			
ground space of at least 36" around the perimeter			



**Facility Inventory** 

**LOCATION: Amesbury Middle School** 

ACTIVITY	EQUIPMENT	NOTES
ACTIVITI	EQUIFITEINT	Located adjacent to accessible paths
		Access to Open Spaces
	Tables & Benches	Back and Arm Rests
		Adequate number
Picnic Facilities	Grills	Height of Cooking Surface
	T 16	Located adjacent to accessible paths
N/A	Trash Cans	Located adjacent to accessible paths
	D: CL I	Located adjacent to accessible paths
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,
		parking, etc.
		Surface material
Trails		Dimensions
		Rails
N/A		Signage (for visually impaired)
		Entrance
	Pools	Location from accessible parking
		Safety features i.e. warning for visually impaired
Swimming Facilities		Location from accessible path into water
_	Danahaa	Handrails
N/A	Beaches	Location from accessible parking
		Shade provided
	All Play Equipment i.e. swings,	
Dla., A., (656 lass)	slides	Same experience provided to all
Play Areas (tot lots)	A P	Located adjacent to accessible paths
	Access Routes	
N/A		Enough space between equipment for wheelchair
N/A		
	Access Routes	Enough space between equipment for wheelchair  Located adjacent to accessible paths No
N/A  Game Areas: *ballfield x2	Access Routes	
Game Areas:	Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No
Game Areas: *ballfield x2		Located adjacent to accessible paths No
Game Areas: *ballfield x2 *basketball	Access Routes  Equipment	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions
Game Areas:  *ballfield x2  *basketball  *tennis *Landry Stadium	Equipment	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No
Game Areas: *ballfield x2 *basketball *tennis		Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions
Game Areas:  *ballfield x2  *basketball  *tennis *Landry Stadium	Equipment  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails
Game Areas:  *ballfield x2  *basketball  *tennis *Landry Stadium	Equipment	Located adjacent to accessible paths No  Berm cuts onto courts No  Height  Dimensions  Spectator Seating No  Located adjacent to accessible paths
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A	Equipment  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths
Game Areas:  *ballfield x2  *basketball  *tennis *Landry Stadium	Equipment  Access Routes  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities	Equipment  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A	Equipment  Access Routes  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities	Equipment  Access Routes  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities	Equipment  Access Routes  Access Routes	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities	Equipment  Access Routes  Access Routes  Equipment	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities N/A	Equipment  Access Routes  Access Routes  Equipment  Are special programs at your	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables  Learn-to-Swim
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities	Equipment  Access Routes  Access Routes  Equipment	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities N/A	Equipment  Access Routes  Access Routes  Equipment  Are special programs at your	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables  Learn-to-Swim  Guided Hikes
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities N/A	Equipment  Access Routes  Access Routes  Equipment  Are special programs at your	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables  Learn-to-Swim
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities N/A	Equipment  Access Routes  Access Routes  Equipment  Are special programs at your facilities accessible?	Located adjacent to accessible paths No  Berm cuts onto courts No  Height  Dimensions  Spectator Seating No  Located adjacent to accessible paths  Handrails  Located adjacent to accessible paths  Handrails  Arm Rests  Bait Shelves  Handrails  Fish Cleaning Tables  Learn-to-Swim  Guided Hikes  Interpretive Programs
Game Areas: *ballfield x2 *basketball *tennis *Landry Stadium  Boat Docks N/A  Fishing Facilities N/A  Programming	Equipment  Access Routes  Access Routes  Equipment  Are special programs at your facilities accessible?	Located adjacent to accessible paths No  Berm cuts onto courts No  Height Dimensions Spectator Seating No Located adjacent to accessible paths Handrails Located adjacent to accessible paths Handrails Arm Rests Bait Shelves Handrails Fish Cleaning Tables  Learn-to-Swim  Guided Hikes

LOCATION			
PARKING (Rosedale Street Parking - assessed	d)		
Total Spaces		Requ	ired Accessible Spaces
Up to 25		l spa	ace Only I Accessible
26-50 <b>28 Spaces</b>		2 spa	aces
51-75		3 spa	aces
76-100		4 spa	aces
101-150		5 spa	aces
151-200		6 spa	
201-300		7 spa	
301-400		8 spa	
401-500		9 spa	
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes
Accessible space located closest to accessible	X	110	Adjacent to gymnasium entrance; not to
entrance	Λ		outdoor recreational assets
Where spaces cannot be located within 200 ft of			N/A
accessible entrance, drop-off area is provided within			N/A
100 ft.			
Minimum width of 13 ft includes 8 ft space plus 5 ft	X	+	
access aisle	Δ		
Van space – minimum of I van space for every	+	X	
accessible space, 8 ft wide plus 8 ft aisle. Alternative		X	
is to make all accessible spaces 11 ft wide with 5 ft			
aisle.			
aisie.	+	+	
Cian with intermediated a maked of a consibility of social	<b>T</b> 7		
Sign with international symbol of accessibility at each	X		
space or pair of spaces			
Sign minimum 5 ft, maximum 8 ft to top of sign	X		
Surface evenly paved or hard-packed (no cracks)	X		
Surface slope less than 1:20, 5%	X		
Curbcut to pathway from parking lot at each space	X		
or pair of spaces, if sidewalk (curb) is present			
Curbcut is a minimum width of 3 ft, excluding	X		
sloped sides, has sloped sides, all slopes not to			
exceed 1:12, and textured or painted yellow			
RAMPS			
Specification	Yes	No	Comments/Transition Notes
Slope Maximum 1:12			N/A
	1		
Minimum width 4 ft between handrails			
	1		
Handrails on both sides if ramp is longer than 6 ft			
Handrails at 34" and 19" from ramp surface			
Handrails extend 12" beyond top and bottom			
Handgrip oval or round			
Handgrip smooth surface			
Handgrip diameter between 11/4" and 2"			
Clearance of 11/2" between wall and wall rail			
Non-slip surface	1		
L			
Level platforms (4ft x 4 ft) at every 30 ft, at top, at	1	+	
bottom, at change of direction			
,	1		

LOCATION			
SITE ACCESS, PATH OF TRAVEL, ENTRAN	CES		
Specification	Yes	No	Comments/Transition Notes
Site Access			
Accessible path of travel from passenger	X		Path to tennis, Landry and field areas
disembarking area and parking area to accessible			accessible; pathway is near fields but does
entrance			not allow access to event viewing.
			Inadequate number of spaces for outdoor
			access. Far fields not near any pathway.
Disembarking area at accessible entrance			N/A
Surface evenly paved or hard-packed	X		
No ponding of water	X		
The periality of Water			
Path of Travel		<u> </u>	
Path does not require the use of stairs	x	1	
Path is stable, firm and slip resistant	<u> </u>	×	Doth to tomain counts = not other notice =
Tauris stable, illili and slip resistant		r	Path to tennis courts = no; other paths =
3 ft wide minimum	X		yes
	^	24	
Slope maximum 1:20 (5%) and maximum cross pitch		X	Paths to tennis and near fields = yes; path
is 2% (1:50).			to Landry stadium entrance = no (up to
			12%)
Continuous common surface, no changes in level		X	
greater than ½ inch			
Any objects protruding onto the pathway must be		X	
detected by a person with a visual disability using a			
cane			
Objects protruding more than 4" from the wall		X	
must be within 27" of the ground, or higher than			
80"			
Curb on the pathway must have curb cuts at drives,		X	
parking and drop-offs			
Entrances			
Primary public entrances accessible to person using		Х	Landry inaccessible; no signage
wheelchair, must be signed, gotten to independently,			throughout.
and not be the service entrance			
Level space extending 5 ft. from the door, interior		Х	
and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door		X	
with standard hinge)			
At least 18" clear floor area on latch, pull side of		X	
door		<b></b>	
Door handle no higher than 48" and operable with a		x	
closed fist		^	
Vestibule is 4 ft plus the width of the door swinging		X	
into the space			
Entrance(s) on a level that makes elevators		+	N/A
accessible			
Door mats less than ½" thick are securely fastened	+		N/A
Door mats more than ½" thick are recessed	1		N/A
Grates in path of travel have openings of ½"	-	-	
			N/A
maximum			
Signs at non-accessible entrance(s) indicate direction		X	
to accessible entrance	1		
Emergency egress – alarms with flashing lights and		X	
audible signals, sufficiently lighted			

STAIRS and DOORS			
Specification	Yes	No	Comments/Transition Notes
Stairs			
No open risers			N/A
Nosings not projecting			N/A
Treads no less than 11" wide			N/A
Handrails on both sides			N/A
Handrails 34"-38" above tread			N/A
Handrail extends a minimum of I ft beyond top and bottom riser (if no safety hazard and space permits)			N/A
Handgrip oval or round			N/A
Handgrip has a smooth surface			N/A
Handgrip diameter between 11/4" and 11/2"			N/A
1½" clearance between wall and handrail			N/A
Minimum 32" clear opening			N/A
At least 18" clear floor space on pull side of door			N/A
Closing speed minimum 3 seconds to within 3" of the latch			N/A
Maximum pressure 5 pounds interior doors			N/A
Threshold maximum ½" high, beveled on both sides			N/A
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)			N/A
Hardware minimum 36", maximum 48" above the floor			N/A
Clear, level floor space extends out 5 ft from both sides of the door			N/A
Door adjacent to revolving door is accessible and unlocked			N/A
Doors opening into hazardous area have hardware that is knurled or roughened			N/A

LOCATION			
RESTROOMS – also see Doors and Vestibules	•		
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor			
At least one Sink:			
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width,			
and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring			
activated handle)			
At least one Stall:	1	ı	1
At least one stan.			
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
Tonet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars		1	
On back and side wall closest to toilet			
1¼" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures		1	
Toilet paper dispenser is 24" above floor			
One mirror set a maximum 38" to bottom (if tilted,			
42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			

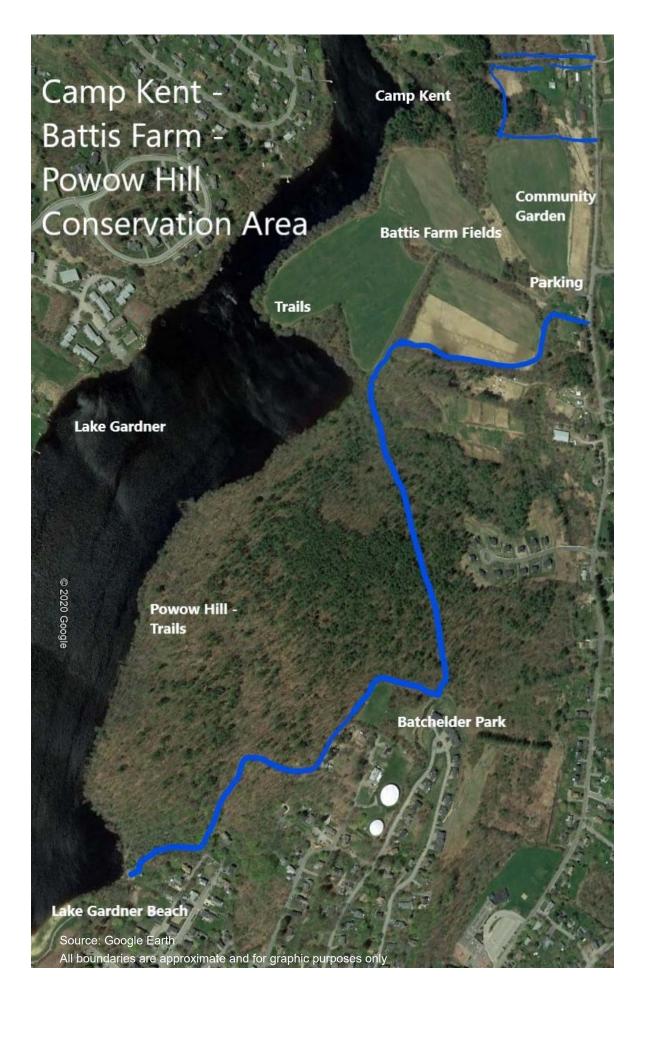
LOCATION FLOORS, DRINKING FOUNTAINS, TELEPH	ONES		
Specification	Yes	No	Comments/Transition Notes
Floors	7.03	1110	Commence Fransian Francis
Non-slip surface			N/A
Carpeting is high-density, low pile, non-absorbent,			N/A
stretched taut, securely anchored			
Corridor width minimum is 3 ft			N/A
Objects (signs, ceiling lights, fixtures) can only			N/A
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Drinking Fountains			
Spouts no higher than 36" from floor to outlet			N/A
Hand operated push button or level controls			N/A
Spouts located near front with stream of water as			N/A
parallel to front as possible			
If recessed, recess a minimum 30" width, and no			N/A
deeper than depth of fountain			
If no clear knee space underneath, clear floor space			N/A
30" x 48" to allow parallel approach			
Telephones			
Highest operating part a maximum 54" above the			N/A
floor			
Access within 12" of phone, 30" high by 30" wide			N/A
Adjustable volume control on headset so identified			N/A
SIGNS, SIGNALS, AND SWITCHES			
Specification	Yes	No	Comments/Transition Notes
Switches, Controls and Signs			
Switches and controls for light, heat, ventilation,			N/A
windows, fire alarms, thermostats, etc, must be a			
minimum of 36" and a maximum of 48" above the			
floor for a forward reach, a maximum of 54" for a			
side reach			
Electrical outlets centered no lower than 18" above			N/A
the floor			
Warning signals must be visual as well as audible			N/A
Signs			
Mounting height must be 60" to centerline of the			N/A
sign			
Within 18" of door jamb or recessed			N/A
Letters and numbers a t least 11/4" high			N/A
Letters and numbers raised .03"			N/A
Letters and numbers contrast with the background			N/A
color	1		

SWIMMING POOLS - accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides				
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

# LOCATION

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use				
Specification	Yes	No	Comments/Transition Notes	
Stalls 36" by 60" minimum, with a 36" door opening				
Floors are pitched to drain the stall at the corner farthest from entrance				
Floors are non-slip surface				
Controls operate by a single lever with a pressure balance mixing valve				
Controls are located on the center wall adjacent to the hinged seat				
Shower heads attached to a flexible metal hose				
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor				
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long				
Soap trays without handhold features unless they can support 250 pounds				
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar				
Grab bars are placed horizontally at 36" above the floor line				

PICNICKING			
Specification	Yes	No	Comments/Transition Notes
A minimum of 5% of the total tables must be			
accessible with clear space under the table top not			
less than 30" wide and 19" deep per seating space			
and not less than 27" clear from the ground to the			
underside of the table. An additional 29" clear			
space (totaling 48") must extend beyond the 19"			
clear space under the table to provide access			
For tables without toe clearance, the knee space			
under the table must be at least 28" high, 30" wide			
and 24" deep.			
Top of table no higher than 32" above ground			
Surface of the clear ground space under and around			
the table must be stable, firma nd slip-resistant, and			
evenly graded with a maximum slope of 2% in all			
directions			
Accessible tables, grills and fire rings must have clear			
ground space of at least 36" around the perimeter			



Facility Inventory LOCATION: Battis Farm

ACTIVITY	EQUIPMENT	NOTES				
	Tables & Benches	Located adjacent to accessible paths  No, bench is located next to the in-accessible trail				
	(No picnic tables, I bench on the trail)	Access to Open Spaces  Bench is on trail				
Picnic Facilities		Back and Arm Rests <b>N/A</b>				
		Adequate number no, I bench				
	Grills	Height of Cooking Surface <b>N/A</b>				
	N/A	Located adjacent to accessible paths <b>N/A</b>				
	Trash Cans 2 Trash Cans	Located adjacent to accessible paths Yes, trash cans located adjacent to parking lot paths				
	Picnic Shelters	Located adjacent to accessible paths <b>N/A</b>				
	N/A	Located near accessible water fountains, trash can, restroom, parking, etc. $\mathbf{N}/\mathbf{A}$				
Trails		Surface material Dirt, grass, mud, trails depending on location and season.				
		Dimensions Trail is of various widths				
		Rails <b>None</b>				
		Signage (for visually impaired) None				
	Pools	Entrance				
	FOOIS	Location from accessible parking				
Swimming Facilities		Safety features i.e. warning for visually impaired				
N/A	Beaches	Location from accessible path into water				
		Handrails				
		Location from accessible parking				
		Shade provided				
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	67 Same experience provided to all				
N/A	Access Routes	Located adjacent to accessible paths				
IVA		Enough space between equipment for wheelchair				
Game Areas:	Access Routes	Located adjacent to accessible paths				
*ballfield *basketball		Berm cuts onto courts				
*tennis		Height				

	Equipment	Dimensions				
N/A		Spectator Seating				
Boat Docks <b>N/A</b>	Access Routes	Located adjacent to accessible paths				
		Handrails				
	Access Routes	Located adjacent to accessible paths				
Fishing Facilities		Handrails				
N/A		Arm Rests				
N/A	Equipment	Bait Shelves				
	Handrails					
		Fish Cleaning Tables				
	Are special programs at	Learn-to-Swim <b>N/A</b>				
Programming	your facilities accessible?	Guided Hikes  Not accessible				
		Interpretive Programs  Not accessible				
Services and Technical	Information available in alterr	native formats i.e. for visually impaired <b>None</b>				
Assistance	Process to request interpreti	ve services (i.e. sign language interpreter) for meetings <b>None</b>				

PARKING					
Total Spaces.  Up to 25  26-50 Approx 27 spaces in unmarked dirt lot. No accessible spaces		Red	quired Accessible Spaces		
		l s	pace No accessible/marked spaces		
		2 s	paces		
51-75		3 s	paces		
76-100.		4 s	paces		
101-150		5 s	5 spaces		
151-200		6 s	paces		
201-300		7 s	paces		
301-400		8 s	paces		
401-500		9 s	paces		
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes		
Accessible space located closest to accessible entrance			No Accessible space		
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.			N/A		
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle			N/A - unmarked spaces		
Van space – minimum of I van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces II ft wide with 5 ft aisle.			N/A - unmarked spaces		
Sign with international symbol of accessibility at each space or pair of spaces		x			
Sign minimum 5 ft, maximum 8 ft to top of sign			N/A		
Surface evenly paved or hard-packed (no cracks)		x	Dirt/gravel parking lot with various indentations.		
Surface slope less than 1:20, 5%	x				
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present			N/A - no curbs		
Curbcut is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow			N/A - no curbs		
RAMPS			'		
Specification	Yes	No	Comments/Transition Notes		
Slope Maximum 1:12			No Ramps w/ Handrails present		

Minimum width 4 ft between handrails		
Handrails on both sides if ramp is longer than 6 ft		
Handrails at 34" and 19" from ramp surface		
Handrails extend 12" beyond top and bottom		
Handgrip oval or round		
Handgrip smooth surface		
Handgrip diameter between 1½" and 2"		
Clearance of 1½" between wall and wall rail		
Non-slip surface		
Level platforms (4ft $\times$ 4 ft) at every 30 ft, at top, at bottom, at change of direction		

SITE ACCESS, PATH OF TRAVEL, ENTRA	NCES	1	
Specification	Yes	No	Comments/Transition Notes
Site Access			
Accessible path of travel from passenger disembarking area and parking area to accessible entrance	x		Trails are not accessible; parking lot is unpaved and uneven
Disembarking area at accessible entrance		X	
Surface evenly paved or hard-packed		х	Dirt / Gravel lot
No ponding of water	x		None was visible
Path of Travel	ı		
Path does not require the use of stairs	x		
Path is stable, firm and slip resistant	x		Paths until the trail are all paved.
3 ft wide minimum	x		
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).	x		
Continuous common surface, no changes in level greater than ½ inch	x		
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		x	At the turnaround, the path is starting to recede into the forest
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"	x		
Curb on the pathway must have curb cuts at drives, parking and drop-offs	x		
Entrances			
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and <i>not</i> be the service entrance			N/A there are no building entrances
Level space extending 5 ft. from the door, interior and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door with standard hinge)			
At least 18" clear floor area on latch, pull side of door			
Door handle no higher than 48" and operable with a closed fist			
Vestibule is 4 ft plus the width of the door swinging into the space			

Entrance(s) on a level that makes elevators accessible		
Door mats less than ½" thick are securely fastened		
Door mats more than 1/2" thick are recessed		
Grates in path of travel have openings of ½" maximum		
Signs at non-accessible entrance(s) indicate direction to accessible entrance		
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		

STAIRS and DOORS			
Specification	Yes	No	Comments/Transition Notes
No open risers			No stairs
Nosings not projecting			
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of I ft beyond top and bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
Doors			
Minimum 32" clear opening			No doors
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of the latch			
Maximum pressure 5 pounds interior doors			
Threshold maximum ½" high, beveled on both sides			
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)			
Hardware minimum 36", maximum 48" above the floor			
Clear, level floor space extends out 5 ft from both sides of the door			
Door adjacent to revolving door is accessible and unlocked			
Doors opening into hazardous area have hardware that is knurled or roughened			

Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor		x	No built restrooms; seasonal portable toilets used
At least one Sink:			
Clear floor space of 30" by 48" to allow a forward approach		x	
Mounted without pedestal or legs, height 34" to top of rim		x	
Extends at least 22" from the wall		x	
Open knee space a minimum 19" deep, 30" width, and 27" high		x	
Cover exposed pipes with insulation		x	
Faucets operable with closed fist (lever or spring activated handle)		x	
At least one Stall:		<u> </u>	
Accessible to person using wheelchair at 60" wide by 72" deep		x	
Stall door is 36" wide		x	
Stall door swings out		x	
Stall door is self closing		x	
Stall door has a pull latch		x	
Lock on stall door is operable with a closed fist, and 32" above the floor		x	
Coat hook is 54" high		x	
Toilet			
18" from center to nearest side wall		x	
42" minimum clear space from center to farthest wall or fixture		x	
Top of seat 17"-19" above the floor		x	
Grab Bars			•
On back and side wall closest to toilet		x	
1 ¼" diameter		x	
1½" clearance to wall		x	
Located 30" above and parallel to the floor		x	
Acid-etched or roughened surface		x	
42" long		х	

Fixtures		
Toilet paper dispenser is 24" above floor	x	
One mirror set a maximum 38" to bottom (if tilted, 42")	x	
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor	x	

FLOORS, DRINKING FOUNTAINS, TELEPH	IONES			
Specification	Yes	No	Comments/Transition Notes	
Floors				
Non-slip surface			N/A	
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored				
Corridor width minimum is 3 ft				
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor				
Drinking Fountains				
Spouts no higher than 36" from floor to outlet			N/A	
Hand operated push button or level controls				
Spouts located near front with stream of water as parallel to front as possible				
If recessed, recess a minimum 30" width, and no deeper than depth of fountain				
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach				
Telephones	1			
Highest operating part a maximum 54" above the floor			N/A	
Access within 12" of phone, 30" high by 30" wide				
Adjustable volume control on headset so identified				
SIGNS, SIGNALS, AND SWITCHES				
Specification	Yes	No	Comments/Transition Notes	
Switches, Controls and Signs				
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the floor for a forward reach, a maximum of 54" for a side reach			N/A	
Electrical outlets centered no lower than 18" above the floor				
Warning signals must be visual as well as audible				
Signs	'			

Mounting height must be 60" to centerline of the sign		N/A
Within 18" of door jamb or recessed		
Letters and numbers a t least 11/4" high		
Letters and numbers raised .03"		
Letters and numbers contrast with the background color		

SWIMMING POOLS – accessibility can be vi	a ramp,	lifting	device, or transfer area
Specification	Yes	No	Comments/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			No Pools Present
Lifting device			
Transfer area 18" above the path of travel and a minimum of 18" wide			
Unobstructed path of travel not less than 48" wide around pool			
Non-slip surface			

SHOWER ROOMS - Showers must accommo	date b	oth w	neel-in and transfer use
Specification	Yes	No	Comments/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening			No Showers Present
Floors are pitched to drain the stall at the corner farthest from entrance			
Floors are non-slip surface			
Controls operate by a single lever with a pressure balance mixing valve			
Controls are located on the center wall adjacent to the hinged seat			
Shower heads attached to a flexible metal hose			
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor			
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long			
Soap trays without handhold features unless they can support 250 pounds			
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar			
Grab bars are placed horizontally at 36" above the floor line			

PICNICKING - No picnic tables present			
Specification	Yes	No	Comments/Transition Notes

A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access	N/A - no picnic tables present
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.	
Top of table no higher than 32" above ground	
Surface of the clear ground space under and around the table must be stable, firm and slipresistant, and evenly graded with a maximum slope of 2% in all directions	
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter	

# **Suggestions for Accessibility improvements:**

- While making the entire trail accessible is likely not possible, re-grading, packing dirt/gravel and making a smaller loop accessible should be doable.
- Add an accessible sign near the entry-sign
- Add benches and a picnic area near the parking lot would allow people of all abilities to enjoy the facilities.

Facility Inventory LOCATION: Cashman Elementary School

Facility inventory	LOCATION.	Cashman Elementary School				
ACTIVITY	EQUIPMENT	NOTES				
		Located adjacent to accessible paths				
	Tables & Benches	Access to Open Spaces				
	Tables & Beliciles	Back and Arm Rests				
		Adequate number				
Picnic Facilities	C :111:	Height of Cooking Surface				
Picnic Facilities	Grills	Located adjacent to accessible paths				
N/A	Trash Cans	Located adjacent to accessible paths				
N/A		Located adjacent to accessible paths				
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,				
		parking, etc.				
		Surface material				
<b>-</b>		Dimensions				
Trails		Rails				
NI/A		Signage (for visually impaired)				
N/A						
	Doolo	Entrance				
	Pools	Location from accessible parking				
C		Safety features i.e. warning for visually impaired				
Swimming Facilities		Location from accessible path into water				
NI/A	Beaches	Handrails				
N/A		Location from accessible parking				
		Shade provided				
Play Areas (tot	All Play Equipment i.e. swings, slides	Same experience provided to all <b>No</b>				
	Access Routes	Located adjacent to accessible paths Yes				
Play Areas (tot lots)  Game Areas: *ballfield (2x baseball, 1x	Access Noutes	Enough space between equipment for wheelchair				
Game Areas:	Access Routes	Located adjacent to accessible paths No				
*ballfield (2x		Berm cuts onto courts <b>No</b>				
		Height				
soccer)	Equipment	Dimensions				
*basketball *tennis		Spectator Seating No				
Boat Docks	Access Routes	Located adjacent to accessible paths				
BOAL DOCKS	Access Routes	Handrails				
N/A						
	Access Boutes	Located adjacent to accessible paths				
	Access Routes	Handrails				
Fishing Facilities		Arm Rests				
Fishing Facilities	Faviance	Bait Shelves				
N/A	Equipment	Handrails				
IVA		Fish Cleaning Tables				
		Learn-to-Swim				
Programming Are special programs at your facilities accessible?		Guided Hikes				
		Interpretive Programs				
Services and	Information available in alternati	ve formats i.e. for visually impaired				
Technical		services (i.e. sign language interpreter) for meetings				
Assistance	seess to request miter pretive	to meet (not orgin language inter proces) for intectings				

PARKING			1
Total Spaces		Reau	ired Accessible Spaces
Up to 25		I spa	
26-50		2 spa	
51-75		3 spa	
76-100		4 spa	
101-150 <b>101</b>		5 spa	
151-200		6 spa	
201-300		7 spa	
301-400		8 spa	
401-500		9 spa	
Specification for Accessible Spaces	Yes	No.	Comments/Transition Notes
Accessible space located closest to accessible entrance	X		
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.	X		
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle	X		
Van space – minimum of I van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces I I ft wide with 5 ft aisle.	X		
Sign with international symbol of accessibility at each	X		
space or pair of spaces			
Sign minimum 5 ft, maximum 8 ft to top of sign	X		
Surface evenly paved or hard-packed (no cracks)	X		
Surface slope less than 1:20, 5%	X		
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present	X		
Curbcut is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow RAMPS	x		
Specification	Yes	No	Comments/Transition Notes
Slope Maximum 1:12	X	740	Ramp to playground = adequate No ramp / accessible pathway to baseball and soccer fields
Minimum width 4 ft between handrails	X		
Handrails on both sides if ramp is longer than 6 ft	X		
Handrails at 34" and 19" from ramp surface	X		
Handrails extend 12" beyond top and bottom	X		
Handgrip oval or round	X		
Handgrip smooth surface	X		
Handgrip diameter between 11/4" and 2"	X		
Clearance of 11/2" between wall and wall rail	x		
Non-slip surface	X		
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction	X		

LOCATION			
SITE ACCESS, PATH OF TRAVEL, ENTRAN	CES		
Specification	Yes	No	Comments/Transition Notes
Site Access			
Accessible path of travel from passenger	X		Playground and tot lot = yes
disembarking area and parking area to accessible			Baseball and soccer fields = no accessible
entrance			path of travel
Disembarking area at accessible entrance	X		
Surface evenly paved or hard-packed	X		
No ponding of water	X		
Path of Travel			
Path does not require the use of stairs	X		Playground and tot lot = yes  Baseball and soccer fields = no accessible path of travel
Path is stable, firm and slip resistant	X		
3 ft wide minimum	X		
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).	X		
Continuous common surface, no changes in level greater than ½ inch	X		
Any objects protruding onto the pathway must be	X		
detected by a person with a visual disability using a			
cane			
Objects protruding more than 4" from the wall	X		
must be within 27" of the ground, or higher than 80"			
Curb on the pathway must have curb cuts at drives,	x		
parking and drop-offs	^		
Entrances			
Primary public entrances accessible to person using			N/A
wheelchair, must be signed, gotten to independently,			
and <i>not</i> be the service entrance			
Level space extending 5 ft. from the door, interior			
and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door			
with standard hinge)			
At least 18" clear floor area on latch, pull side of			
door			
Door handle no higher than 48" and operable with a			
closed fist			
Vestibule is 4 ft plus the width of the door swinging			
into the space		1	
Entrance(s) on a level that makes elevators accessible			
Door mats less than ½" thick are securely fastened			
Door mats more than 1/2" thick are recessed			
Grates in path of travel have openings of 1/2"			
maximum			
Signs at non-accessible entrance(s) indicate direction to accessible entrance			
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted			

STAIRS and DOORS				
Specification	Yes	No	Comments/Transition Notes	
Stairs				
No open risers			N/A	
Nosings not projecting				
Treads no less than II" wide				
Handrails on both sides				
Handrails 34"-38" above tread				
Handrail extends a minimum of 1 ft beyond top and				
bottom riser (if no safety hazard and space permits)				
Handgrip oval or round				
Handgrip has a smooth surface				
Handgrip diameter between 11/4" and 11/2"				
1½" clearance between wall and handrail				
Doors	•	•		
Minimum 32" clear opening			N/A	
At least 18" clear floor space on pull side of door				
Closing speed minimum 3 seconds to within 3" of				
the latch				
Maximum pressure 5 pounds interior doors	1			
Threshold maximum 1/2" high, beveled on both sides				
Hardware operable with a closed fist (no				
conventional door knobs or thumb latch devices)	1			
Hardware minimum 36", maximum 48" above the				
floor	1			
Clear, level floor space extends out 5 ft from both				
sides of the door	1			
Door adjacent to revolving door is accessible and				
unlocked	1			
Doors opening into hazardous area have hardware				
that is knurled or roughened				

DESTROOMS also as Dears and Vestibules	Pathyooms indoors at school, Pasaball field I		
RESTROOMS – also see Doors and Vestibules	Bath	rooms	s indoors at school; Baseball field bathroom
not accessible by pathways Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor	103	740	N/A
At least one Sink:		ı	IN/A
At least one sink.			
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width, and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring activated handle)			
At least one Stall:		ı	
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and 32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
I'/4" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			
One mirror set a maximum 38" to bottom (if tilted, 42")			
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor			

FLOORS, DRINKING FOUNTAINS, TELEPH	ONES		
Specification	Yes	No	Comments/Transition Notes
Floors	1	1 -	
Non-slip surface			N/A
Carpeting is high-density, low pile, non-absorbent,			
stretched taut, securely anchored			
Corridor width minimum is 3 ft			
Objects (signs, ceiling lights, fixtures) can only			
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Drinking Fountains			
Spouts no higher than 36" from floor to outlet			N/A
Hand operated push button or level controls			N/A
Spouts located near front with stream of water as			
parallel to front as possible			
If recessed, recess a minimum 30" width, and no			
deeper than depth of fountain			
If no clear knee space underneath, clear floor space			
30" x 48" to allow parallel approach			
Telephones	-1	1	1
•			
Highest operating part a maximum 54" above the			
floor			
Access within 12" of phone, 30" high by 30" wide			
Adjustable volume control on headset so identified			
SIGNS, SIGNALS, AND SWITCHES			
Charif and a	l V	NI.	L Comment Transition Market
Specification	Yes	No	Comments/Transition Notes
Switches, Controls and Signs			
Switches and controls for light, heat, ventilation,			N/A
windows, fire alarms, thermostats, etc, must be a			N/A
minimum of 36" and a maximum of 48" above the			
floor for a forward reach, a maximum of 54" for a			
side reach			
Electrical outlets centered no lower than 18" above			
the floor			
Warning signals must be visual as well as audible			
Signs		•	•
	_	ı	
Mounting height must be 60" to centerline of the	X		
sign			
Within 18" of door jamb or recessed	X		
Letters and numbers a t least 11/4" high	X		
Letters and numbers raised .03"	X		
Letters and numbers contrast with the background	X		

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			NA	
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

# LOCATION

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use				
Specification	Yes	No	Comments/Transition Notes	
Stalls 36" by 60" minimum, with a 36" door opening			N/A	
Floors are pitched to drain the stall at the corner				
farthest from entrance				
Floors are non-slip surface				
Controls operate by a single lever with a pressure				
balance mixing valve				
Controls are located on the center wall adjacent to				
the hinged seat				
Shower heads attached to a flexible metal hose				
Shower heads attached to wall mounting adjustable				
from 42" to 72" above the floor				
Seat is hinged and padded and at least 16" deep,				
folds upward, securely attached to side wall, height				
is 18" to the top of the seat, and at least 24" long				
Soap trays without handhold features unless they				
can support 250 pounds				
2 grab bars are provided, one 30" and one 48" long,				
or one continuous L shaped bar				
Grab bars are placed horizontally at 36" above the				
floor line				

PICNICKING			
Specification	Yes	No	Comments/Transition Notes
A minimum of 5% of the total tables must be			N/A
accessible with clear space under the table top not			
less than 30" wide and 19" deep per seating space			
and not less than 27" clear from the ground to the			
underside of the table. An additional 29" clear			
space (totaling 48") must extend beyond the 19"			
clear space under the table to provide access			
For tables without toe clearance, the knee space			
under the table must be at least 28" high, 30" wide			
and 24" deep.			
Top of table no higher than 32" above ground			
Surface of the clear ground space under and around			
the table must be stable, firma nd slip-resistant, and			
evenly graded with a maximum slope of 2% in all			
directions			
Accessible tables, grills and fire rings must have clear			
ground space of at least 36" around the perimeter			



**Facility Inventory** 

**LOCATION: Collins Avenue Park** 

Facility inventory		Collins Avenue Park						
ACTIVITY	EQUIPMENT	NOTES						
		Located adjacent to accessible paths - No						
	Tables (2) 9 Banches (5)	Access to Open Spaces - Yes						
	Tables (3) & Benches (5)	Back and Arm Rests – Backs on benches						
		Adequate number - Yes						
D: . E	6	Height of Cooking Surface						
Picnic Facilities	Grills	Located adjacent to accessible paths						
	Trash Cans	Located adjacent to accessible paths - No						
		Located adjacent to accessible paths						
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,						
Treme disease		parking, etc.						
		Surface material						
		Dimensions						
Trails		Rails						
N/A		Signage (for visually impaired)						
		Entrance						
	Pools	Location from accessible parking						
		Safety features i.e. warning for visually impaired						
Swimming Facilities		Location from accessible path into water						
-	D l	Handrails						
N/A	Beaches	Location from accessible parking						
		Shade provided						
DI A (1.1	All Play Equipment i.e. swings, slides	Same experience provided to all - Yes						
Play Areas (tot	A	Located adjacent to accessible paths - No Paths						
lots)	Access Routes	Enough space between equipment for wheelchair - Yes						
	A . B N	Located adjacent to accessible paths - No						
Game Areas: *ballfield (1)	Access Routes - None	Berm cuts onto courts – N/A						
*basketball `		Height – N/A						
*tennis	Equipment - Dugouts	Dimensions – N/A						
		Spectator Seating - None						
D D I 11/4		Located adjacent to accessible paths						
Boat Docks <b>N/A</b>	Access Routes	Handrails						
		Located adjacent to accessible paths						
	Access Routes	Handrails						
		Arm Rests						
Fishing Facilities		Bait Shelves						
	Equipment	Handrails						
N/A		Fish Cleaning Tables						
		rish Cleaning Tables						
		Learn-to-Swim						
Programming Are special programs at your facilities accessible?		Guided Hikes						
N/A		Interpretive Programs						
N/A								
Services and	Information available in alternation	alternative formats i.e. for visually impaired – No						
Technical	Process to request interpretive	Process to request interpretive services (i.e. sign language interpreter) for meetings - No						
Assistance	1. occas to request inter predict services (i.e. sign language interpreter) for meetings - 140							

PARKING			1		
171111111		-			
Total Spaces			ired Accessible Spaces		
Up to 25			I space - <b>Yes</b>		
26-50			2 spaces		
51-75			aces		
76-100		4 spa			
101-150		5 spa	aces		
151-200		6 spa	aces		
201-300		7 spa	aces		
301-400		8 spa	aces		
401-500		9 spa			
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes		
Accessible space located closest to accessible	7 03	X	No Accessible Entrance		
entrance		Λ	NO Accessible Entrance		
Where spaces cannot be located within 200 ft of		X			
		Λ			
accessible entrance, drop-off area is provided within					
100 ft.					
Minimum width of 13 ft includes 8 ft space plus 5 ft	X		Lane not marked		
access aisle					
Van space – minimum of I van space for every		X			
accessible space, 8 ft wide plus 8 ft aisle. Alternative					
is to make all accessible spaces 11 ft wide with 5 ft					
aisle.					
Sign with international symbol of accessibility at each	X				
space or pair of spaces					
Sign minimum 5 ft, maximum 8 ft to top of sign	X				
Surface evenly paved or hard-packed (no cracks)	X				
, , , , , , , , , , , , , , , , , , , ,	1				
Surface slope less than 1:20, 5%	X				
	1				
Curbcut to pathway from parking lot at each space		X			
or pair of spaces, if sidewalk (curb) is present		Λ			
Curbcut is a minimum width of 3 ft, excluding	-	X			
		А			
sloped sides, has sloped sides, all slopes not to					
exceed 1:12, and textured or painted yellow					
RAMPS	1 1/	1	I C I I I I I I I I I I I I I I I I I I		
Specification	Yes	No	Comments/Transition Notes		
Slope Maximum 1:12			N/A, no ramps		
Minimum width 4 ft between handrails					
Handrails on both sides if ramp is longer than 6 ft					
Handrails at 34" and 19" from ramp surface					
Handrails extend 12" beyond top and bottom					
Handgrip oval or round					
Handgrip smooth surface					
5 F					
Handgrip diameter between 11/4" and 2"			+		
Thansan p diameter between 174 and 2					
Clearance of 11/2" between wall and wall rail					
Non-slip surface					
Level platforms (4ft x 4 ft) at every 30 ft, at top, at					
bottom, at change of direction					

LOCATION SITE ACCESS, PATH OF TRAVEL, ENTRAN	CES		
Specification	Yes	No	Comments/Transition Notes
Site Access		1	
Accessible path of travel from passenger		X	
disembarking area and parking area to accessible			
entrance			
Disembarking area at accessible entrance		X	
Surface evenly paved or hard-packed		X	
, , , , , , , , , , , , , , , , , , , ,		1	
No ponding of water	X		
1 0			
Path of Travel			
Path does not require the use of stairs	X		
Path is stable, firm and slip resistant		X	
3 ft wide minimum		X	
Slope maximum 1:20 (5%) and maximum cross pitch		X	
is 2% (1:50).		_	
Continuous common surface, no changes in level		X	
greater than ½ inch			
Any objects protruding onto the pathway must be		X	
detected by a person with a visual disability using a			
cane			
Objects protruding more than 4" from the wall		X	
must be within 27" of the ground, or higher than			
80"			
Curb on the pathway must have curb cuts at drives,		X	
parking and drop-offs			
Entrances			
Primary public entrances accessible to person using			N/A; no entrances
wheelchair, must be signed, gotten to independently,			
and not be the service entrance			
Level space extending 5 ft. from the door, interior			
and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door			
with standard hinge)			
At least 18" clear floor area on latch, pull side of			
door	1		
Door handle no higher than 48" and operable with a			
closed fist			
Vestibule is 4 ft plus the width of the door swinging			
into the space	1		
Entrance(s) on a level that makes elevators			
accessible		-	
Door mats less than ½" thick are securely fastened	1		
Door mats more than ½" thick are recessed	1		
Grates in path of travel have openings of ½"			
maximum	1	-	
Signs at non-accessible entrance(s) indicate direction			
to accessible entrance  Emergency egress – alarms with flashing lights and	1		
audible signals, sufficiently lighted			

STAIRS and DOORS			
Specification	Yes	No	Comments/Transition Notes
Stairs	703	110	Comments/Transaon (Actes
No open risers			N/A; no stairs
Nosings not projecting			
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of I ft beyond top and			
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
Doors			
Minimum 32" clear opening			N/A; no doors
A. I 10"   G			
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of the latch			
Maximum pressure 5 pounds interior doors			
Threshold maximum ½" high, beveled on both sides			
Hardware operable with a closed fist (no			
conventional door knobs or thumb latch devices)			
Hardware minimum 36", maximum 48" above the			
floor			
Clear, level floor space extends out 5 ft from both			
sides of the door			
Door adjacent to revolving door is accessible and			
unlocked			
Doors opening into hazardous area have hardware			
that is knurled or roughened			

RESTROOMS – also see Doors and Vestibules			
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor	res	INO	
At least one Sink:			N/A; no restrooms
At least one Sink:			
Clear floor space of 30" by 48" to allow a forward			<u></u>
approach			
Mounted without pedestal or legs, height 34" to top			+
of rim			
Extends at least 22" from the wall		+	
Open knee space a minimum 19" deep, 30" width,			
and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring			
activated handle)			
At least one Stall:			
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
1¼" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			
One mirror set a maximum 38" to bottom (if tilted,			
42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			
	1		

FLOCATION FLOORS, DRINKING FOUNTAINS, TELEPH	ONIES		
· · · · · · · · · · · · · · · · · · ·	_	1	C IT III N
Specification	Yes	No	Comments/Transition Notes
Floors			
Non-slip surface			N/A; no floors
Carpeting is high-density, low pile, non-absorbent,			
stretched taut, securely anchored			
Corridor width minimum is 3 ft			
Objects (signs, ceiling lights, fixtures) can only			
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Drinking Fountains		1	
•			
Spouts no higher than 36" from floor to outlet			N/A; no drinking fountains
Hand operated push button or level controls			i way no a mang roundant
Spouts located near front with stream of water as			
parallel to front as possible			
If recessed, recess a minimum 30" width, and no			
deeper than depth of fountain			
If no clear knee space underneath, clear floor space		-	
30" x 48" to allow parallel approach			
Telephones			
Lichard an antique and a manifesture FA" above the			NI/A . I I
Highest operating part a maximum 54" above the floor			N/A; no telephones
		-	
Access within 12" of phone, 30" high by 30" wide			
Adjustable volume control on headset so identified			
SIGNS, SIGNALS, AND SWITCHES			
C: 10 11	T 1/2	T	T. C. M.
Specification	Yes	No	Comments/Transition Notes
Switches, Controls and Signs			
	1	1	
Switches and controls for light, heat, ventilation,			
windows, fire alarms, thermostats, etc, must be a			
minimum of 36" and a maximum of 48" above the			
floor for a forward reach, a maximum of 54" for a			
side reach			
Electrical outlets centered no lower than 18" above			
the floor			
Warning signals must be visual as well as audible			
Signs	•		
Mounting height must be 60" to centerline of the	X		
sign			
Within 18" of door jamb or recessed	X	1	
Letters and numbers a t least 11/4" high	X	1	
Letters and numbers raised .03"	X	1	
Letters and numbers contrast with the background	X	1	
color			

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			N/A; no swimming pools	
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

# LOCATION

<b>SHOWER ROOMS - Showers must accommod</b>	late bo	th whe	eel-in and transfer use
Specification	Yes	No	Comments/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening			N/A; no shower rooms
Floors are pitched to drain the stall at the corner farthest from entrance			
Floors are non-slip surface			
Controls operate by a single lever with a pressure balance mixing valve			
Controls are located on the center wall adjacent to the hinged seat			
Shower heads attached to a flexible metal hose			
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor			
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long			
Soap trays without handhold features unless they can support 250 pounds			
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar			
Grab bars are placed horizontally at 36" above the floor line			

PICNICKING					
Specification	Yes	No	Comments/Transition Notes		
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		X			
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.	X				
Top of table no higher than 32" above ground	X				
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		X			
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		X			



Facility Inventory LOCATION: Deer Island

Facility Inventory	LOCATION:				
ACTIVITY	EQUIPMENT	NOTES			
	Tables & Benches	Located adjacent to accessible paths			
		Access to Open Spaces			
	Tables & Belienes	Back and Arm Rests			
		Adequate number			
Picnic Facilities	Crille	Height of Cooking Surface			
Picnic Facilities	Grills	Located adjacent to accessible paths			
None	Trash Cans	Located adjacent to accessible paths			
Hone	Picnic Shelters	Located adjacent to accessible paths			
		Located near accessible water fountains, trash can, restroom,			
		parking, etc.			
		Surface material No			
Trails		Dimensions No			
Iralis		Rails No			
		Signage (for visually impaired) No			
	Pools	Entrance			
		Location from accessible parking			
		Safety features i.e. warning for visually impaired			
Swimming Facilities		Location from accessible path into water			
		Handrails			
N/A	Beaches	Location from accessible parking			
		Shade provided			
	All Play Equipment i.e. swings, slides	Same experience provided to all			
Play Areas (tot lots)	A D	Located adjacent to accessible paths			
N/A	Access Routes	Enough space between equipment for wheelchair			
Game Areas:	Access Routes	Located adjacent to accessible paths			
*ballfield		Berm cuts onto courts			
*basketball	Equipment	Height			
*tennis		Dimensions			
		Spectator Seating			
N/A					
Boat Docks	Access Routes	Located adjacent to accessible paths			
	, today itages	Handrails			
N/A		Located adjacent to accessible path -			
	Access Routes	Located adjacent to accessible paths  Handrails			
Fishing Facilities	Equipment -	Arm Rests			
-		Bait Shelves Handrails			
N/A		Fish Cleaning Tables			
		Fish Cleaning Tables			
Programming	Are special programs at your facilities accessible?	Learn-to-Swim			
		Guided Hikes			
		Interpretive Programs			
N/A Services and	1.6	· Committee Control of the street			
Technical	Information available in alternative formats i.e. for visually impaired				
Assistance	Process to request interpretive services (i.e. sign language interpreter) for meetings				
- soliculated					

LOCATION PARKING					
		I n	in I Aill. Chann		
Total Spaces		Required Accessible Spaces			
Up to 25 <b>X</b>		I space No marked spots			
26-50		2 spaces			
51-75		3 spaces			
76-100		4 spaces			
101-150		5 spaces			
151-200		6 spaces			
201-300		7 spaces			
301-400		8 spaces			
401-500	1-500		9 spaces		
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes		
Accessible space located closest to accessible			Unmarked, unpaved parking lot		
entrance			omnarked, unpaved parking for		
Where spaces cannot be located within 200 ft of					
accessible entrance, drop-off area is provided within					
100 ft.					
Minimum width of 13 ft includes 8 ft space plus 5 ft		1			
access aisle					
	1	1			
Van space – minimum of I van space for every		1			
accessible space, 8 ft wide plus 8 ft aisle. Alternative					
is to make all accessible spaces 11 ft wide with 5 ft					
aisle.					
Sign with international symbol of accessibility at each					
space or pair of spaces					
Sign minimum 5 ft, maximum 8 ft to top of sign					
Surface evenly paved or hard-packed (no cracks)					
Surface slope less than 1:20, 5%					
Curbcut to pathway from parking lot at each space					
or pair of spaces, if sidewalk (curb) is present					
Curbcut is a minimum width of 3 ft, excluding					
sloped sides, has sloped sides, all slopes not to					
exceed 1:12, and textured or painted yellow					
RAMPS	1				
Specification	Yes	No	Comments/Transition Notes		
Slope Maximum 1:12	1	1	N/A		
Sopo : Inclinent 1112					
Minimum width 4 ft between handrails	1	1			
This is a second of the second					
Handrails on both sides if ramp is longer than 6 ft	1	1	+		
Handrails on both sides if ramp is longer than 8 it  Handrails at 34" and 19" from ramp surface	-	+			
	<del>                                     </del>	1			
Handrails extend 12" beyond top and bottom	-	-			
Handgrip oval or round	1	<u> </u>			
Handgrip smooth surface					
	ļ	1			
Handgrip diameter between 11/4" and 2"					
Clearance of 11/2" between wall and wall rail	<u> </u>	<u> </u>			
Non-slip surface					
Level platforms (4ft x 4 ft) at every 30 ft, at top, at					
bottom, at change of direction					
=	•		•		

SITE ACCESS, PATH OF TRAVEL, ENTRANG	^FS		
Specification	Yes	No	Comments/Transition Notes
Site Access	763	110	Comments/Translation Protes
Accessible path of travel from passenger		Х	
disembarking area and parking area to accessible		^	
entrance			
Disembarking area at accessible entrance		х	
Surface evenly paved or hard-packed		$\hat{\mathbf{x}}$	
Surface evenity paved of hard packed		^	
No ponding of water		×	
The perioding of Water			
Path of Travel			
Path does not require the use of stairs		Х	
Path is stable, firm and slip resistant		X	
3 ft wide minimum		X	
Slope maximum 1:20 (5%) and maximum cross pitch		X	
is 2% (1:50).		[	
Continuous common surface, no changes in level		X	
greater than ½ inch			
Any objects protruding onto the pathway must be		х	
detected by a person with a visual disability using a			
cane			
Objects protruding more than 4" from the wall		X	
must be within 27" of the ground, or higher than			
80"			
Curb on the pathway must have curb cuts at drives,		Х	
parking and drop-offs			
Entrances			
Primary public entrances accessible to person using			N/A
wheelchair, must be signed, gotten to independently,			
and not be the service entrance			
Level space extending 5 ft. from the door, interior			
and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door			
with standard hinge)			
At least 18" clear floor area on latch, pull side of			
door		1	
Door handle no higher than 48" and operable with a			
closed fist			
Vestibule is 4 ft plus the width of the door swinging			
into the space	-		
Entrance(s) on a level that makes elevators			
accessible  Door mats less than ½" thick are securely fastened		1	<u> </u>
		1	
Door mats more than ½" thick are recessed		-	<u> </u>
Grates in path of travel have openings of ½" maximum			
	-	-	
Signs at non-accessible entrance(s) indicate direction to accessible entrance			
Emergency egress – alarms with flashing lights and	-	-	
audible signals, sufficiently lighted			
audible signals, sufficiently lighted			

STAIRS and DOORS				
Specification	Yes	No	Comments/Transition Notes	
Stairs				
No open risers			N/A	
Nosings not projecting				
Treads no less than II" wide				
Handrails on both sides				
Handrails 34"-38" above tread				
Handrail extends a minimum of 1 ft beyond top and				
bottom riser (if no safety hazard and space permits)				
Handgrip oval or round				
Handgrip has a smooth surface				
Handgrip diameter between 11/4" and 11/2"				
1½" clearance between wall and handrail				
Doors	•	•		
Minimum 32" clear opening			N/A	
At least 18" clear floor space on pull side of door				
Closing speed minimum 3 seconds to within 3" of				
the latch				
Maximum pressure 5 pounds interior doors	1			
Threshold maximum 1/2" high, beveled on both sides				
Hardware operable with a closed fist (no				
conventional door knobs or thumb latch devices)	1			
Hardware minimum 36", maximum 48" above the				
floor	1			
Clear, level floor space extends out 5 ft from both				
sides of the door	1			
Door adjacent to revolving door is accessible and				
unlocked	1			
Doors opening into hazardous area have hardware				
that is knurled or roughened				

Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor	1.00	1.10	N/A
At least one Sink:	I		
Clear floor space of 30" by 48" to allow a forward			N/A
approach			N/A
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width, and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring activated handle)			
At least one Stall:	•		
Accessible to person using wheelchair at 60" wide			N/A
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			N/A
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
l'¼" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			N/A
One mirror set a maximum 38" to bottom (if tilted,			
42")			

<u>LOCATION</u> FLOORS, DRINKING FOUNTAINS, TELEPH	ONES		
pecification	Yes	No	Comments/Transition Notes
oors			
Non-slip surface			N/A
Carpeting is high-density, low pile, non-absorbent,			
tretched taut, securely anchored			
Corridor width minimum is 3 ft			
Objects (signs, ceiling lights, fixtures) can only			
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Orinking Fountains	•		
pouts no higher than 36" from floor to outlet			N/A
Hand operated push button or level controls			
Spouts located near front with stream of water as			
parallel to front as possible			
If recessed, recess a minimum 30" width, and no			
deeper than depth of fountain			
If no clear knee space underneath, clear floor space			
30" x 48" to allow parallel approach			
Telephones			
Highest operating part a maximum 54" above the			N/A
floor			
Access within 12" of phone, 30" high by 30" wide			
Adjustable volume control on headset so identified			
SIGNS, SIGNALS, AND SWITCHES			
pecification	Yes	No	Comments/Transition Notes
witches, Controls and Signs			
witches and controls for light, heat, ventilation,			N/A
vindows, fire alarms, thermostats, etc, must be a			
minimum of 36" and a maximum of 48" above the			
loor for a forward reach, a maximum of 54" for a			
side reach			
Electrical outlets centered no lower than 18" above			
he floor			
Warning signals must be visual as well as audible			
Mounting height must be 60" to centerline of the			N/A
sign			
Within 18" of door jamb or recessed			
Letters and numbers a t least 11/4" high			
Letters and numbers raised .03"			
Letters and numbers contrast with the background			
color			

SWIMMING POOLS - accessibility can be via ramp, lifting device, or transfer area						
Specification	Yes	No	Comments/Transition Notes			
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			N/A			
Lifting device						
Transfer area 18" above the path of travel and a minimum of 18" wide						
Unobstructed path of travel not less than 48" wide around pool						
Non-slip surface						

## LOCATION

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use					
Specification	Yes	No	Comments/Transition Notes		
Stalls 36" by 60" minimum, with a 36" door opening			N/A		
Floors are pitched to drain the stall at the corner					
farthest from entrance					
Floors are non-slip surface					
Controls operate by a single lever with a pressure					
balance mixing valve					
Controls are located on the center wall adjacent to					
the hinged seat					
Shower heads attached to a flexible metal hose					
Shower heads attached to wall mounting adjustable					
from 42" to 72" above the floor					
Seat is hinged and padded and at least 16" deep,					
folds upward, securely attached to side wall, height					
is 18" to the top of the seat, and at least 24" long					
Soap trays without handhold features unless they					
can support 250 pounds					
2 grab bars are provided, one 30" and one 48" long,					
or one continuous L shaped bar					
Grab bars are placed horizontally at 36" above the					
floor line					

PICNICKING						
Specification	Yes	No	Comments/Transition Notes			
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access			N/A			
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.						
Top of table no higher than 32" above ground						
Surface of the clear ground space under and around the table must be stable, firma nd slip-resistant, and evenly graded with a maximum slope of 2% in all directions						
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter						



**Facility Inventory** 

LOCATION: Lake Gardner Parking lot and beach

Facility Inv	entory	LATION: Lake Gardner Parking lot and beach					
ACTIVITY	EQUIPMENT	NOTES					
	Tables & Benches	Located adjacent to accessible paths Yes, benches next to paved path					
Picnic Facilities	(No picnic tables, 4 benches)	Access to Open Spaces Yes, overlooking beach					
		Back and Arm Rests N/A					
		Adequate number 4 benches					
Grills		Height of Cooking Surface <b>N/A</b>					
	N/A	Located adjacent to accessible paths N/A					
	Trash Cans 4 Trash Canes	Located adjacent to accessible paths Yes, trash can located adjacent to paved paths					
	B: : Cl . I.	Located adjacent to accessible paths N/A					
	Picnic Shelters N/A	Located near accessible water fountains, trash can, restroom, parking, etc. <b>N/A</b>					
Trails		Surface material Paved path, in various stages of disrepair. Transitions to grass / dirt trail with wooden elevated paths.					
		Dimensions Paved path is about 4ft wide Trail is of various widths					
		Rails None on paved or trail					
		Signage (for visually impaired) None					
	Pools N/A	Entrance					
		Location from accessible parking					
Swimming Facilities		Safety features i.e. warning for visually impaired					
	Beaches	Location from accessible path into water  There is a paved path to the water, but it is behind a chain and the path is too steep to be accessible (14 degrees at points)					
		Handrails No handrails to beach					
		Location from accessible parking If path was usable, it would be accessible from accessible parking					
		Shade provided Some shade is provided by a single tree on the beach.					
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	Same experience provided to all					
N/A	Access Routes	Located adjacent to accessible paths					
		Enough space between equipment for wheelchair					
		Located adjacent to accessible paths					
	<del></del>	•					

Game Areas: *ballfield	Access Routes	Berm cuts onto courts					
*basketball *tennis		Height					
N/A	Equipment	Dimensions					
1 1		Spectator Seating					
Boat Docks	Access Routes	Located adjacent to accessible paths					
		Handrails					
N/A							
Fishing Facilities	Access Routes	Located adjacent to accessible paths Fishing is generally done from the grassy areas away from the parking lot, not accessible.					
		Handrails <b>None</b>					
	Equipment <b>N/A</b>	Arm Rests					
		Bait Shelves					
		Handrails					
		Fish Cleaning Tables					
	Are special programs at	Learn-to-Swim Not accessible					
Programming	your facilities accessible?	Guided Hikes Not accessible					
		Interpretive Programs Not accessible					
Services and Technical Assistance	Information available in alter	rnative formats i.e. for visually impaired <b>None</b>					
	Process to request interpret	erpretive services (i.e. sign language interpreter) for meetings <b>None</b>					

PARKING		1	
Total Spaces.		Red	quired Accessible Spaces
<b>ΛΤΙΦ</b> to 25		l s	pace
26-50		2 s	paces
51-75		3 s	paces <b>X</b>
76-100. <b>97</b>		4 s	paces
101-150		5 s	paces
151-200		6 s	paces
201-300		7 s	paces
301-400		8 s	paces
401-500		9 s	paces
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes
Accessible space located closest to accessible entrance	x		Accessible area of Lake Gardner is t trail above the beach, I spot is close that trail, 2 other spots are on the o side of the parking lot.
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.			There is a drop off area near the bear entrance, but it has a steep granite of
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle		x	Spaces are of varying widths.
Van space – minimum of I van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces II ft wide with 5 ft aisle.		x	
Sign with international symbol of accessibility at each space or pair of spaces	x		
Sign minimum 5 ft, maximum 8 ft to top of sign	x		
Surface evenly paved or hard-packed (no cracks)		x	Pavement is in disrepair.
Surface slope less than 1:20, 5%	x		
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present	x		Curbcub is present however, paved a falling apart.
Curbcut is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow		x	Measured II degree slope at one spa 9 degrees at another
RAMPS	_1		
Specification	Yes	No	Comments/Transition Notes
		i	ļ

	Handrails on both sides if ramp is longer than 6 ft		
	Handrails at 34" and 19" from ramp surface		
LOC	ATIO Handrails extend 12" beyond top and bottom		
	Handgrip oval or round		
	Handgrip smooth surface		
	Handgrip diameter between 11/4" and 2"		
	Clearance of 1½" between wall and wall rail		
	Non-slip surface		
	Level platforms (4ft $\times$ 4 ft) at every 30 ft, at top, at bottom, at change of direction		

Specification	Yes	No	Comments/Transition Notes
ATRIXE Access	l		
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		x	Slope from disembarking area to sidewalk is a steep 14 degrees angled granite curve.
Disembarking area at accessible entrance		x	
Surface evenly paved or hard-packed	x		Paved areas are in somewhat disrepa
No ponding of water	x		None was visible
Path of Travel		<u> </u>	L
Path does not require the use of stairs	x		
Path is stable, firm and slip resistant	x		Paths until the trail are all paved.
3 ft wide minimum	x		
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).	x		
Continuous common surface, no changes in level greater than $\frac{1}{2}$ inch	x		
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		x	At the turnaround, the path is startito recede into the forest
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"	x		
Curb on the pathway must have curb cuts at drives, parking and drop-offs	x		
Entrances			
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and <i>not</i> be the service entrance			N/A there are no building entrances
Level space extending 5 ft. from the door, interior and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door with standard hinge)			
At least 18" clear floor area on latch, pull side of door			
Door handle no higher than 48" and operable with a closed fist			
Vestibule is 4 ft plus the width of the door swinging into the space			
Entrance(s) on a level that makes elevators accessible			
Door mats less than $\frac{1}{2}$ " thick are securely fastened			

	Grates in path of travel have openings of ½" maximum		
LOC	Signs at non-accessible entrance(s) indicate  ATLO ection to accessible entrance		
	Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		

	STAIRS and DOORS			
	Specification	Yes	No	Comments/Transition Notes
LOC	ATIO			
	No open risers			No stairs or doors
	Nosings not projecting			
	Treads no less than 11" wide			
	Handrails on both sides			
	Handrails 34"-38" above tread			
	Handrail extends a minimum of I ft beyond top and bottom riser (if no safety hazard and space permits)			
	Handgrip oval or round			
	Handgrip has a smooth surface			
	Handgrip diameter between 11/4" and 11/2"			
	1½" clearance between wall and handrail			
	Doors			
	Minimum 32" clear opening			
	At least 18" clear floor space on pull side of door			
	Closing speed minimum 3 seconds to within 3" of the latch			
	Maximum pressure 5 pounds interior doors			
	Threshold maximum ½" high, beveled on both sides			
	Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)			
	Hardware minimum 36", maximum 48" above the floor			
	Clear, level floor space extends out 5 ft from both sides of the door			
	Door adjacent to revolving door is accessible and unlocked			
	Doors opening into hazardous area have hardware that is knurled or roughened			

Specification	Yes	No	Comments/Transition Notes				
ATEO t turning space measured 12" from the floor			Restrooms are not open, nor availabl for use; if open, not fully accessible, p DPW				
At least one Sink:							
Clear floor space of 30" by 48" to allow a forward approach							
Mounted without pedestal or legs, height 34" to top of rim							
Extends at least 22" from the wall							
Open knee space a minimum 19" deep, 30" width, and 27" high							
Cover exposed pipes with insulation							
Faucets operable with closed fist (lever or spring activated handle)							
At least one Stall:							
Accessible to person using wheelchair at 60" wide by 72" deep							
Stall door is 36" wide							
Stall door swings out							
Stall door is self closing							
Stall door has a pull latch							
Lock on stall door is operable with a closed fist, and 32" above the floor							
Coat hook is 54" high							
Toilet							
18" from center to nearest side wall							
42" minimum clear space from center to farthest wall or fixture							
Top of seat 17"-19" above the floor							
Grab Bars							
On back and side wall closest to toilet							
11/4" diameter							
1½" clearance to wall							
Located 30" above and parallel to the floor							

	42" long		
	Fixtures		
LOC	ATIO Toilet paper dispenser is 24" above floor		
	One mirror set a maximum 38" to bottom (if tilted, 42")		
	Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

Yes	No	Comments/Transition Notes		
1				
		Bathrooms not available for assessr		
		No drinking fountains present		
Telephones				
		No telephones present		
Yes	N 0	Comments/Transition Notes		
		1		
		Bathrooms not available for assessr		
		Yes N		

	Letters and numbers a t least 11/4" high		
	Letters and numbers raised .03"		
LOC	ATIO Letters and numbers contrast with the background color		

SWIMMING POOLS - accessibility can be via ramp, lifting device, or transfer area						
Specification	Yes	No	Comments/Transition Notes			
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			No Pools Present			
Lifting device						
Transfer area 18" above the path of travel and a minimum of 18" wide						
Unobstructed path of travel not less than 48" wide around pool						
Non-slip surface						

SHOWER ROOMS - Showers must accommo	date b	oth w	heel-in and transfer use
pecification	Yes	No	Comments/Transition Notes
stalls 36" by 60" minimum, with a 36" door opening			No Showers Present
floors are pitched to drain the stall at the corner arthest from entrance			
loors are non-slip surface			
Controls operate by a single lever with a pressure valance mixing valve			
Controls are located on the center wall adjacent o the hinged seat			
hower heads attached to a flexible metal hose			
shower heads attached to wall mounting djustable from 42" to 72" above the floor			
leat is hinged and padded and at least 16" deep, olds upward, securely attached to side wall, leight is 18" to the top of the seat, and at least 14" long			
coap trays without handhold features unless they can support 250 pounds			
grab bars are provided, one 30" and one 48" ong, or one continuous L shaped bar			
Grab bars are placed horizontally at 36" above he floor line			

PICNICKING - No picnic tables present						
Specification	Yes	N 0	Comments/Transition Notes			
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access			N/A - no picnic tables present			
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.						
Top of table no higher than 32" above ground						
Surface of the clear ground space under and around the table must be stable, firm and slipresistant, and evenly graded with a maximum slope of 2% in all directions						
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter						



### Suggestions for Accessibility improvements:

- Repair and resize the handicap spaces and add at least I additional space
- Re-grade and add appropriate hand-rail on the path down to the beach.
- Repair and re-grade the path above the beach, keep clean of debris and protruding branches
- Provide "turn-offs" w/ accessible benches further down the path to provide areas away from the main (sometimes crowded) beach area.
- Make the steep granite-curb ramp at the drop-off area accessible
- Repair and re-open the restroom.













**Facility Inventory** 

**LOCATION: Batchelder Park and Powwow Hill Trails** 

ACTIVITY	EQUIPMENT	NOTES				
	Tables & Benches I Bench at Batchelder park	Located adjacent to accessible paths  No, no part of Batchelder Park is accessible				
		Access to Open Spaces  Bench is on trail				
Picnic Facilities		Back and Arm Rests <b>N/A</b>				
		Adequate number no, I bench				
	Grills	Height of Cooking Surface <b>N/A</b>				
	N/A	Located adjacent to accessible paths N/A				
	Trash Cans I <b>Trash Can</b>	Located adjacent to accessible paths  No, no part of Batchelder park is accessible				
	Picnic Shelters	Located adjacent to accessible paths N/A				
	N/A	Located near accessible water fountains, trash can, restroom, parking, etc. <b>N/A</b>				
Trails		Surface material Dirt, grass, mud, trails depending on location and season				
		Dimensions Trail is of various widths				
		Rails None				
		Signage (for visually impaired) None				
	Pools	Entrance				
		Location from accessible parking				
Swimming Facilities		Safety features i.e. warning for visually impaired				
N/A	Beaches	Location from accessible path into water				
	2000.00	Handrails				
		Location from accessible parking				
		Shade provided				
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	67 Same experience provided to all				
,	Access Routes	Located adjacent to accessible paths				
N/A		Enough space between equipment for wheelchair				
Game Areas:	Access Routes	Located adjacent to accessible paths				
*ballfield *basketball		Berm cuts onto courts				
*tennis		Height				

	Equipment	Dimensions					
N/A		Spectator Seating					
Boat Docks <b>N/A</b>	Access Routes	Located adjacent to accessible paths					
		Handrails					
	Access Routes	Located adjacent to accessible paths					
Fishing Facilities		Handrails					
N/A		Arm Rests					
N/A	Equipment	Bait Shelves					
		Handrails					
		Fish Cleaning Tables					
		Learn-to-Swim <b>N/A</b>					
Programming	Are special programs at your facilities accessible?	Guided Hikes Not accessible					
		Interpretive Programs Not accessible					
Services and Technical	Information available in altern	ative formats i.e. for visually impaired <b>None</b>					
Assistance	Process to request interpretive	ve services (i.e. sign language interpreter) for meetings <b>None</b>					

PARKING			
Total Spaces.	otal Spaces.		
Up to 25 Approx 4 spaces, not labeled	I space No marked spaces		
26-50	-50		
51-75	-75		
76-100.		4 s	paces
101-150		5 s	paces
151-200		6 s	paces
201-300		7 s	paces
301-400		8 s	paces
401-500		9 s	paces
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes
Accessible space located closest to accessible entrance		x	No accessible parking space
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.			N/A
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle			N/A - unmarked spaces
Van space – minimum of I van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces II ft wide with 5 ft aisle.			N/A - unmarked spaces
Sign with international symbol of accessibility at each space or pair of spaces		x	
Sign minimum 5 ft, maximum 8 ft to top of sign			N/A
Surface evenly paved or hard-packed (no cracks)		x	Part paved, part dirt/gravel parking lot with various indentations.
Surface slope less than 1:20, 5%	x		
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present			N/A - no curbs
Curbcut is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow			N/A - no curbs
RAMPS		1	•
Specification	Yes	No	Comments/Transition Notes
Slope Maximum 1:12			No Ramps present
Minimum width 4 ft between handrails			

Handrails on both sides if ramp is longer than 6 ft		
Handrails at 34" and 19" from ramp surface		
Handrails extend 12" beyond top and bottom		
Handgrip oval or round		
Handgrip smooth surface		
Handgrip diameter between 11/4" and 2"		
Clearance of 11/2" between wall and wall rail		
Non-slip surface		
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction		

Specification	Yes	N	Comments/Transition Notes
		0	
Site Access			
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		x	There are 2 steps from the parking lot Batchedler park.
Disembarking area at accessible entrance		x	
Surface evenly paved or hard-packed		x	Dirt / Gravel lot
No ponding of water	x		None was visible
Path of Travel			
Path does not require the use of stairs		x	Pathway from lot has no stairs
Path is stable, firm and slip resistant		x	Path at the park are grass, trails are dirt/mud
3 ft wide minimum	x		Trails are of varying widths
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		x	Path to park is relatively flat but trails range from flat to very steep.
Continuous common surface, no changes in level greater than $\frac{1}{2}$ inch		x	Trails have steps up to boardwalk area over wetland
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		x	Trails have branches/etc projecting int the path of travel.
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		x	
Curb on the pathway must have curb cuts at drives, parking and drop-offs			N/A - no curbs
Entrances	•	•	
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and <i>not</i> be the service entrance			N/A there are no building entrances
Level space extending 5 ft. from the door, interior and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door with standard hinge)			
At least 18" clear floor area on latch, pull side of door			
Door handle no higher than 48" and operable with a closed fist			
Vestibule is 4 ft plus the width of the door swinging into the space			
Entrance(s) on a level that makes elevators accessible			

Door mats less than ½" thick are securely fastened		
Door mats more than ½" thick are recessed		
Grates in path of travel have openings of ½" maximum		
Signs at non-accessible entrance(s) indicate direction to accessible entrance		
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		

basification	V	N-	Commontal Transition Notes
pecification	Yes	No	Comments/Transition Notes
No open risers			No stairs or doors
Nosings not projecting			
reads no less than 11" wide			
dandrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of I ft beyond top nd bottom riser (if no safety hazard and space ermits)			
landgrip oval or round			
landgrip has a smooth surface			
landgrip diameter between 11/4" and 11/2"			
½" clearance between wall and handrail			
Doors			
1inimum 32" clear opening			
at least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of he latch			
1aximum pressure 5 pounds interior doors			
hreshold maximum ½" high, beveled on both ides			
dardware operable with a closed fist (no onventional door knobs or thumb latch devices)			
dardware minimum 36", maximum 48" above the oor			
Clear, level floor space extends out 5 ft from both ides of the door			
Poor adjacent to revolving door is accessible and nlocked			
Doors opening into hazardous area have ardware hat is knurled or roughened			

pecification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor			No restrooms
At least one Sink:			1
Clear floor space of 30" by 48" to allow a forward approach			
Mounted without pedestal or legs, height 34" to top of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width, and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring activated handle)			
At least one Stall:		-	
Accessible to person using wheelchair at 60" wide by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and 32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
I 1/4" diameter			
I ½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			

Fixtures		
Toilet paper dispenser is 24" above floor		
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES						
Specification	Yes	No	Comments/Transition Notes			
Floors						
Non-slip surface			No facilities present			
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored						
Corridor width minimum is 3 ft						
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor						
Drinking Fountains						
Spouts no higher than 36" from floor to outlet			N/A			
Hand operated push button or level controls						
Spouts located near front with stream of water as parallel to front as possible						
If recessed, recess a minimum 30" width, and no deeper than depth of fountain						
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach						
Telephones						
Highest operating part a maximum 54" above the floor			N/A			
Access within 12" of phone, 30" high by 30" wide						
Adjustable volume control on headset so identified						
SIGNS, SIGNALS, AND SWITCHES						
Specification	Yes	No	Comments/Transition Notes			
Switches, Controls and Signs						
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the floor for a forward reach, a maximum of 54" for a side reach			N/A			
Electrical outlets centered no lower than 18" above the floor						
Warning signals must be visual as well as audible						

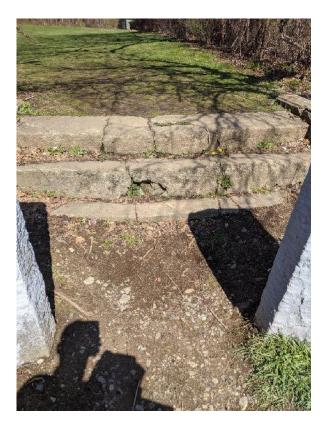
Signs			
Mounting height must be 60" to centerline of the sign			N/A
Within 18" of door jamb or recessed			
Letters and numbers a t least 11/4" high			
Letters and numbers raised .03"			
Letters and numbers contrast with the background color			

SWIMMING POOLS - accessibility can be via ramp, lifting device, or transfer area						
Specification	Yes	No	Comments/Transition Notes			
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding  1:6 with handrails on both sides			No Pools Present			
Lifting device						
Transfer area 18" above the path of travel and a minimum of 18" wide						
Unobstructed path of travel not less than 48" wide around pool						
Non-slip surface						
SHOWER ROOMS - Showers must accommo	odate b	oth wh	neel-in and transfer use			
Specification	Yes	No	Comments/Transition Notes			
Stalls 36" by 60" minimum, with a 36" door opening			No Showers Present			
Floors are pitched to drain the stall at the corner farthest from entrance						
Floors are non-slip surface						
Controls operate by a single lever with a pressure balance mixing valve						
Controls are located on the center wall adjacent to the hinged seat						
Shower heads attached to a flexible metal hose						
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor						
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long						
Soap trays without handhold features unless they can support 250 pounds						
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar						
Grab bars are placed horizontally at 36" above the floor line						

PICNICKING - No picnic tables present				
Specification	Yes	No	Comments/Transition Notes	
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access			N/A - no picnic tables present	
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.				
Top of table no higher than 32" above ground				
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions				
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter				

#### Suggestions for Accessibility improvements:

- Add an accessible parking spot to the small lot
- Add a ramp from the small parking lot to Batchedler park
- Trails are likely to remain in accessible, but only small improvements would be required to make Batchedler park accessible









## **Facility Inventory**

#### **LOCATION: Riverwalk Rail Trail**

ACTIVITY	EQUIPMENT	NOTES				
		Located adjacent to accessible paths				
	Tables & Benches	Access to Open Spaces				
	Tables & Benches	Back and Arm Rests				
		Adequate number				
Diania Fasilisias	Grills	Height of Cooking Surface				
Picnic Facilities	Grills	Located adjacent to accessible paths				
	Trash Cans	Located adjacent to accessible paths - Yes				
		Located adjacent to accessible paths				
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,				
		parking, etc.				
		Surface material – asphalt, with some concrete				
T		Dimensions – 1.6 miles long; 48+' wide				
Trails		Rails				
		Signage (for visually impaired) - None				
		Entrance				
	Pools	Location from accessible parking				
		Safety features i.e. warning for visually impaired				
Swimming Facilities		Location from accessible path into water				
Ĭ	Beaches	Handrails				
N/A		Location from accessible parking				
		Shade provided				
<b>5</b> 1 <b>A</b> ( <b>1</b> )	All Play Equipment i.e. swings, slides	Same experience provided to all				
Play Areas (tot lots)	A B	Located adjacent to accessible paths				
N/A	Access Routes	Enough space between equipment for wheelchair				
	Access Routes	Located adjacent to accessible paths				
Game Areas: *ballfield		Berm cuts onto courts				
*basketball		Height				
*tennis	Equipment	Dimensions				
N/A		Spectator Seating				
-	A D	Located adjacent to accessible paths				
Boat Docks <b>N/A</b>	Access Routes	Handrails				
	A	Located adjacent to accessible paths				
	Access Routes	Handrails				
Fielding Feetberg		Arm Rests				
Fishing Facilities		Bait Shelves				
N/A	Equipment	Handrails				
INA		Fish Cleaning Tables				
		Learn-to-Swim				
Programming	Are special programs at your facilities accessible?	Guided Hikes				
		Interpretive Programs - No				
N/A						
N/A Services and Technical		ve formats i.e. for visually impaired - No services (i.e. sign language interpreter) for meetings - None				

LOCATION			
PARKING			
Total Spaces			ired Accessible Spaces
Up to 25			ace
26-50			aces aces
	51-75		
76-100 (3 large parking areas near both trailheads)		4 sp	aces (10+ accessible spaces)
101-150		5 sp	aces
151-200		6 sp	aces
201-300		7 sp:	aces
301-400		8 sp:	aces
401-500		9 sp:	aces
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes
Accessible space located closest to accessible		X	
entrance			
Where spaces cannot be located within 200 ft of		X	No drop off area indicated
accessible entrance, drop-off area is provided within			i to all op on all our maleuros
100 ft.			
Minimum width of 13 ft includes 8 ft space plus 5 ft	X		
access aisle			
Van space – minimum of I van space for every		Х	Not marked for van space
accessible space, 8 ft wide plus 8 ft aisle. Alternative		^	Not marked for vari space
is to make all accessible spaces 11 ft wide with 5 ft			
aisle.			
aisic.			
Sign with international symbol of accessibility at each		х	
space or pair of spaces		^	
Sign minimum 5 ft, maximum 8 ft to top of sign		X	Payament signs, not post signs
Sign minimum 3 it, maximum 6 it to top or sign		^	Pavement signs, not post signs
Surface evenly paved or hard-packed (no cracks)	х		
Surface evenily paved of flard-packed (no cracks)	^		
Surface slope less than 1:20, 5%	X		
Surface slope less than 1.20, 5%	^		
Curbcut to pathway from parking lot at each space	X		
or pair of spaces, if sidewalk (curb) is present	^		
Curbcut is a minimum width of 3 ft, excluding	X		
sloped sides, has sloped sides, all slopes not to	^		
exceed 1:12, and textured or painted yellow			
RAMPS			
Specification	Yes	No	Comments/Transition Notes
Slope Maximum 1:12	163	140	
Slope Maximum 1.12			N/A; no ramps required
Minimum width 4 ft between handrails			
Minimum width 4 it between nandralis			
Handraile on both sides if years is larger than 1.5	1	-	+
Handrails on both sides if ramp is longer than 6 ft		-	
Handrails at 34" and 19" from ramp surface		-	
Handrails extend 12" beyond top and bottom		-	
Handgrip oval or round			
Handgrip smooth surface			
	<b> </b>		
Handgrip diameter between 11/4" and 2"			
Clearance of 11/2" between wall and wall rail			
Non-slip surface			
Level platforms (4ft x 4 ft) at every 30 ft, at top, at			
bottom, at change of direction			

LOCATION SITE ACCESS, PATH OF TRAVEL, ENTRANCES				
Specification	Yes	No	Comments/Transition Notes	
Site Access	7.03	1	Comments Transition Trates	
Accessible path of travel from passenger	Х			
disembarking area and parking area to accessible	^			
entrance				
Disembarking area at accessible entrance	X			
Surface evenly paved or hard-packed	X			
Surface evenly paved of flard-packed	^			
No ponding of water	+			
The pending of water				
Path of Travel	1	l l		
Path does not require the use of stairs	X			
Path is stable, firm and slip resistant	X			
3 ft wide minimum	X			
Slope maximum 1:20 (5%) and maximum cross pitch	X	X	Yes, except for last segment from Rocky Hill	
is 2% (1:50).	^	^	Road to Carriagetown Plaza parking	
Continuous common surface, no changes in level	X	Х	Yes, except for damaged surfaces with buckles	
greater than ½ inch	^	^	and eruptions of asphalt surface	
Any objects protruding onto the pathway must be		X	No real edhe or other markings for B/VI	
detected by a person with a visual disability using a		^	INO real edite of other markings for B/VI	
cane				
Objects protruding more than 4" from the wall			N/A	
must be within 27" of the ground, or higher than			N/A	
80"				
Curb on the pathway must have curb cuts at drives,	X			
parking and drop-offs				
Entrances	1			
Primary public entrances accessible to person using			Poor to no signage for entrances to pathways	
wheelchair, must be signed, gotten to independently,			i oor to no signage for end arces to patima/s	
and <i>not</i> be the service entrance				
Level space extending 5 ft. from the door, interior			N/A	
and exterior of entrance doors				
Minimum 32" clear width opening (i.e. 36" door				
with standard hinge)				
At least 18" clear floor area on latch, pull side of				
door				
Door handle no higher than 48" and operable with a				
closed fist				
Vestibule is 4 ft plus the width of the door swinging				
into the space				
Entrance(s) on a level that makes elevators				
accessible				
Door mats less than ½" thick are securely fastened				
Door mats more than ½" thick are recessed				
Grates in path of travel have openings of ½"				
maximum				
Signs at non-accessible entrance(s) indicate direction				
to accessible entrance				
Emergency egress – alarms with flashing lights and				
audible signals, sufficiently lighted				

LOCATION			
STAIRS and DOORS			
Specification	Yes	No	Comments/Transition Notes
Stairs			
	_		
No open risers			N/A; no stairs
Nosings not projecting			
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of 1 ft beyond top and			
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
Doors			
Minimum 32" clear opening			N/A; no doors
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of			
the latch			
Maximum pressure 5 pounds interior doors			
Threshold maximum ½" high, beveled on both sides			
Hardware operable with a closed fist (no			
conventional door knobs or thumb latch devices)			
Hardware minimum 36", maximum 48" above the			
floor			
Clear, level floor space extends out 5 ft from both			
sides of the door			
Door adjacent to revolving door is accessible and			
unlocked			
Doors opening into hazardous area have hardware			
that is knurled or roughened			

RESTROOMS – also see Doors and Vestibules			
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor			N/A; no restrooms
At least one Sink:	•		
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width, and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring activated handle)			
At least one Stall:			
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
1¼" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			
One mirror set a maximum 38" to bottom (if tilted, 42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			

FLOORS, DRINKING FOUNTAINS, TELEPHONES				
Specification	Yes	No	Comments/Transition Notes	
Floors				
Non-slip surface			N/A; no floors	
Carpeting is high-density, low pile, non-absorbent,				
stretched taut, securely anchored				
Corridor width minimum is 3 ft				
Objects (signs, ceiling lights, fixtures) can only				
protrude 4" into the path of travel from a height of				
27" to 80" above the floor				
Drinking Fountains				
Spouts no higher than 36" from floor to outlet	1		NI/A. no deinting fountains	
Hand operated push button or level controls			N/A; no drinking fountains	
Spouts located near front with stream of water as				
parallel to front as possible				
If recessed, recess a minimum 30" width, and no				
deeper than depth of fountain				
If no clear knee space underneath, clear floor space				
30" x 48" to allow parallel approach				
Telephones				
Highest operating part a maximum 54" above the			N/A; no telephones	
floor				
Access within 12" of phone, 30" high by 30" wide				
Adjustable volume control on headset so identified				
SIGNS, SIGNALS, AND SWITCHES				
Character and the contract of	l v.	I AL.	Community Manager	
Specification	Yes	No	Comments/Transition Notes	
Switches, Controls and Signs				
Switches and controls for light, heat, ventilation,			N/A; no switches	
windows, fire alarms, thermostats, etc, must be a			in/A, no switches	
minimum of 36" and a maximum of 48" above the				
floor for a forward reach, a maximum of 54" for a				
side reach				
Electrical outlets centered no lower than 18" above				
the floor				
Warning signals must be visual as well as audible				
Signs				
Mounting height must be 60" to centerline of the			N/A; no interior signs	
sign				
Within 18" of door jamb or recessed				
Letters and numbers a t least 11/4" high				
Letters and numbers raised .03"		1		
Letters and numbers contrast with the background				
color		1	1	

SWIMMING POOLS - accessibility can be via ramp, lifting device, or transfer area			
Specification	Yes	No	Comments/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			N/A; no swimming pools
Lifting device			
Transfer area 18" above the path of travel and a minimum of 18" wide			
Unobstructed path of travel not less than 48" wide around pool			
Non-slip surface			

#### LOCATION

LOCATION				
SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use				
Specification	Yes	No	Comments/Transition Notes	
Stalls 36" by 60" minimum, with a 36" door opening			N/A; no shower rooms	
Floors are pitched to drain the stall at the corner				
farthest from entrance				
Floors are non-slip surface				
Controls operate by a single lever with a pressure				
balance mixing valve				
Controls are located on the center wall adjacent to				
the hinged seat				
Shower heads attached to a flexible metal hose				
Shower heads attached to wall mounting adjustable				
from 42" to 72" above the floor				
Seat is hinged and padded and at least 16" deep,				
folds upward, securely attached to side wall, height				
is 18" to the top of the seat, and at least 24" long				
Soap trays without handhold features unless they				
can support 250 pounds				
2 grab bars are provided, one 30" and one 48" long,				
or one continuous L shaped bar				
Grab bars are placed horizontally at 36" above the				
floor line				

PICNICKING				
Specification	Yes	No	Comments/Transition Notes	
A minimum of 5% of the total tables must be			N/A; no picnicking facilities	
accessible with clear space under the table top not				
less than 30" wide and 19" deep per seating space				
and not less than 27" clear from the ground to the				
underside of the table. An additional 29" clear				
space (totaling 48") must extend beyond the 19"				
clear space under the table to provide access				
For tables without toe clearance, the knee space				
under the table must be at least 28" high, 30" wide				
and 24" deep.				
Top of table no higher than 32" above ground				
Surface of the clear ground space under and around				
the table must be stable, firma nd slip-resistant, and				
evenly graded with a maximum slope of 2% in all				
directions				
Accessible tables, grills and fire rings must have clear				
ground space of at least 36" around the perimeter				



Facility Inventory LOCATION: Town Forest

Facility Inventory	LOCATION:					
ACTIVITY	EQUIPMENT	NOTES				
		Located adjacent to accessible paths				
	Tables & Benches	Access to Open Spaces				
	Tables & Beliciles	Back and Arm Rests				
		Adequate number				
Picnic Facilities	Grills	Height of Cooking Surface				
Picnic Facilities Grills		Located adjacent to accessible paths				
N/A	Trash Cans	Located adjacent to accessible paths				
N/A		Located adjacent to accessible paths				
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,				
		parking, etc.				
		Surface material Ungraded dirt trails; none accessible				
Trails	2+ miles of woodland trails	Dimensions Variable				
I I alls		Rails None				
		Signage (for visually impaired) No				
		Entrance				
	Pools	Location from accessible parking				
		Safety features i.e. warning for visually impaired				
Swimming Facilities		Location from accessible path into water				
	Beaches	Handrails				
N/A	Beaches	Location from accessible parking				
		Shade provided				
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	Same experience provided to all				
Play Areas (tot lots)	Access Routes	Located adjacent to accessible paths				
N/A	Access Routes	Enough space between equipment for wheelchair				
	Access Routes  Equipment	Located adjacent to accessible paths				
Game Areas: *ballfield		Berm cuts onto courts				
*basketball		Height				
*tennis		Dimensions				
N/A		Spectator Seating				
-		Located adjacent to accessible paths				
Boat Docks <b>N/A</b>	Access Routes	Handrails				
	A	Located adjacent to accessible paths				
	Access Routes	Handrails				
F. I		Arm Rests				
Fishing Facilities		Bait Shelves				
N/A	Equipment	Handrails				
IV/A		Fish Cleaning Tables				
	Are special programs at your facilities accessible?	Learn-to-Swim <b>N/A</b>				
Programming		Guided Hikes Groups offer hikes; No accessible hikes provided				
		Interpretive Programs No accessible programs provided				
Services and	Information available in alternativ	ve formats i.e. for visually impaired <b>No</b>				
Technical	Process to request interpretive s	rocess to request interpretive services (i.e. sign language interpreter) for meetings <b>No</b>				
Assistance	1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.					

LOCATION					
PARKING					
Total Spaces			Required Accessible Spaces		
Up to 25 Approximately 10; unpaved, unmarked lot			I space No accessible or marked spaces		
26-50			aces aces		
	51-75				
76-100		4 spa			
101-150		5 spa			
151-200		6 spa	aces		
201-300		7 spa	aces		
301-400		8 spa	aces		
401-500		9 spa	aces		
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes		
Accessible space located closest to accessible		Х			
entrance					
Where spaces cannot be located within 200 ft of		X			
accessible entrance, drop-off area is provided within		Ī -			
100 ft.					
Minimum width of 13 ft includes 8 ft space plus 5 ft	1	х			
access aisle					
Van space – minimum of I van space for every	1	x			
accessible space, 8 ft wide plus 8 ft aisle. Alternative					
is to make all accessible spaces 11 ft wide with 5 ft					
aisle.					
Sign with international symbol of accessibility at each		X			
space or pair of spaces		^			
Sign minimum 5 ft, maximum 8 ft to top of sign		X			
Sign minimum 5 it, maximum 6 it to top or sign		^			
Surface evenly paved or hard-packed (no cracks)		X			
Surface evenily paved of flard packed (no cracks)		^			
Surface slope less than 1:20, 5%		Х			
Surface Stope less than 1.20, 570		^			
Curbcut to pathway from parking lot at each space		×			
or pair of spaces, if sidewalk (curb) is present		^			
Curbcut is a minimum width of 3 ft, excluding		X			
sloped sides, has sloped sides, all slopes not to		^			
exceed 1:12, and textured or painted yellow					
RAMPS					
Specification	Yes	No	Comments/Transition Notes		
Slope Maximum 1:12	763	110	No ramps present		
Stope Haximum 1.12			ino ramps present		
Minimum width 4 ft between handrails		+			
I mimiani widdi i ic becween nandi ans					
Handrails on both sides if ramp is longer than 6 ft		+			
Handrails at 34" and 19" from ramp surface		+			
Handrails extend 12" beyond top and bottom		+			
Handgrip oval or round	-	-			
Handgrip smooth surface		+			
Hanugrip smooth surface					
Handgrip diameter between 11/4" and 2"	1	+			
manugrip diameter between 174 and 2					
Clearance of 1½" between wall and wall rail		+			
	1		<u> </u>		
Non-slip surface					
	1		<u> </u>		
Level platforms (4ft x 4 ft) at every 30 ft, at top, at					
bottom, at change of direction					

LOCATION	CEC		
SITE ACCESS, PATH OF TRAVEL, ENTRAN			
Specification	Yes	No	Comments/Transition Notes
Site Access			
Accessible path of travel from passenger		X	
disembarking area and parking area to accessible			
entrance			
Disembarking area at accessible entrance		X	
Surface evenly paved or hard-packed		X	
No ponding of water		X	
Path of Travel			1
Path does not require the use of stairs	X		
Path is stable, firm and slip resistant		X	
3 ft wide minimum		Х	
Slope maximum 1:20 (5%) and maximum cross pitch		X	
is 2% (1:50).			
Continuous common surface, no changes in level		X	
greater than ½ inch			
Any objects protruding onto the pathway must be		X	
detected by a person with a visual disability using a			
cane			
Objects protruding more than 4" from the wall		X	
must be within 27" of the ground, or higher than			
80"			
Curb on the pathway must have curb cuts at drives,		X	
parking and drop-offs			
Entrances			
Primary public entrances accessible to person using			No built facilities present
wheelchair, must be signed, gotten to independently,			
and not be the service entrance			
Level space extending 5 ft. from the door, interior			
and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door			
with standard hinge)			
At least 18" clear floor area on latch, pull side of			
door			
Door handle no higher than 48" and operable with a			
closed fist		_	
Vestibule is 4 ft plus the width of the door swinging into the space			
Entrance(s) on a level that makes elevators			
accessible			
Door mats less than 1/2" thick are securely fastened			
Door mats more than 1/2" thick are recessed			
Grates in path of travel have openings of 1/2"			
maximum			
Signs at non-accessible entrance(s) indicate direction			
to accessible entrance			
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted			

## **NOTES**

Simple, unpaved parking lot with approximately 10 unmarked spots at trailheads for 2+ miles of trails in Town Forest lots, connecting to Essex County Greenbelt and other City of Amesbury open space properties (Quimby Lane Conservation Area and Woodsom Farm). No trails accessible.

STAIRS and DOORS			
Specification	Yes	No	Comments/Transition Notes
Stairs		•	
No open risers			No stairs present
Nosings not projecting			rto seans present
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of I ft beyond top and			
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
Doors		1	
Minimum 32" clear opening			No doors present
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of			
the latch			
Maximum pressure 5 pounds interior doors			
Threshold maximum ½" high, beveled on both sides			
Hardware operable with a closed fist (no			
conventional door knobs or thumb latch devices)			
Hardware minimum 36", maximum 48" above the floor			
Clear, level floor space extends out 5 ft from both sides of the door			
0.200 0.000 200			
Door adjacent to revolving door is accessible and	1		
unlocked			
Unlocked  Doors opening into hazardous area have hardware			

RESTROOMS – also see Doors and Vestibules			
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor			No bathrooms present
At least one Sink:			,
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width, and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring			
activated handle)			
At least one Stall:			
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and 32" above the floor			
Coat hook is 54" high			
Toilet	<u> </u>		
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars	,		
On back and side wall closest to toilet			
I'/4" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			
One mirror set a maximum 38" to bottom (if tilted, 42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			
	Ì	1	

FLOORS, DRINKING FOUNTAINS, TELEPHONES				
		1 41	I C IT M .	
Specification	Yes	No	Comments/Transition Notes	
Floors				
	1	1	h	
Non-slip surface			No floors present	
Carpeting is high-density, low pile, non-absorbent,				
stretched taut, securely anchored				
Corridor width minimum is 3 ft				
Objects (signs, ceiling lights, fixtures) can only				
protrude 4" into the path of travel from a height of				
27" to 80" above the floor				
Drinking Fountains				
Control bishood by 24" for a floridate state	1	1	h	
Spouts no higher than 36" from floor to outlet			No drinking fountains present	
Hand operated push button or level controls				
Spouts located near front with stream of water as				
parallel to front as possible				
If recessed, recess a minimum 30" width, and no				
deeper than depth of fountain				
If no clear knee space underneath, clear floor space				
30" x 48" to allow parallel approach				
Telephones				
	1			
Highest operating part a maximum 54" above the				
floor				
Access within 12" of phone, 30" high by 30" wide				
Adjustable volume control on headset so identified				
SIGNS, SIGNALS, AND SWITCHES				
	1			
Specification	Yes	No	Comments/Transition Notes	
Switches, Controls and Signs				
	1			
Switches and controls for light, heat, ventilation,			N/A	
windows, fire alarms, thermostats, etc, must be a				
minimum of 36" and a maximum of 48" above the				
floor for a forward reach, a maximum of 54" for a				
side reach				
Electrical outlets centered no lower than 18" above				
the floor				
Warning signals must be visual as well as audible				
Signs				
	1			
Mounting height must be 60" to centerline of the		X		
sign		1		
Within 18" of door jamb or recessed		X		
Letters and numbers a t least 1 1/4" high		X		
Letters and numbers raised .03"		X		
Letters and numbers contrast with the background		X		
color	1	1		

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			No pools present	
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

## LOCATION

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use				
Specification	Yes	No	Comments/Transition Notes	
Stalls 36" by 60" minimum, with a 36" door opening			No showers present	
Floors are pitched to drain the stall at the corner				
farthest from entrance				
Floors are non-slip surface				
Controls operate by a single lever with a pressure				
balance mixing valve				
Controls are located on the center wall adjacent to				
the hinged seat				
Shower heads attached to a flexible metal hose				
Shower heads attached to wall mounting adjustable				
from 42" to 72" above the floor				
Seat is hinged and padded and at least 16" deep,				
folds upward, securely attached to side wall, height				
is 18" to the top of the seat, and at least 24" long				
Soap trays without handhold features unless they				
can support 250 pounds				
2 grab bars are provided, one 30" and one 48" long,				
or one continuous L shaped bar				
Grab bars are placed horizontally at 36" above the				
floor line				

PICNICKING			
Specification	Yes	No	Comments/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access			No picnic facilities present
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.			
Top of table no higher than 32" above ground			
Surface of the clear ground space under and around the table must be stable, firma nd slip-resistant, and evenly graded with a maximum slope of 2% in all directions			
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter			



Facility Inventory LOCATION: Town Park

racinty inventory	LOCATION.							
ACTIVITY	EQUIPMENT	NOTES						
		Located adjacent to accessible paths - Yes						
	Tables & Benches	Access to Open Spaces - Yes						
	Tables & Belleties	Back and Arm Rests – Back rests						
		Adequate number - Yes						
Picnic Facilities	Grills - None	Height of Cooking Surface – N/A						
Fichic Facilities	Grills - Norie	Located adjacent to accessible paths – N/A						
	Trash Cans	Located adjacent to accessible paths - Yes						
		Located adjacent to accessible paths - Yes						
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,						
		parking, etc Yes						
		Surface material – Paved and packed dirt						
Trails		Dimensions - >3 feet wide						
irans		Rails - None						
		Signage (for visually impaired) - None						
		Entrance						
	Pools	Location from accessible parking						
		Safety features i.e. warning for visually impaired						
Swimming Facilities		Location from accessible path into water						
-	D l	Handrails						
N/A	Beaches	Location from accessible parking						
		Shade provided						
	All Play Equipment i.e. swings,	Same experience provided to all						
Play Areas (tot	slides							
lots) Access Routes		Located adjacent to accessible paths						
,		Enough space between equipment for wheelchair						
Game Areas:	Access Routes	Located adjacent to accessible paths - Mixed						
*ballfield		Berm cuts onto courts - None						
*basketball		Height						
*tennis	Equipment	Dimensions						
*skateboard park *Frisbee golf course		Spectator Seating						
Dans Danks N/A	A P	Located adjacent to accessible paths						
Boat Docks <b>N/A</b>	Access Routes	Handrails						
	A D	Located adjacent to accessible paths						
	Access Routes	Handrails						
F. I F		Arm Rests						
Fishing Facilities		Bait Shelves						
N/A	Equipment	Handrails						
N/A		Fish Cleaning Tables						
		0						
		Learn-to-Swim						
Programming	Are special programs at your facilities accessible?	Guided Hikes						
N/A		Interpretive Programs						
Services and	Information available in alternativ	l ve formats i.e. for visually impaired - No						
Technical		services (i.e. sign language interpreter) for meetings – No						
Assistance	110ccs to request interpretive services (i.e. sign language interpreter) for meetings - 140							

PARKING						
		Dogu	irad Associble Chases			
Total Spaces Up to 25			ired Accessible Spaces			
			I space			
26-50 (approximately 38 spaces between 3 lots)		2 spa				
51-75			aces			
76-100		4 spa				
101-150		5 spa				
151-200		6 spa				
201-300		7 spa				
301-400		8 spa	aces			
401-500		9 spaces				
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes			
Accessible space located closest to accessible	X					
entrance						
Where spaces cannot be located within 200 ft of	Х					
accessible entrance, drop-off area is provided within						
100 ft.						
Minimum width of 13 ft includes 8 ft space plus 5 ft	Х					
access aisle	[ ]					
Van space – minimum of I van space for every	X		Space by skate park not marked with lines			
accessible space, 8 ft wide plus 8 ft aisle. Alternative			Space of share park not marked with mies			
is to make all accessible spaces 11 ft wide with 5 ft			Lot by upper baseball fields – no marked spaces			
aisle.			Lot by upper baseban neids – no marked spaces			
alore.						
Sign with international symbol of accessibility at each	~					
space or pair of spaces	^					
Sign minimum 5 ft, maximum 8 ft to top of sign	X					
sign minimum 3 it, maximum 6 it to top or sign	^					
Curfo as evenly payed on bond posted (no energie)	~					
Surface evenly paved or hard-packed (no cracks)	X					
C . ( l l l l l						
Surface slope less than 1:20, 5%	X					
Curbcut to pathway from parking lot at each space		X	Curb cut not immediately adjacent to spaces			
or pair of spaces, if sidewalk (curb) is present						
Curbcut is a minimum width of 3 ft, excluding	X					
sloped sides, has sloped sides, all slopes not to						
exceed 1:12, and textured or painted yellow						
RAMPS						
Specification	Yes	No	Comments/Transition Notes			
Slope Maximum 1:12	X					
Minimum width 4 ft between handrails	X					
Handrails on both sides if ramp is longer than 6 ft	X					
Handrails at 34" and 19" from ramp surface	X					
Handrails extend 12" beyond top and bottom	X					
Handgrip oval or round	X					
Handgrip smooth surface	X					
<b>5</b> 1	[ ]					
Handgrip diameter between 11/4" and 2"	X					
Clearance of 1½" between wall and wall rail	X					
Non-slip surface	X					
14011 SIIP SUI IACC	^					
Level platforms (4ft x 4 ft) at every 30 ft, at top, at	-	X	Distorm at top of eath by water ferreting in			
		^	Platform at top of path by water fountain does			
bottom, at change of direction			not have platform			

LOCATION SITE ACCESS, PATH OF TRAVEL, ENTRANCES				
Specification	Yes	No	Comments/Transition Notes	
Site Access	7.03	7.10	Commence, Translation 140ccs	
Accessible path of travel from passenger	Х			
disembarking area and parking area to accessible	^			
entrance				
Disembarking area at accessible entrance	X			
Surface evenly paved or hard-packed	X			
Surface evenly paved of hard-packed	^			
No ponding of water		X		
The periality of water		^		
Path of Travel	1			
Path does not require the use of stairs	X			
Path is stable, firm and slip resistant	X			
3 ft wide minimum	X			
Slope maximum 1:20 (5%) and maximum cross pitch	X			
is 2% (1:50).				
Continuous common surface, no changes in level	X			
greater than ½ inch				
Any objects protruding onto the pathway must be	X			
detected by a person with a visual disability using a				
cane				
Objects protruding more than 4" from the wall	x			
must be within 27" of the ground, or higher than				
80"				
Curb on the pathway must have curb cuts at drives,	X			
parking and drop-offs				
Entrances	•			
Primary public entrances accessible to person using	Х			
wheelchair, must be signed, gotten to independently,				
and not be the service entrance				
Level space extending 5 ft. from the door, interior			N/A	
and exterior of entrance doors				
Minimum 32" clear width opening (i.e. 36" door			N/A	
with standard hinge)				
At least 18" clear floor area on latch, pull side of			N/A	
door				
Door handle no higher than 48" and operable with a			N/A	
closed fist				
Vestibule is 4 ft plus the width of the door swinging			N/A	
into the space				
Entrance(s) on a level that makes elevators			N/A	
accessible	1		hua.	
Door mats less than ½" thick are securely fastened			N/A	
Door mats more than ½" thick are recessed	1		N/A	
Grates in path of travel have openings of ½"			N/A	
maximum	-		hua.	
Signs at non-accessible entrance(s) indicate direction			N/A	
to accessible entrance	+		N/A	
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted			N/A	
audible signals, sufficiently lighted				

STAIRS and DOORS Specification	Yes	No	Comments/Transition Notes
Specification Stairs	res	INO	Comments/Transition Notes
Stulls			
No open risers		X	
Nosings not projecting		Х	
Treads no less than 11" wide		X	
Handrails on both sides		Х	
Handrails 34"-38" above tread		Х	
Handrail extends a minimum of 1 ft beyond top and		Х	
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round	X		
Handgrip has a smooth surface	X		
Handgrip diameter between 11/4" and 11/2"	X		
1½" clearance between wall and handrail			N/A; outdoors
Doors		•	
Minimum 32" clear opening			N/A
At least 18" clear floor space on pull side of door			
Closing speed minimum 3 seconds to within 3" of			
the latch			
Maximum pressure 5 pounds interior doors			
Threshold maximum 1/2" high, beveled on both sides			
Hardware operable with a closed fist (no			
conventional door knobs or thumb latch devices)			
Hardware minimum 36", maximum 48" above the			
floor			
Clear, level floor space extends out 5 ft from both			
sides of the door			
Door adjacent to revolving door is accessible and			
unlocked			
Doors opening into hazardous area have hardware			
that is knurled or roughened			

RESTROOMS – also see Doors and Vestibules			
Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor	163	140	Comments/Transition Notes
At least one Sink:			
At least one sink.			
Clear floor space of 30" by 48" to allow a forward			
approach			
Mounted without pedestal or legs, height 34" to top			
of rim			
Extends at least 22" from the wall			
Open knee space a minimum 19" deep, 30" width,			
and 27" high			
Cover exposed pipes with insulation			
Faucets operable with closed fist (lever or spring			
activated handle)			
At least one Stall:		-	
Accessible to person using wheelchair at 60" wide			
by 72" deep			
Stall door is 36" wide			
Stall door swings out			
Stall door is self closing			
Stall door has a pull latch			
Lock on stall door is operable with a closed fist, and			
32" above the floor			
Coat hook is 54" high			
Toilet			
18" from center to nearest side wall			
42" minimum clear space from center to farthest			
wall or fixture			
Top of seat 17"-19" above the floor			
Grab Bars			
On back and side wall closest to toilet			
I¼" diameter			
1½" clearance to wall			
Located 30" above and parallel to the floor			
Acid-etched or roughened surface			
42" long			
Fixtures			
Toilet paper dispenser is 24" above floor			
One mirror set a maximum 38" to bottom (if tilted,		+	
42")			
Dispensers (towel, soap, etc) at least one of each a			
maximum 42" above the floor			
	l	1	

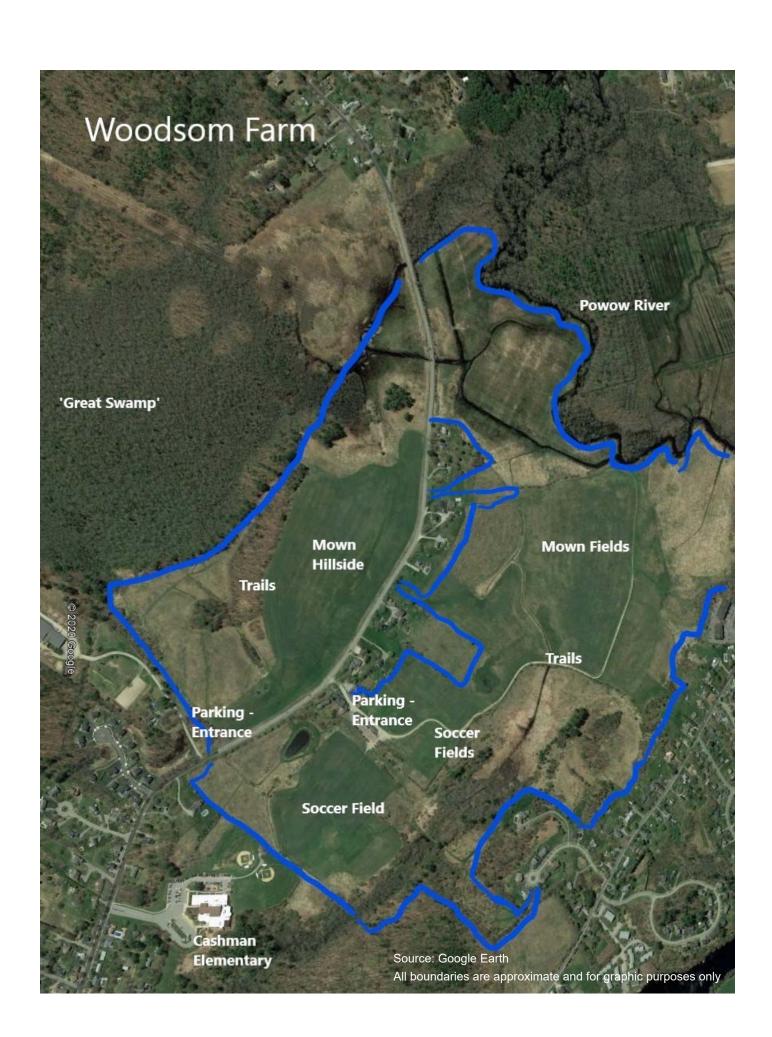
FLOORS, DRINKING FOUNTAINS, TELEPHONES				
		1		
Specification	Yes	No	Comments/Transition Notes	
Floors				
Non-slip surface			N/A; no floors	
Carpeting is high-density, low pile, non-absorbent,				
stretched taut, securely anchored				
Corridor width minimum is 3 ft				
Objects (signs, ceiling lights, fixtures) can only				
protrude 4" into the path of travel from a height of				
27" to 80" above the floor				
Drinking Fountains				
Spouts no higher than 36" from floor to outlet	X	1	T	
Hand operated push button or level controls	X	+		
Spouts located near front with stream of water as	X			
parallel to front as possible	^			
If recessed, recess a minimum 30" width, and no	X	+		
deeper than depth of fountain	^			
If no clear knee space underneath, clear floor space	X			
30" x 48" to allow parallel approach	^			
Telephones				
receptiones				
Highest operating part a maximum 54" above the			N/A; no telephones	
floor			1 47 4, no telephones	
Access within 12" of phone, 30" high by 30" wide				
Adjustable volume control on headset so identified				
SIGNS, SIGNALS, AND SWITCHES	1	1		
Specification	Yes	No	Comments/Transition Notes	
Switches, Controls and Signs				
Switches and controls for light, heat, ventilation,			N/A; no controls	
windows, fire alarms, thermostats, etc, must be a				
minimum of 36" and a maximum of 48" above the				
floor for a forward reach, a maximum of 54" for a				
side reach				
Electrical outlets centered no lower than 18" above				
the floor				
Warning signals must be visual as well as audible				
Signs				
Managina haisha manag ha 70" a a a a 11 a 12 a	1		le / li · l ·	
Mounting height must be 60" to centerline of the	1		Few/no directional signs	
sign	1			
Within 18" of door jamb or recessed	1			
Letters and numbers a t least 11/4" high	1			
Letters and numbers raised .03"	1			
Letters and numbers contrast with the background color	1			
i COIOI	i	i	1	

SWIMMING POOLS - accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding			N/A; no swimming facility	
1:6 with handrails on both sides			Splash pad is accessible and adjacent to accessible pathway	
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

## **LOCATION**

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use					
Specification	Yes	No	Comments/Transition Notes		
Stalls 36" by 60" minimum, with a 36" door opening			N/A; no shower rooms		
Floors are pitched to drain the stall at the corner					
farthest from entrance					
Floors are non-slip surface					
Controls operate by a single lever with a pressure					
balance mixing valve					
Controls are located on the center wall adjacent to					
the hinged seat					
Shower heads attached to a flexible metal hose					
Shower heads attached to wall mounting adjustable					
from 42" to 72" above the floor					
Seat is hinged and padded and at least 16" deep,					
folds upward, securely attached to side wall, height					
is 18" to the top of the seat, and at least 24" long					
Soap trays without handhold features unless they					
can support 250 pounds					
2 grab bars are provided, one 30" and one 48" long,					
or one continuous L shaped bar					
Grab bars are placed horizontally at 36" above the					
floor line					

PICNICKING			
Specification	Yes	No	Comments/Transition Notes
A minimum of 5% of the total tables must be	X		
accessible with clear space under the table top not			
less than 30" wide and 19" deep per seating space			
and not less than 27" clear from the ground to the			
underside of the table. An additional 29" clear			
space (totaling 48") must extend beyond the 19"			
clear space under the table to provide access			
For tables without toe clearance, the knee space	X		
under the table must be at least 28" high, 30" wide			
and 24" deep.			
Top of table no higher than 32" above ground	X		
Surface of the clear ground space under and around	X		
the table must be stable, firma nd slip-resistant, and			
evenly graded with a maximum slope of 2% in all			
directions			
Accessible tables, grills and fire rings must have clear	X		
ground space of at least 36" around the perimeter			



Facility Inventory LOCATION: Woodsom Farm (North & South)

Facility inventory		Woodsom Farm (North & South)					
ACTIVITY	EQUIPMENT	NOTES					
		Located adjacent to accessible paths					
	Tables & Benches	Access to Open Spaces					
	Tables & Beliefles	Back and Arm Rests					
		Adequate number					
Picnic Facilities	Grills	Height of Cooking Surface					
FICHIC Facilities	Grills	Located adjacent to accessible paths					
N/A	Trash Cans	Located adjacent to accessible paths					
IV/A		Located adjacent to accessible paths					
	Picnic Shelters	Located near accessible water fountains, trash can, restroom,					
		parking, etc.					
		Surface material Mixed: packed dirt, grass lanes, dirt paths					
	Trails in a variety of states:	Dimensions Mixed widths: dirt road 6-8' wide					
Trails	packed dirt roads, mown	Rails None					
	lanes, woodland paths	Signage (for visually impaired) None					
	-	Entrance					
	Pools	Location from accessible parking					
		Safety features i.e. warning for visually impaired					
Swimming Facilities		Location from accessible path into water					
6		Handrails					
N/A	Beaches	Location from accessible parking					
		Shade provided					
	All Play Equipment i.e. swings,	Shade provided					
Play Areas (tot lots)	slides	Same experience provided to all					
riay rii cas (coc rocs)	Access Routes	Located adjacent to accessible paths					
N/A	/ teeess reduces	Enough space between equipment for wheelchair					
Game Areas:	Access Routes	Located adjacent to accessible paths No					
*ballfield		Berm cuts onto courts No					
*basketball		Height N/A					
*tennis	Equipment	Dimensions N/A					
*soccer (7)		Spectator Seating None					
Boat Docks <b>N/A</b>	Access Routes	Located adjacent to accessible paths					
		Handrails					
	Access Routes	Located adjacent to accessible paths					
		Handrails					
Fishing Facilities		Arm Rests					
	Equipment	Bait Shelves					
N/A	1	Handrails					
		Fish Cleaning Tables					
		Learn-to-Swim <b>N/A</b>					
Programming	Are special programs at your facilities accessible?	Guided Hikes Provided; None accessible					
		Interpretive Programs Provided; None accessible					
Services and Technical	Information available in alternation	ative formats i.e. for visually impaired None					
Assistance	Process to request interpretive	ive services (i.e. sign language interpreter) for meetings None					

LOCATION						
PARKING		1.0	: IA :II C.			
Total Spaces			Required Accessible Spaces			
Up to 25 Both N and S lots			I space No accessible parking spaces			
26-50			2 spaces			
51-75			aces			
76-100			aces			
101-150		5 spa	aces			
151-200		6 spa	aces			
201-300		7 spa	aces			
301-400		8 spa	ices			
401-500		9 spa				
Specification for Accessible Spaces	Yes	No	Comments/Transition Notes			
Accessible space located closest to accessible	103	X	Comments / Translatin / Total			
entrance		^				
Where spaces cannot be located within 200 ft of		X				
accessible entrance, drop-off area is provided within		^				
100 ft.	<u> </u>	<u> </u>				
Minimum width of 13 ft includes 8 ft space plus 5 ft		×				
access aisle	ļ					
Van space – minimum of I van space for every		X				
accessible space, 8 ft wide plus 8 ft aisle. Alternative						
is to make all accessible spaces 11 ft wide with 5 ft						
aisle.						
Sign with international symbol of accessibility at each		X				
space or pair of spaces						
Sign minimum 5 ft, maximum 8 ft to top of sign		Х				
Surface evenly paved or hard-packed (no cracks)		х				
, , , , , , , , , , , , , , , , , , , ,						
Surface slope less than 1:20, 5%		х				
		<b>[</b> ]				
Curbcut to pathway from parking lot at each space		X				
or pair of spaces, if sidewalk (curb) is present		^				
Curbcut is a minimum width of 3 ft, excluding		X				
sloped sides, has sloped sides, all slopes not to		^				
exceed 1:12, and textured or painted yellow						
RAMPS	Lv	1 4.	C IT W AL			
Specification	Yes	No	Comments/Transition Notes			
Slope Maximum 1:12		X				
Minimum width 4 ft between handrails		X				
Handrails on both sides if ramp is longer than 6 ft		X				
Handrails at 34" and 19" from ramp surface		X				
Handrails extend 12" beyond top and bottom		Х				
Handgrip oval or round	1	X				
Handgrip smooth surface		X				
O. L		[`				
Handgrip diameter between 11/4" and 2"	1	X				
Transfire diameter between 1/4 and 2		^				
Clearance of 1½" between wall and wall rail	<del>                                     </del>	x				
	<del>                                     </del>					
Non-slip surface		X				
1 1. 1. ( (46 4.6)	ļ					
Level platforms (4ft x 4 ft) at every 30 ft, at top, at		X				
bottom, at change of direction						

LOCATION SITE ACCESS DATH OF TRAVEL ENTRANCES					
SITE ACCESS, PATH OF TRAVEL, ENTRAN	Yes	No	Comments/Transition Notes		
Specification Site Access	res	INO	Comments/Transition Notes		
	1	<b>-</b>	D-th leterone and and an arranged		
Accessible path of travel from passenger disembarking area and parking area to accessible		X	Both lots unpaved and unmarked		
entrance					
Disembarking area at accessible entrance		X			
Surface evenly paved or hard-packed		x			
Surface evenily paved of hard-packed		^			
No ponding of water		X			
The periang of Water					
Path of Travel	1				
Path does not require the use of stairs		X			
Path is stable, firm and slip resistant	x		Access to dirt road from N lot		
3 ft wide minimum	X		Access to dirt road from N lot		
Slope maximum 1:20 (5%) and maximum cross pitch	X		Access to dirt road from N lot		
is 2% (1:50).					
Continuous common surface, no changes in level	1	×			
greater than ½ inch					
Any objects protruding onto the pathway must be		Х			
detected by a person with a visual disability using a					
cane					
Objects protruding more than 4" from the wall		X			
must be within 27" of the ground, or higher than					
80"					
Curb on the pathway must have curb cuts at drives,		X			
parking and drop-offs					
Entrances	1	_	T		
Primary public entrances accessible to person using			No public building facilities		
wheelchair, must be signed, gotten to independently,					
and not be the service entrance		_			
Level space extending 5 ft. from the door, interior and exterior of entrance doors					
Minimum 32" clear width opening (i.e. 36" door		+			
with standard hinge)					
At least 18" clear floor area on latch, pull side of		+	+		
door					
Door handle no higher than 48" and operable with a	+	+			
closed fist					
Vestibule is 4 ft plus the width of the door swinging	1	1			
into the space	1				
Entrance(s) on a level that makes elevators	1				
accessible					
Door mats less than ½" thick are securely fastened					
Door mats more than 1/2" thick are recessed					
Grates in path of travel have openings of ½"					
maximum					
Signs at non-accessible entrance(s) indicate direction					
to accessible entrance	<u> </u>				
Emergency egress – alarms with flashing lights and					
audible signals, sufficiently lighted					

STAIRS and DOORS			1
Specification	Yes	No	Comments/Transition Notes
Stairs			
	1	1	
No open risers			No stairs present
Nosings not projecting			
Treads no less than 11" wide			
Handrails on both sides			
Handrails 34"-38" above tread			
Handrail extends a minimum of 1 ft beyond top and			
bottom riser (if no safety hazard and space permits)			
Handgrip oval or round			
Handgrip has a smooth surface			
Handgrip diameter between 11/4" and 11/2"			
1½" clearance between wall and handrail			
1/2 Clearance Detween wan and nandran			
			I .
Doors	<u> </u>		
		<u> </u>	No doors present
Doors Minimum 32" clear opening			No doors present
Doors  Minimum 32" clear opening  At least 18" clear floor space on pull side of door			No doors present
Doors Minimum 32" clear opening			No doors present
Doors  Minimum 32" clear opening  At least 18" clear floor space on pull side of door			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door Closing speed minimum 3 seconds to within 3" of			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door Closing speed minimum 3 seconds to within 3" of the latch			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides  Hardware operable with a closed fist (no			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides  Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides  Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)  Hardware minimum 36", maximum 48" above the			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides  Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)  Hardware minimum 36", maximum 48" above the floor			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides  Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)  Hardware minimum 36", maximum 48" above the floor  Clear, level floor space extends out 5 ft from both sides of the door			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door  Closing speed minimum 3 seconds to within 3" of the latch  Maximum pressure 5 pounds interior doors  Threshold maximum ½" high, beveled on both sides  Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)  Hardware minimum 36", maximum 48" above the floor  Clear, level floor space extends out 5 ft from both			No doors present
Minimum 32" clear opening  At least 18" clear floor space on pull side of door Closing speed minimum 3 seconds to within 3" of the latch Maximum pressure 5 pounds interior doors Threshold maximum ½" high, beveled on both sides Hardware operable with a closed fist (no conventional door knobs or thumb latch devices) Hardware minimum 36", maximum 48" above the floor Clear, level floor space extends out 5 ft from both sides of the door Door adjacent to revolving door is accessible and			No doors present

## **NOTES**

No public buildings at Woodsom Farm. Storage shed leased to Amesbury Soccer Association.

Specification	Yes	No	Comments/Transition Notes
5 ft turning space measured 12" from the floor		Х	No built restrooms at Woodsom Farm. Seasonal portable toilets leased by DPW
At least one Sink:			
Clear floor space of 30" by 48" to allow a forward		X	
approach			
Mounted without pedestal or legs, height 34" to top of rim		X	
Extends at least 22" from the wall		X	
Open knee space a minimum 19" deep, 30" width, and 27" high		Х	
Cover exposed pipes with insulation		X	
Faucets operable with closed fist (lever or spring activated handle)		X	
At least one Stall:			
Accessible to person using wheelchair at 60" wide	1	X	
by 72" deep			
Stall door is 36" wide		х	
Stall door swings out		X	
Stall door is self closing		X	
Stall door has a pull latch		X	
Lock on stall door is operable with a closed fist, and 32" above the floor		Х	
Coat hook is 54" high		X	
Toilet			
18" from center to nearest side wall		X	
42" minimum clear space from center to farthest wall or fixture		X	
Top of seat 17"-19" above the floor		х	
Grab Bars	1		
On back and side wall closest to toilet		Х	
11/4" diameter		х	
1½" clearance to wall		X	
Located 30" above and parallel to the floor		х	
Acid-etched or roughened surface		Х	
42" long		X	
Fixtures			
Toilet paper dispenser is 24" above floor		X	
One mirror set a maximum 38" to bottom (if tilted, 42")		X	
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		x	

FLOORS, DRINKING FOUNTAINS, TELEPHO	ONES		
		1	I C
Specification	Yes	No	Comments/Transition Notes
Floors			
	•	•	
Non-slip surface			Not present
Carpeting is high-density, low pile, non-absorbent,			
stretched taut, securely anchored			
Corridor width minimum is 3 ft			
Objects (signs, ceiling lights, fixtures) can only			
protrude 4" into the path of travel from a height of			
27" to 80" above the floor			
Drinking Fountains			
Spouts no higher than 36" from floor to outlet			Not present
Hand operated push button or level controls			
Spouts located near front with stream of water as			
parallel to front as possible			
If recessed, recess a minimum 30" width, and no			
deeper than depth of fountain			
If no clear knee space underneath, clear floor space			
30" x 48" to allow parallel approach			
Telephones			1
,			
Highest operating part a maximum 54" above the			Not present
floor			
Access within 12" of phone, 30" high by 30" wide			
Adjustable volume control on headset so identified			
SIGNS, SIGNALS, AND SWITCHES	1	1	
Specification	Yes	No	Comments/Transition Notes
Switches, Controls and Signs	•	•	•
_			
Switches and controls for light, heat, ventilation,			Not present
windows, fire alarms, thermostats, etc, must be a			'
minimum of 36" and a maximum of 48" above the			
floor for a forward reach, a maximum of 54" for a			
side reach			
Electrical outlets centered no lower than 18" above			
the floor			
Warning signals must be visual as well as audible			
Signs	1		
Mounting height must be 60" to centerline of the			Not present
sign			•
Within 18" of door jamb or recessed		1	
Letters and numbers a t least 11/4" high		1	
Letters and numbers raised .03"		1	
Letters and numbers contrast with the background		1	
color			

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area				
Specification	Yes	No	Comments/Transition Notes	
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides			Not present	
Lifting device				
Transfer area 18" above the path of travel and a minimum of 18" wide				
Unobstructed path of travel not less than 48" wide around pool				
Non-slip surface				

## LOCATION

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer use					
Specification	Yes	No	Comments/Transition Notes		
Stalls 36" by 60" minimum, with a 36" door opening			Not present		
Floors are pitched to drain the stall at the corner					
farthest from entrance					
Floors are non-slip surface					
Controls operate by a single lever with a pressure					
balance mixing valve					
Controls are located on the center wall adjacent to					
the hinged seat					
Shower heads attached to a flexible metal hose					
Shower heads attached to wall mounting adjustable					
from 42" to 72" above the floor					
Seat is hinged and padded and at least 16" deep,					
folds upward, securely attached to side wall, height					
is 18" to the top of the seat, and at least 24" long					
Soap trays without handhold features unless they					
can support 250 pounds					
2 grab bars are provided, one 30" and one 48" long,					
or one continuous L shaped bar					
Grab bars are placed horizontally at 36" above the					
floor line					

PICNICKING			
Specification	Yes	No	Comments/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access			No picnic facilities
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep.			
Top of table no higher than 32" above ground			
Surface of the clear ground space under and around the table must be stable, firma nd slip-resistant, and evenly graded with a maximum slope of 2% in all directions			
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter			