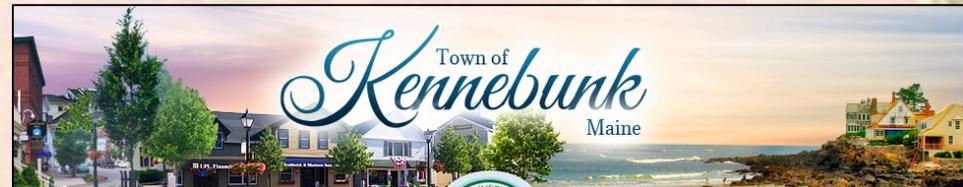
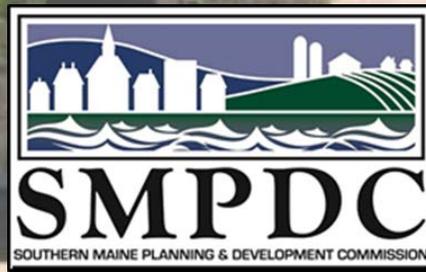


Open Space & Recreation Natural Resources

**KENNEBUNK COMPREHENSIVE PLAN
COMMITTEE**

WEDNESDAY, AUGUST 10, 2016



Overview – Open Space and Recreation

Open Space Plan (2004)

- Environmental Priority Areas
- Town Character Priority Areas

Recreational Facilities maintained by the Town

RSU 21 Recreational Facilities in Kennebunk

Kennebunk Land Trust Properties open to the public

Open Space in Kennebunk by owner

Open Space Plan, 2004

- Committee formed in 2001 amid concerns about loss of open space during 2001 Comp Plan process
- Definition of open space:
Underdeveloped land areas that have important ecological functions, natural resources, or cultural resources that are worthy of conservation and protection.
- Developed six goals and policies and strategies for reaching those goals
- List of Environmental Priority Areas based on resource value in relation to the level of protection (if any) and the potential vulnerability from development or use.
- List of Town Character Priority Areas based on the degree to which the landscapes and facilities provide opportunities for daily cultural exchange, the degree to which these open spaces foster a sense of place and community and whether the resource needs further protection and/or greater accessibility.

Town-Maintained Recreational Facilities

Recreational Facilities Maintained by the Town of Kennebunk Source: Town of Kennebunk

MAP #	FACILITIES	ACREAGE	AMENITIES
	Parsons Field 14 Park Street	7.3	2 tennis courts, 2-baseball field's multi-purpose field, basketball court, 2 volleyball courts, Harbor Playground, Youth Community Center, and picnic area.
	West Kennebunk Field Holland Road	4.9	2 tennis courts, basketball court, playground, baseball, softball, and multi-purpose fields, and picnic area.
	Lloyd G. Nedeau Park Clear Brook Crossing	9.13	Basketball court, playground, baseball and multi-purpose field, picnic area.
	Lower Village Park School House Lane	2.7	Basketball court, playground, baseball field, wiffle ball field, multi-purpose field and picnic area
	Rogers Pond Water Street	3.9	Picnic area, grills, pond, and fishing with small boat access to the river.

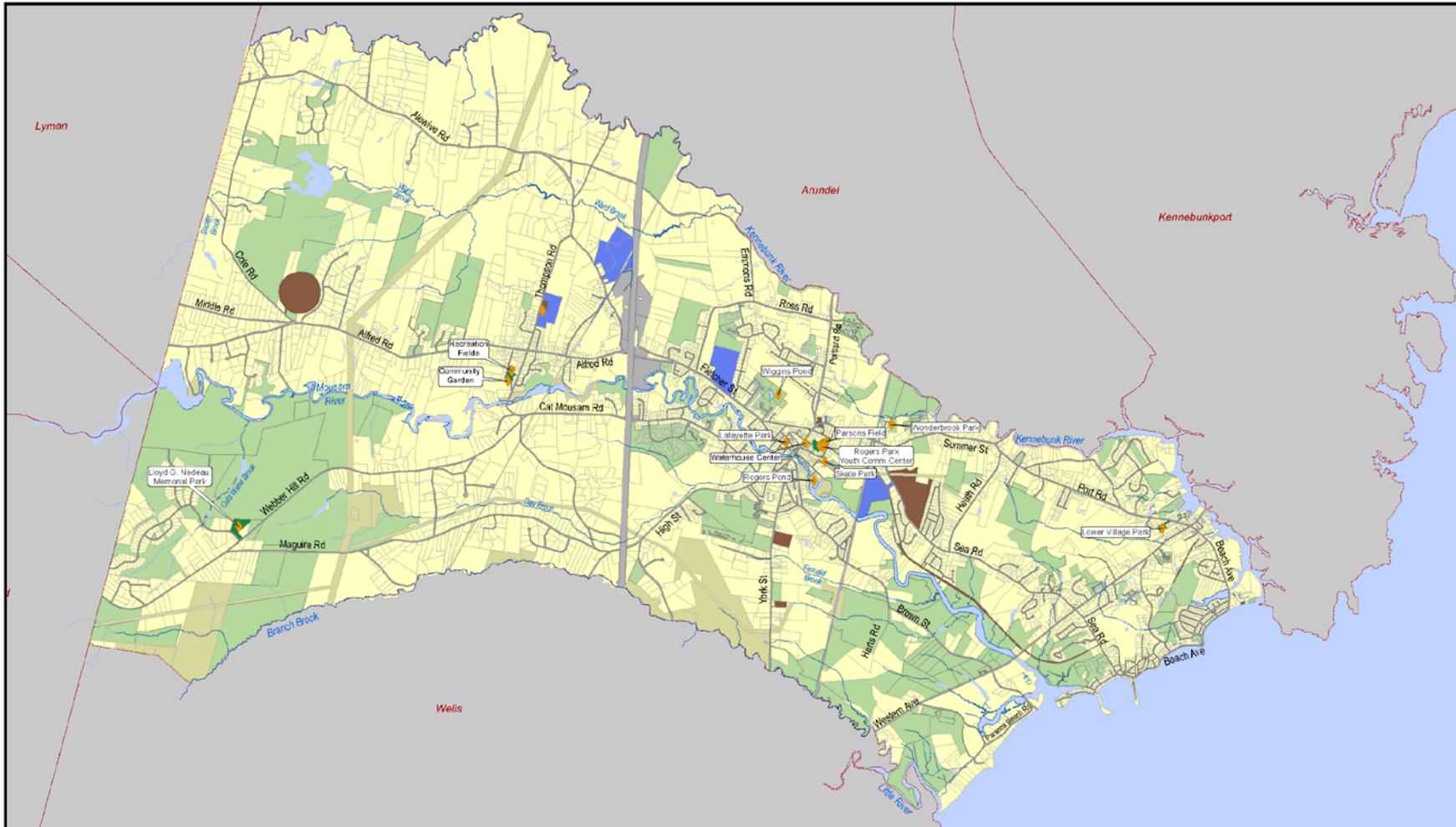
24 facilities listed in the Inventory chapter, including parks, gathering places and town-owned properties such as Town Hall.

RSU 21 Recreational Facilities

Recreational Facilities Operated by RSU 21 In Kennebunk

Map #	Facility	Amenities
A.	<u>High School</u> Fletcher Street	1 practice field, 1 football field, 2 softball fields, 2 baseball fields, 1 soccer field, 4 tennis courts, track, basketball, goals outdoor
B.	<u>Sea Road School</u> Sea Road	1 open field, 1 football field, 2 basketball courts, 1 playground
C.	<u>Middle School of the Kennebunks</u> Thompson Road	1 softball field, 1 soccer field, 1 baseball/field hockey field
D.	<u>Kennebunk Elementary School</u> Alewife Road	(2 multipurpose ball fields?)

Note: RSU 21 has additional facilities outside of Kennebunk



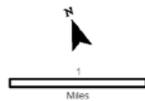
Data Sources:

Town of Kennebunk
Maine Office of GIS

Map Prepared by:



Map Produced: June 2016



Town of Kennebunk, Maine Comprehensive Plan Recreational Resources

Recreational Facilities

Tax Parcels (April 1, 2015)

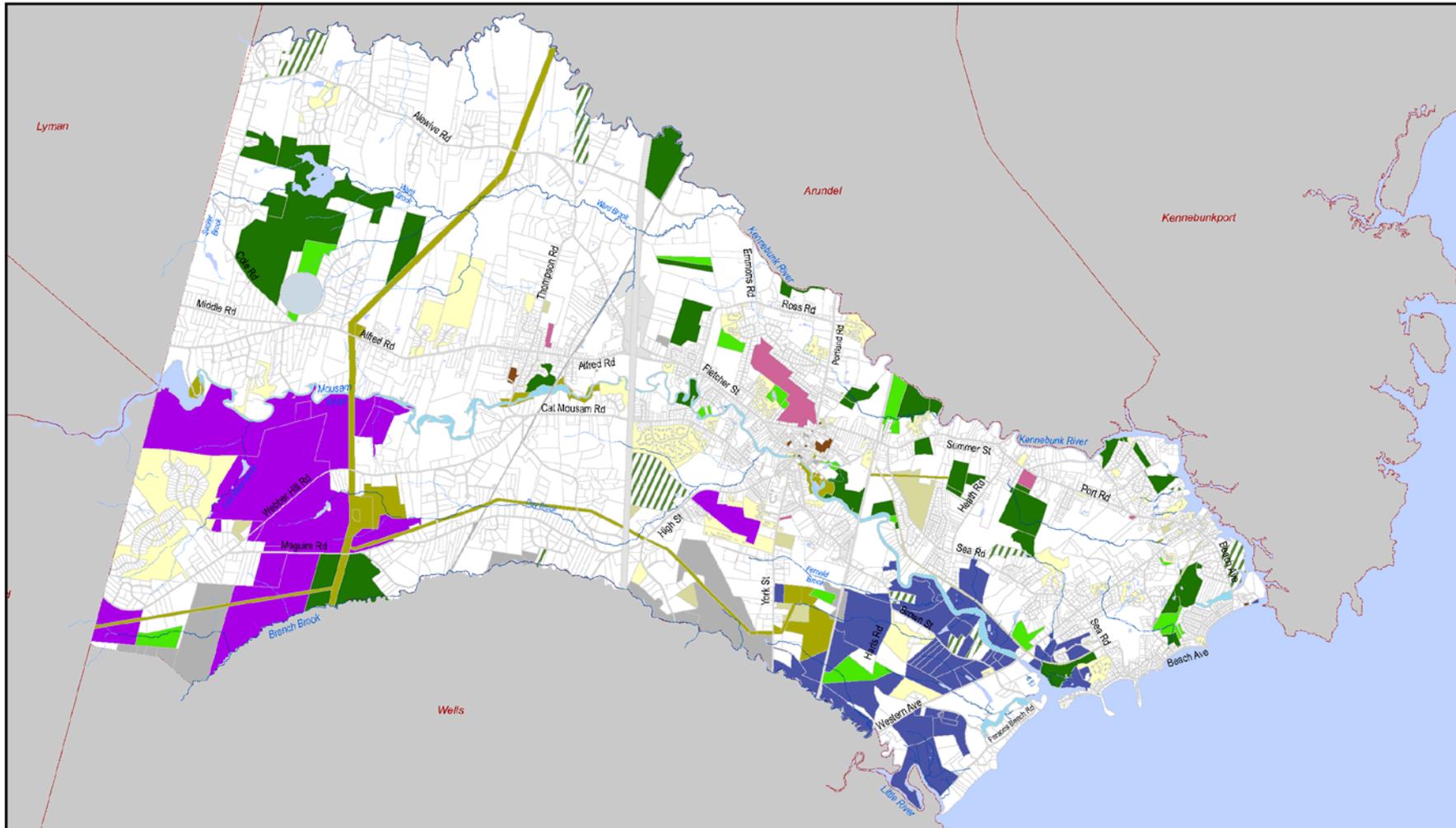
- | | |
|---------------------------|-----------------------|
| Parks | Government |
| Education | Recreation/Cemeteries |
| Conservation & Open Space | Transportation |
| | Utility |
| | Water |

Kennebunk Land Trust Properties

Kennebunk Land Trust Properties with Public Access

Source: Kennebunk Land Trust

Name	Access Location	Activities
Alewife Woods Preserve	Cole Road	Hiking, Snowshoeing, XC Skiing, Biking
Butler Preserve	Old Port Road	Hiking, Snowshoeing
Clark Preserve	Emmons Road	Hiking, Snowshoeing, Biking
Kennebunk Wildlife Management Area (now a Nature Conservancy property but Kennebunk Land Trust was a partner in protecting this land)	Route 99	Hiking, Snowshoeing, XC Skiing, Biking
Madelyn Marx Preserve	Route 9 or Sea Road School	Hiking, Snowshoeing
Mousam River Wildlife Sanctuary	Water Street	Hiking, Snowshoeing, Biking
Sea Road Preserve	Sea Road School	Hiking, Snowshoeing, XC Skiing, Biking
The Secret Garden	Port Road via Evergreen Cemetery	Hiking, Snowshoeing, Biking
Wonder Brook/Murphy Preserve	Plummer Lane	Hiking, Snowshoeing

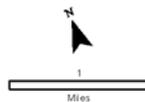


Data Sources:
Town of Kennebunk
Maine Office of GIS

Map Prepared by:



Map Produced: July 2015



Town of Kennebunk, Maine Comprehensive Plan Conservation Lands

Conservation Lands (April 1, 2015)

- | | |
|--|------------------------------|
| Land Trust Conservation | Federal Government |
| Town of Kennebunk Conservation; Town Conservation; Government, Kennebunk | Town of Kennebunk Recreation |
| State of Maine Conservation | Cemetery |
| Federal Conservation | Subdivision/Condo Set Aside |
| | Utility Owned |
| | Conservation Easements |

Trails

- Eastern Trail (begins in W. Kennebunk currently runs north to Arundel)
 - Second phase running south to Wells is being designed
- Bridle Path (runs along old rail ROW from Sea Road school)
- SMPDC, through funding from various grants, is in the process of identifying and expanding linkages to existing trails throughout York County
- Trails on Kennebunk Land Trust property open to the public mentioned in Transportation chapter

Open Space by Owner

Open Space

Source: Town of Kennebunk Assessor's Office

Owner	Acres Owned in 2003	Acres Owned in 2016
United States of America	949.33	1,030.32
Town of Kennebunk	279.65	357.47
Kennebunk Land Trust	1,136.38	1,287.41*
The Nature Conservancy	153.7	123
State of Maine	1446.7	1572.39
KK&W Water District	419.56	485.26
MSAD 71/RSU 21	136.54	172.6
Kennebunk Light & Power		24.02
Kennebunk Sewer District		12.71
Total	4,522.28	5,065.18
Total Town Acreage (23,000)		
Percent of Town that is Open Space	19.66%	22.61%

*Note: Includes the 111 acres that the Kennebunk Land Trust acquired in the spring of 2016

Overview – Natural Resources

Watersheds

Topography

Soils

Hydrology (rivers, ponds, streams, aquifers)

Beginning with Habitat

- Water Resources/Riparian Habitat
- High Value Plant and Animal Habitat
- Essential and Significant Wildlife Habitat
- Species of Special Concern

Threats to Natural Resources

- Conservation and Open Space Planning Commission

Watersheds

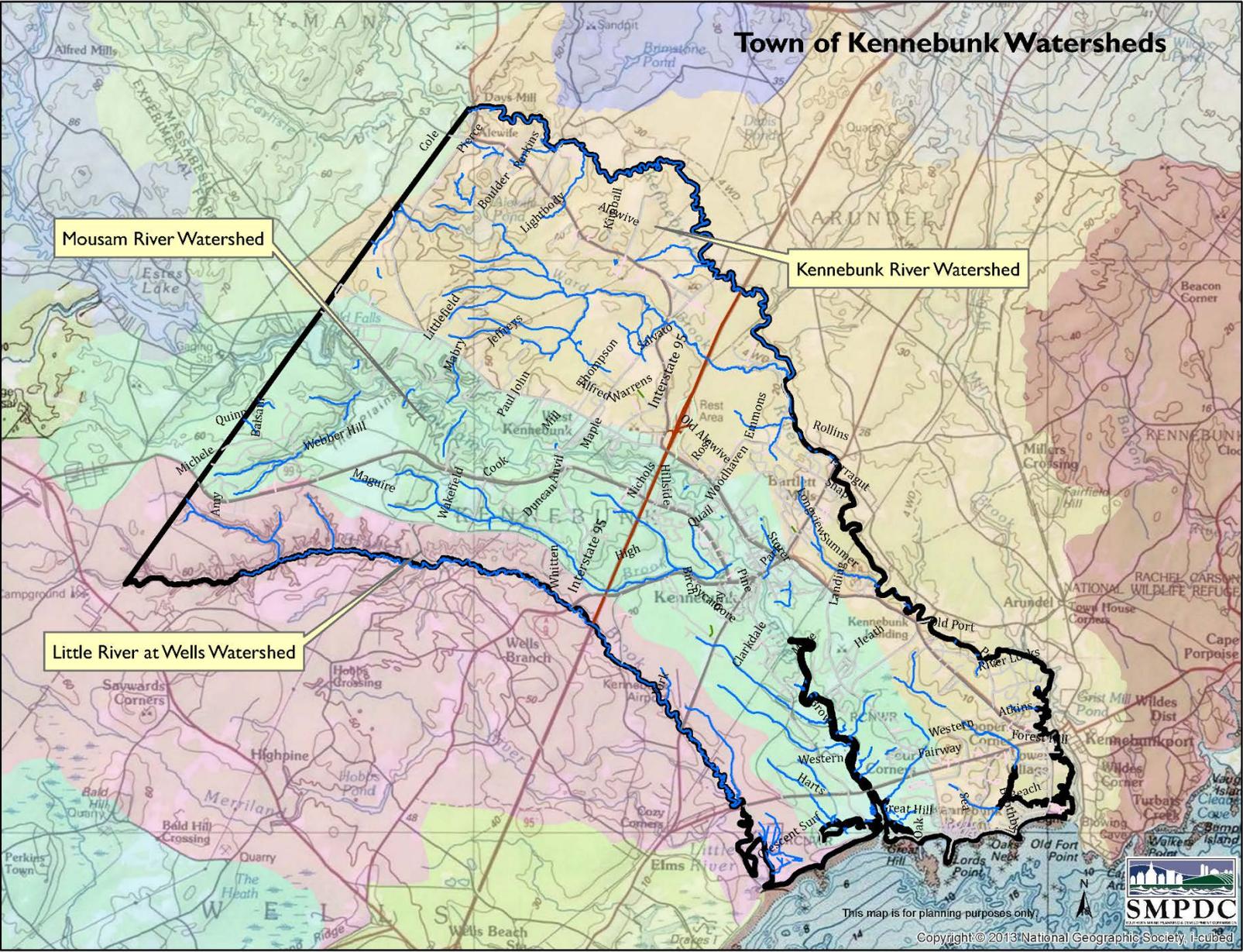
- A *watershed* is a geographic region defined by a ridge or ridges of high land draining into a river, river system, or other body of water
- Wells Reserve's Seacoast Watershed Information Manager (<http://swim.wellsreserve.org/watersheds.php>) and Maine's GIS data used
- Three watersheds in Kennebunk: Kennebunk River watershed, the Mousam River watershed, and the Little River watershed

Town of Kennebunk Watersheds

Mousam River Watershed

Kennebunk River Watershed

Little River at Wells Watershed

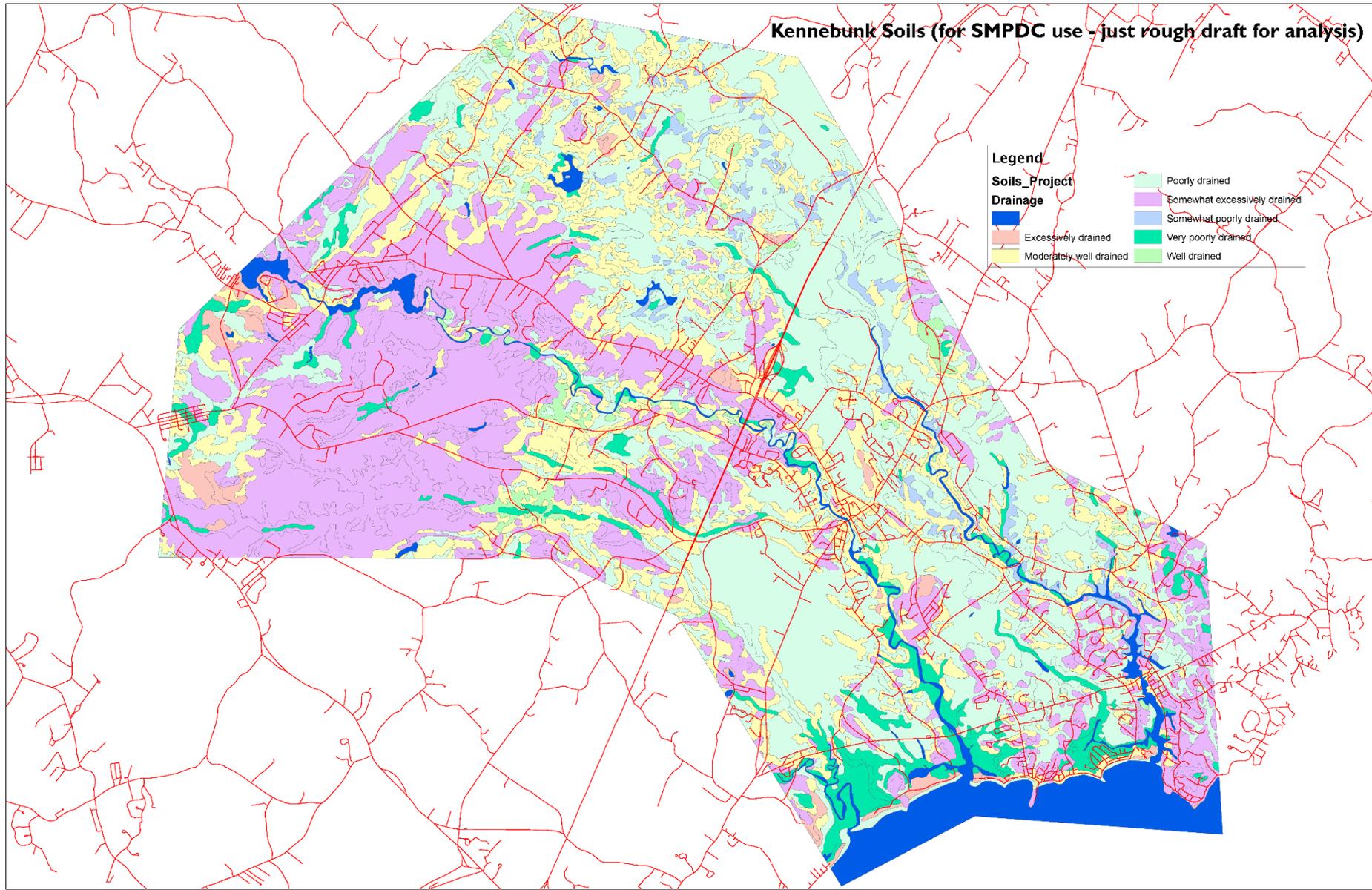


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Topography and Soils

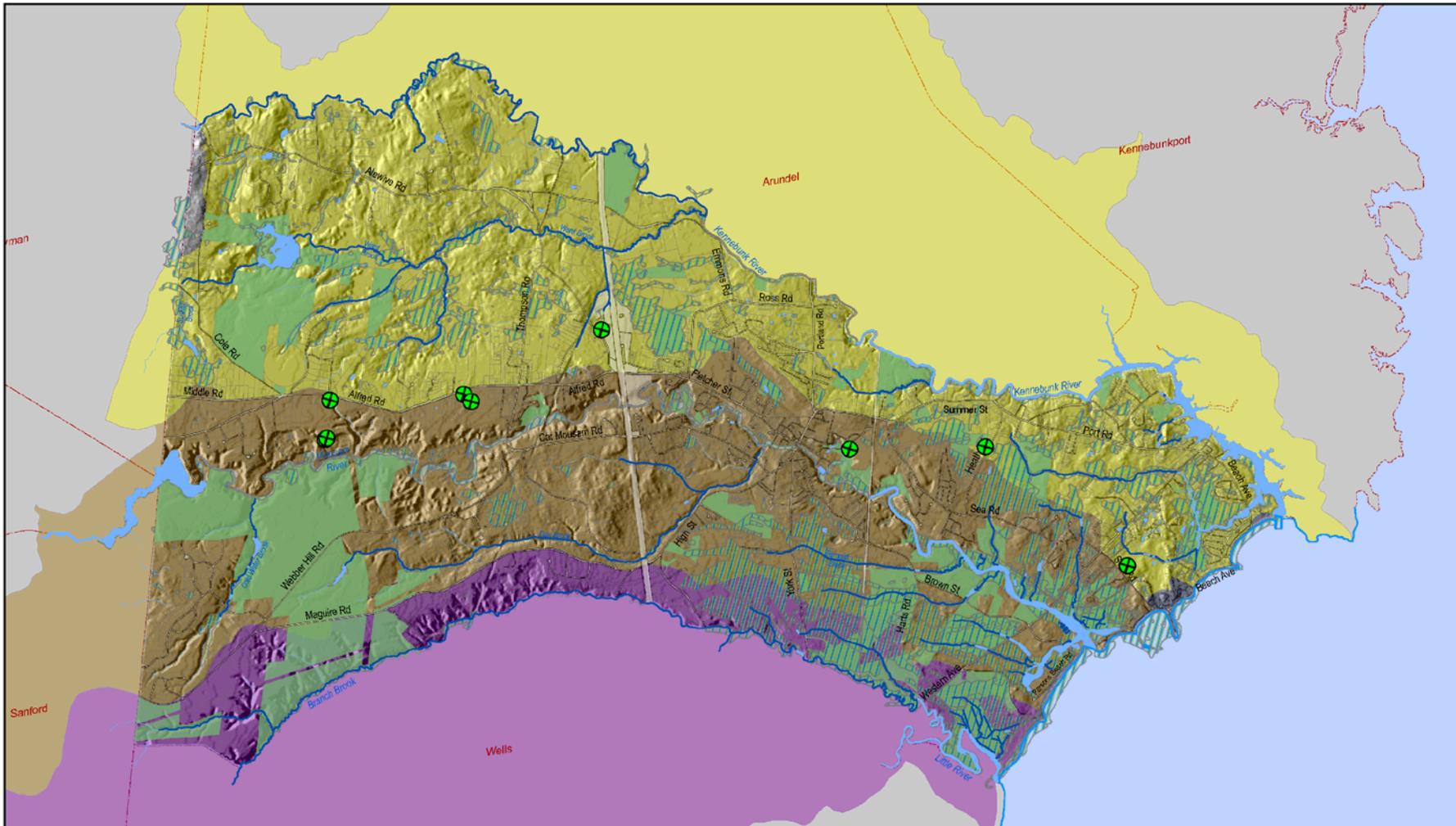
- Elevation defines the watershed boundaries for the three major rivers of Kennebunk with the land rising in a general east to west pattern within each watershed
- Elevations east of the Maine Turnpike between sea level and 100 feet of elevation, highest elevations occur mostly in the southwestern part of Town
- Over two dozen different soils, as identified by the Soil Conservation Service
- Approximately 50- 60% of the soils present are soils which cannot support typical subsurface on-site waste disposal

Kennebunk Soils (for SMPDC use - just rough draft for analysis)



Hydrology and Wetlands

- Floodplains - flat areas adjacent to rivers, streams, ponds and tidal waters
- Two large aquifers are located between the Mousam and Kennebunk Rivers.
- The highest concentration of wetlands is located east of the Maine Turnpike.
- Kennebunk regulates wetlands of one acre or larger and requires sign-offs from Maine DEP for all wetland permits.
- Two major salt marsh complexes (Little River and Mousam River/Back Creek) and smaller salt and brackish marshes associated with the Kennebunk River and Lake Brook Creek
- Three major rivers/streams, many smaller streams, Alewife Pond, Old Falls Pond, Cold Water Pond



Data Sources:
 Town of Kennebunk
 Maine Office of GIS

Map Prepared by:



Map Produced: July 2015
 See Comp Plan for further detail

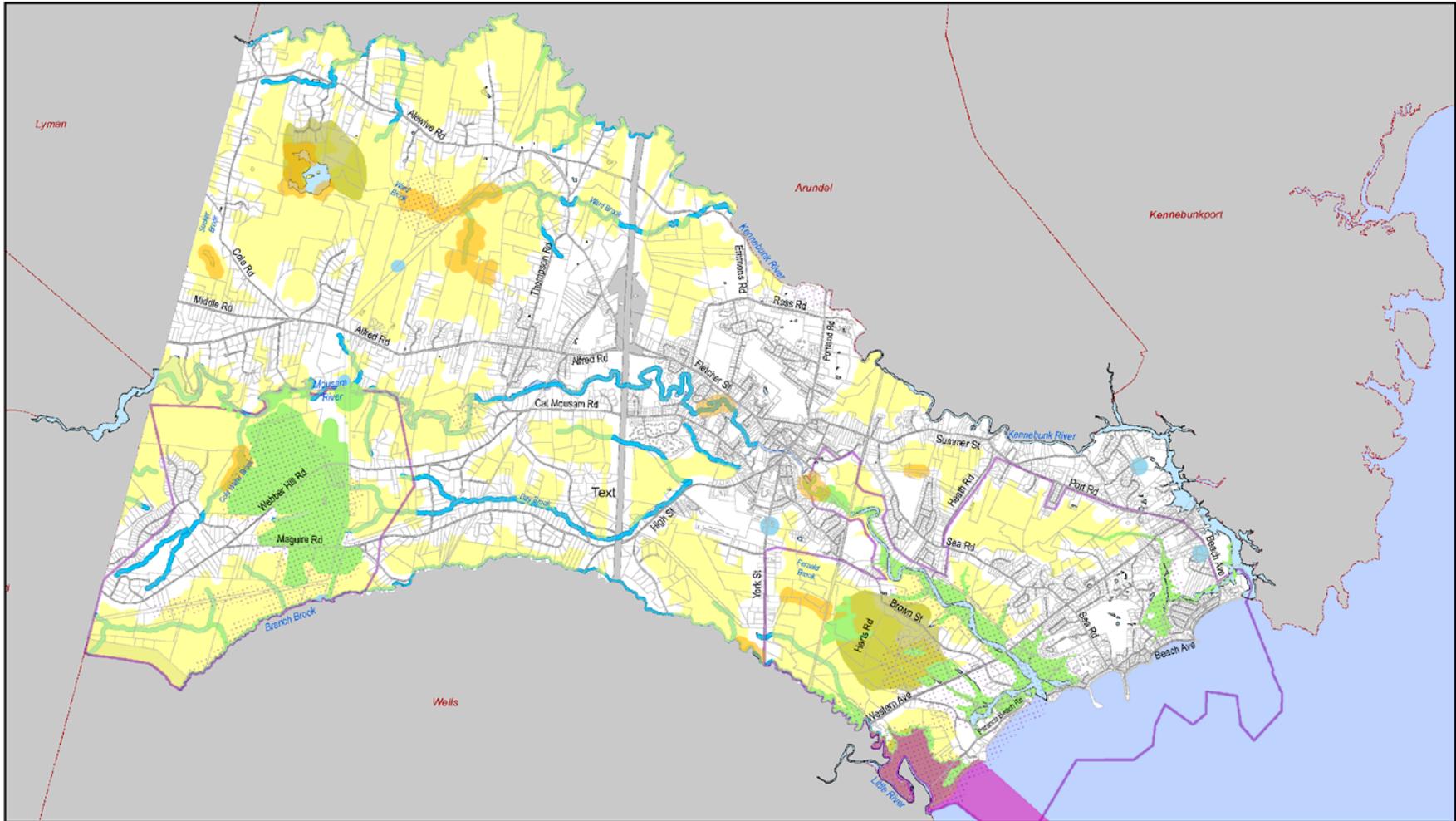


Town of Kennebunk, Maine Comprehensive Plan Water Resources

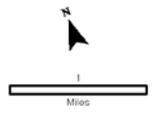
- | | |
|---|--|
|  Public Wells | Watersheds |
|  Coastline |  Branch Brook-Merriland River |
|  Stream/River |  Day Brook-Mousam River |
|  Intermittent Stream |  Kennebunk River |
|  Waterbodies |  Frontal Atlantic Ocean |
|  Wetlands | |
|  Conservation Lands | |

Beginning with Habitat

- Habitat-based approach to conserving wildlife and plant habitat in Maine on a landscape scale
- Brook trout habitat appears to exist within Branch Brook, western portions of Day Brook, Ward Brook, the Mousam River and Kennebunk River.
- Rare, threatened or endangered wildlife are the grasshopper sparrow, the black racer snake and the upland sandpiper
- The endangered and/or threatened species is the Piping Plover
- Significant wildlife habitat: candidate deer wintering areas, inland waterfowl and wading bird habitat, tidal waterfowl and wading bird habitat, shorebird areas, significant vernal pools
- Species of special concern: great blue heron and the saltmarsh sparrow, eight plants



Data Sources:
 Town of Kennebunk
 Maine Office of GIS
 Maine Natural Areas Program
 Maine Beginning With Habitat
 Map Prepared by:
 Spatial
 UltraSoft
 200 S. BROAD ST.
 PORTLAND, ME 04101
 SMPDC
 Map Produced: July 2016



Town of Kennebunk, Maine Comprehensive Plan Natural Resources

- Significant Vernal Pools (w/250 ft Buffer)
- Wild Brook Trout
- Inland Wading Birds
- Rare, Threatened, or Endangered Wildlife
- Least Tern, Plover
- Deer Wintering Areas
- Rare Plant Communities
- Undeveloped Blocks (> 100 acres)
- Ecologically Significant Areas

Threats to Resources

- Water: point and non-point sources of pollution
- Wetlands: sometimes development damages and reduces even when regulated
- Vernal pools: many are on private land and have not been inventoried
- Air and soil: pesticides and herbicides when overused or used improperly
- Conservation and Open Space Planning Commission have recommendations

Questions???

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