



PORTSMOUTH'S HISTORIC DISTRICT AND SEA LEVEL RISE

Local Advisory Committee Meeting 4 | October 12, 2017



LAC MEETING 4 - OUTLINE

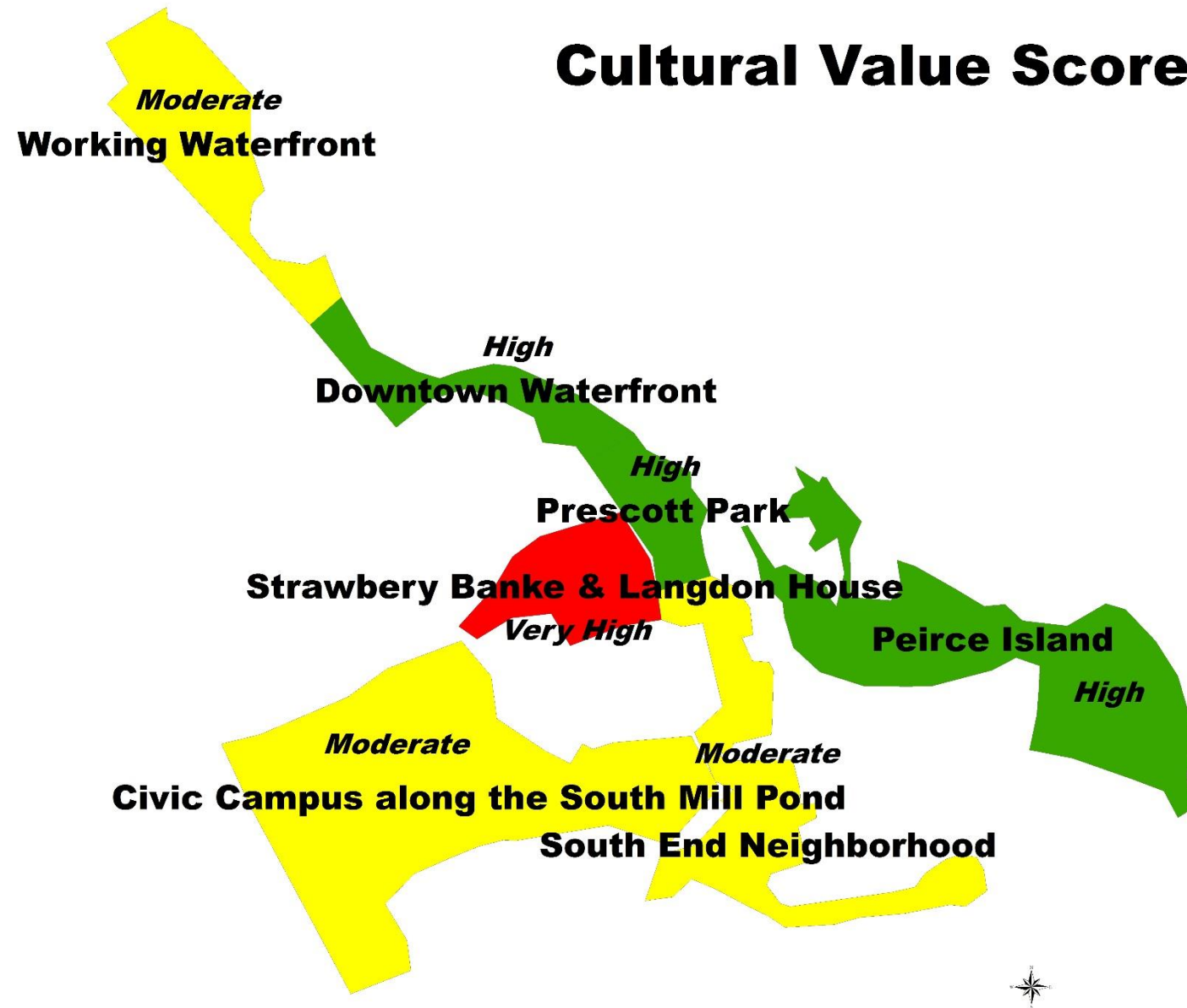
Mapping Update

- Risk Map
- Historic Inventory/Historic Values Map
- Cultural Value Areas/Cultural Values Map
- Monetary Values Map
- Composite Map
- Composite and Risk Map
- Strategy Areas

Adaptation Strategies

Next Steps

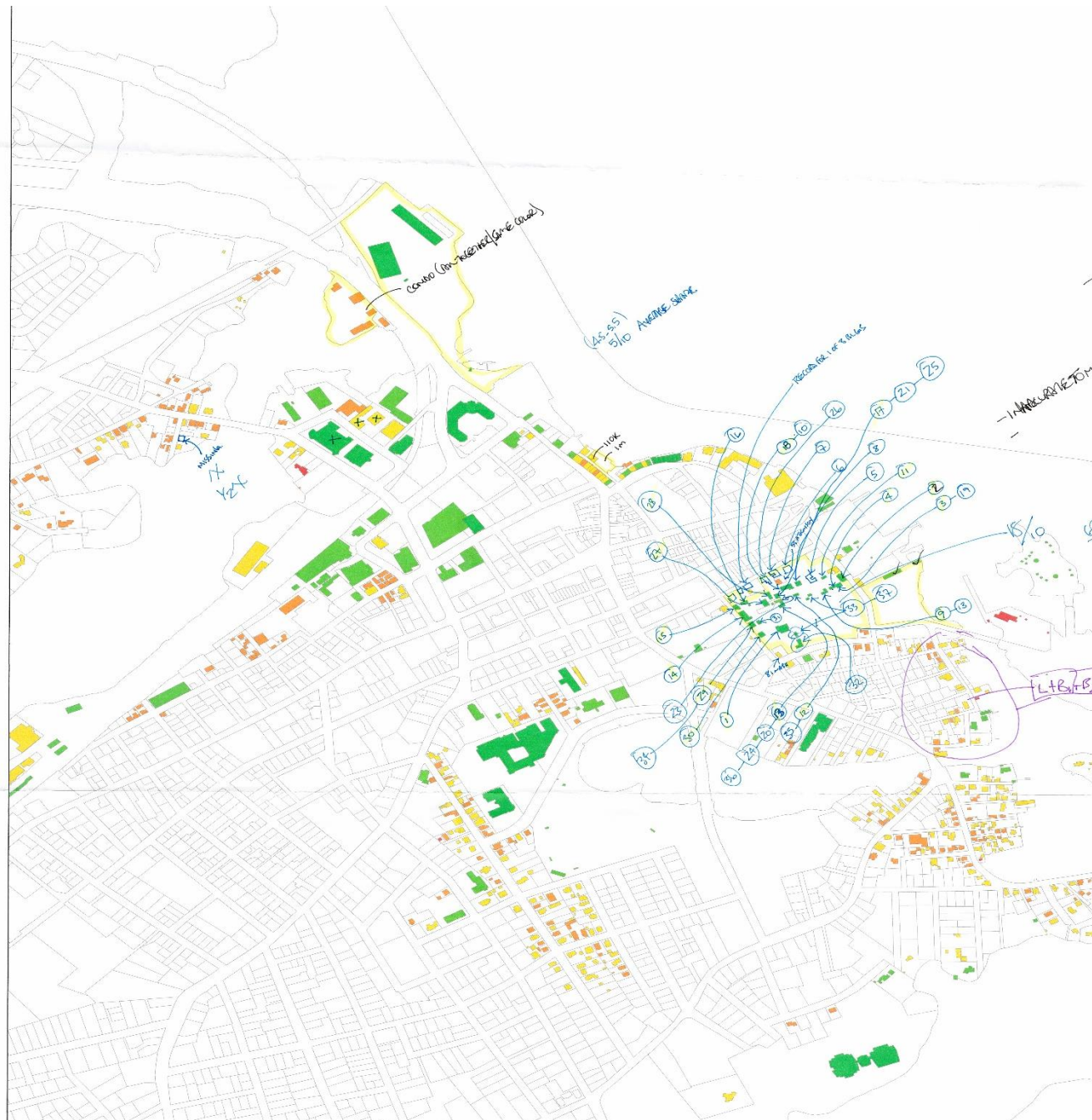
Cultural Value Scores



Consultants



Monetary Values Map



ISSUES

- BUILDINGS NOT LAMPS
- IMPROVED BULBS NOT NOT IMPROVED
- PRINCIPAL BULBS ONLY
- DEPRECATED VALUES
- MULTIPLE PRINCIPAL UNITS/BULBS ON SAME PARCEL

493,700 / 241,100

SS Anderson
104-10
37721 / 50432

50432

PE 20300+

65 Washington St
11,362,100

806,900 + 288,700 = 1,095,600

306,200

348,100

482,300

937,300

573,400

157,100

117,400

701,800

228,000

289,700

580,032 + 162,400

1,135,400

180

2700 Anderson St
60,847

24 810,100

25 96,500

26 568,300

27 621,700

28 241,700

29 341,000

30 404,100

31 44,900

32 549,300

7.2/4.2 = 4,168,100 + 14 = 2,60,506

61 Washington St
241,500 / 409,314

81 Washington St
267,700

Jefferson St
213,700

72-74 Jefferson St
208,800 (208)

19 140,444

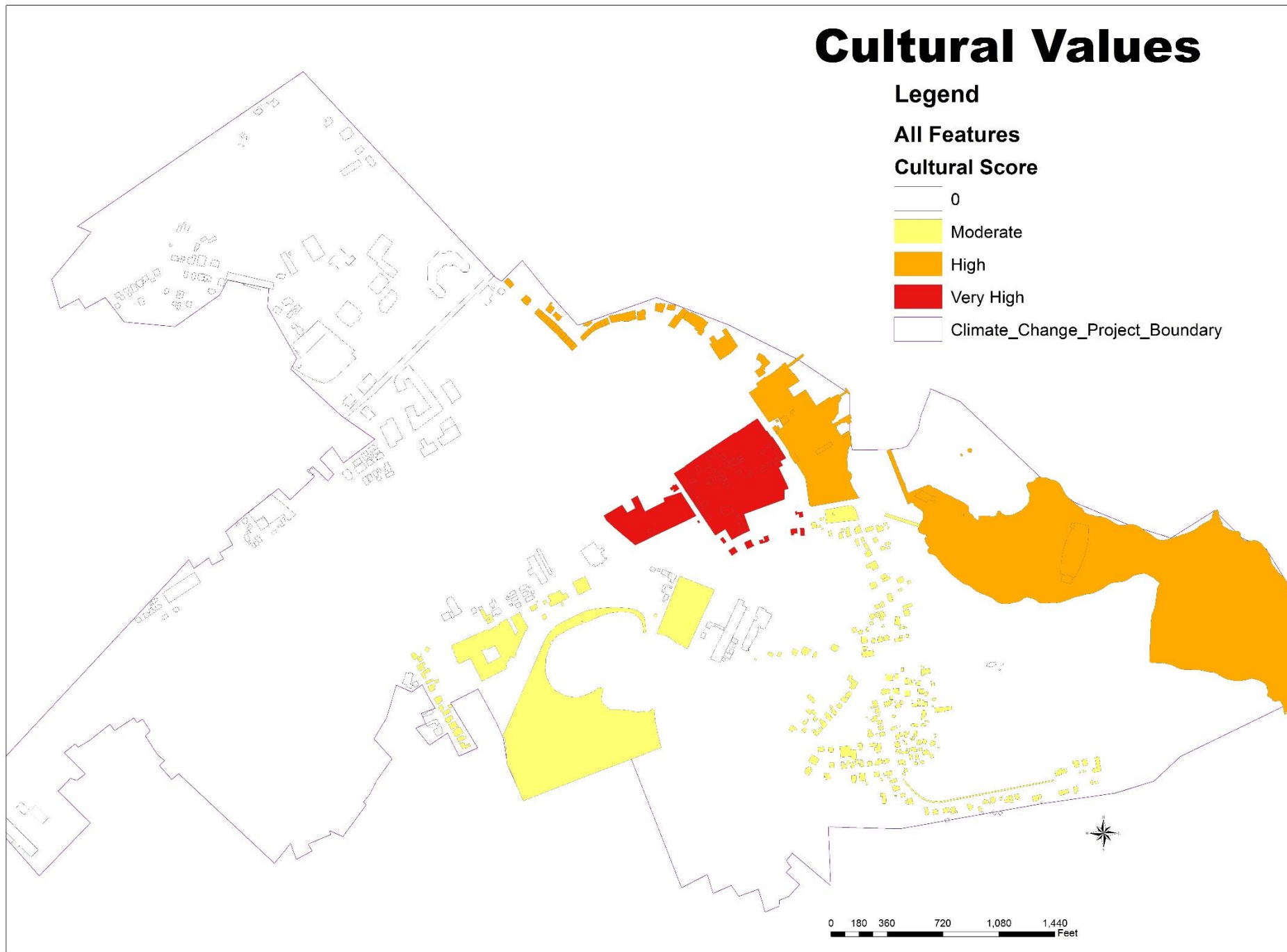
20 245,800

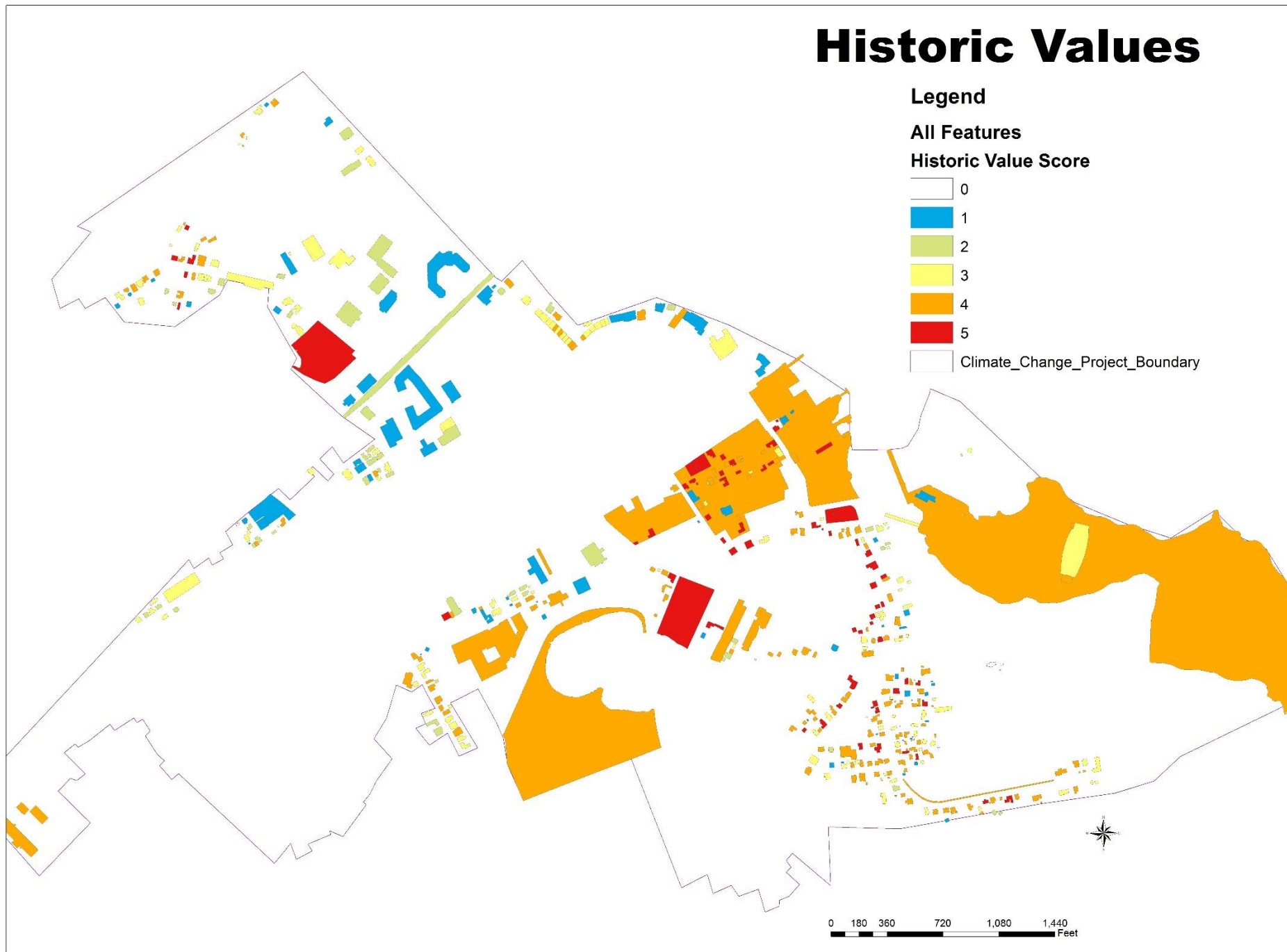
82 Madison St
128,700

21 128,700

22 423,100







Replacement Values

Legend

All Features

Replacement Values

1

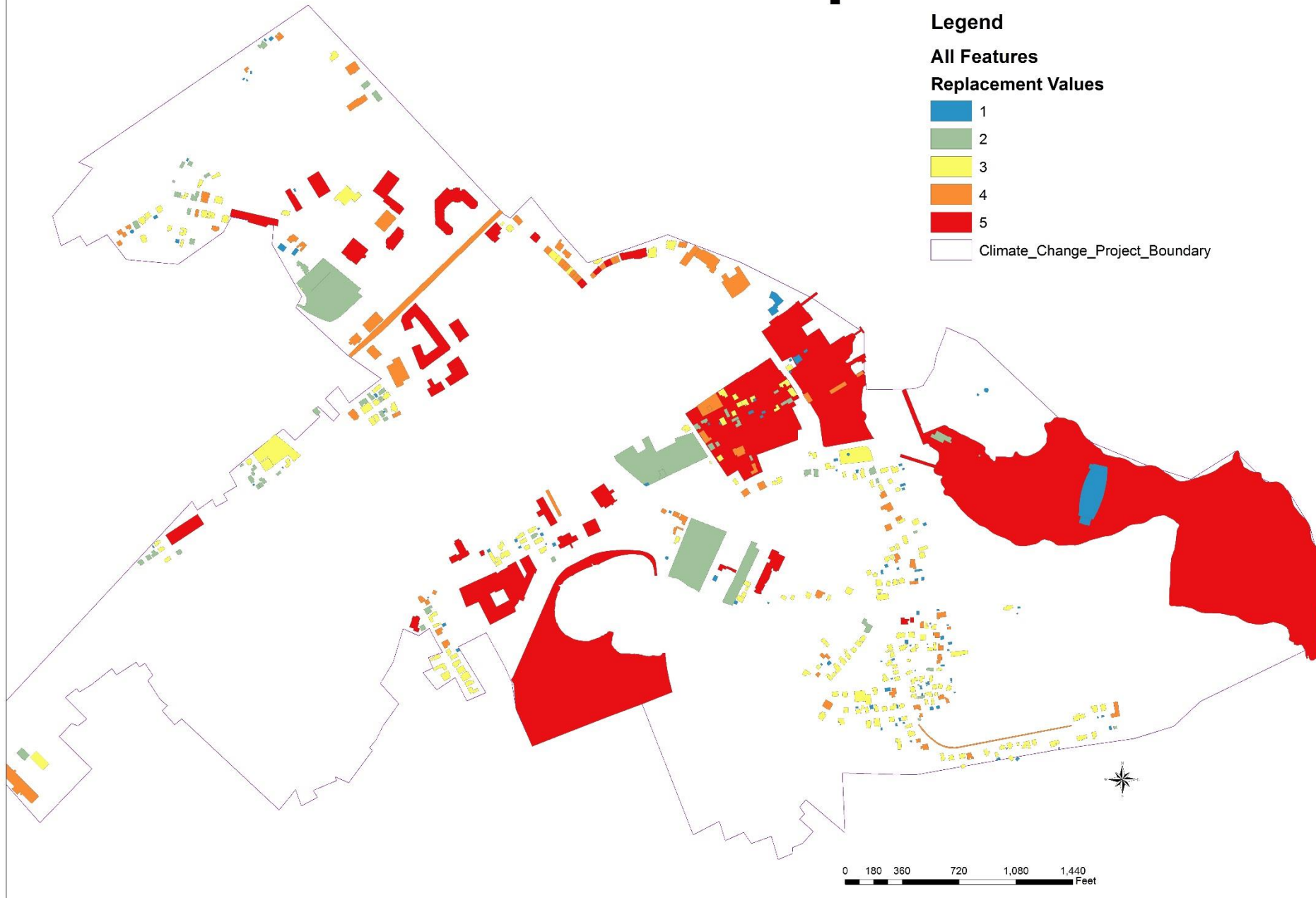
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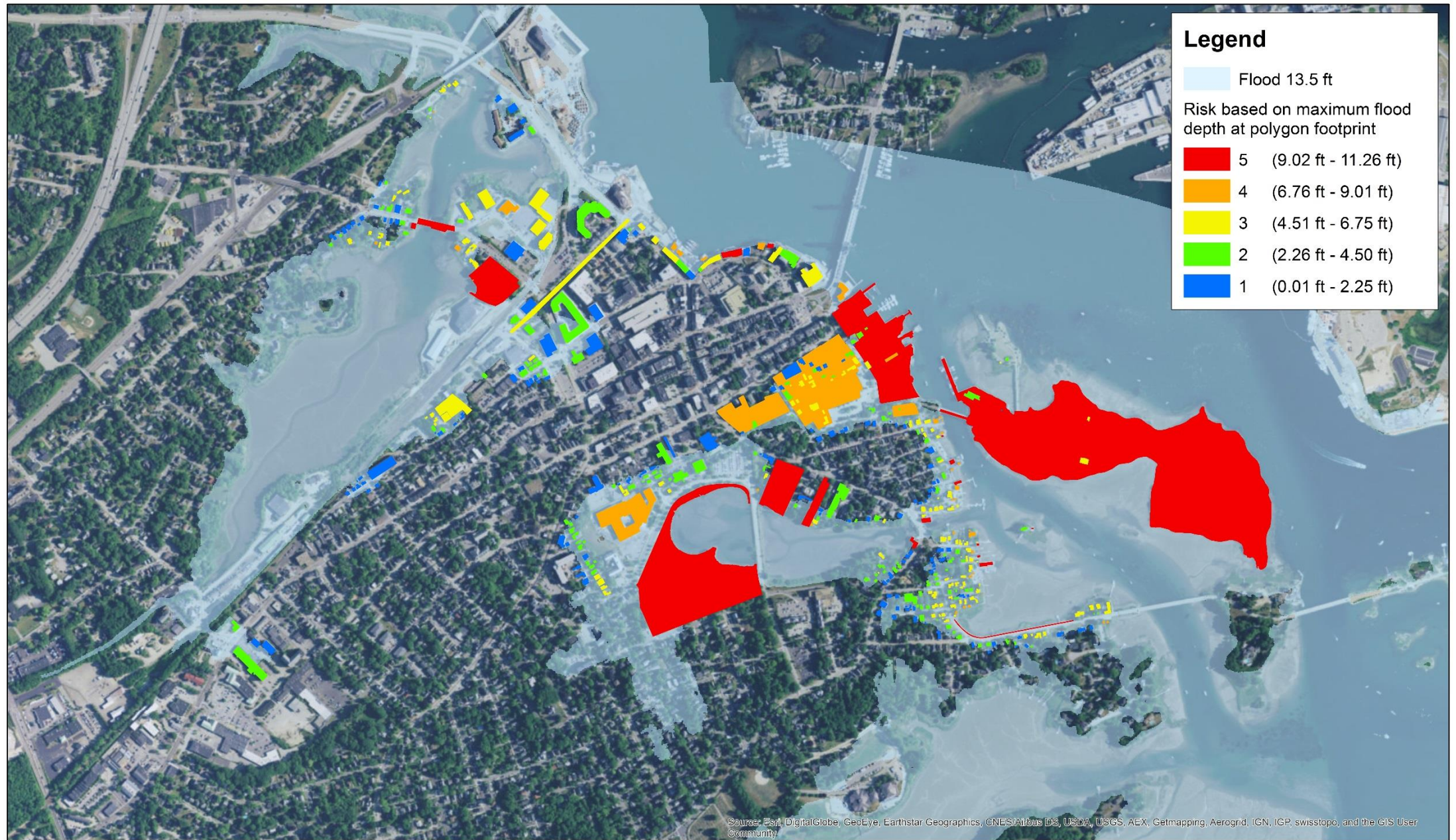
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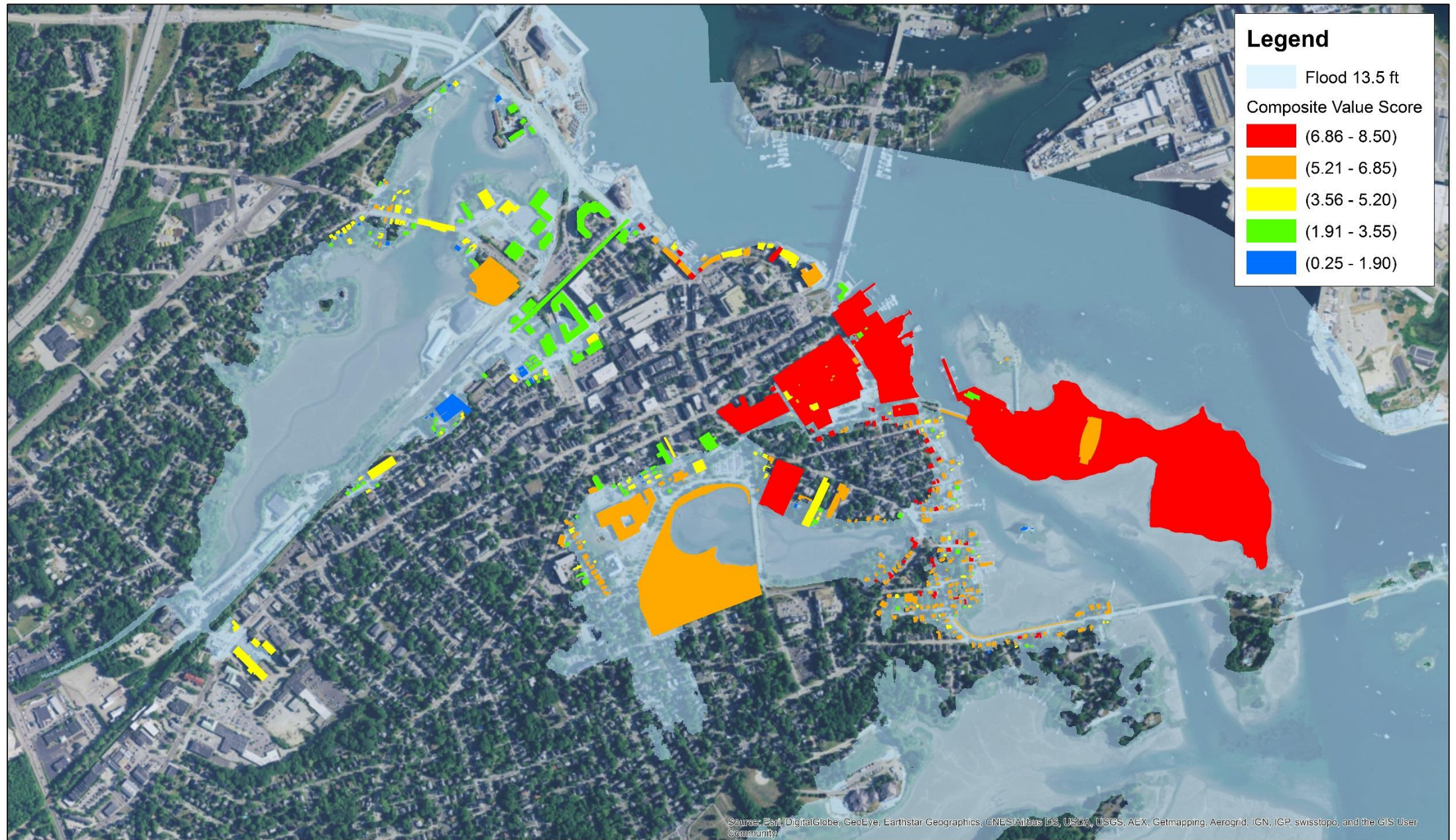
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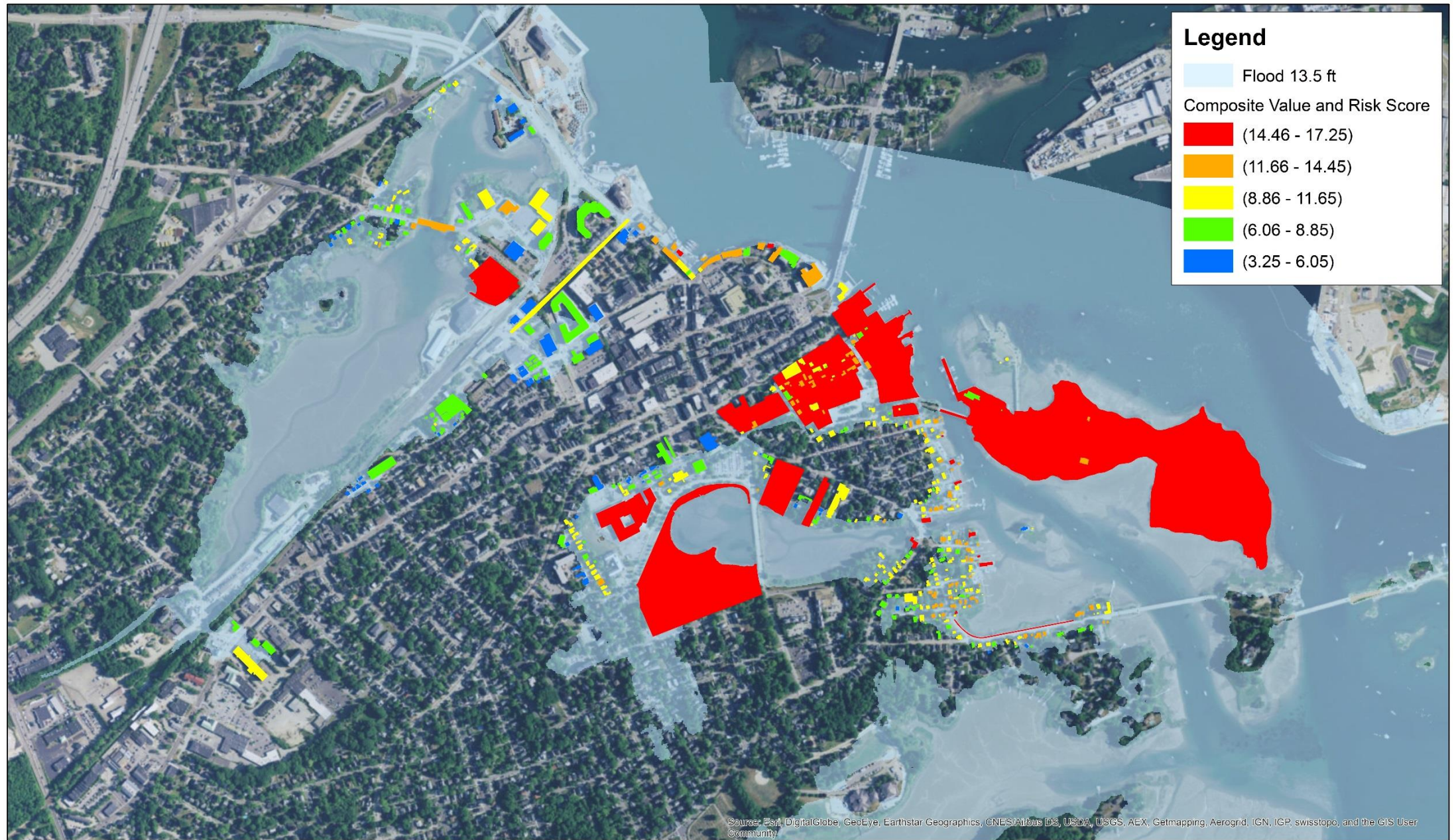
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Climate_Change_Project_Boundary



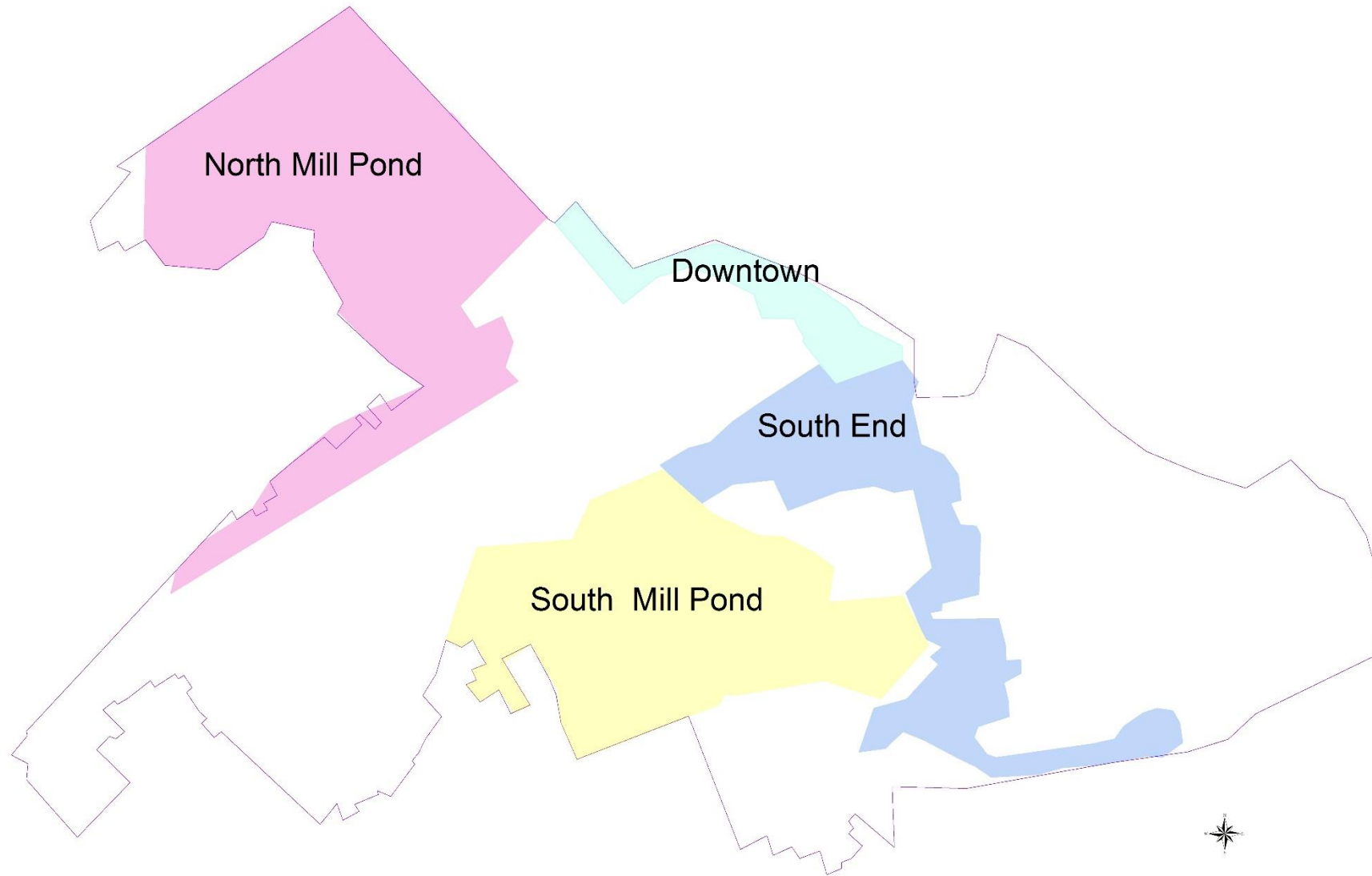






Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Strategy Areas



0 200 400 800 1,200 1,600 Feet



DRAFT Handout for Local Adaptation Committee Meeting #4, October 12 2017




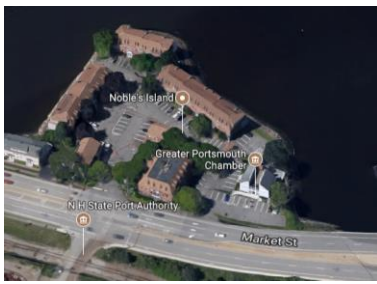
Example Adaptation Actions to Consider in Portsmouth's Historic District

In the adaptation planning document being developed by the City of Portsmouth, each of 16 candidate actions will be briefly evaluated for their feasibility and potential effectiveness in making Portsmouth's Historic District more resilient to the threats of storm surge and sea level rise. The actions below are a first draft of this list. They are grouped in four geographic focus areas – North Mill Pond, South Mill Pond, South End/Working Waterfront, and Downtown Working Waterfront. Each focus area has four examples of candidate actions: the first two are structure-specific and the second two are not. During LAC4 we will consider whether to move the location of any of these examples to sites that may be more representative of historic features LAC members are familiar with and concerned about.





- Any of the actions by themselves and even the entire set of actions if they were taken together would not make the individual structures or the whole District or completely resilient to the range of types of flooding to which the District is vulnerable.
- Similarly, all potential actions should be integrated into a coordinated stormwater management plan and set of stormwater infrastructure upgrades, one that encompasses the multi-directional threats from sea level rise, storm surge, and upland runoff.
- In developing these candidate actions, no consideration was given to local hydrology other than overlaps with the 13.5' flooding polygon. The table simply provides examples of some categories of action that, if carefully coordinated with a broad range of other activities that address local hydrological nuances in an integrated fashion, may contribute to an overall effort to prevent losses of historic, cultural, and economic value in the District.
- It is also recognized that each of the 16 examples represent cursory and introductory considerations of possible actions to consider in greater detail. Site specific field and office work should be pursued in each case to further evaluate whether the mentioned actions may be effective or desirable.

Many options and resources exist to help with such an effort. For example, besides detailed hydrologic modeling, which may be necessary to evaluate some of the actions, these two 8-minute videos have good background for considering wet and dry floodproofing activities: (wet: www.youtube.com/watch?v=kLI3N3fsmco; dry: www.youtube.com/watch?v=Wz6Ps78Skgk). The videos reference construction in Louisiana but most of the points are relevant to any such activity in Portsmouth.





North Mill Pond

Site	Candidate Action	Photo
230 Maplewood Avenue	Structural elevation, integrated with likely bridge redesign.	
3S Artspace Building, 333 Vaughan St.	Dry floodproof doors and openings, seal foundation and first several feet of brick, raise equipment in basement if any	
North Mill Pond Cemetery(ies)	Construct fortification – revetment, sea wall or other after evaluation	
500 Market Street buildings	Construct fortification – revetment, sea wall or other after evaluation, integrated with likely road redesign	



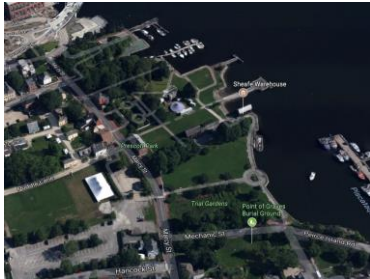
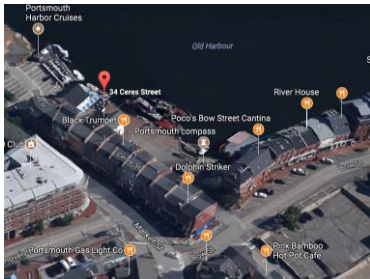
South Mill Pond

Site	Candidate Action	Photo
19 South Street	Wet floodproof structure in rear	
Portsmouth Middle School	Construct automatic flood gates	
South End of South Mill Pond	Construct fortification / Raise existing	
Hoefle Phoenix & Gormley, attorneys	Offer small business floodproofing rebate program	

South End Neighborhood/Strawberry Banke/Working Waterfront

Site	Candidate Action	Photo
Mombo, Gundalow and surrounding businesses	Wet floodproof, raise equipment in basement if any	
Sanders Lobster	Wet floodproof	
Revetment South of Sanders Lobster	Extend and strengthen existing fortifications around the length of the corner between Sanders Lobster and the existing seawall abutting the road.	
Meetinghouse Hill Area	Designate a floodproofing retrofit district, offer rebate program for residential retrofits; consider voluntary buyout program.	

Downtown Working Waterfront

Site	Candidate Action	Photo
10 State Street	Dry floodproof doors and openings, seal foundation and first several feet of brick, raise equipment in basement if any	
34 Ceres Street	Wet floodproof doors and openings, equipment in basement if any	
Marcy Street Corridor	Construct flood wall down center of Marcy and Mechanic Streets, making emergency closure options available (c.f. Cologne, Germany) to seal off downtown structures	
Bow and Market Streets	Designate a floodproofing retrofit district, offer rebate program for commercial retrofits.	

NEXT STEPS