

**CITY OF OAK HARBOR
SHORELINE MASTER PROGRAM UPDATE**

APPENDIX E – MAP FOLIO

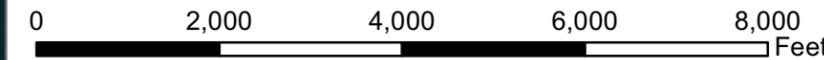
Figure 1: Proposed Minimum Shoreline Jurisdiction



Legend

-  Proposed Minimum Shoreline Jurisdiction
-  Associated Wetlands
-  Other Wetlands
-  Surface Water Connection
-  Ordinary High Water Mark
-  City Boundary

NOTE: Shoreline jurisdiction also includes all marine waters extending to the City's in-water jurisdictional boundary.



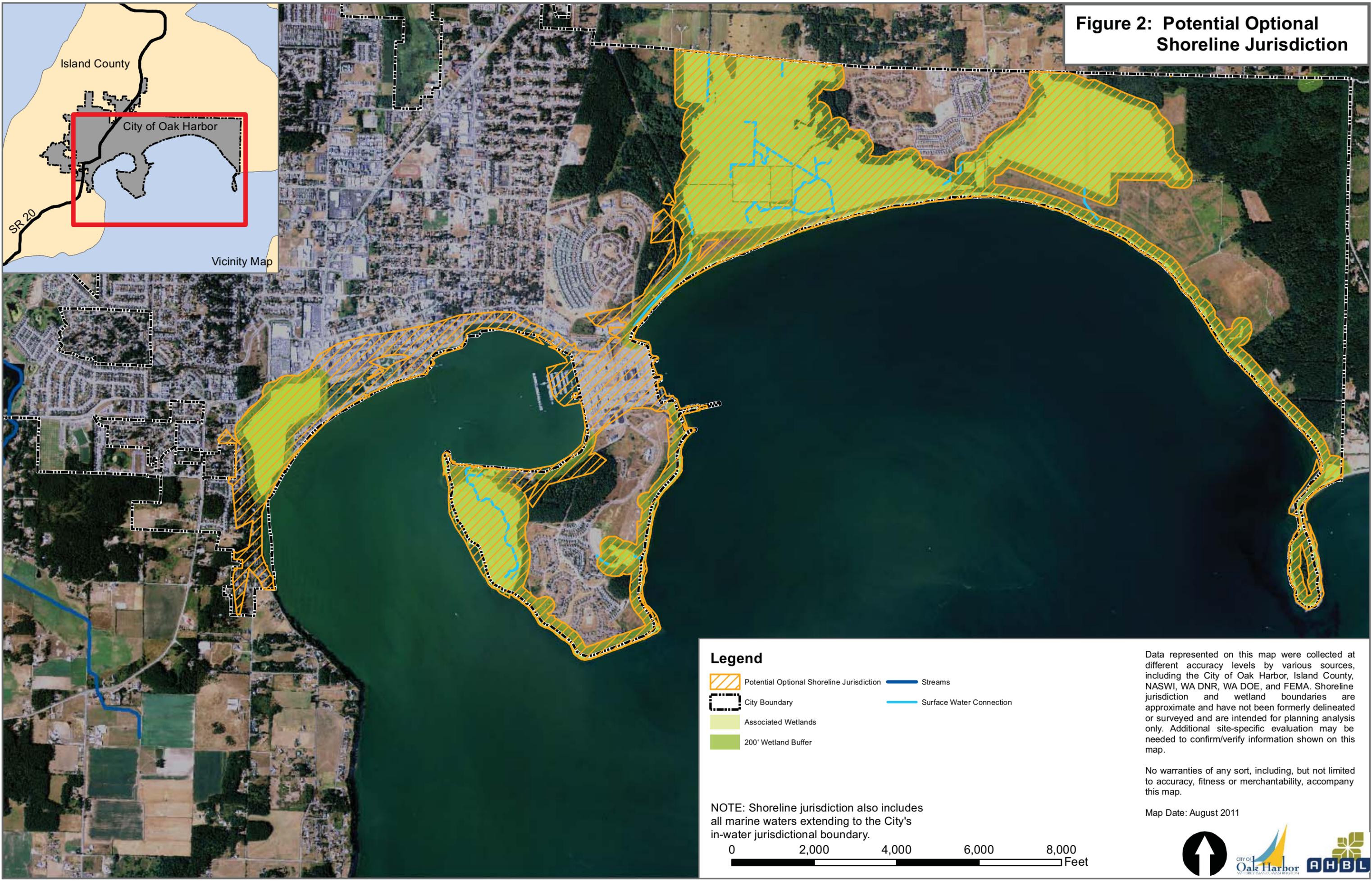
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Map Date: April 2011



Figure 2: Potential Optional Shoreline Jurisdiction



Legend

- Potential Optional Shoreline Jurisdiction
- City Boundary
- Associated Wetlands
- 200' Wetland Buffer
- Streams
- Surface Water Connection

NOTE: Shoreline jurisdiction also includes all marine waters extending to the City's in-water jurisdictional boundary.



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Map Date: August 2011



**Figure 3a - Critical Areas:
Geologically Hazardous Areas and
Wetlands**



Legend

-  Slopes > 15%
-  Moderate-High Liquefaction Susceptibility
-  Mapped Wetlands
-  200' Wetland Buffer
-  Streams
-  City Boundary

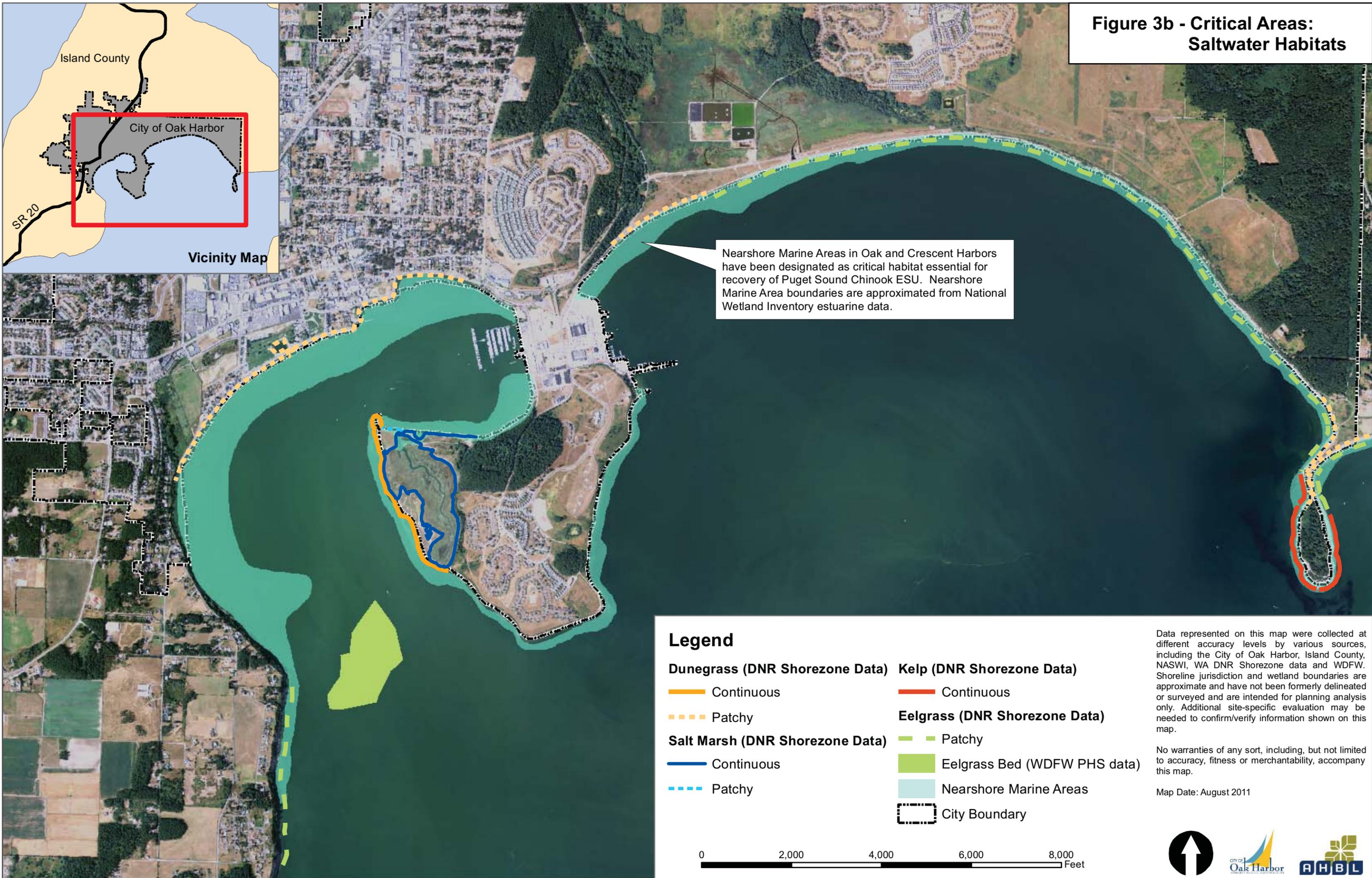
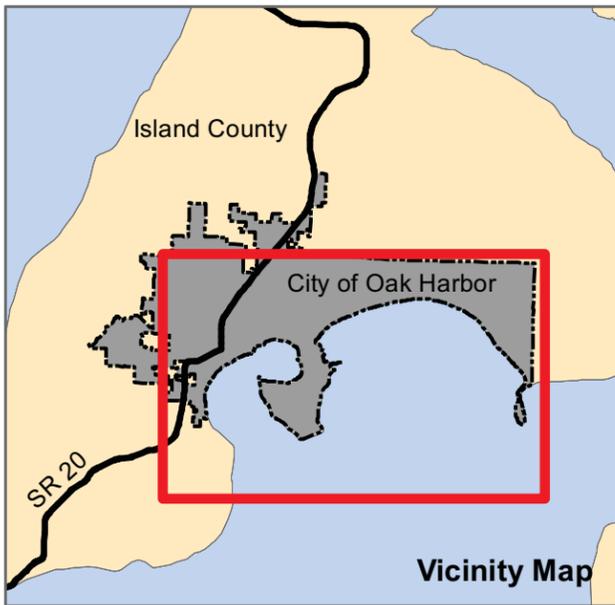
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Map Date: August 2011



**Figure 3b - Critical Areas:
Saltwater Habitats**



Nearshore Marine Areas in Oak and Crescent Harbors have been designated as critical habitat essential for recovery of Puget Sound Chinook ESU. Nearshore Marine Area boundaries are approximated from National Wetland Inventory estuarine data.

Legend

- | | |
|--|--------------------------------------|
| Dunegrass (DNR Shorezone Data) | Kelp (DNR Shorezone Data) |
| — Continuous | — Continuous |
| - - - Patchy | |
| Salt Marsh (DNR Shorezone Data) | Eelgrass (DNR Shorezone Data) |
| — Continuous | - - - Patchy |
| - - - Patchy | ■ Eelgrass Bed (WDFW PHS data) |
| | ■ Nearshore Marine Areas |
| | □ City Boundary |

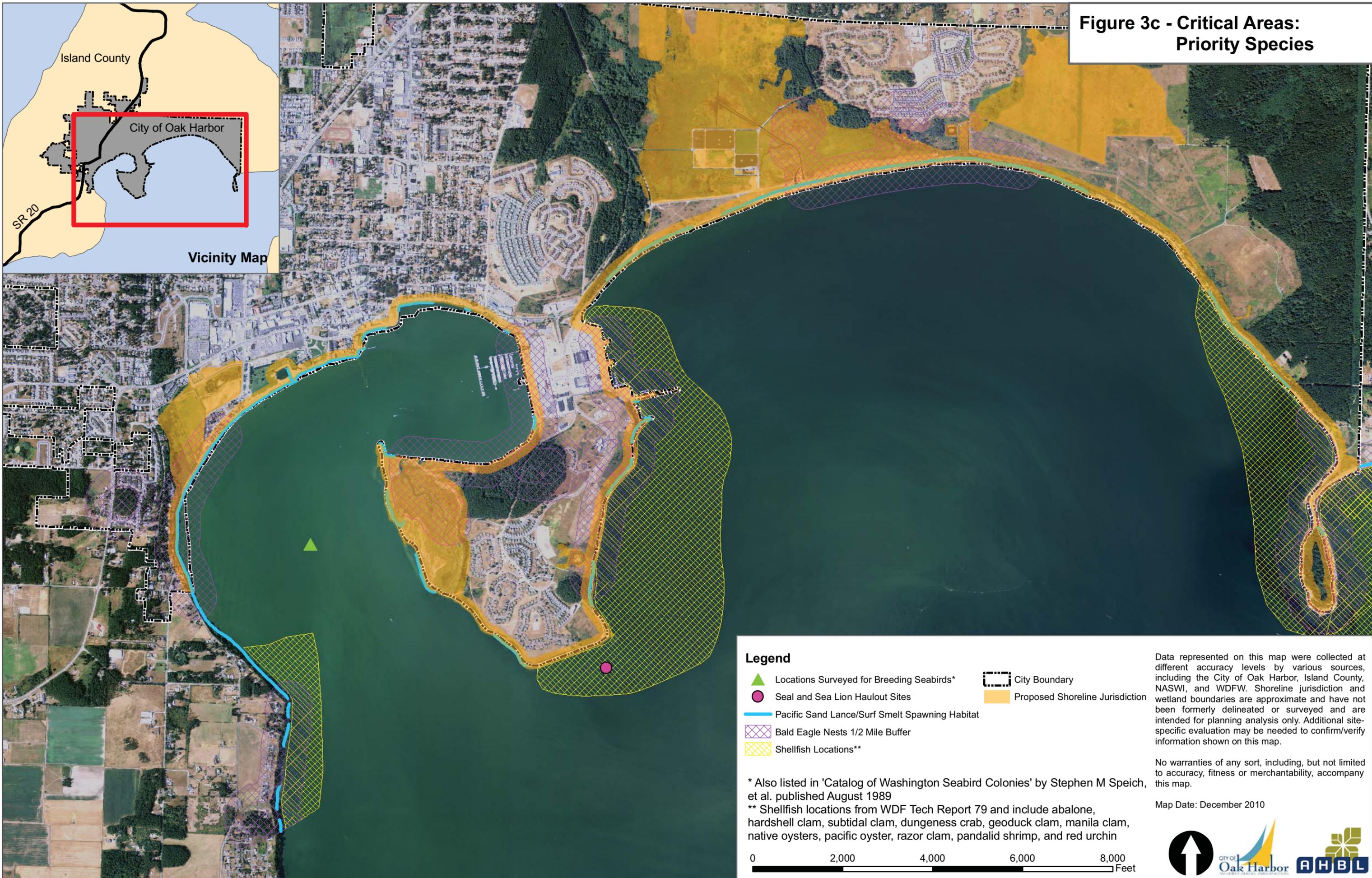
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**Figure 3c - Critical Areas:
Priority Species**



Legend

- ▲ Locations Surveyed for Breeding Seabirds*
- Seal and Sea Lion Haulout Sites
- Pacific Sand Lance/Surf Smelt Spawning Habitat
- Bald Eagle Nests 1/2 Mile Buffer
- Shellfish Locations**
- City Boundary
- Proposed Shoreline Jurisdiction

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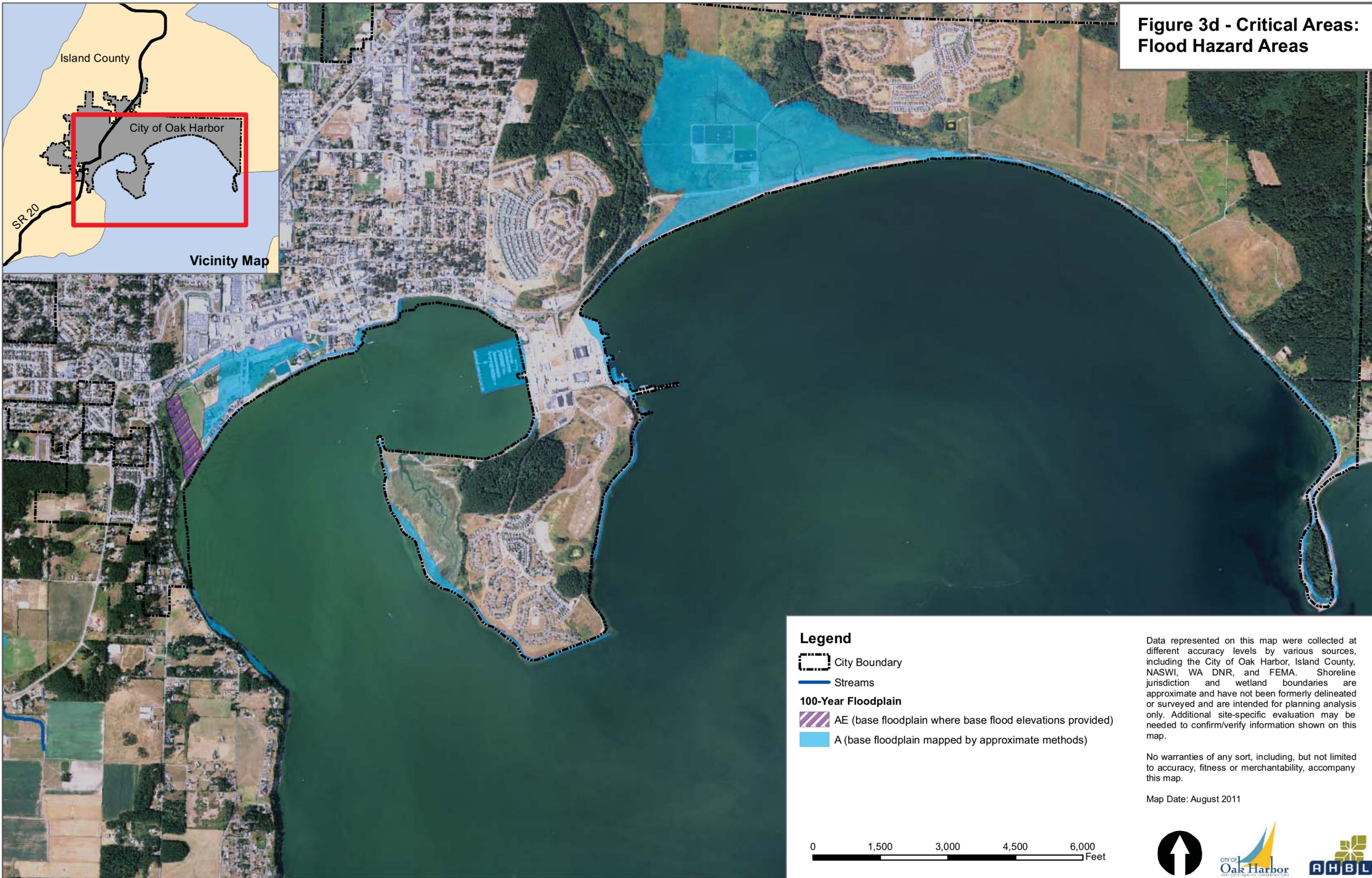
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Map Date: December 2010

* Also listed in 'Catalog of Washington Seabird Colonies' by Stephen M Speich, et al. published August 1989
 ** Shellfish locations from WDF Tech Report 79 and include abalone, hardshell clam, subtidal clam, dungeness crab, geoduck clam, manila clam, native oysters, pacific oyster, razor clam, pandalid shrimp, and red urchin



**Figure 3d - Critical Areas:
Flood Hazard Areas**



Island County

City of Oak Harbor

SR 20

Vicinity Map

Legend

City Boundary

Streams

100-Year Floodplain

AE (base floodplain where base flood elevations provided)

A (base floodplain mapped by approximate methods)

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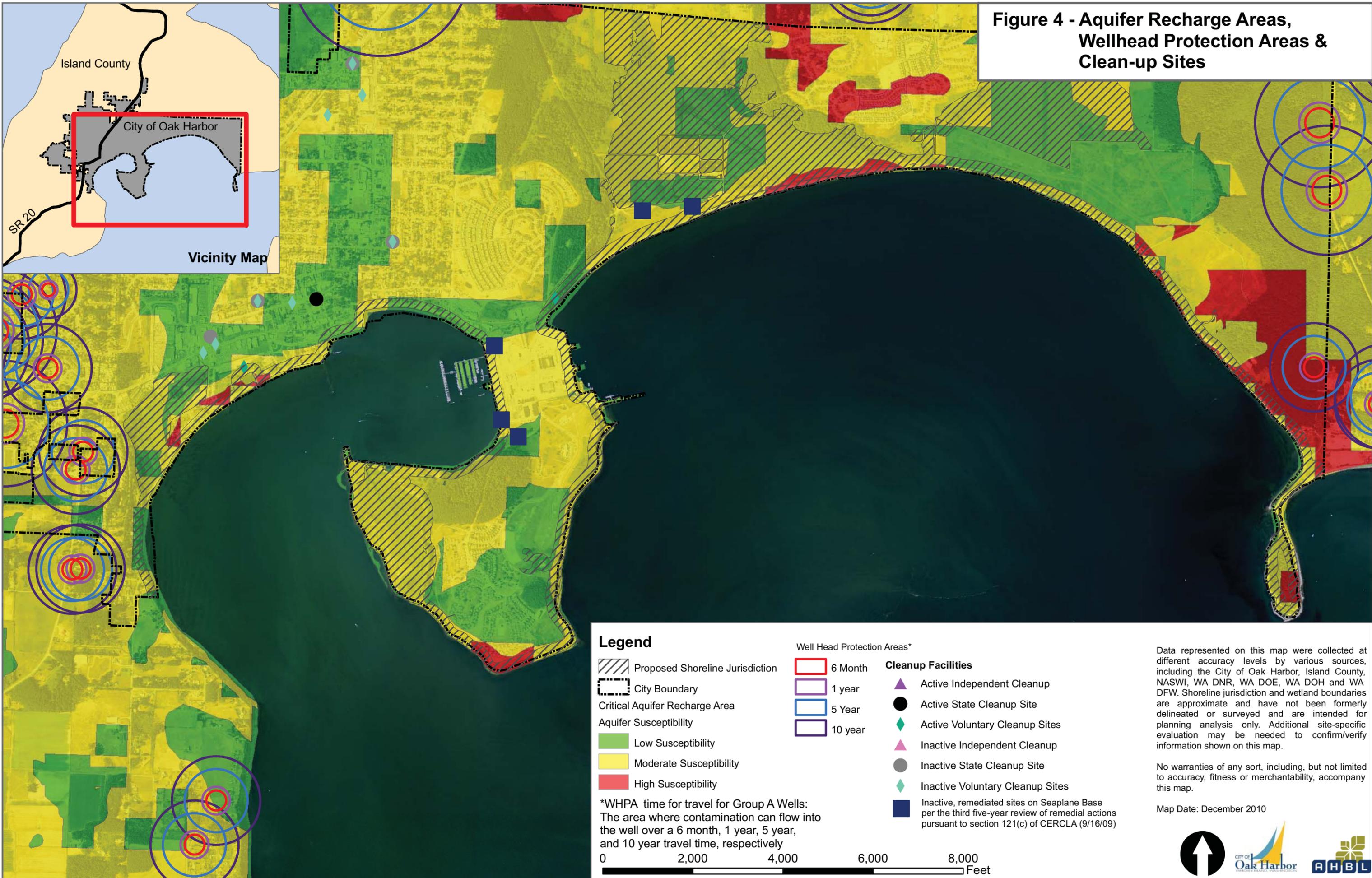
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Map Date: August 2011

0 1,500 3,000 4,500 6,000 Feet



Figure 4 - Aquifer Recharge Areas, Wellhead Protection Areas & Clean-up Sites



Legend

- Proposed Shoreline Jurisdiction
- City Boundary
- Critical Aquifer Recharge Area
- Aquifer Susceptibility**
- Low Susceptibility
- Moderate Susceptibility
- High Susceptibility

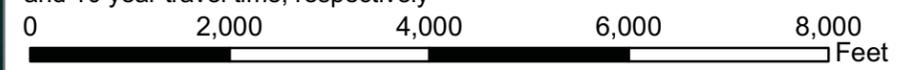
Well Head Protection Areas*

- 6 Month
- 1 year
- 5 Year
- 10 year

Cleanup Facilities

- Active Independent Cleanup
- Active State Cleanup Site
- Active Voluntary Cleanup Sites
- Inactive Independent Cleanup
- Inactive State Cleanup Site
- Inactive Voluntary Cleanup Sites
- Inactive, remediated sites on Seaplane Base per the third five-year review of remedial actions pursuant to section 121(c) of CERCLA (9/16/09)

*WHPA time for travel for Group A Wells:
The area where contamination can flow into the well over a 6 month, 1 year, 5 year, and 10 year travel time, respectively



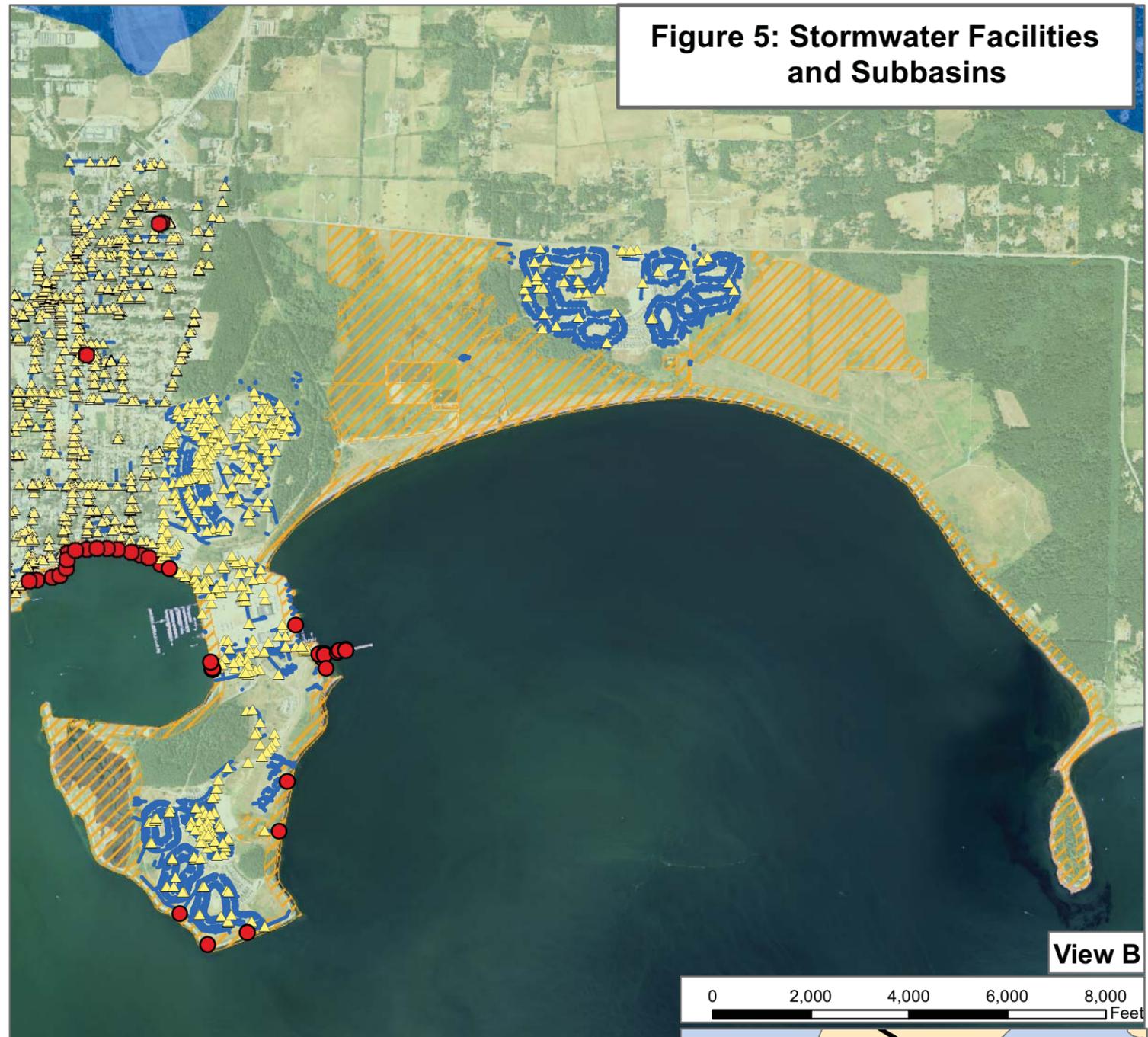
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Map Date: December 2010



Figure 5: Stormwater Facilities and Subbasins



Legend

-  Proposed Shoreline Jurisdiction
- Subbasins (Hydrologic Unit 12)**
-  Whidbey Island-Frontal Skagit Bay
-  Whidbey Island-Saratoga Passage
-  Documented Outfall
-  Catchbasin
-  Storm Drain Lines

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Map Date: June 2011

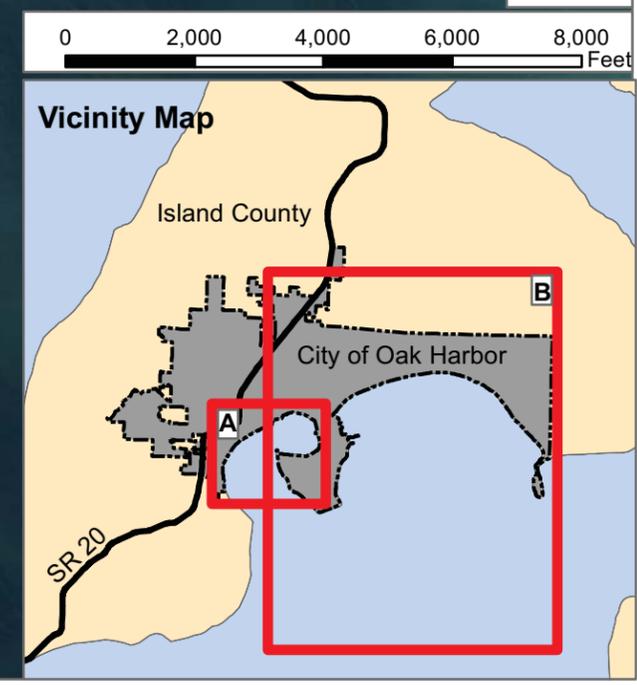
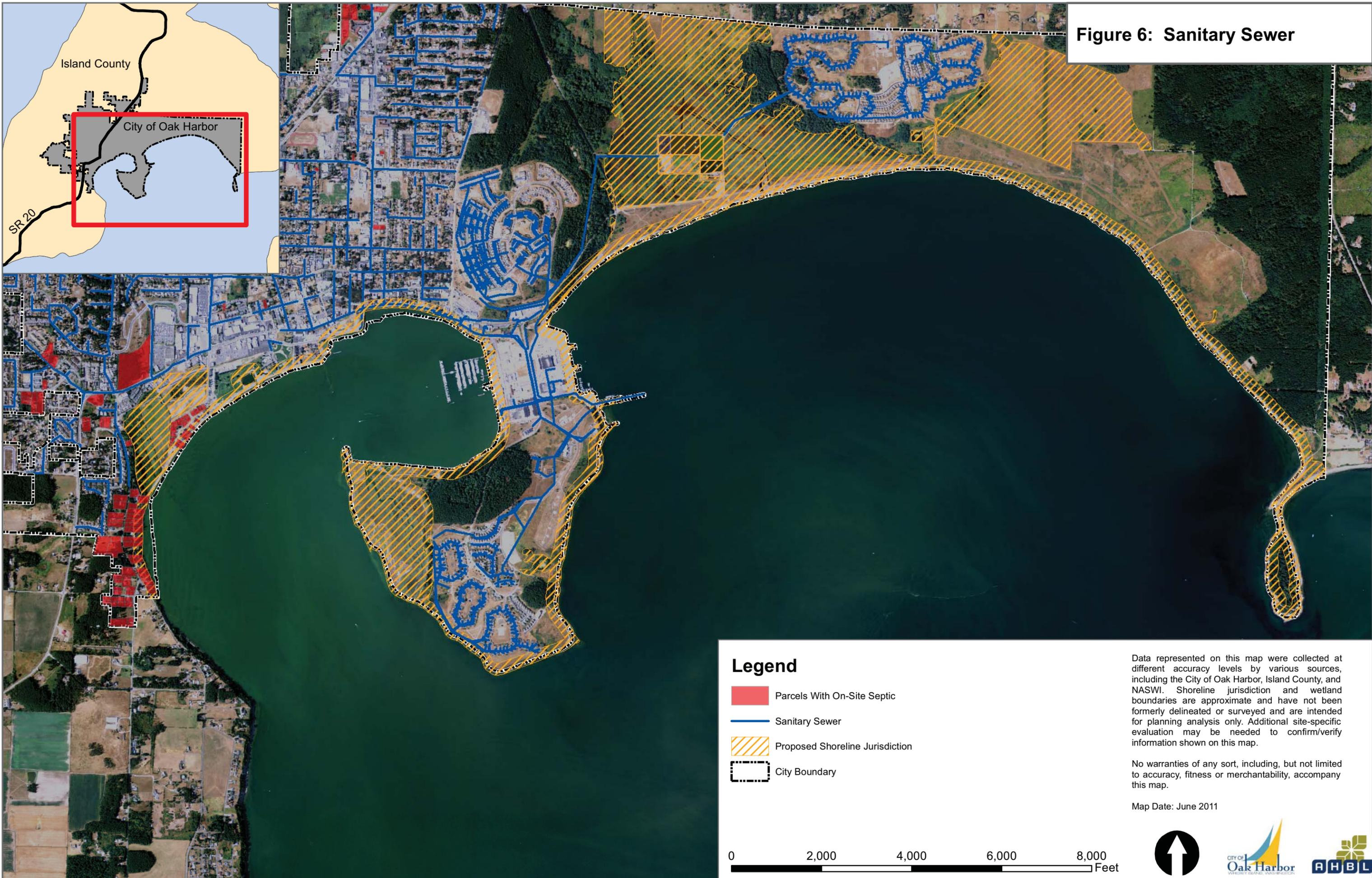


Figure 6: Sanitary Sewer



Legend

-  Parcels With On-Site Septic
-  Sanitary Sewer
-  Proposed Shoreline Jurisdiction
-  City Boundary

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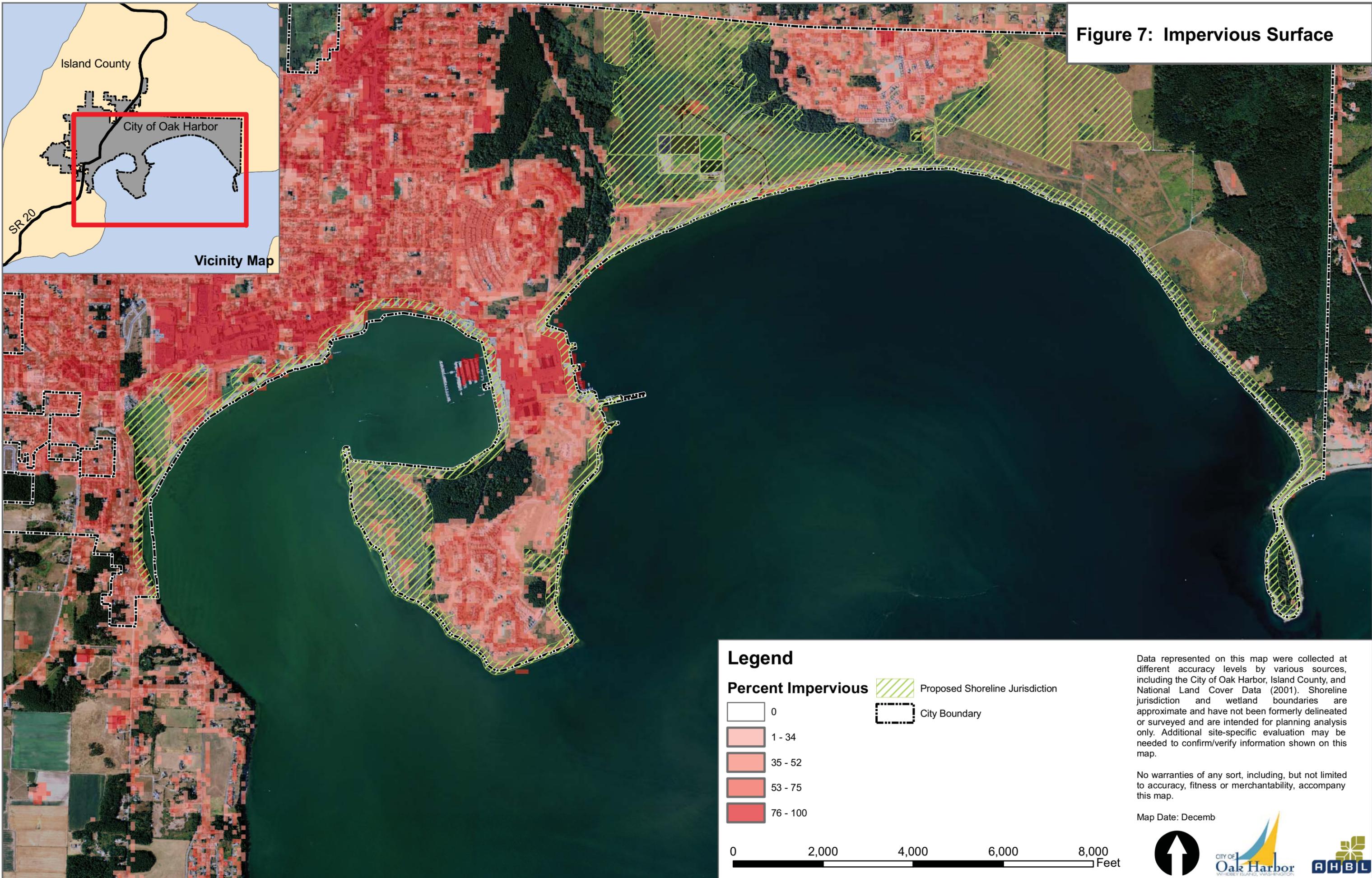
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Map Date: June 2011

0 2,000 4,000 6,000 8,000 Feet



Figure 7: Impervious Surface



Vicinity Map

Legend

Percent Impervious

- 0
- 1 - 34
- 35 - 52
- 53 - 75
- 76 - 100

- Proposed Shoreline Jurisdiction
- City Boundary

0 2,000 4,000 6,000 8,000 Feet

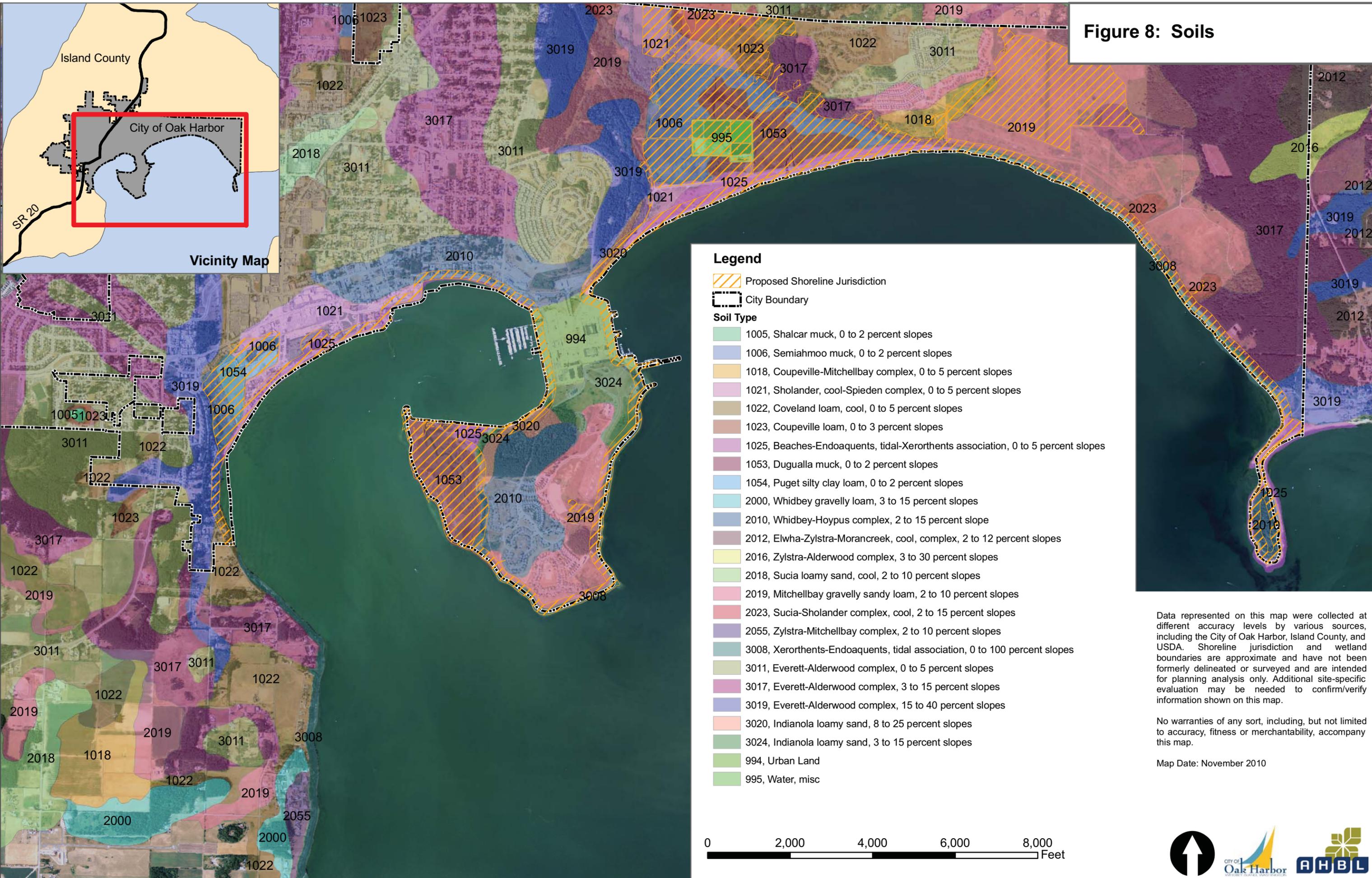
Data represented on this map were collected at different accuracy levels by various sources, including the City of Oak Harbor, Island County, and National Land Cover Data (2001). Shoreline jurisdiction and wetland boundaries are approximate and have not been formerly delineated or surveyed and are intended for planning analysis only. Additional site-specific evaluation may be needed to confirm/verify information shown on this map.

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Map Date: Decemb



Figure 8: Soils



Vicinity Map

Legend

- Proposed Shoreline Jurisdiction
- City Boundary
- Soil Type**
- 1005, Shalcar muck, 0 to 2 percent slopes
- 1006, Semiahmoo muck, 0 to 2 percent slopes
- 1018, Coupeville-Mitchellbay complex, 0 to 5 percent slopes
- 1021, Sholander, cool-Spieden complex, 0 to 5 percent slopes
- 1022, Coveland loam, cool, 0 to 5 percent slopes
- 1023, Coupeville loam, 0 to 3 percent slopes
- 1025, Beaches-Endoaquents, tidal-Xerorthents association, 0 to 5 percent slopes
- 1053, Dugualla muck, 0 to 2 percent slopes
- 1054, Puget silty clay loam, 0 to 2 percent slopes
- 2000, Whidbey gravelly loam, 3 to 15 percent slopes
- 2010, Whidbey-Hoypus complex, 2 to 15 percent slope
- 2012, Elwha-Zylstra-Morancreek, cool, complex, 2 to 12 percent slopes
- 2016, Zylstra-Alderwood complex, 3 to 30 percent slopes
- 2018, Sucia loamy sand, cool, 2 to 10 percent slopes
- 2019, Mitchellbay gravelly sandy loam, 2 to 10 percent slopes
- 2023, Sucia-Sholander complex, cool, 2 to 15 percent slopes
- 2055, Zylstra-Mitchellbay complex, 2 to 10 percent slopes
- 3008, Xerorthents-Endoaquents, tidal association, 0 to 100 percent slopes
- 3011, Everett-Alderwood complex, 0 to 5 percent slopes
- 3017, Everett-Alderwood complex, 3 to 15 percent slopes
- 3019, Everett-Alderwood complex, 15 to 40 percent slopes
- 3020, Indianola loamy sand, 8 to 25 percent slopes
- 3024, Indianola loamy sand, 3 to 15 percent slopes
- 994, Urban Land
- 995, Water, misc

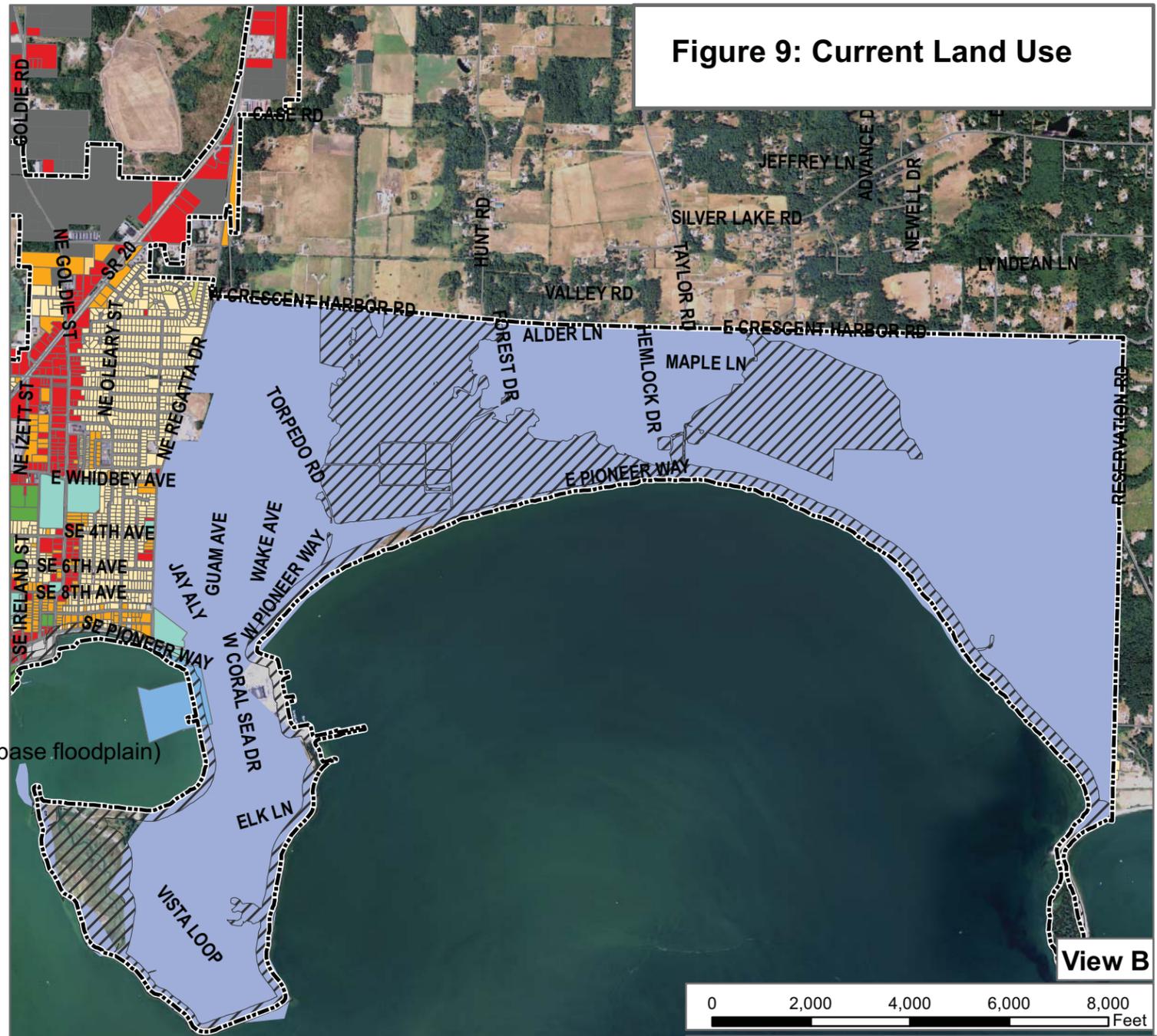
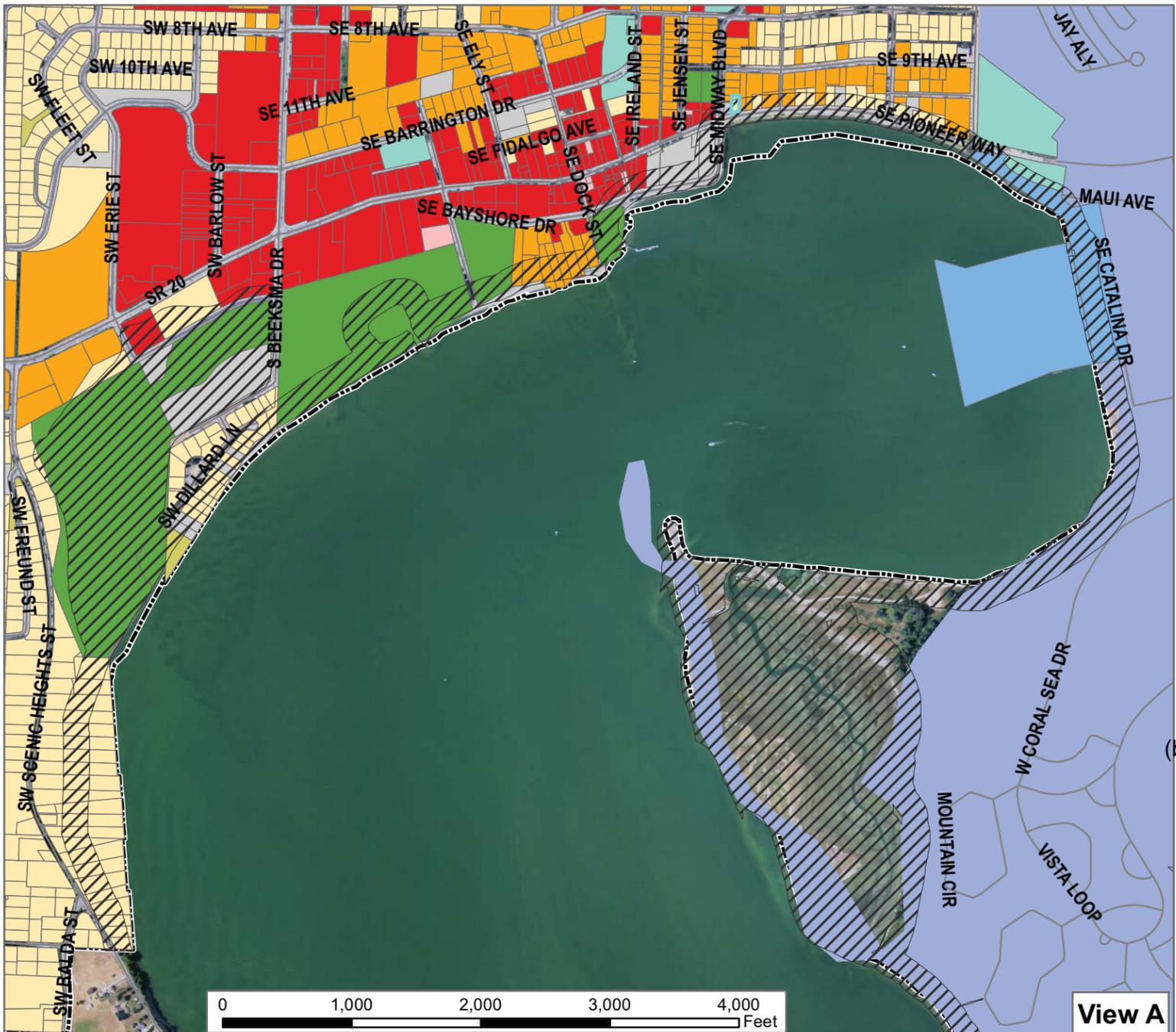
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Map Date: November 2010



Figure 9: Current Land Use



Legend

Single Family Residential	Industrial
Mobile Home	Parking
Multi-Family Residential	Park/Open Space
Commercial	Community Property
Public Facility	Vacant
Marina	NAS Whidbey
	City Boundary
	Proposed Shoreline Jurisdiction
	No Data or Outside City Limits

Land use is based on Kitsap County Assessor data with adjustments by City of Oak Harbor staff based on field survey.

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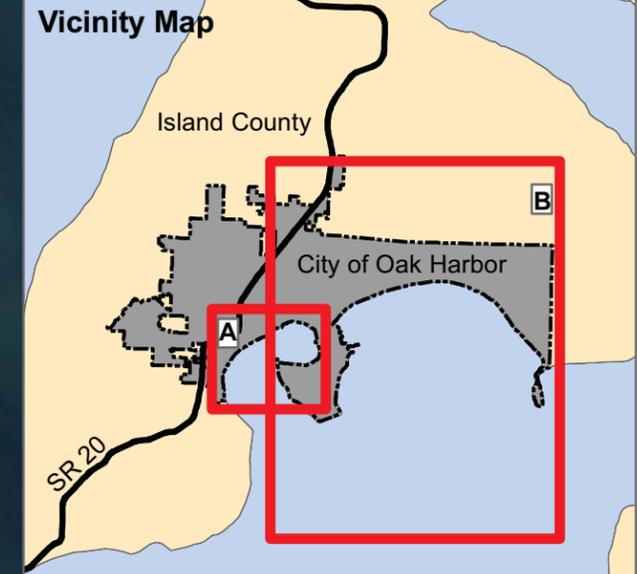
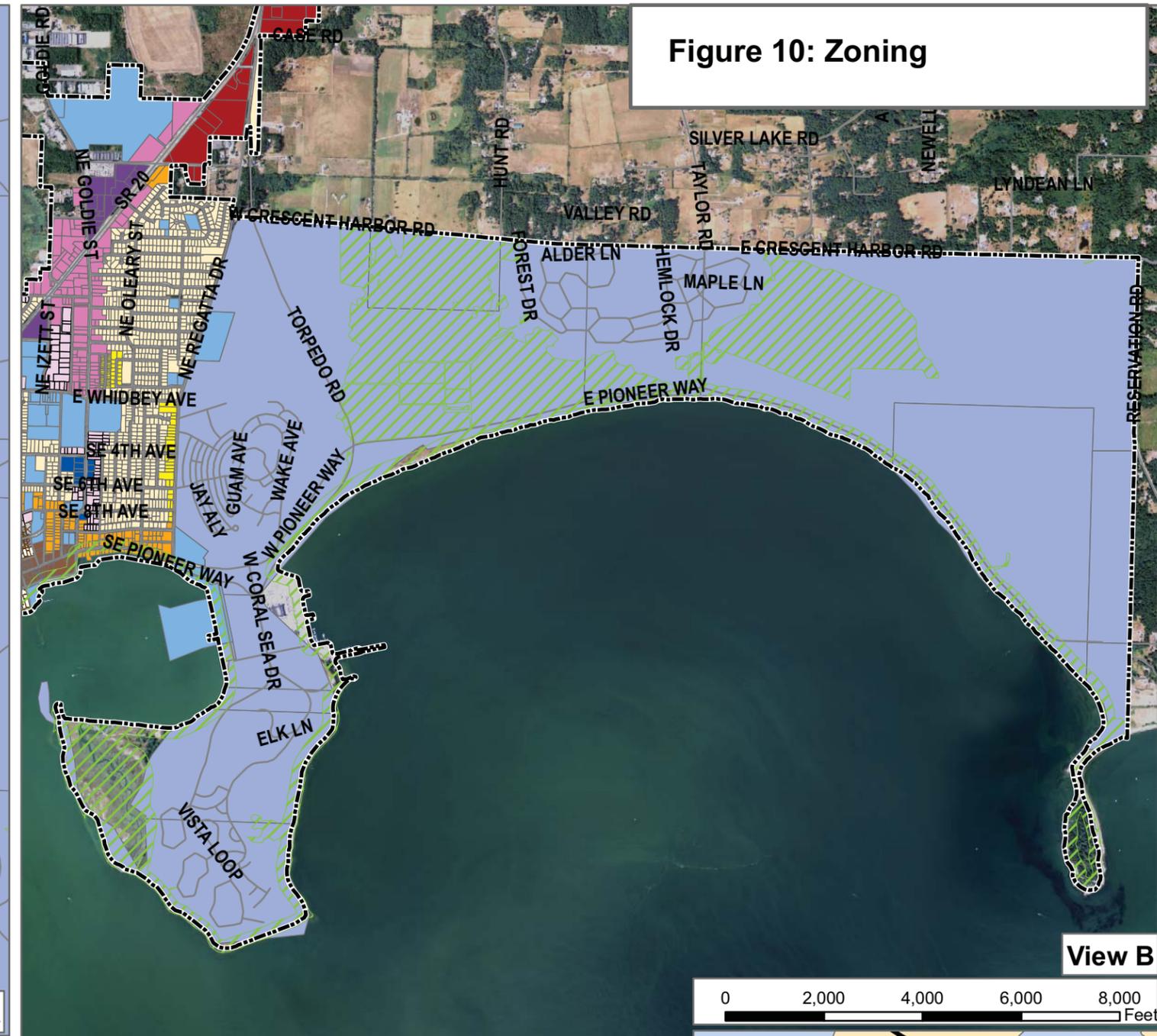


Figure 10: Zoning



Legend

Zoning

- R-1 Single Family Residential
- R-2 Limited Multi-Family Residential
- R-3 Multi-Family Residential
- R-4 Multi-Family Residential
- C-1 Neighborhood Commercial
- R-O Residential Office
- CBD Central Business District
- CBD-1 Central Business District 1
- CBD-2 Central Business District 2
- C-3 Community Commercial
- C-4 Highway Service Commercial
- C-5 Highway Corridor Commercial
- PF Public Facility
- OS Open Space
- NAS Whidbey
- Proposed Shoreline Jurisdiction
- City Boundary
- No Data or Outside City Limits

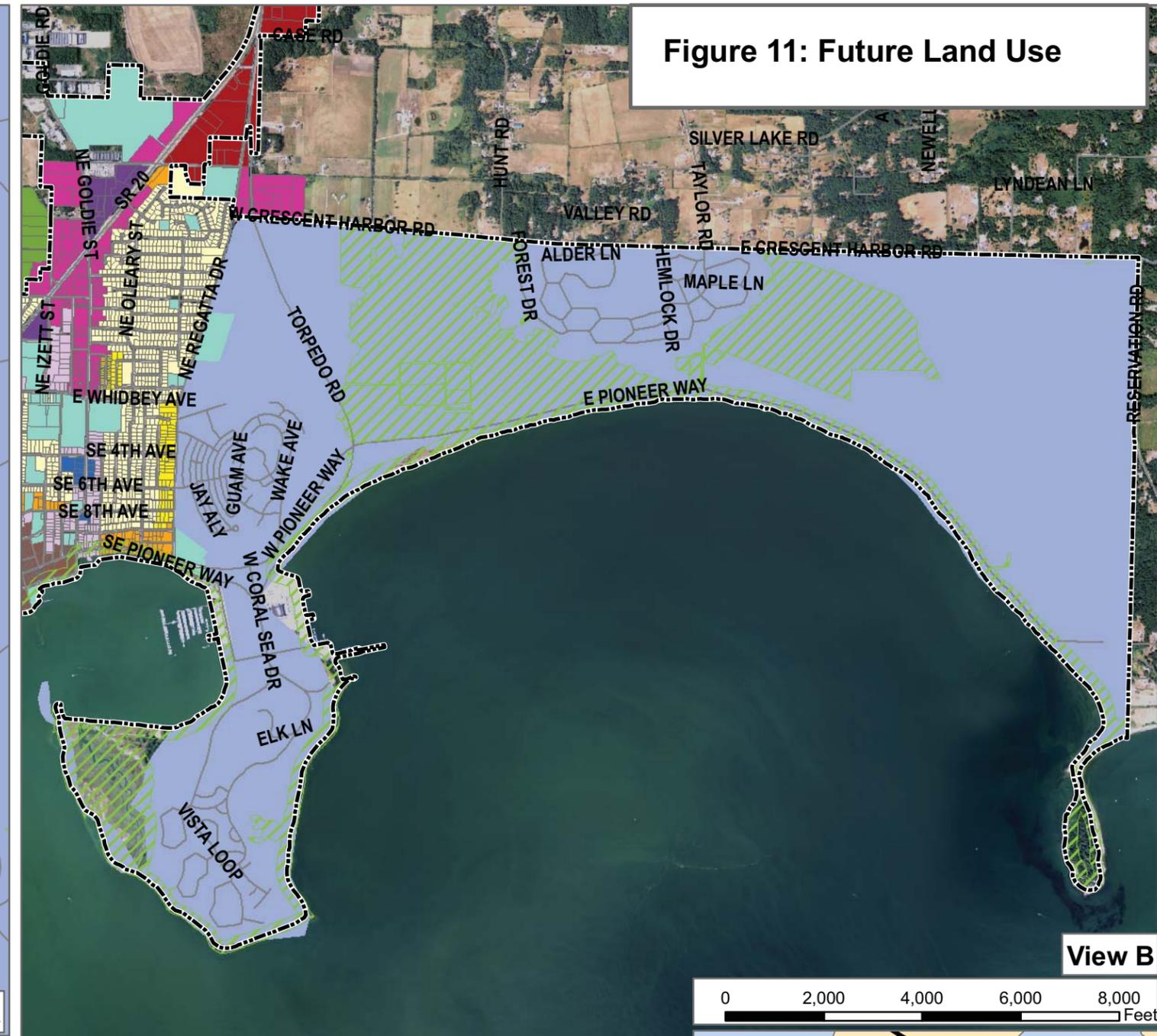
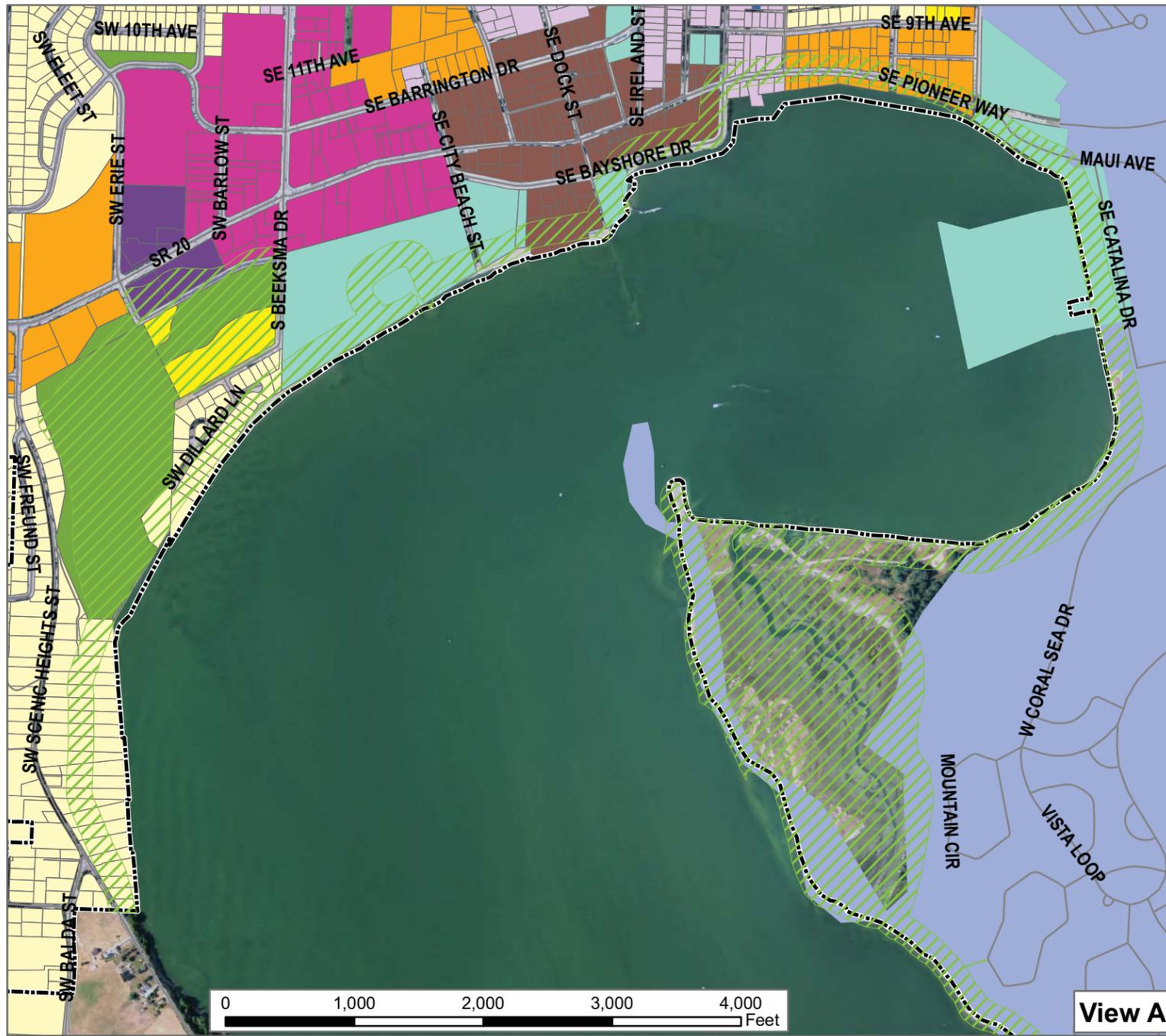
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Map Date: December 2010



Figure 11: Future Land Use



Legend

-  Proposed Shoreline Jurisdiction
-  City Boundary
- Future Land Use**
-  Low Density Residential
-  Medium Density Residential
-  Medium-High Density Residential
-  High Density Residential
-  Residential Office
-  Neighborhood Commercial
-  Central Business District
-  Community Commercial
-  Auto/Industrial Commercial
-  Highway Corridor Commercial
-  Public Facilities
-  Open Space
-  NAS Whidbey
-  No Data or Outside City

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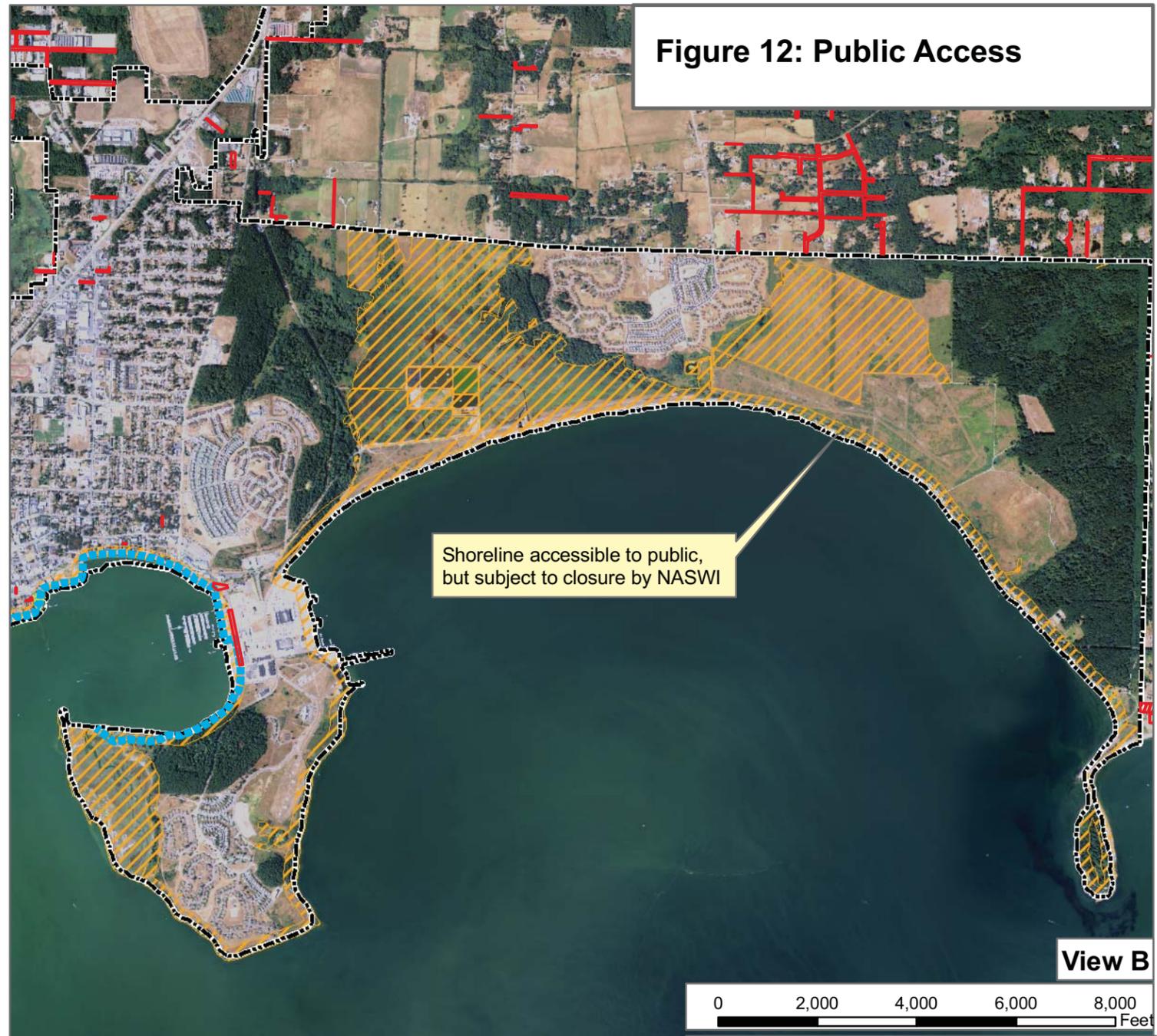
Map Date: December 2010



Vicinity Map



Figure 12: Public Access



Legend

- Public Easements
- - - Waterfront Trail
- City-Owned Parks and Open Space
- Proposed Shoreline Jurisdiction
- City Boundary

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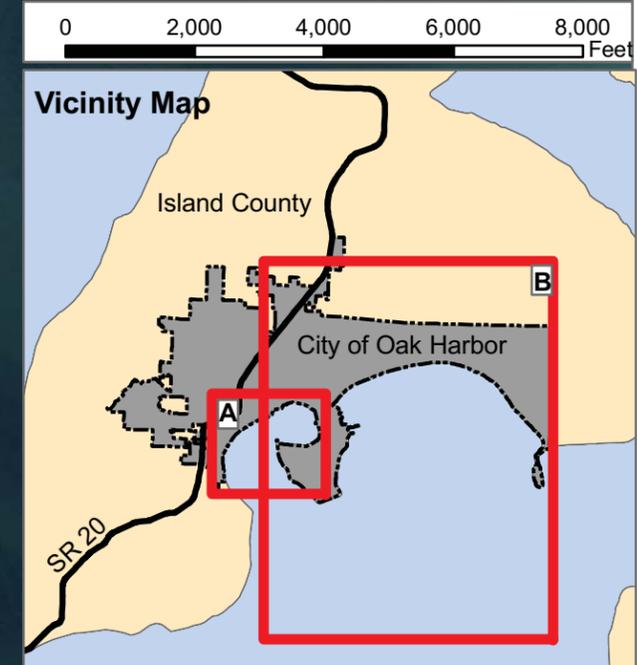
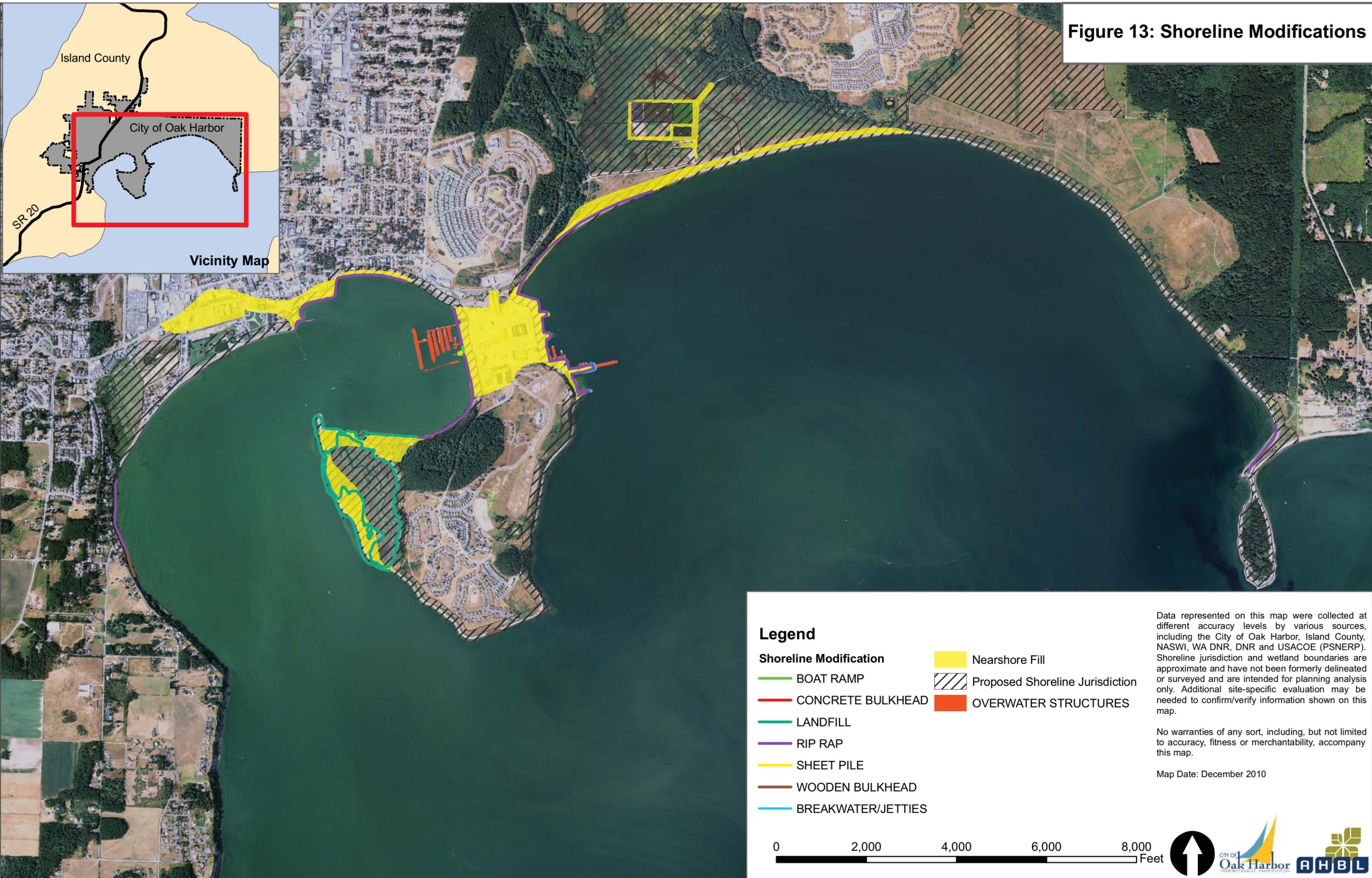


Figure 13: Shoreline Modifications



Legend

- | | |
|-------------------------------|---------------------------------|
| Shoreline Modification | Nearshore Fill |
| BOAT RAMP | Proposed Shoreline Jurisdiction |
| CONCRETE BULKHEAD | OVERWATER STRUCTURES |
| LANDFILL | |
| RIP RAP | |
| SHEET PILE | |
| WOODEN BULKHEAD | |
| BREAKWATER/JETTIES | |

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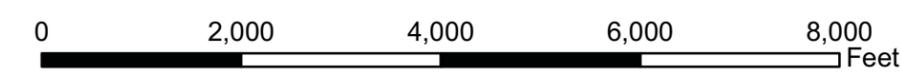
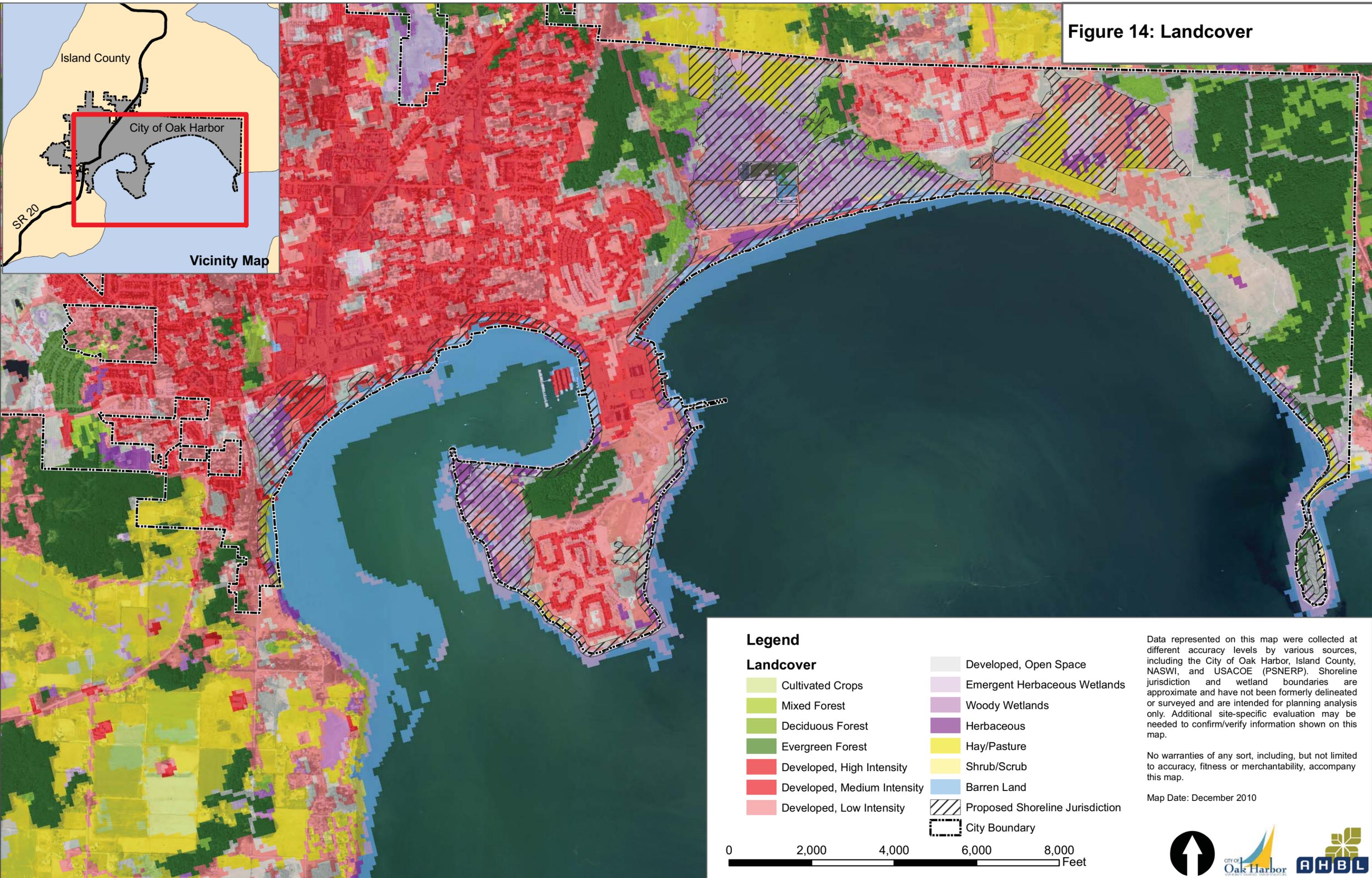


Figure 14: Landcover



Legend

Landcover

- | | |
|---|---|
|  Cultivated Crops |  Developed, Open Space |
|  Mixed Forest |  Emergent Herbaceous Wetlands |
|  Deciduous Forest |  Woody Wetlands |
|  Evergreen Forest |  Herbaceous |
|  Developed, High Intensity |  Hay/Pasture |
|  Developed, Medium Intensity |  Shrub/Scrub |
|  Developed, Low Intensity |  Barren Land |
| |  Proposed Shoreline Jurisdiction |
| |  City Boundary |

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Map Date: December 2010



Figure 15: Drift Cells



Island County

City of Oak Harbor

SR 20

Vicinity Map

Legend

-  Right to Left
-  Left to Right
-  Divergence Zone
-  No Appreciable Drift
-  Proposed Shoreline Jurisdiction

NOTE: Drift cell direction indicates the direction of sediment transport. Divergence zone indicates areas where sediment is generally moving away from the shore.

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0 2,000 4,000 6,000 8,000 Feet





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Map Date: April 2011



Full Extent of Reaches

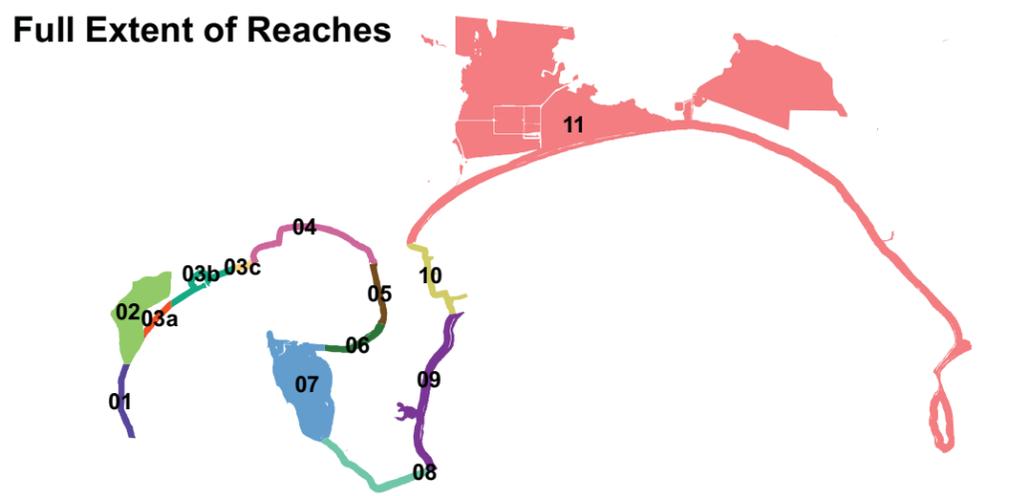


Figure 16: Reaches