

2010

Bacterial Monitoring and Shellfish Growing Area Classification in Casco Bay (2010 State of the Bay Presentation)

Anna Bourakovsky
Maine Department of Marine Resources

Follow this and additional works at: <https://digitalcommons.usm.maine.edu/cbep-presentations>

Recommended Citation

Bourakovsky, A. (2010). Bacterial Monitoring and Shellfish Growing Area Classification in Casco Bay (2010 State of the Bay Presentation). [Presentation slides]. Portland, ME: University of Southern Maine, Muskie School of Public Service, Casco Bay Estuary Partnership.

This Book is brought to you for free and open access by the Casco Bay Estuary Partnership (CBEP) at USM Digital Commons. It has been accepted for inclusion in Presentations by an authorized administrator of USM Digital Commons. For more information, please contact jessica.c.hovey@maine.edu.

Bacterial Monitoring and Shellfish Growing Area Classification in Casco Bay

Anna Bourakovsky
Growing Area Classification Program Manager
Division of Public Health, Maine DMR



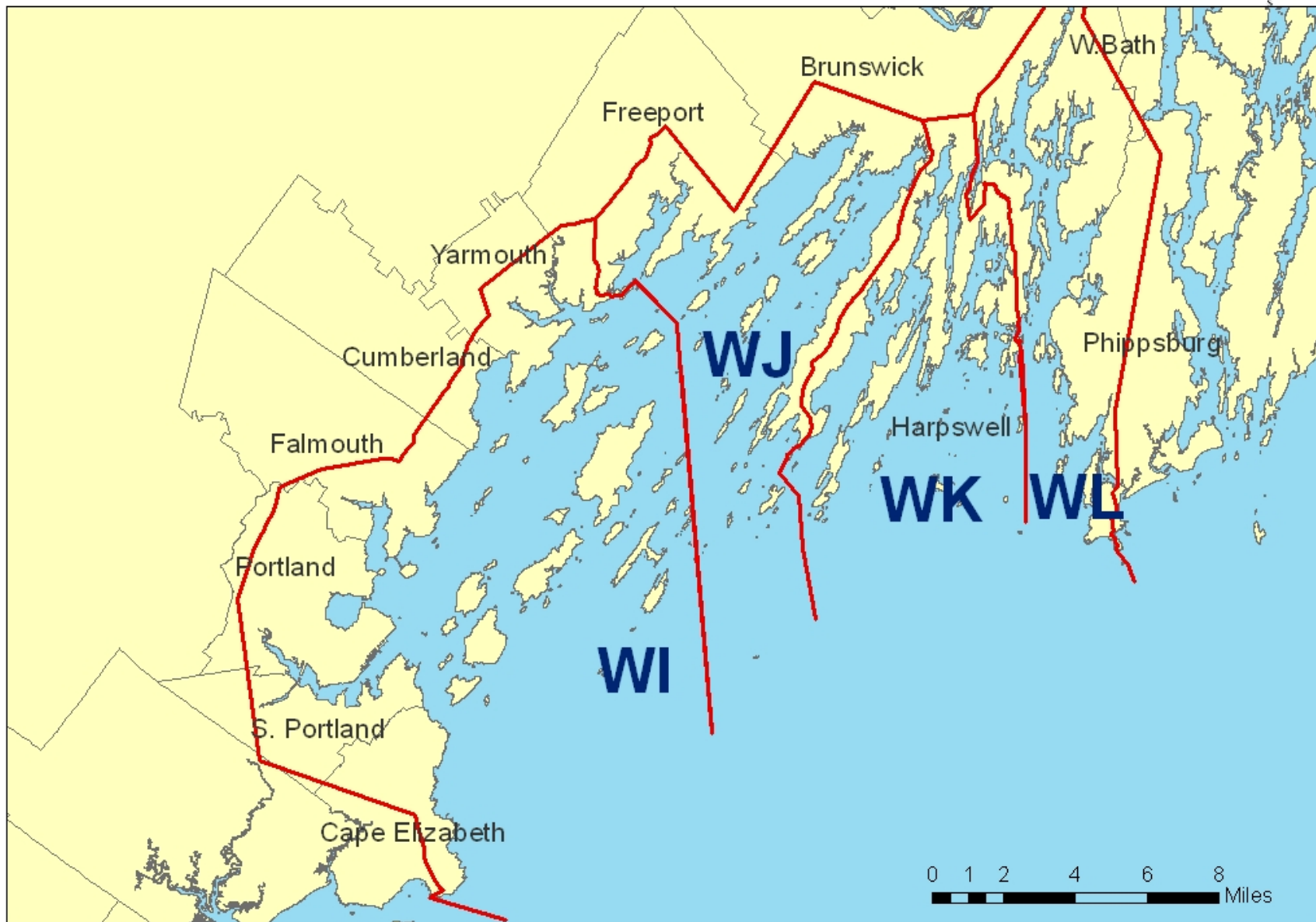
Program Background

- Public Health Division of DMR- keep molluscan shellfish safe for human consumption
- Oversee the application of National Shellfish Sanitation Program (NSSP) in Maine
- Growing Area Classification Program- water quality monitoring and pollution identification

Casco Bay



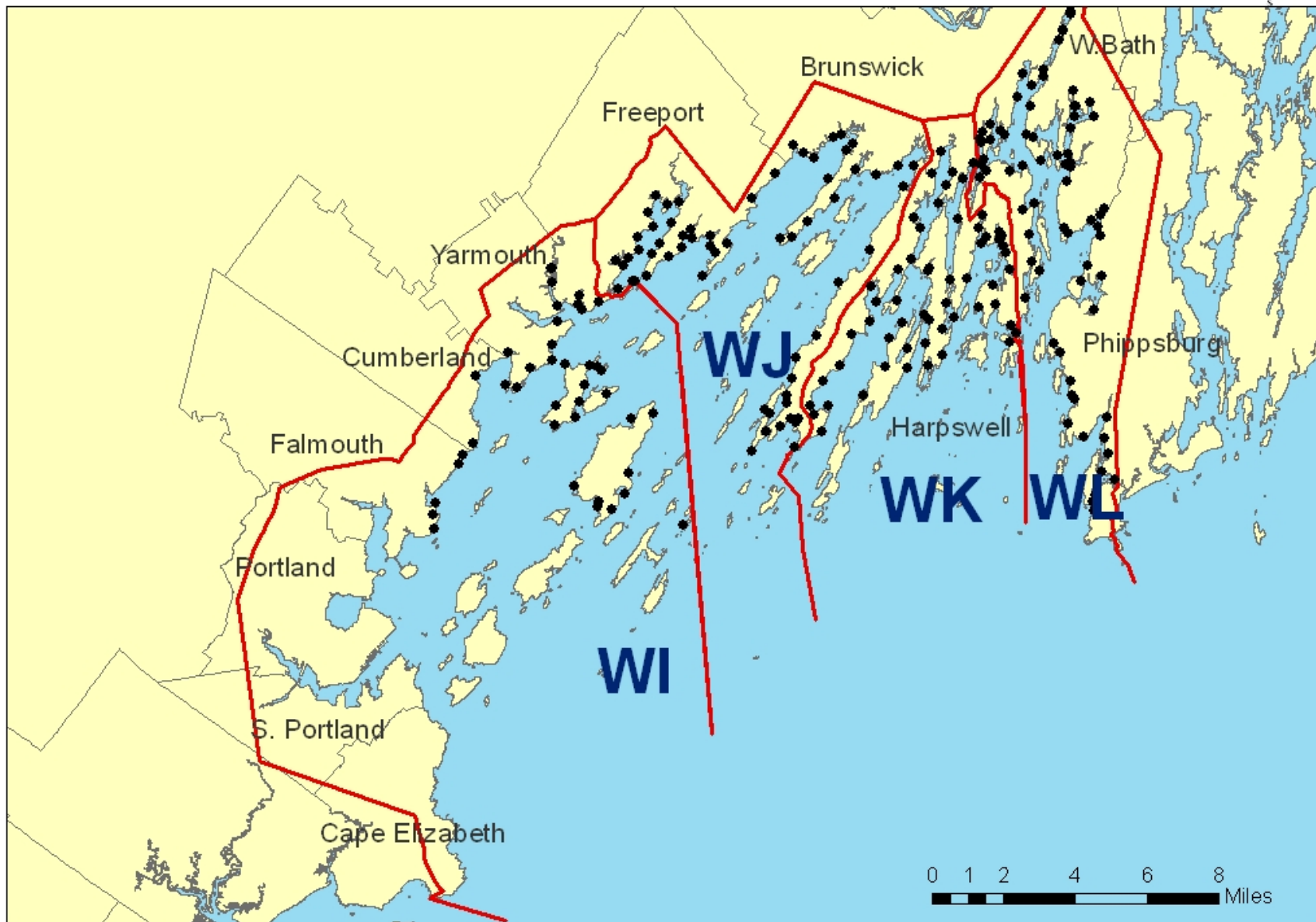
Casco Bay- Shellfish Growing Areas



Water Quality Monitoring

- Water Sample Collection (234 Sample Stations)
- Testing for presence of fecal coliform bacteria (MF method)
- Year round sampling using predetermined schedule AND targeted sampling
- Data used for establishing and maintaining growing area classifications

Casco Bay- Active Water Quality Monitoring Stations



Pollution Sources

- Effective management surrounding known pollution sources
- Actual and Potential Pollution
 - Waste Water Treatment Facilities (WWTP)
 - Over Board Discharges (OBD)
 - Domestic Waste Disposal Systems
 - Stormwater Discharge
 - Farms/Agricultural Activity
 - Marinas (presence of boats with on-board toilets)

NSSP Classifications

Approved: Areas open for direct market harvest

Conditionally Approved: Areas that meet approved area criteria under certain predetermined conditions

Restricted: Areas closed to harvest except for purposes of relay or depuration





Conditionally Restricted: Areas that meet restricted area criteria except under certain predetermined conditions

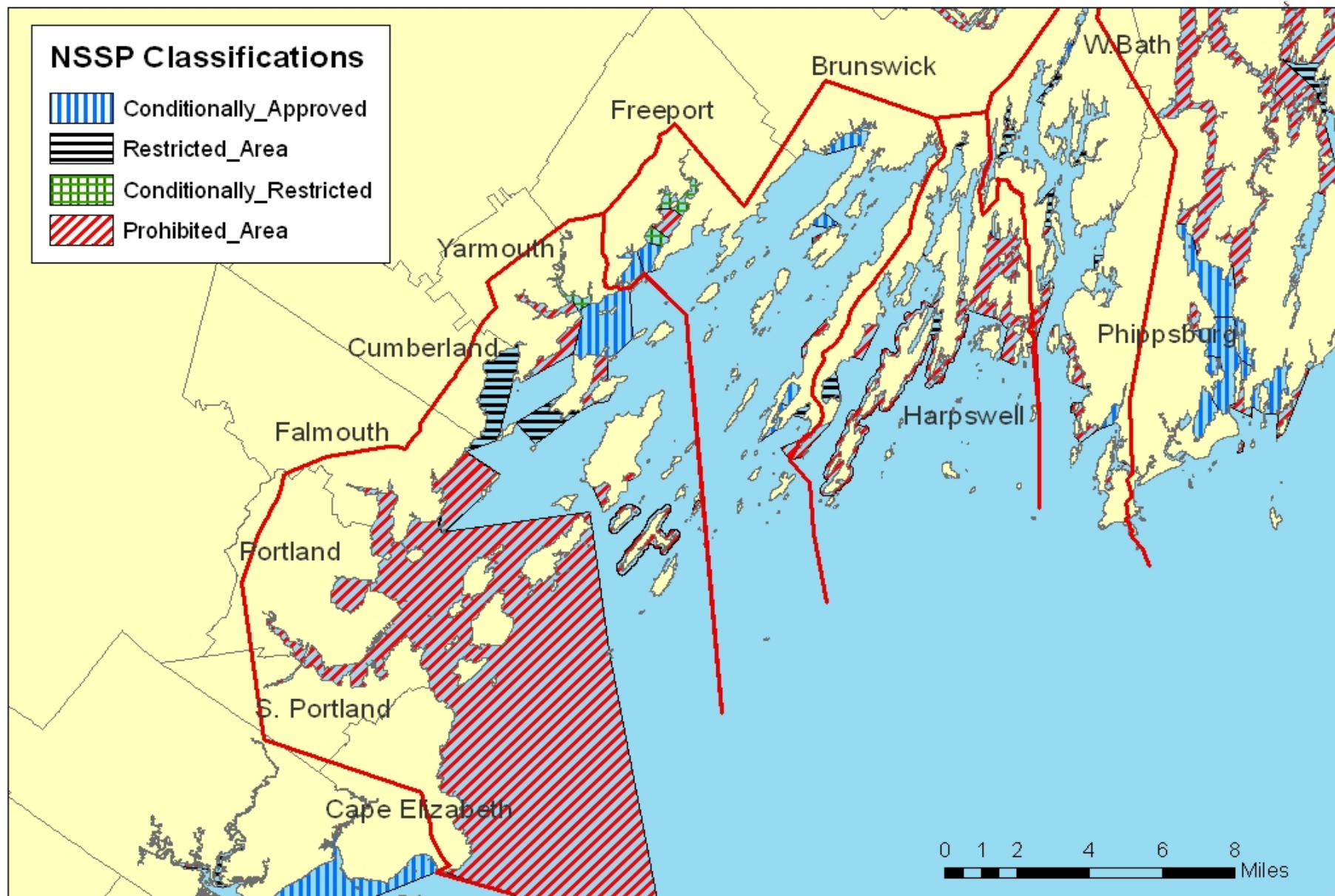
Prohibited: Areas closed to harvesting except for seeding

Casco Bay- NSSP Classifications



NSSP Classifications

-  Conditionally_Approved
-  Restricted_Area
-  Conditionally_Restricted
-  Prohibited_Area

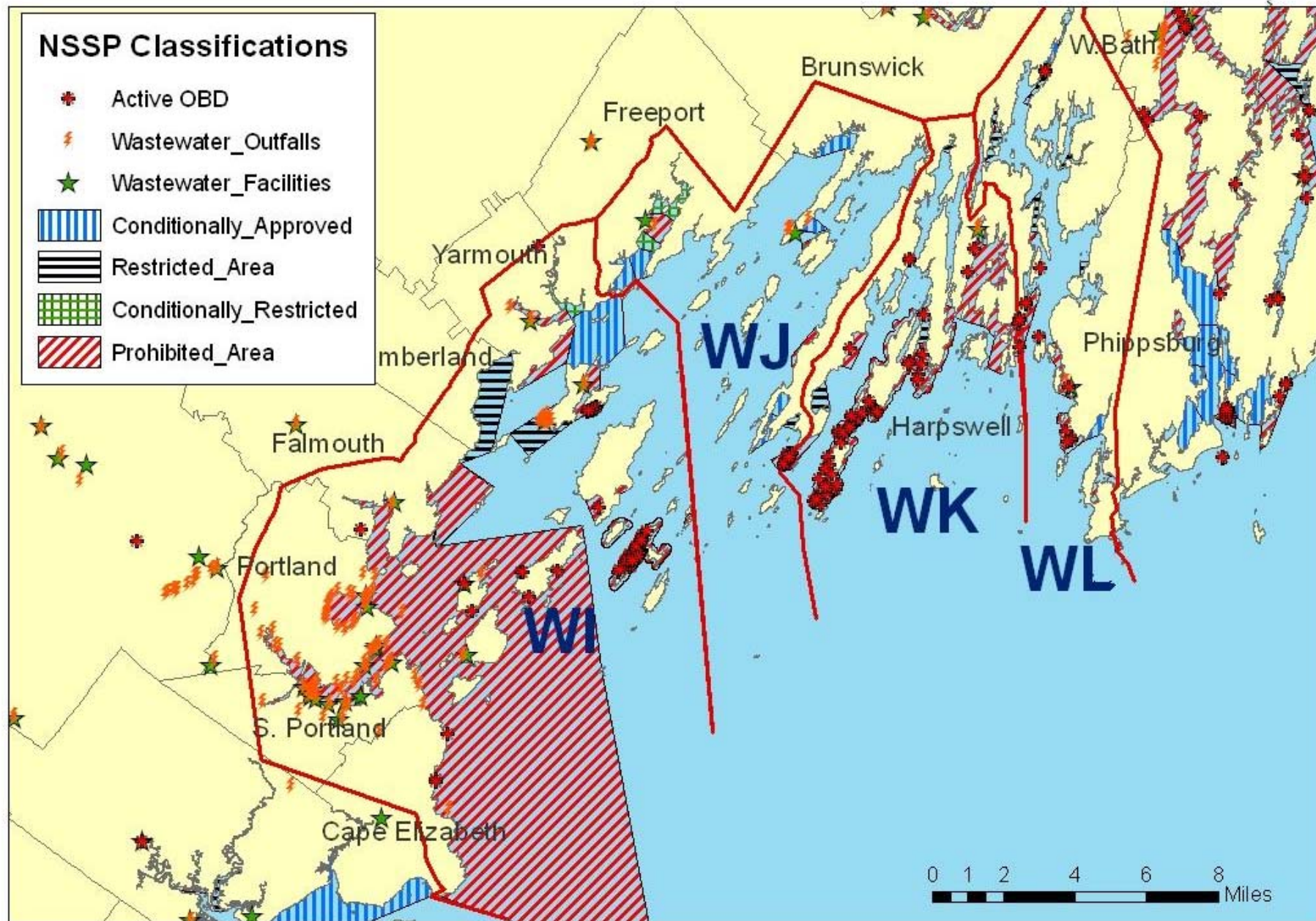


Casco Bay- Licensed Discharges

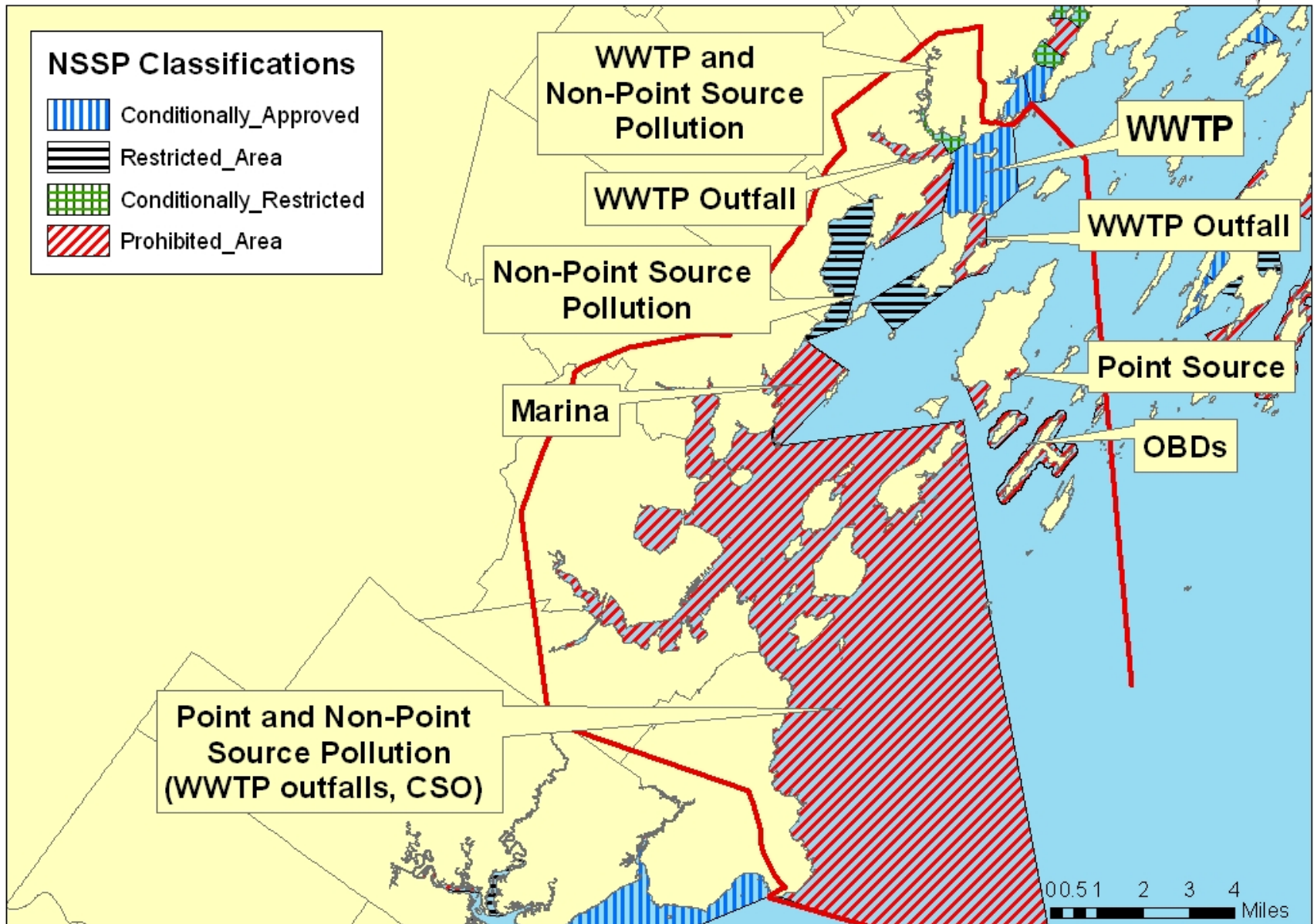


NSSP Classifications

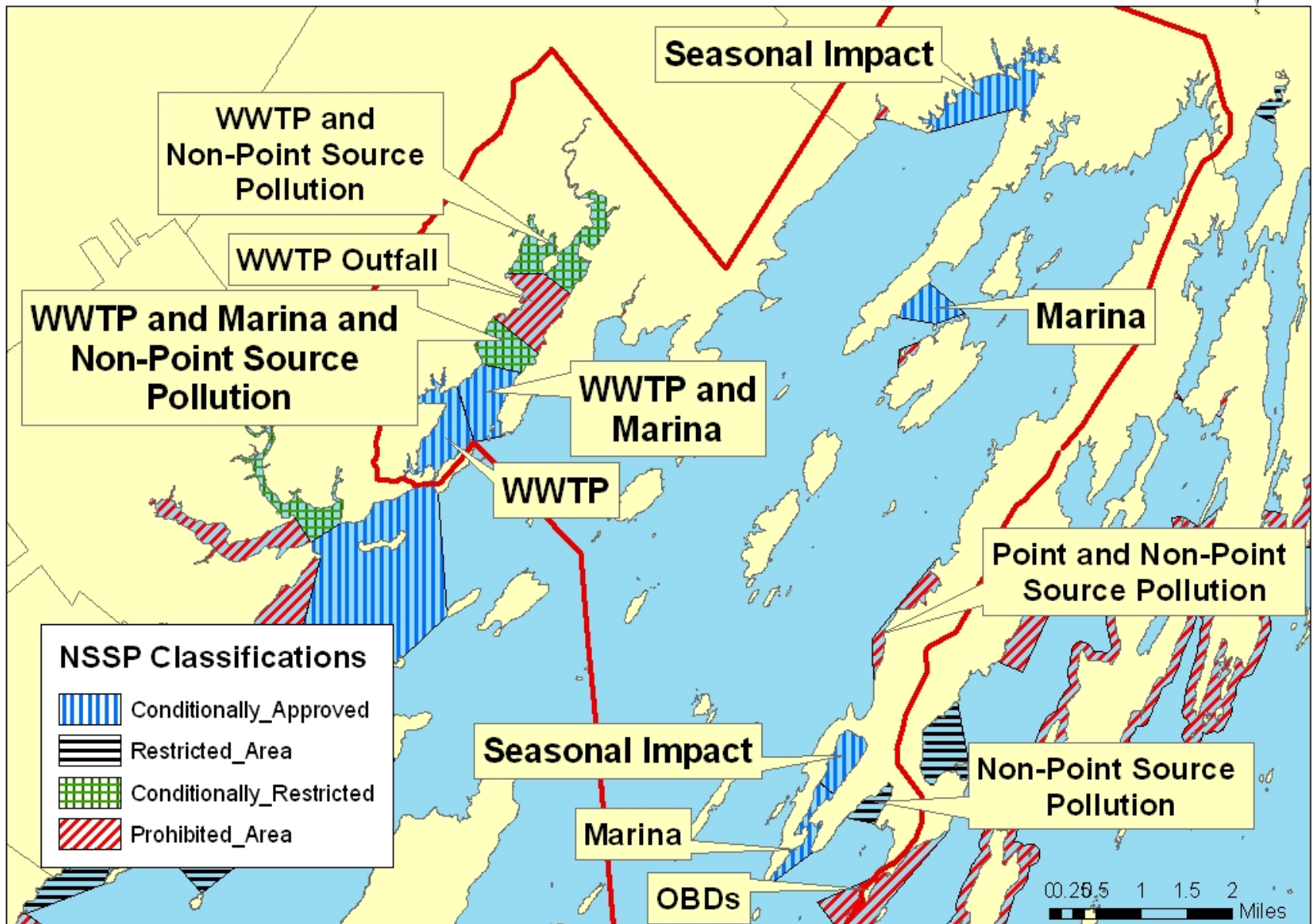
- ✱ Active OBD
- ⚡ Wastewater_Outfalls
- ★ Wastewater_Facilities
- ▨ Conditionally_Approved
- ▨ Restricted_Area
- ▨ Conditionally_Restricted
- ▨ Prohibited_Area



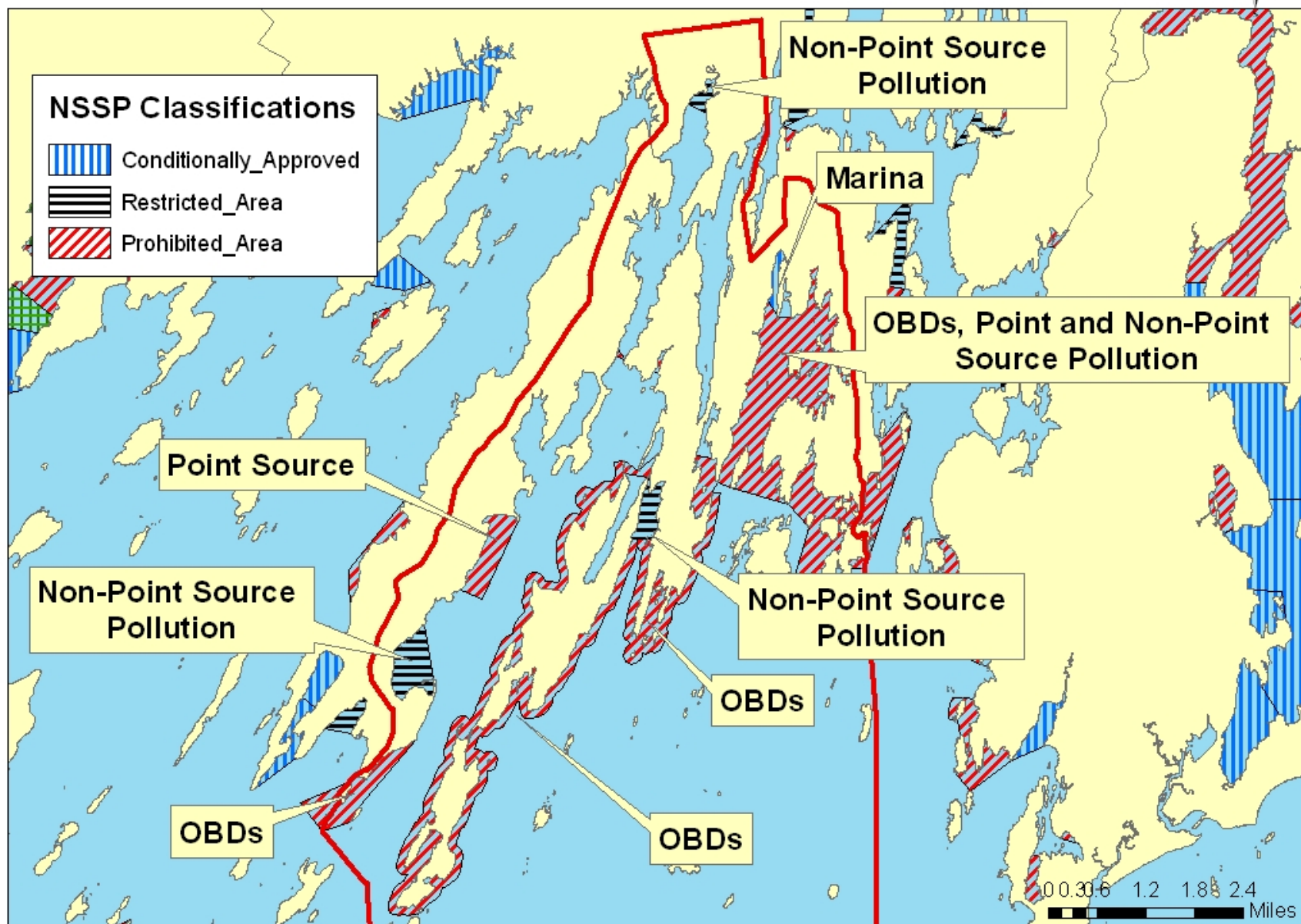
Casco Bay- Growing Area WI



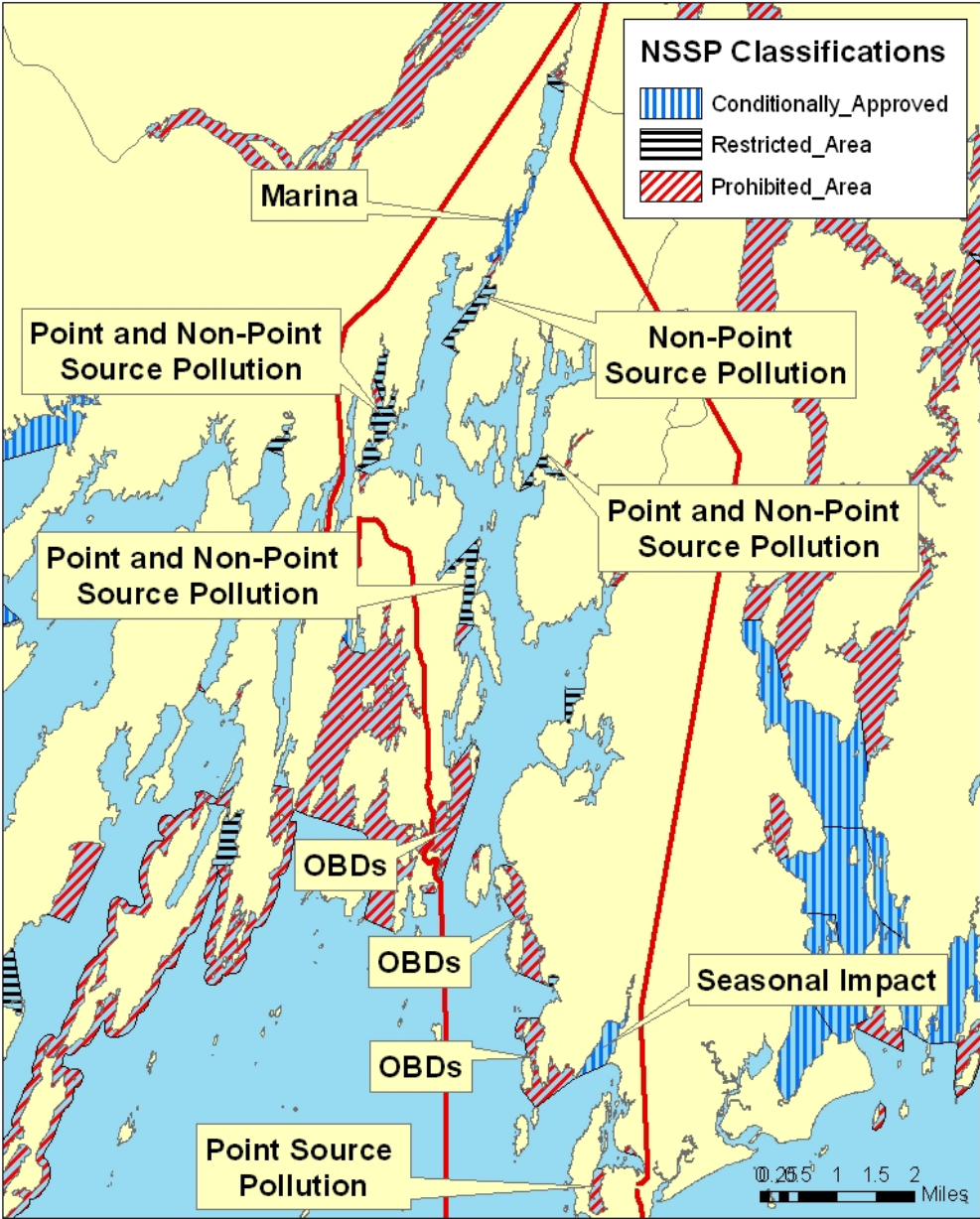
Casco Bay- Growing Area WJ



Casco Bay- Growing Area WK



Casco Bay- Growing Area WL



Future Classification Work

Periodic Review of Pollution Sources

- Remediation Efforts

- Management Strategies

- Seasonal Impact
- Rainfall Impact
- Dilution Zones





Thank You!