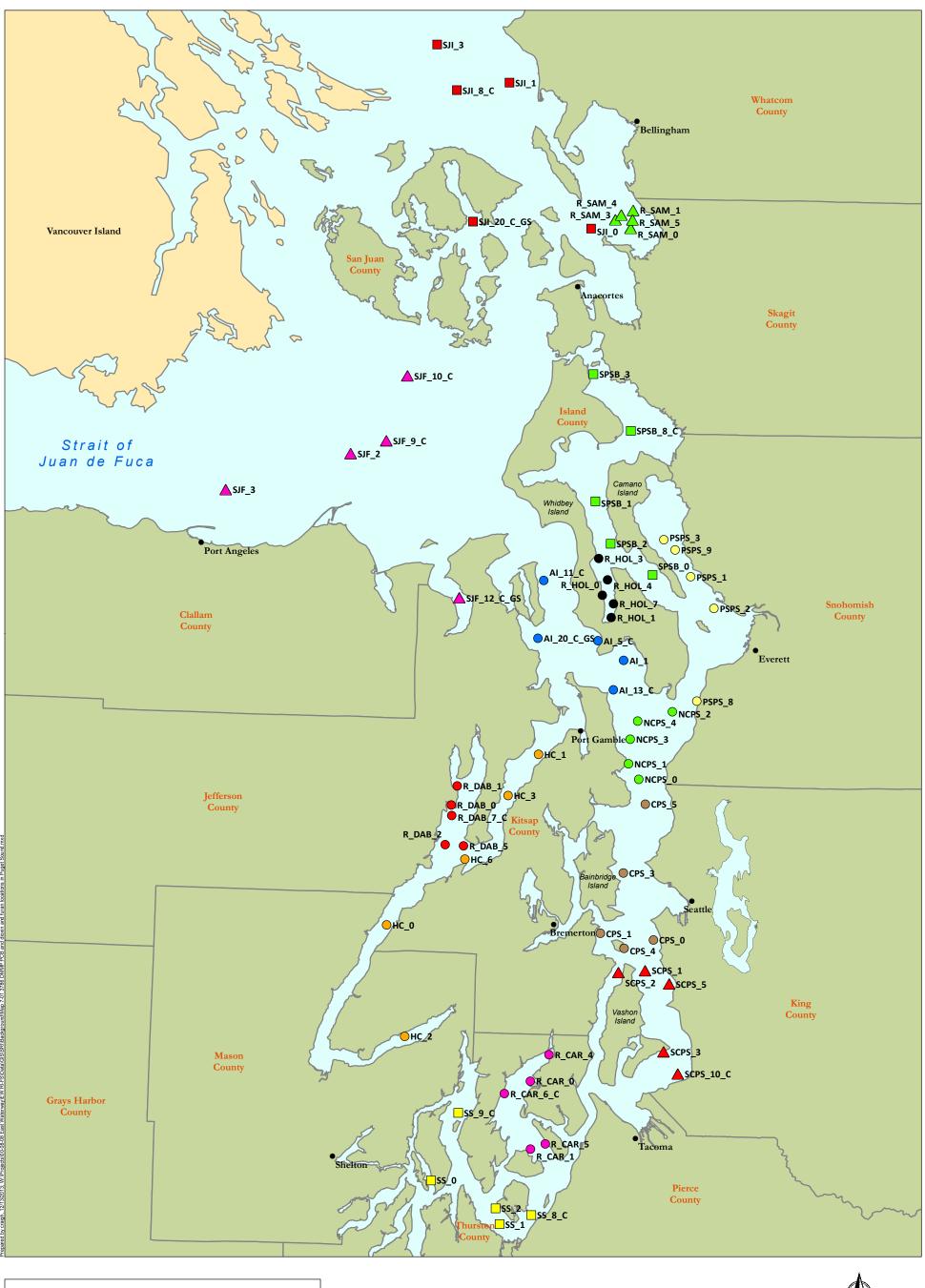
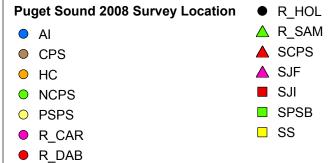
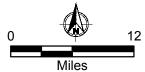


Map 5-1
Benthic Invertebrate Tissue Sampling Areas for TBT
Supplemental Remedial Investigation
East Waterway Study Area

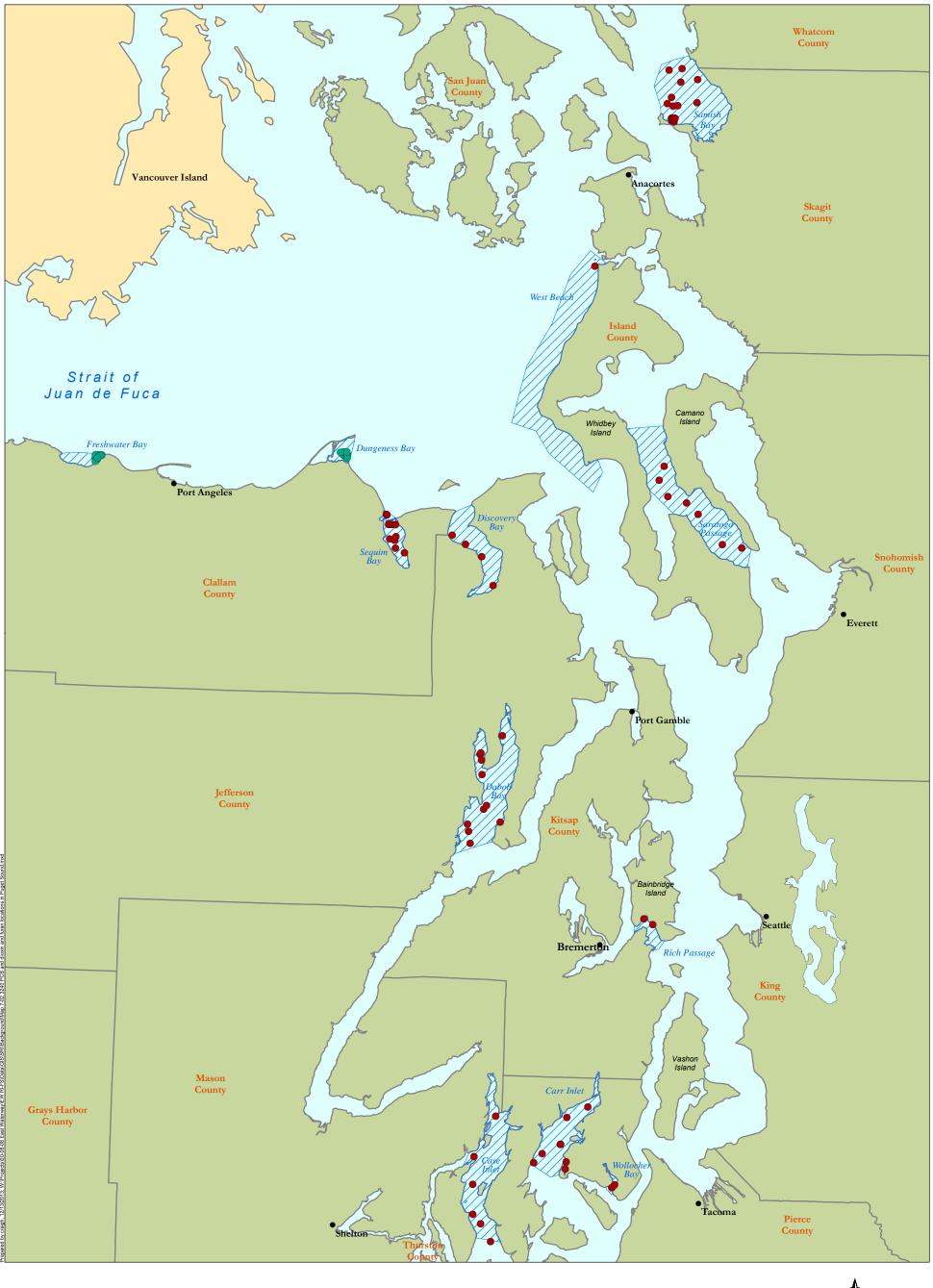
Scale in feet







Map 7-1
Locations of Surface Sediment Data Available for Arsenic, PCBs, cPAHs, and Dioxins and Furans from the Puget Sound 2008 Survey for Natural Background Consideration Supplemental Remedial Investigation East Waterway Study Area





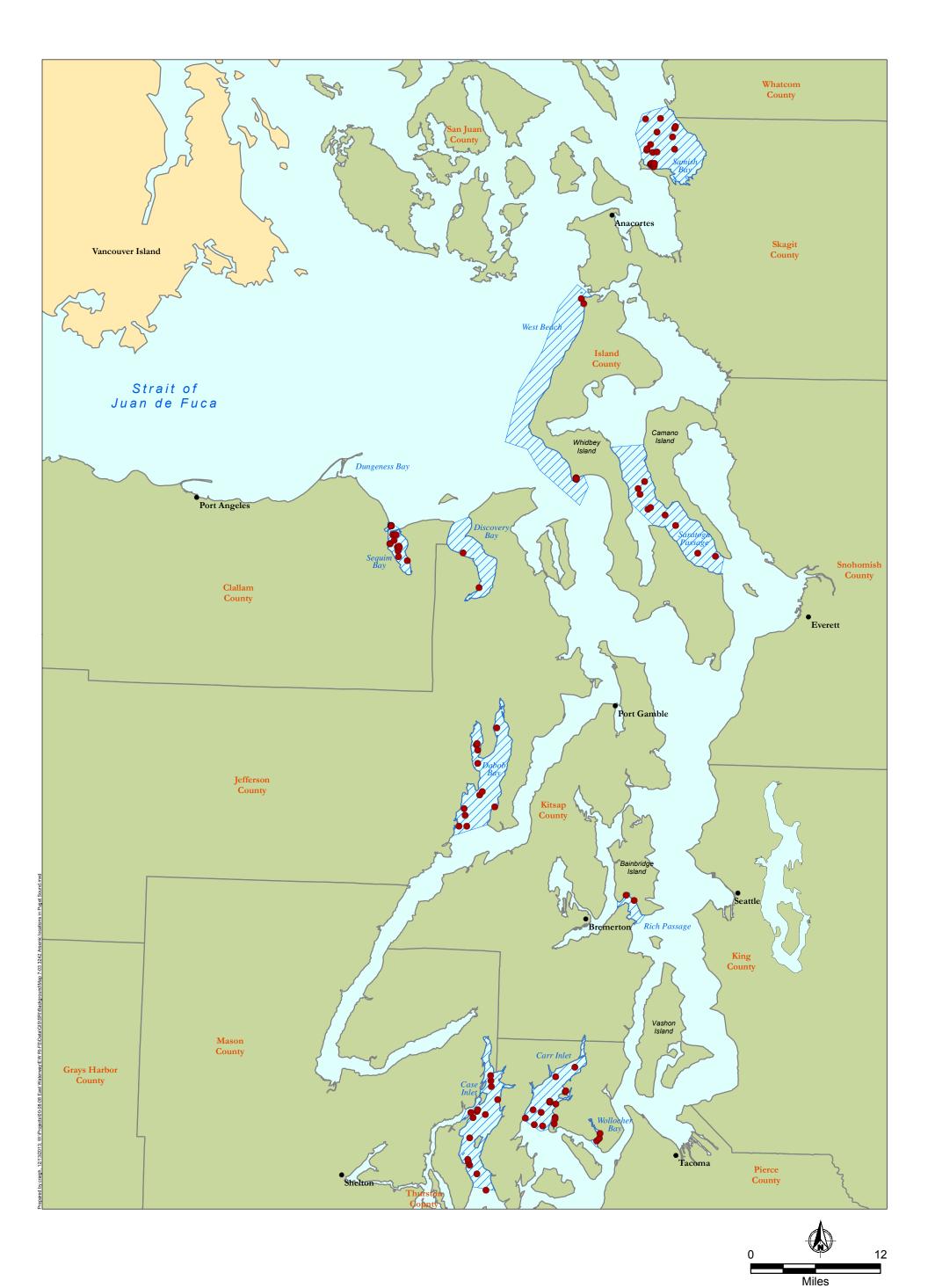
Map 7-2

PCB and Dioxin and Furan Sediment Sample Location

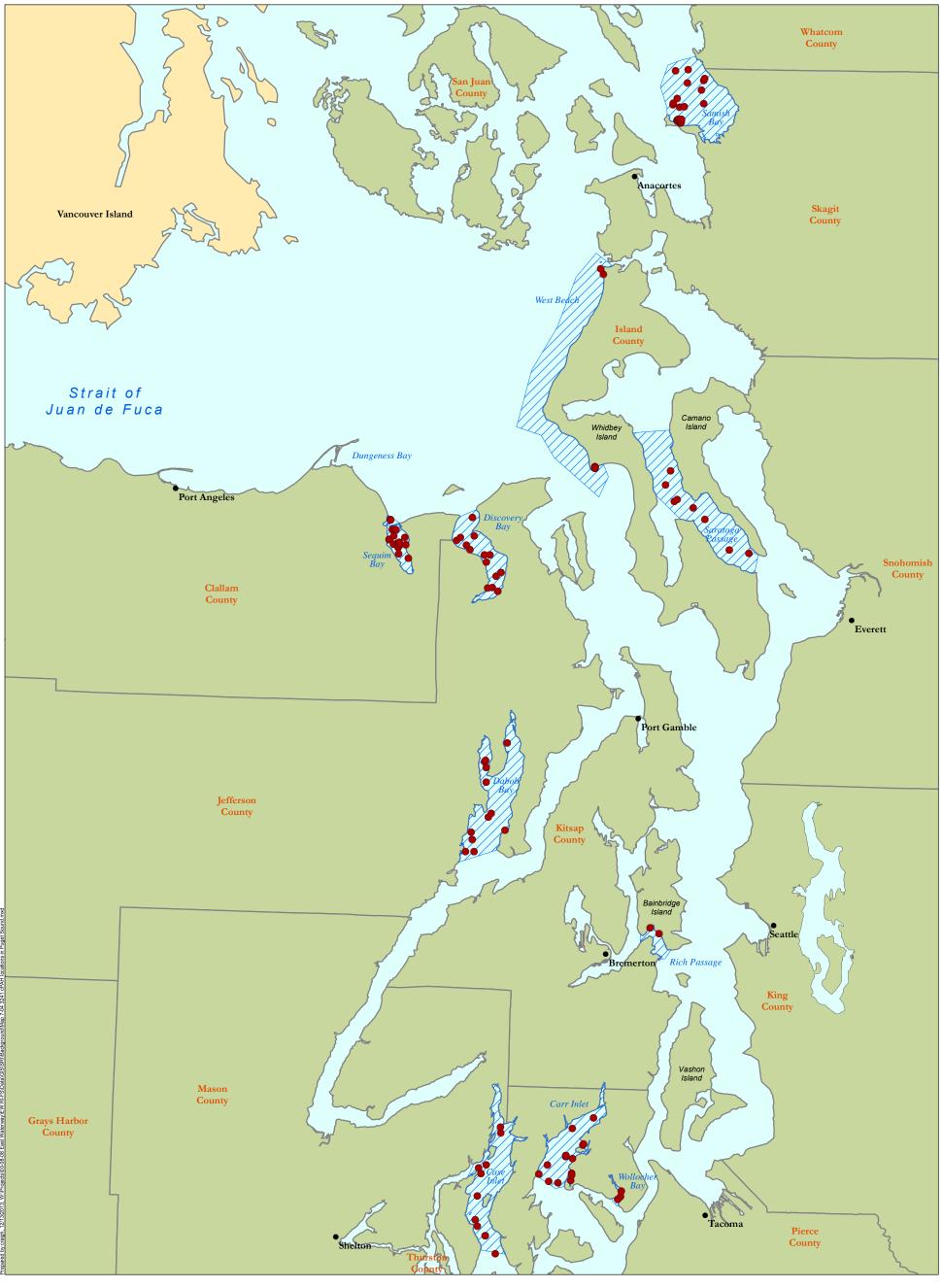
PCB Sediment Sample Location

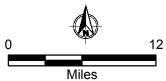
Background Sampling Area

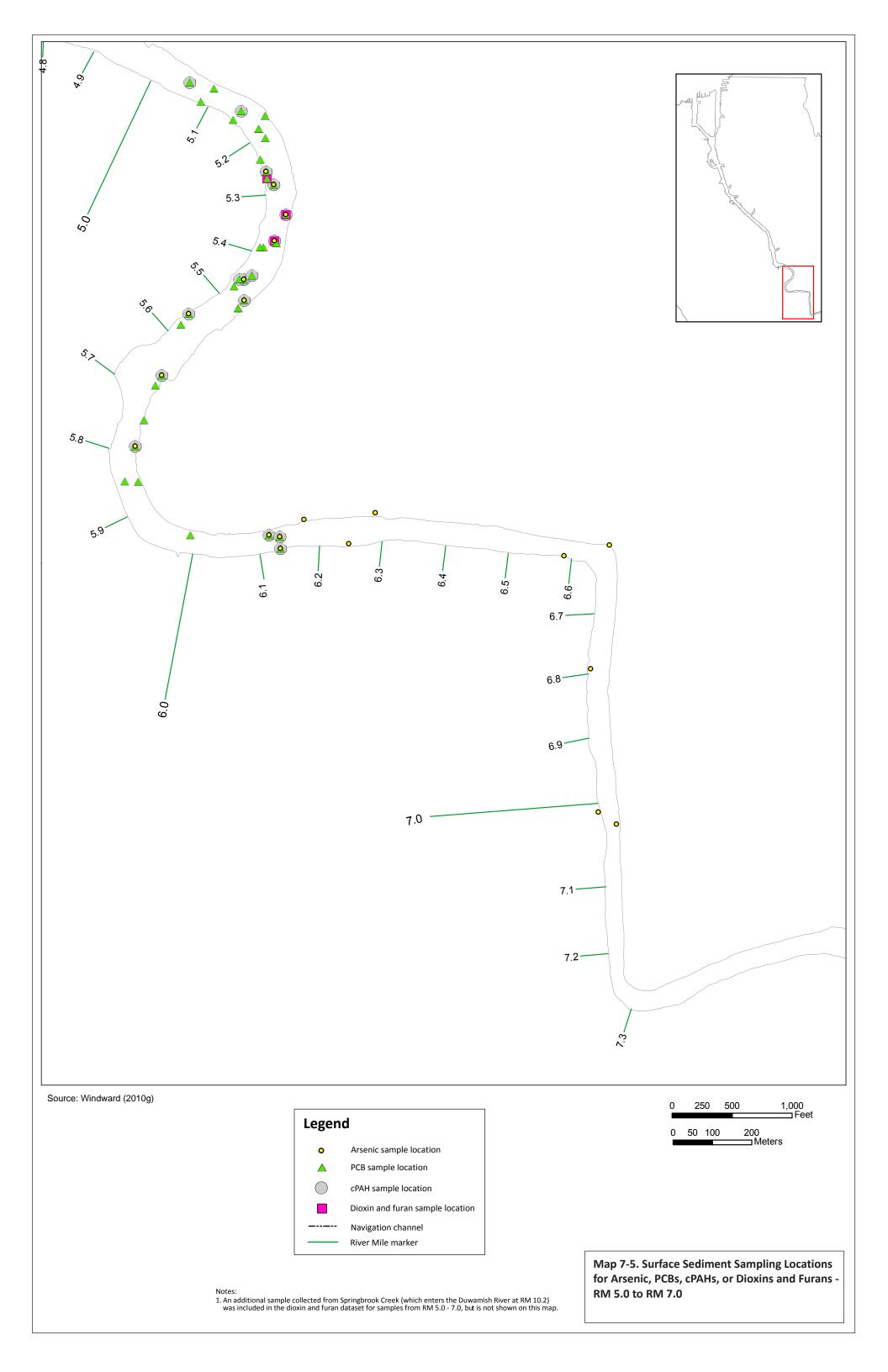
Locations of Surface Sediment PCB and Dioxin and Furan Data Available for Natural Background from Reference Areas Prior to 2008 Supplemental Remedial Investigation East Waterway Study Area

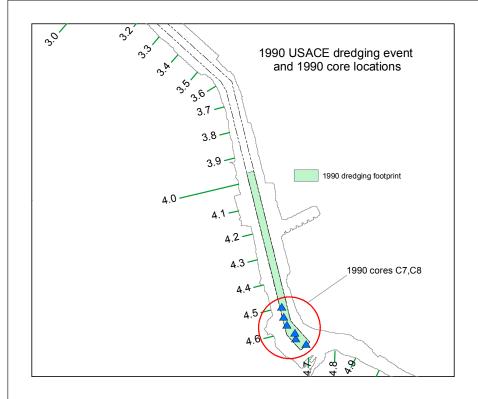


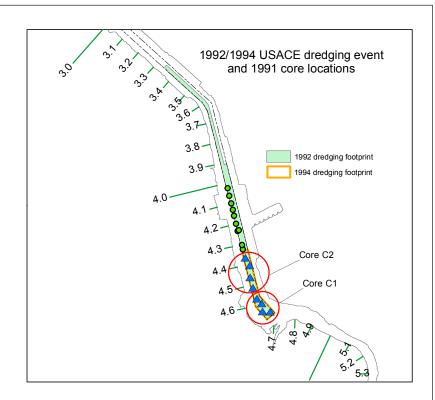
Map 7-3
Locations of Surface Sediment Arsenic Data Available for
Natural Background from Reference Areas Prior to 2008
Supplemental Remedial Investigation
East Waterway Study Area

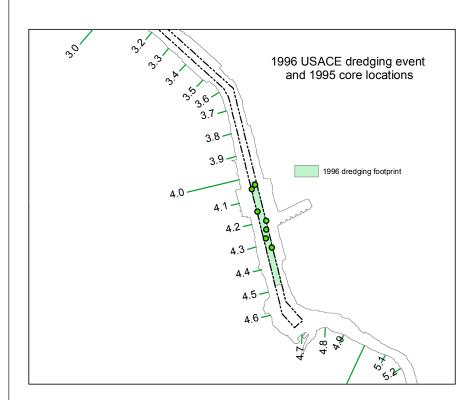


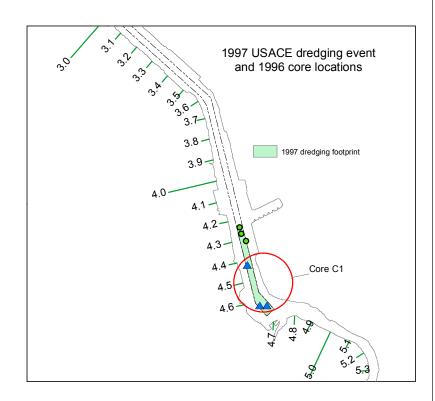


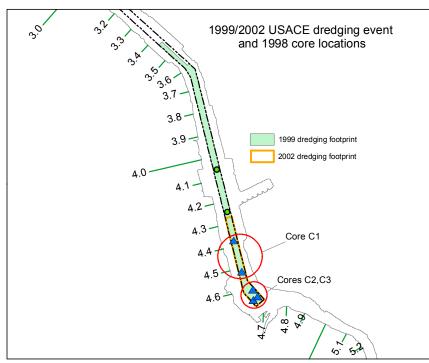


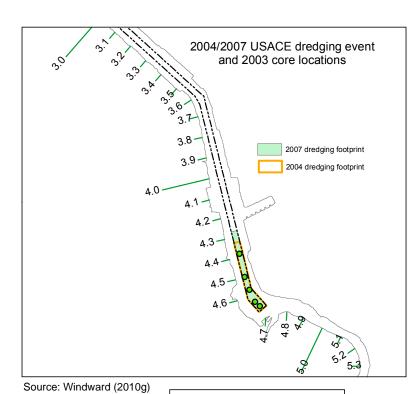










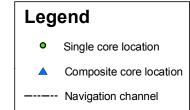


Sampling data provided by USACE (2007).
 Dredge footprints from USACE dredge summary and analysis reports.

3. Single sample locations represent stations where a single core was collected (generally from 0 to 4 ft below the mudline), composited over the length of the core, and analyzed. Composite sample locations represent stations where single cores from each of those stations (again, generally from 0 to 4 ft below the mudline) were first composited over the length of the core and then composited with the samples from the cores

at other stations prior to analysis.

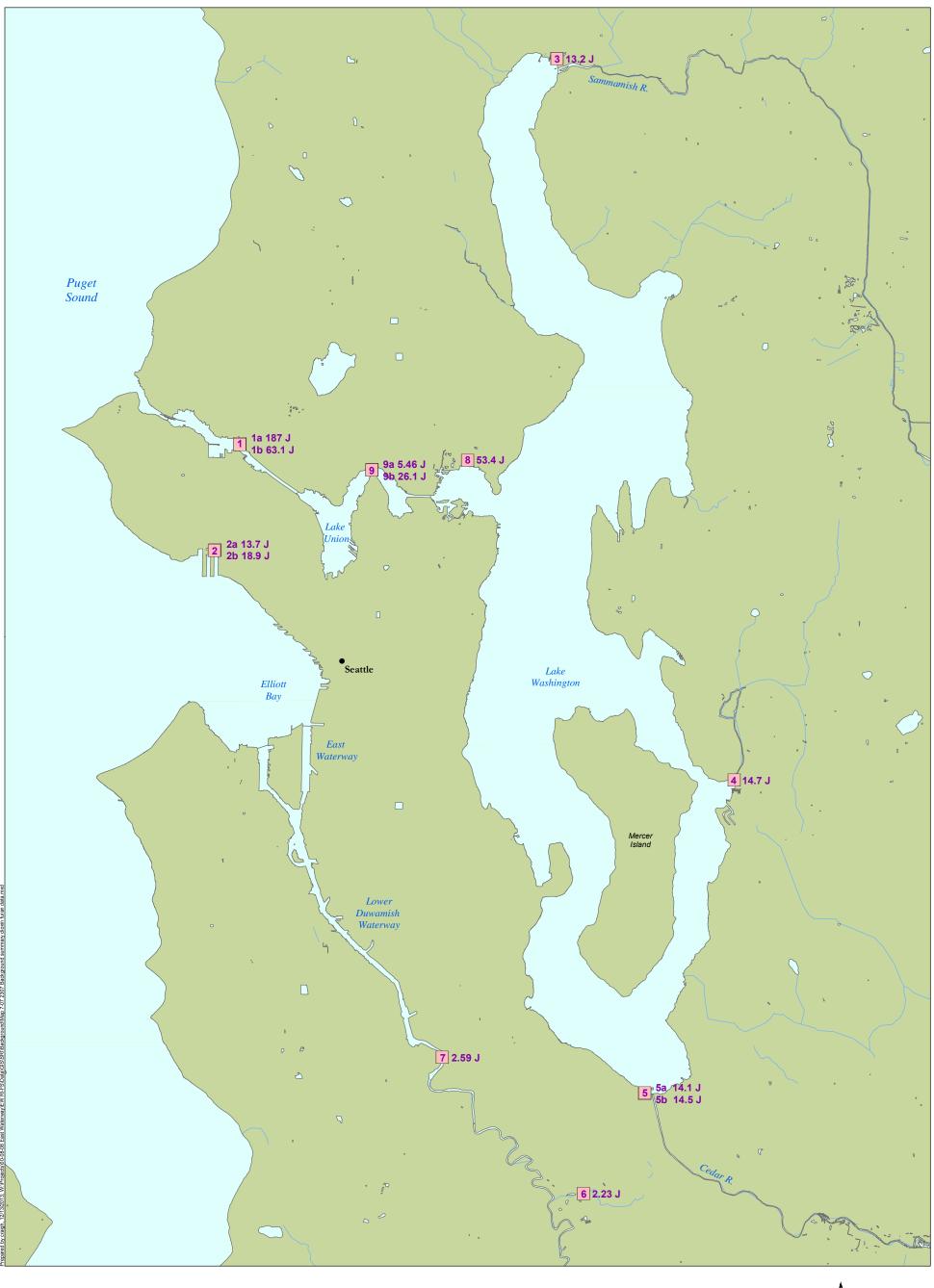
4. Stations downstream of RM 4.0 not shown.

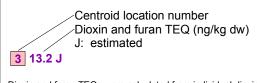


River mile

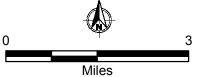
Map 7-6. Locations of Subsurface Sediment Samples Collected as Part of the 1990 to 2003 **USACE Dredged Material Characterization Events** 



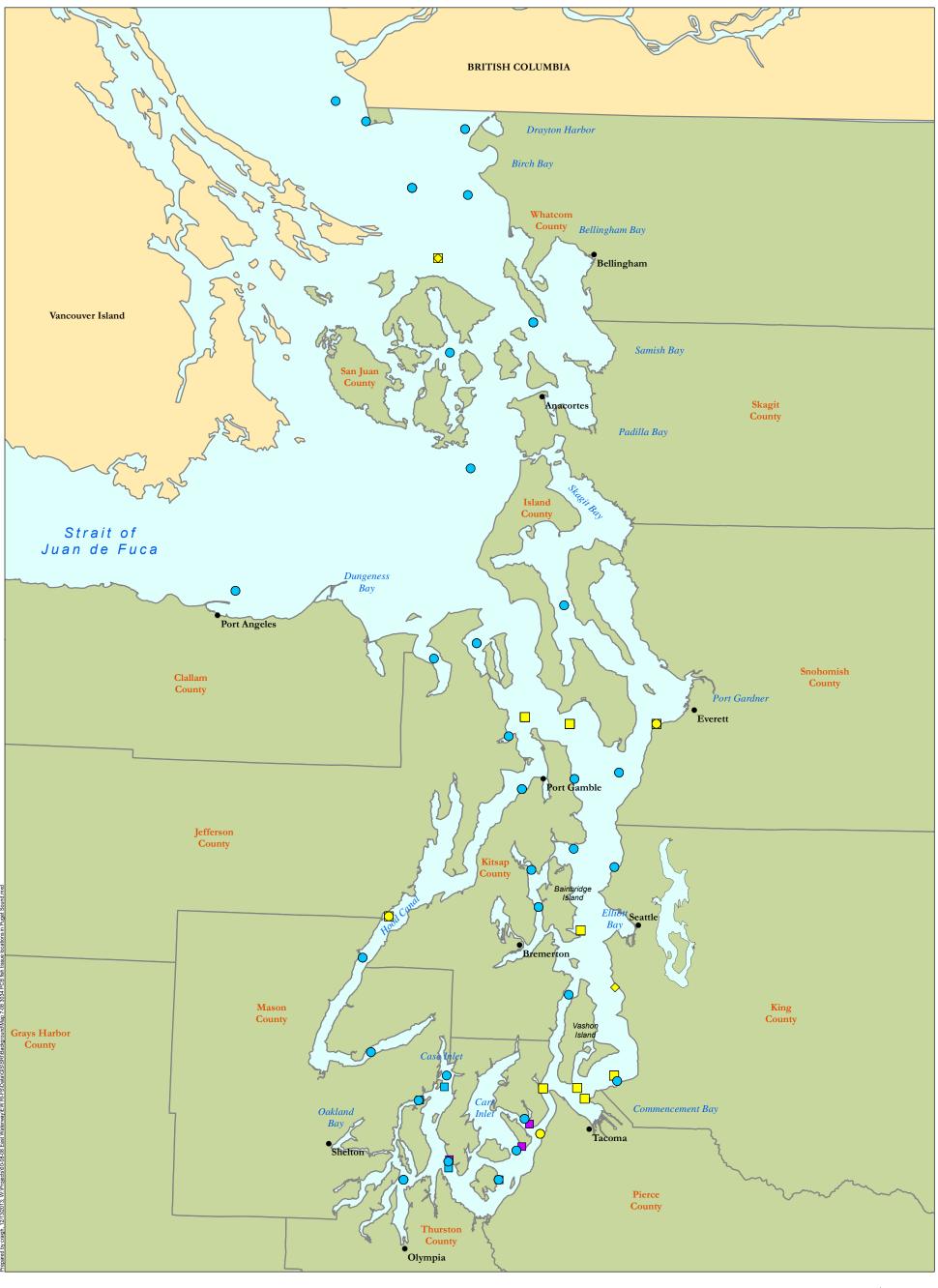




Dioxin and furan TEQs were calculated from individual dioxin and furan concentrations with mammalian TEFs, using  $\frac{1}{2}$  the reporting limit for undetected dioxin and furan congeners. The TEQ at location 3 is the average of the original sample value and the field duplicate sample value.

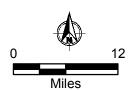


Map 7-7
Dioxin and Furan TEQs in Surface Sediment Samples from the Greater Seattle Area
Supplemental Remedial Investigation
East Waterway Study Area



# Fish Tissue Sampling Locations

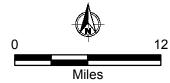
- English Sole (West et al. 2001)
- English Sole (Era-Miller 2006)
- Rock Sole (Era-Miller 2006)
- Opper Rockfish (West et al. 2001)
- ☐ Quillback Rockfish (West et al. 2001)
- ♦ Yelloweye Rockfish (West et al. 2001)





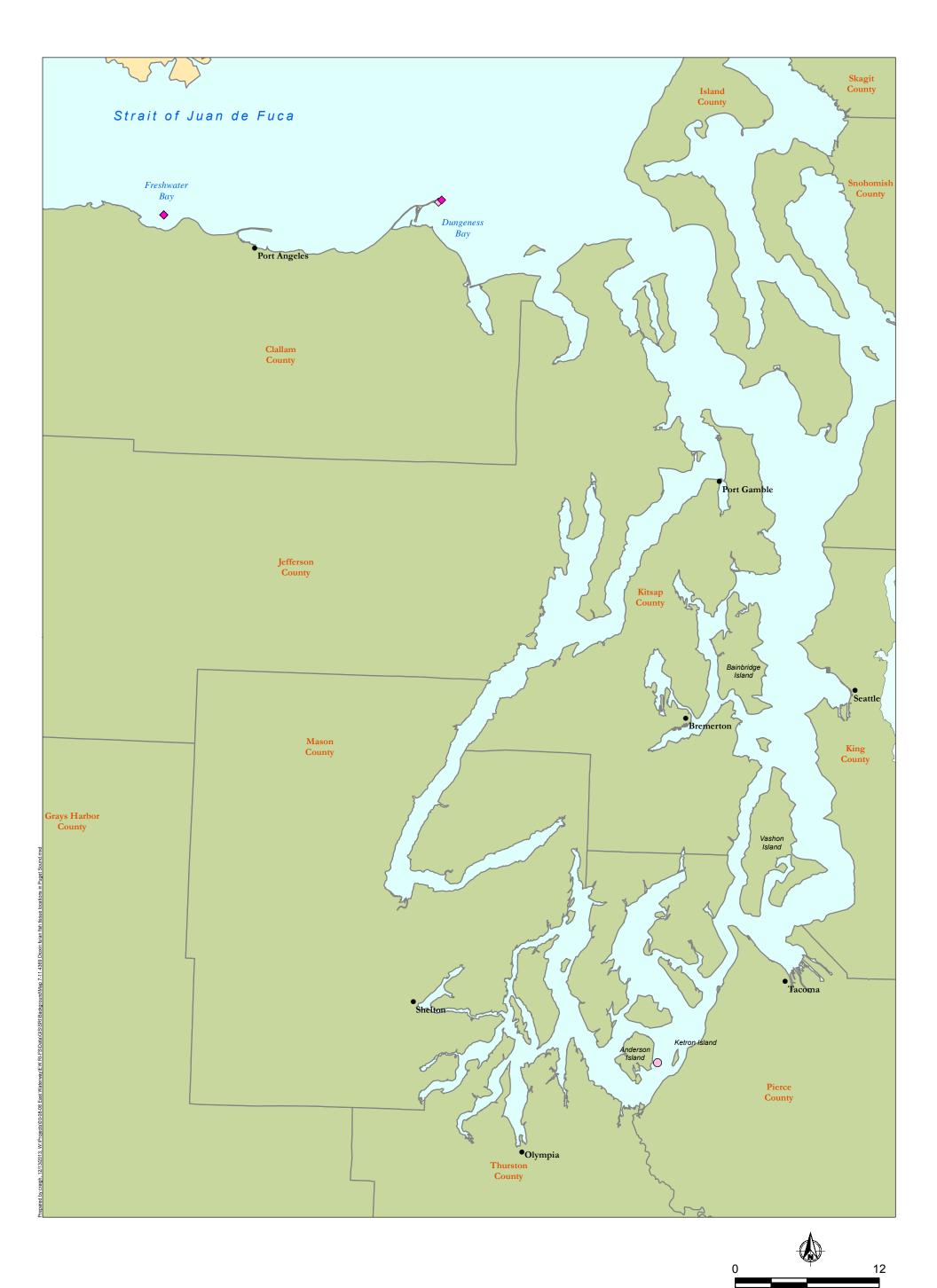
#### **Clam Tissue Sampling Locations**

- Butter Clam (Ecology 2000)
- Littleneck Clam (Ecology 2000)
- Littleneck Clam (Parametrix 2003)
- Geoduck and Horse Clam (Malcolm Pirnie 2007)
   Butter Clam (King County 1995, 2000,
- **2**001, 2002, 2005, 2006, 2009)





O Dungeness Crab (Malcolm Pirnie 2007)



#### **Fish Tissue Sampling Locations**

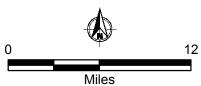
- ♦ Rock Sole (Malcolm Pirnie 2007)
- ♦ Starry Flounder (Malcolm Pirnie 2007)
- O English Sole (SAIC 2008b)

Miles



### **Clam Tissue Sampling Locations**

- Butter Clam (Ecology 2000)
- Littleneck Clam (Ecology 2000)
- Littleneck Clam (Parametrix 2003)
- Geoduck (Malcolm Pirnie 2007)
- Horse Clam (Malcolm Pirnie 2007) Geoduck and/or Horse Clam (Ecology 2009)



Map 7-12
Non-Urban Puget Sound Sampling Locations for Clam Tissue Analyzed for Dioxins/Furans Supplemental Remedial Investigation East Waterway Study Area



# 0 12 Miles

#### **Crab Tissue Sampling Locations**

- Dungeness Crab (PSEP 1991)
- Dungeness Crab (Ecology 2000)
- Dungeness Crab (Malcolm Pirnie 2007)
- Dungeness Crab (SAIC 2008b)





- Butter Clam (Ecology 2000)
- Littleneck Clam (Ecology 2000)
- Littleneck Clam (Parametrix 2003)
- Geoduck (Malcolm Pirnie 2007)
- Geoduck (Ecology 2009)

## **Mussel Tissue Sampling Locations**

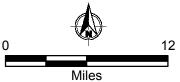
Bay Mussel (Ecology 2000)

#### **Crab Tissue Sampling Locations**

- O Dungeness Crab (Ecology 2000)
- □ Dungeness Crab (Malcolm Pirnie 2007)

## Fish Tissue Sampling Locations

■ Starry Flounder (Malcolm Pirnie 2007)



## Map 7-14

Non-Urban Puget Sound Sampling Locations for Seafood Tissue Analyzed for cPAHs Supplemental Remedial Investigation East Waterway Study Area