

# APPENDIX B. DRAFT SURVEY

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## CONTENTS

- ◆ Draft Survey Form (verbal version only) – the questions in this draft version of the survey are as used in the pilot
- ◆ Associated draft survey materials
  - ◆ Map: Location of the Lower Duwamish Waterway
  - ◆ Map: Fishing survey zones
  - ◆ Species Identification Card

# DRAFT SURVEY QUESTIONS (VERBAL VERSION)

## Conversation with Angler

### Section A: Introduction

Hi, my name is \_\_\_\_\_. I am with ECOSS, a local environmental organization, and I'd like to ask you a few questions about fishing in the Duwamish River. If you can help me with these questions, which I think will take about 10 minutes, we can offer you a \$10 card. We are asking these questions as part of a study to help us understand fishing from the Duwamish. This information will help the Environmental Protection Agency (EPA) and the Washington State Department of Ecology learn how to better communicate with people who fish in the Duwamish.

Key points:    Answers will be kept anonymous and confidential  
                     Responses cannot be linked to you personally  
                     Don't have to answer any question that you don't want to  
                     You may stop the interview at any time.

Do you have any questions and may I start interviewing you?

A check in this box indicates that all questions posed by the subject have been answered to the subject's satisfaction and that the subject has given verbal consent to be interviewed.

#### A1. Have you participated in this survey before?

*(If yes, assure them that they will still get a \$10 card for taking part in what will be a shorter survey today.)*

Yes \_\_\_\_\_ No \_\_\_\_\_ Unsure \_\_\_\_\_ No answer \_\_\_\_\_

### Section B: Purpose for Fishing

#### B1. What are the main reasons you fish?

*(Do not read options; check answer closest to what they say, or several if they give more than one reason.)*

Getting food or fresh fish \_\_\_\_\_ Social activity (time with family/friends) \_\_\_\_\_  
Time alone (relaxation) \_\_\_\_\_ Tradition, something my family does \_\_\_\_\_  
Other \_\_\_\_\_ No answer \_\_\_\_\_

#### B2. Why do you come to this spot to fish?

*(Do not read options; check answer closest to what they say, or several if they give more than one reason.)*

Fishing is good here \_\_\_\_\_ It's close to where I live or work \_\_\_\_\_  
I like the setting \_\_\_\_\_ It is easy to get here \_\_\_\_\_  
Tradition, cultural practices \_\_\_\_\_ Only place I know to fish \_\_\_\_\_  
Safe and friendly location \_\_\_\_\_ No answer \_\_\_\_\_  
Other \_\_\_\_\_

**B3 through B6:**

Species <i>(show pictures)</i>	B3. What are you fishing for today? <i>(check all that apply)</i>	B4. What have you caught before from this river? <i>(check all that apply)</i>	B5. Do you eat your catch from this river? <i>(circle responses)</i>	B6. Do you share your catch from this river with others? <i>(circle all that apply)</i>
Salmon			yes no	yes-family yes-others no
Perch			yes no	yes-family yes-others no
Flounder/Sole			yes no	yes-family yes-others no
Rockfish			yes no	yes-family yes-others no
Other fish			yes no	yes-family yes-others no
Clams			yes no	yes-family yes-others no
Crab			yes no	yes-family yes-others no
Squid			yes no	yes-family yes-others no
Anything I catch			yes no	yes-family yes-others no
Other			yes no	yes-family yes-others no
No answer				

**B7. (For people who eat their catch) What's the main reason you eat your catch?**  
*(Only ask if person keeps and eats or shares their catch. Do not read options; check answer closest to what they say, or several if they give more than one reason.)*

Provides a meal \_\_\_\_\_ Clean fish \_\_\_\_\_ Tastes good \_\_\_\_\_  
 Good for me \_\_\_\_\_ Free (cost) \_\_\_\_\_ No answer \_\_\_\_\_  
 Other \_\_\_\_\_

**B8. (For people who do not eat their catch other than salmon) Why don't you eat the seafood you catch?**  
*(Do not read options; check answer closest to what they say, or several if they give more than one reason. Then go to Section D.)*

Fish only for fun \_\_\_\_\_ Pollution/Cleanliness of fish \_\_\_\_\_ Eat only salmon \_\_\_\_\_  
 Use for bait \_\_\_\_\_ Fish advisory \_\_\_\_\_ No answer \_\_\_\_\_  
 Other \_\_\_\_\_

**Section C. Fishing Habits (for fishers who keep Duwamish seafood other than salmon)**

(For those who eat Duwamish seafood or share their catch with others who eat it. If respondent has taken the survey before, do NOT ask questions in this section – skip to Question E3.)

**C1. Not including salmon, in which seasons do you fish or collect seafood?**

Winter, spring, summer, or fall? (X if they fish in each season)				
	Winter	Spring	Summer	Fall
How often in each season?	Daily _____	Daily _____	Daily _____	Daily _____
	Weekly _____	Weekly _____	Weekly _____	Weekly _____
	Monthly _____	Monthly _____	Monthly _____	Monthly _____
	Never _____	Never _____	Never _____	Never _____
	No answer _____	No answer _____	No answer _____	No answer _____

**C2. In addition to where you are fishing today, do you fish or collect seafood (other than salmon) at other locations on this river? If so, where? (Show map; write down numbers of fishing zones 1 to 12)**

Zone number(s) \_\_\_\_\_ All zones \_\_\_\_\_ None \_\_\_\_\_ No answer \_\_\_\_\_

**C3. Do you fish (for species other than salmon) or collect crab or clams from local waters other than this river?**

Yes \_\_\_\_\_ No \_\_\_\_\_ Sometimes \_\_\_\_\_ No answer \_\_\_\_\_

If yes, where? (follow-up question to be asked at discretion of surveyor)

Locations: \_\_\_\_\_

**Section D. Contamination Awareness and Communication**

**D1. Have you seen or heard anything about eating seafood caught from the river?**

Yes \_\_\_\_\_ No \_\_\_\_\_

*If YES, what? (Do not read options; check answer closest to what they say, or several if they give more than one.)*

Fish, crab, and clams caught here are okay \_\_\_\_\_ Fish are a healthy food \_\_\_\_\_

Salmon are the best choice \_\_\_\_\_ Do not eat certain kinds (of seafood) \_\_\_\_\_

Do not eat anything from this river \_\_\_\_\_ Fish advisory \_\_\_\_\_

No answer \_\_\_\_\_

Other (please specify) \_\_\_\_\_

**D2 and D3:**

Source <i>(Do not read options; check at right if indicated)</i>	D2. If answered YES to D1:		D3. If answered YES or NO to D1:
	Where did you see/ hear information about eating seafood from this river? <i>(check all that apply and record name specified)</i>	Do you trust this source? <i>(only ask for those sources identified)</i>	What sources do you trust to get information? <i>(check all that apply)</i>
Word of mouth, talking with friends and family			
Newspapers (specify name _____)			
TV (specific name _____)			
Radio (specify name _____)			
Internet or social media (e.g., Facebook)			
Community/senior centers, community gatherings (specify name _____)			
Places of worship			
Community health Clinics, centers, health providers (e.g., doctors, nurses)			
Letters or flyers distributed in the community			
Signs posted at fishing locations			
Bait and Tackle shops			
Location where fishing license was purchased			
WDFW Fishing Pamphlet Regulations			
Information from Public Health Department			
School			
No answer			
Other (specify _____)			
Other notes about source described above:			

**D4. What would be your preferred language for this information?**

*(Check all that apply)*

English \_\_\_\_\_ Hmong \_\_\_\_\_ Khmer (Cambodian) \_\_\_\_\_ Korean \_\_\_\_\_  
 Lao \_\_\_\_\_ Simplified Chinese \_\_\_\_\_ Mienh \_\_\_\_\_ Spanish \_\_\_\_\_  
 Tagalog \_\_\_\_\_ Vietnamese \_\_\_\_\_ No answer \_\_\_\_\_  
 Other *(please specify)* \_\_\_\_\_

## Section E. Additional Information

*The questions in this section are intended to help us with outreach and education.*

- E1. We would like to better understand where people who fish in the Duwamish live. Would you mind sharing the name of the neighborhood where you live or your home zip code?**

Zip code \_\_\_\_\_ Neighborhood \_\_\_\_\_ No answer \_\_\_\_\_

- E2. What do you consider your ethnicity/race?**  
*(Check all that apply.)*

American Indian/Alaska native _____	Bhutanese _____	Black/African American _____
Bosnian _____	Burmese _____	Cambodian/Khmer _____
Chinese _____	Ethiopian _____	Eritrean _____
Filipino _____	Hmong _____	Indian _____
Japanese _____	Korean _____	Lao _____
Latino _____	Mienh _____	Mongolian _____
Russian _____	Samoan _____	Somali _____
Thai _____	Vietnamese _____	White/Caucasian _____

Other *(please specify)* \_\_\_\_\_

- E3. We'll be out conducting this survey for a year. We may run into you again out here, and you could take a shorter version of the survey and receive a card again. Could you please provide the first letter of your first name and the last 4 digits of your phone number. This will allow us to know whether you have taken the survey before but will not allow us to identify you.**

First initial \_\_\_\_\_ No answer \_\_\_\_\_ Last 4 digits of phone number \_\_\_\_\_ No answer \_\_\_\_\_

- E4. Do you have anything more you wish to share or do you have any questions?**

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**Section F. Questions for those willing to talk longer**

Thank you very much for taking this survey. Here is the card (*get card tracking form initialed*). This concludes my questions; however, if you have some additional time, I have a few more questions about eating seafood and health. Would you be interested in answering these?

NO – Thank you very much for your help.  
YES – continue below

**F1. Do you think there are any benefits from eating seafood from this river?**

*(If YES, ask what these might be.)*

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**F2. Do you think there are any risks from eating seafood from this river?**

*(If YES, ask what these might be.)*

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**F3. How do you know if the seafood you catch is safe to eat?**

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**F4. Are some types of seafood from this river safer to eat than others? *(If YES, ask which ones; how might they know this?)***

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**F5. What type of resources would be most helpful to inform you about eating seafood from this river?**

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Thank you very much for your help.

**Section G. For interviewer to fill out after respondent has completed the survey**

- G1. Interviewer \_\_\_\_\_
- G2. Location \_\_\_\_\_
- G3. Date \_\_\_\_\_
- G4. Time \_\_\_\_\_
- G5. Language used \_\_\_\_\_
- G6. Gender of respondent \_\_\_\_\_
- G7. Estimated age of respondent      Under 18 years \_\_\_\_\_      18 to 30 years \_\_\_\_\_  
*(multiple-choice ranges)*                      30 to 50 years \_\_\_\_\_      50 years or older \_\_\_\_\_
- G8. Number of fishers in group with respondent \_\_\_\_\_

**G.9. Additional notes from survey:**

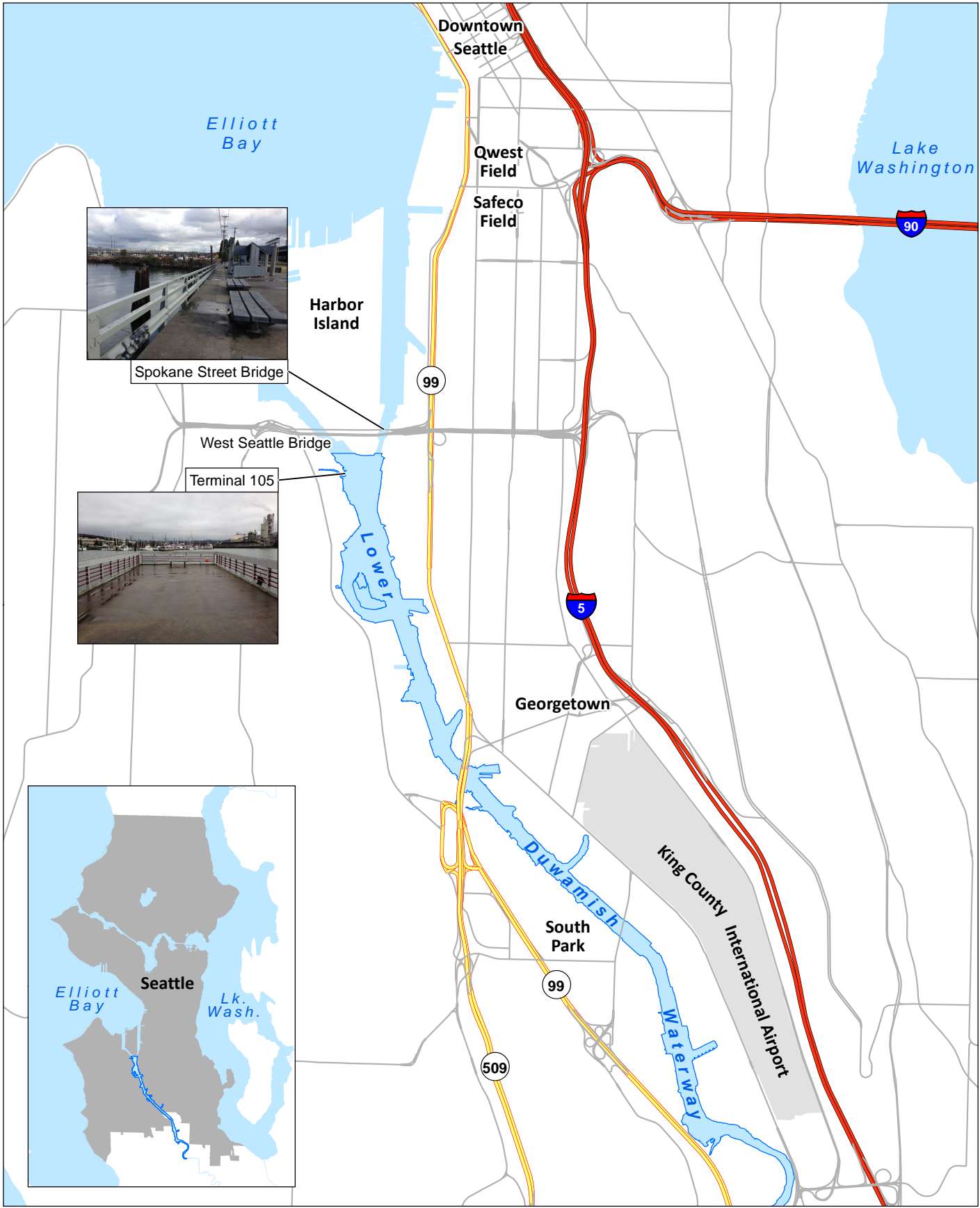
Did the survey appear to be understandable and comfortable to use? (suggestions for changes to survey questions or directions)

Cultural context notes that could help interviewer better understand answers

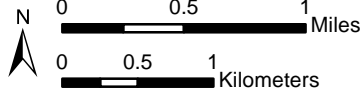
Notes for future interviews (e.g., potential questions for interviews, suggestions for format)

Other observations:

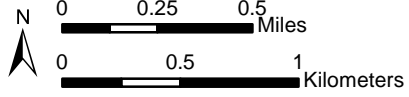
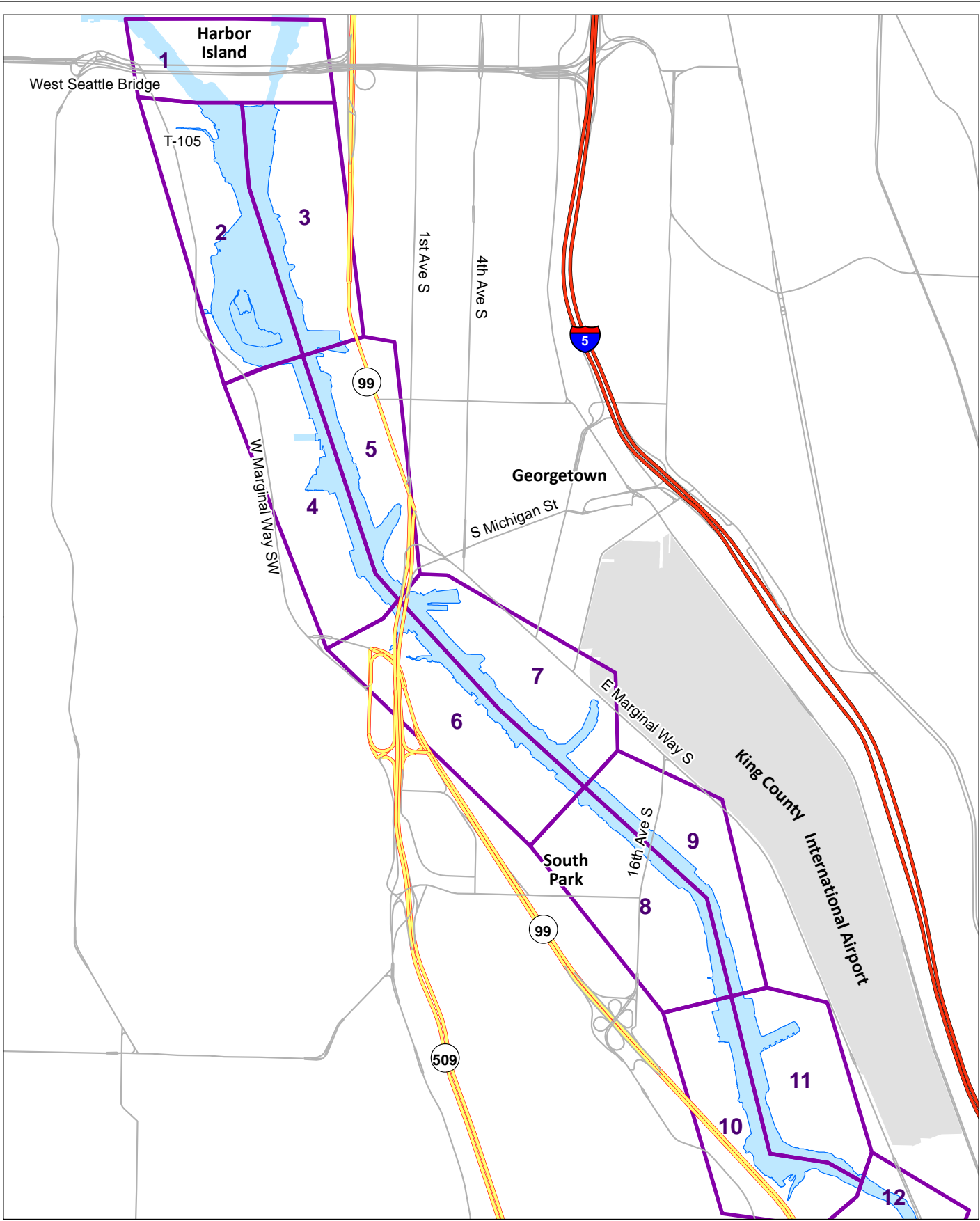




Prepared by: craigh. 8/21/2014. W:\Projects\00-08-06\_Duwamish\_River\GIS\Fisher\_Study\5644 LDW location.mxd



**Appendix B**  
**Location of the Lower Duwamish Waterway**



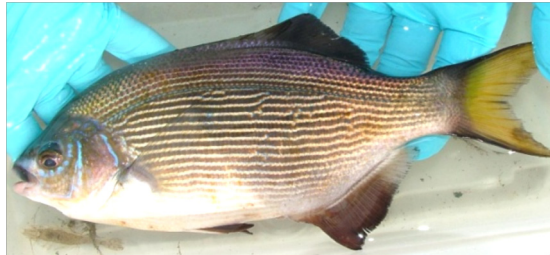
**Appendix B**  
**Fishing survey zones**

# Resident Fish

**Flatfish / Flounder / Sole**



**Perch**



(e.g., Shiner perch, pile perch, striped perch)

**Bait fish / other small fish**

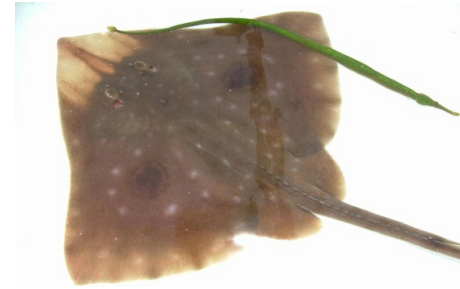


(e.g., herring or smelt)

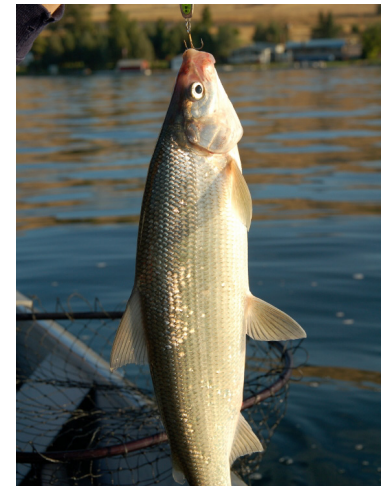
**Rockfish**



**Big Skate**



**Whitefish (Suckerfish)**



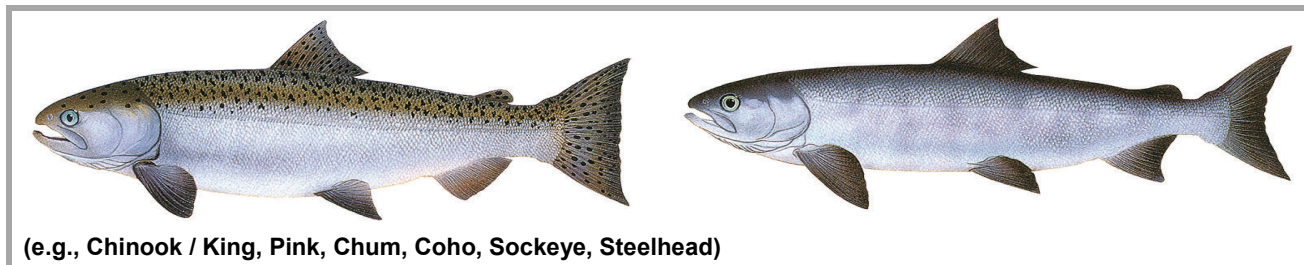
**Sculpin (Bullhead/Cabazon/Greenling)**



**Dogfish**



## Salmon (Non-Resident Fish)



(e.g., Chinook / King, Pink, Chum, Coho, Sockeye, Steelhead)

## Non-Fish Species

### Crabs



(e.g., Dungeness, Slender or Red Rock)

### Clams



(e.g., Eastern softshell, cockles)

### Mussels



### Squid

