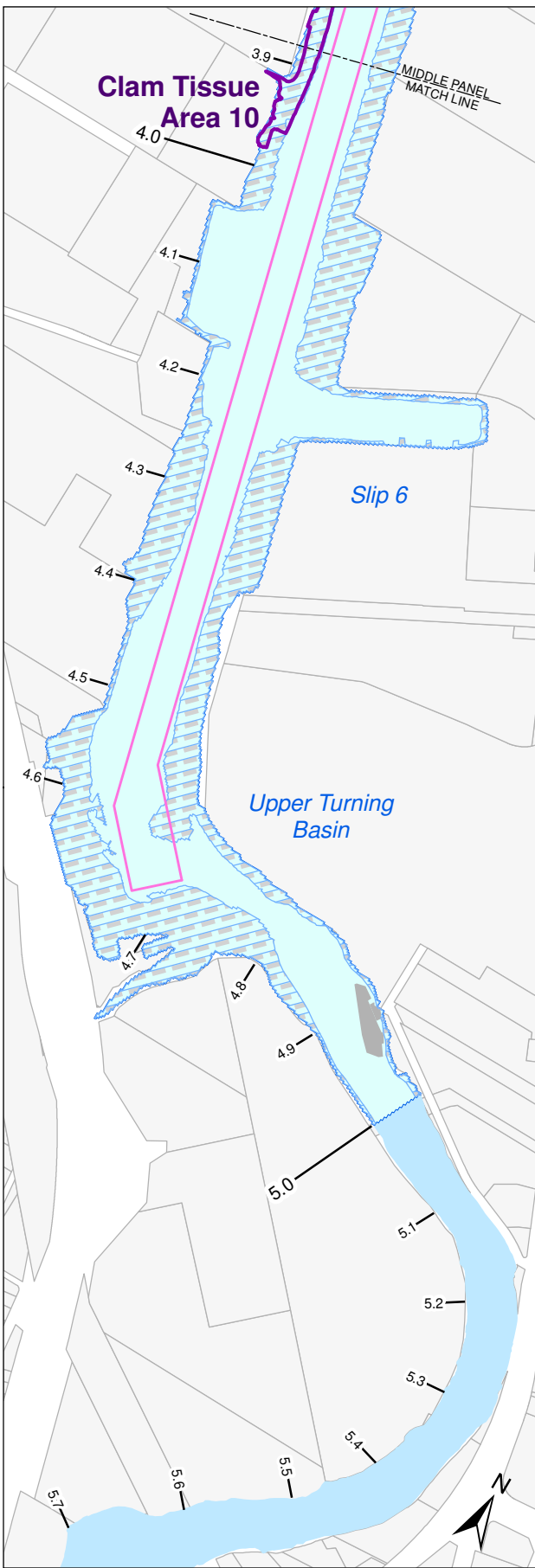
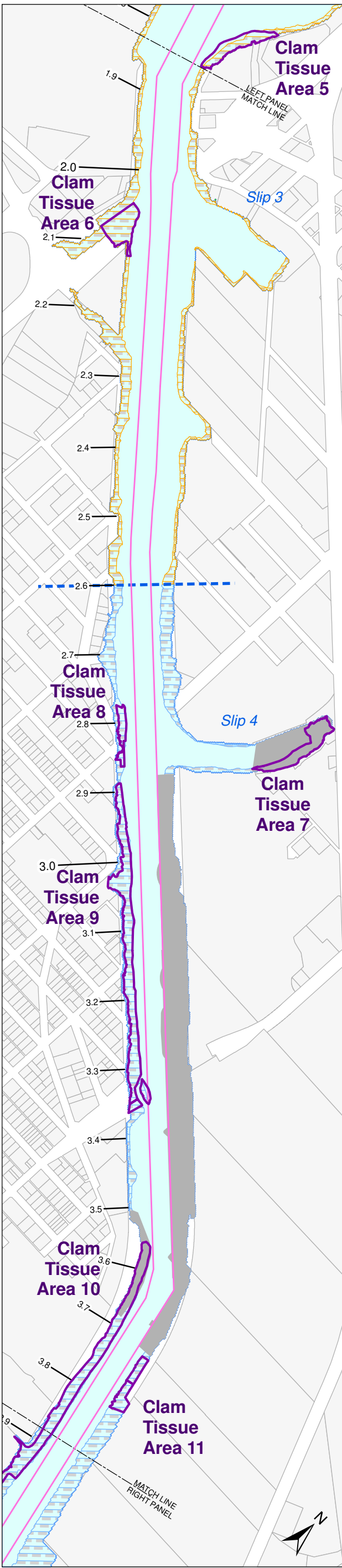
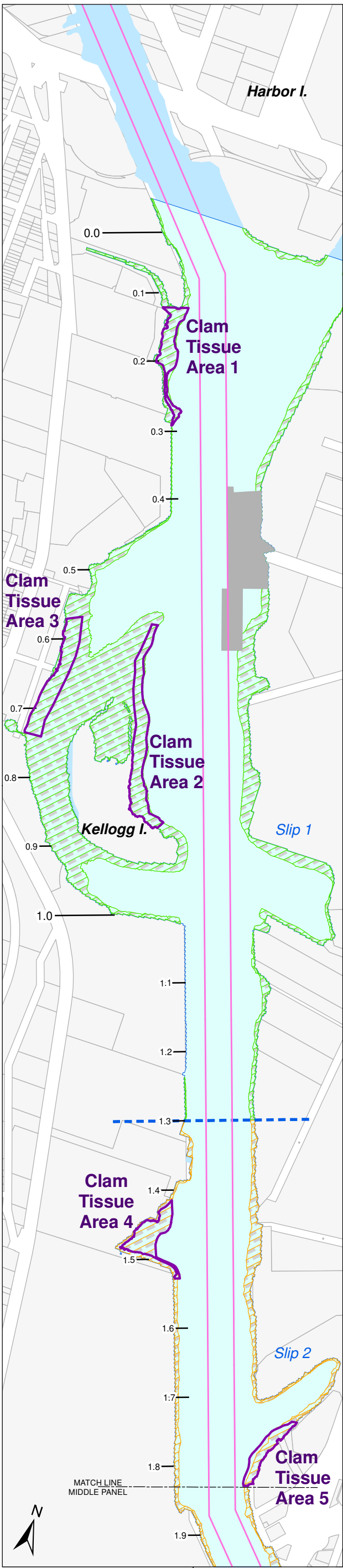


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- Clam tissue collection area^a
- Clam tissue intertidal segments**
- Segment 1
 - Segment 2
 - Segment 3
 - Intertidal segment boundary
 - Early Action Area
 - LDW Superfund Boundary
 - King Co tax parcel
 - Navigation Channel
 - River mile

^a Based on LDW RI clam tissue collection areas.

Map 5-1. Baseline clam tissue collection areas

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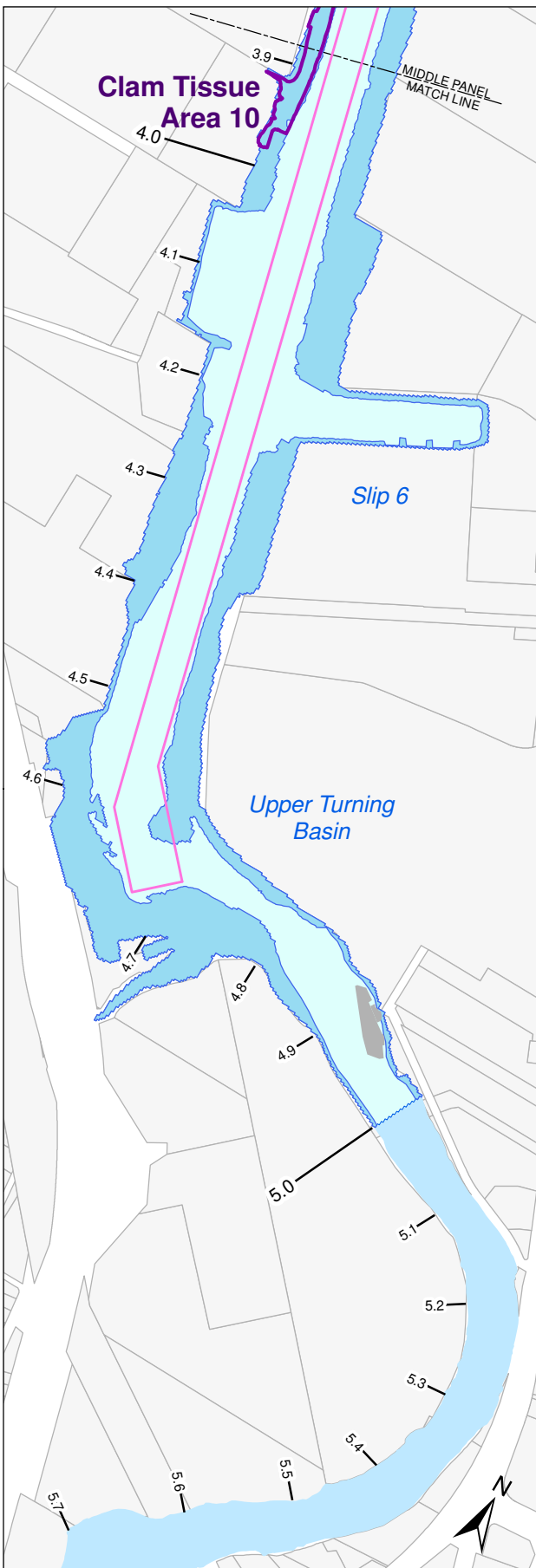
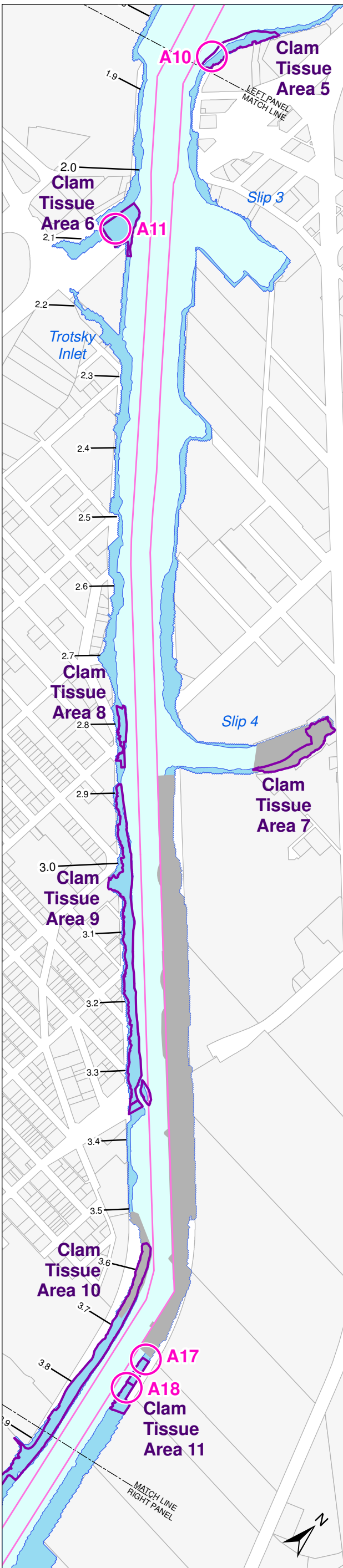
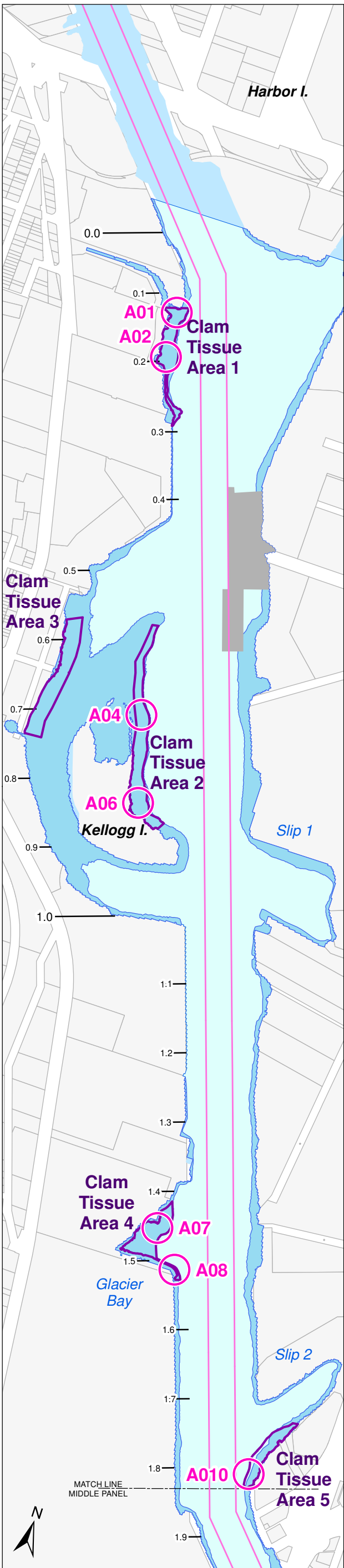
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0 0.1 0.2 Miles
0 0.2 0.4 Kilometers
Scale is the same for each inset map

Prepared by craigh_12/17/2018: W:\Projects\Duwamish AOC3 GIS Maps and Analyses\Task 06 Data Evaluation Report\Map 6-1 6523 Clam and cPAH PW sampling.mxd

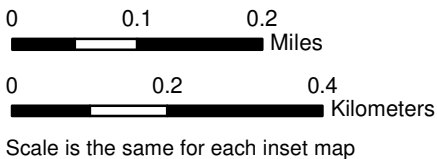


- Baseline clam tissue collection area^a
- cPAH location selected for porewater investigation
- Intertidal area
- Early Action Area
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

^a Based on LDW RI clam tissue collection areas.

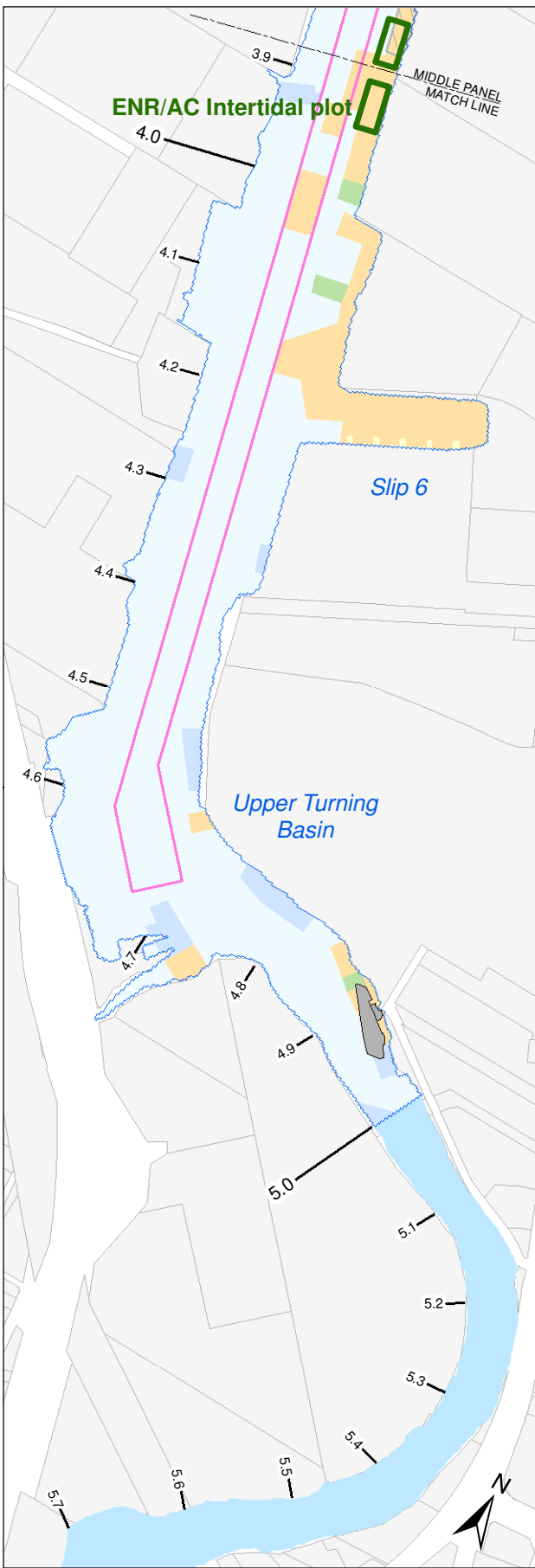
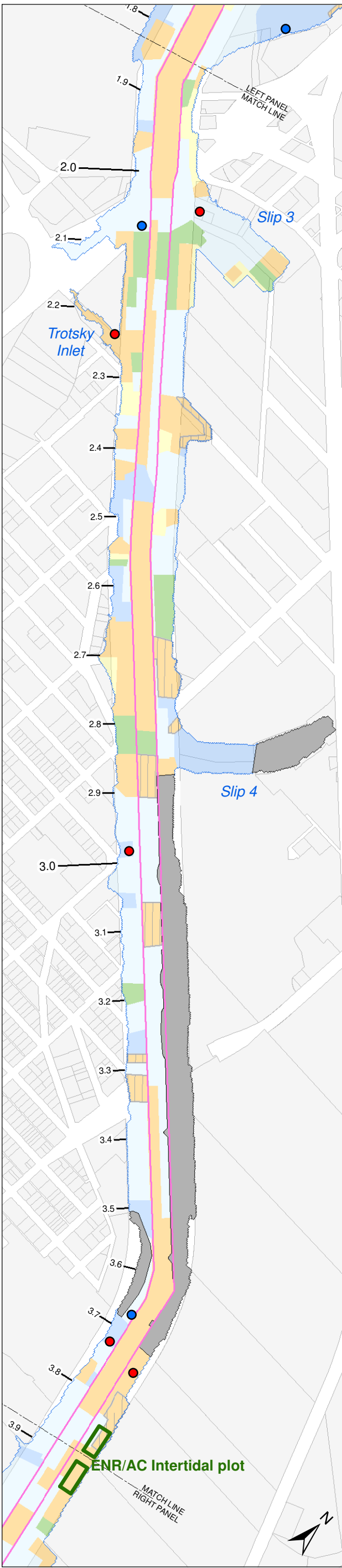
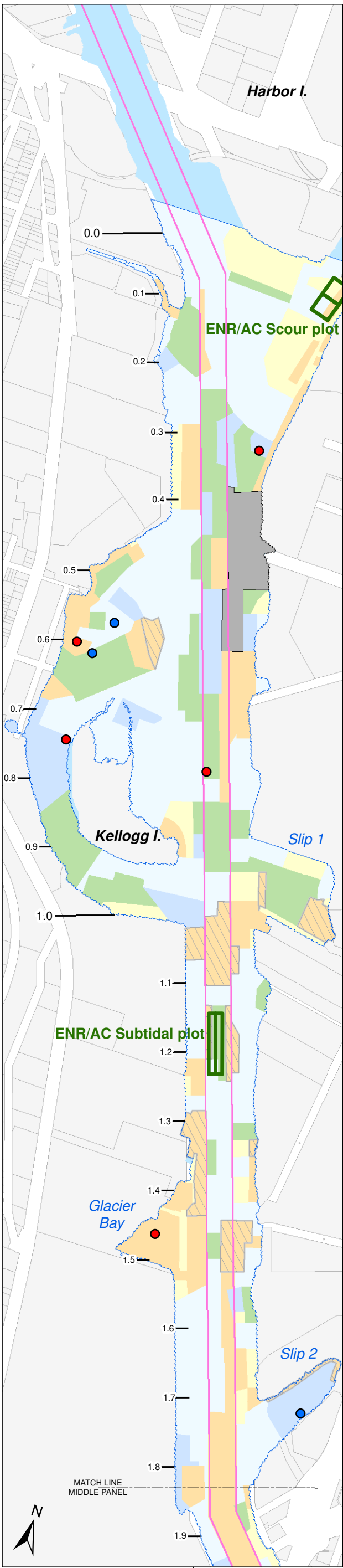
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Map 6-1. Targeted clam tissue collection and cPAH porewater investigation areas

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- Pre-Design Studies (2018) surface sediment and porewater location
 - MIT Study (November 2012) sediment and porewater location^a
 - ENR/AC Pilot Study area - baseline sediment and porewater data collected for each plot
- Technology assignment (ROD Fig. 18)^b**
- Dredge
 - Partial Dredge and Cap
 - Cap
 - ENR/*in situ*
 - Monitored Natural Recovery (Surface Sediment >SCO)
 - Monitored natural recovery (Surface Sediment <SCO)
 - Early Action Area
 - LDW Superfund Boundary
 - King Co tax parcel
 - Navigation Channel
 - River mile

^a All locations are approximate pending receipt of data.
^b Source: EPA 2014.

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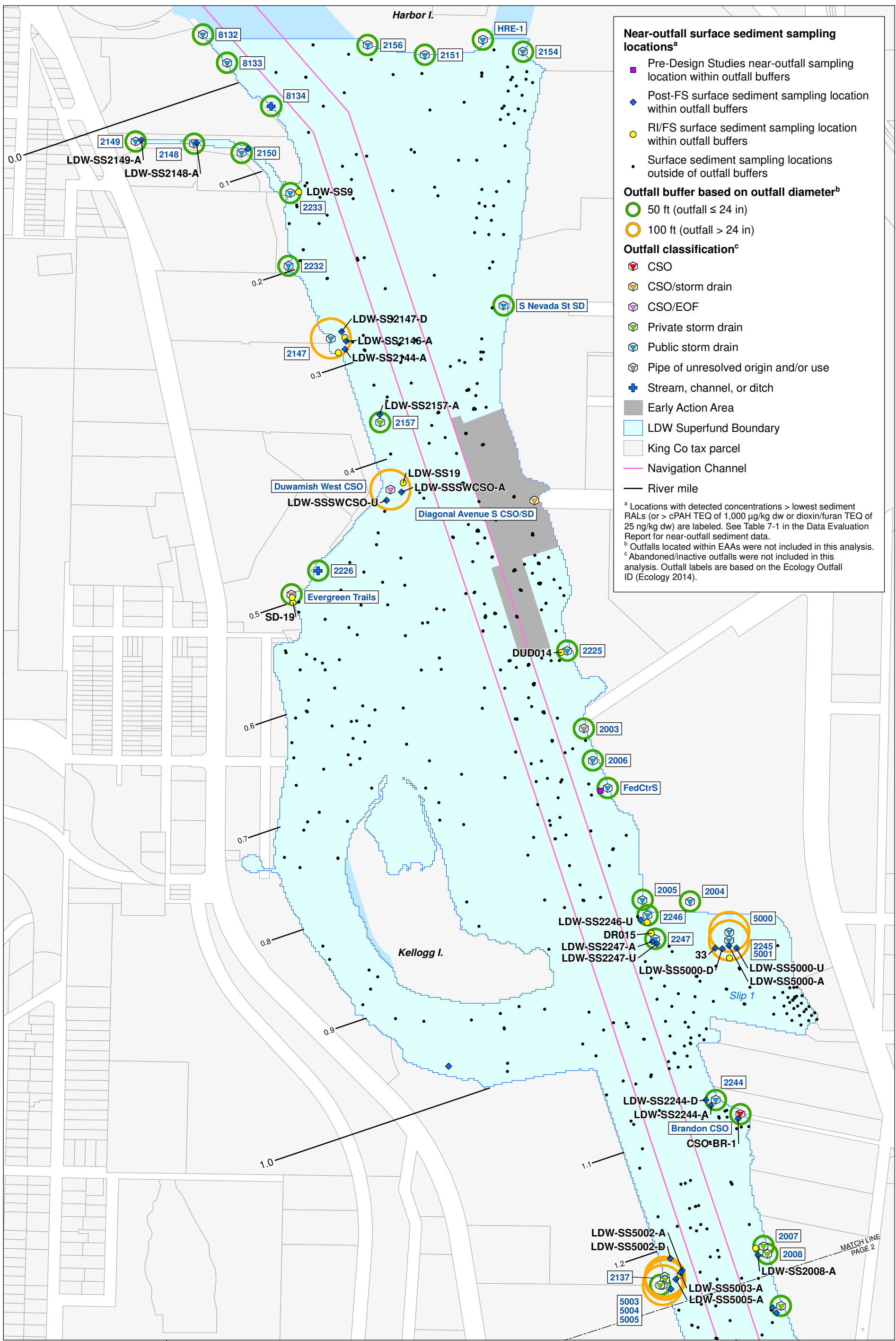
0 0.1 0.2 Miles
0 0.2 0.4 Kilometers
Scale is the same for each inset map

Map 6-2. Baseline PCB porewater locations relative to ROD Figure 18 technology assignments and ENR/AC pilot areas

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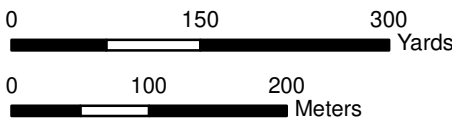
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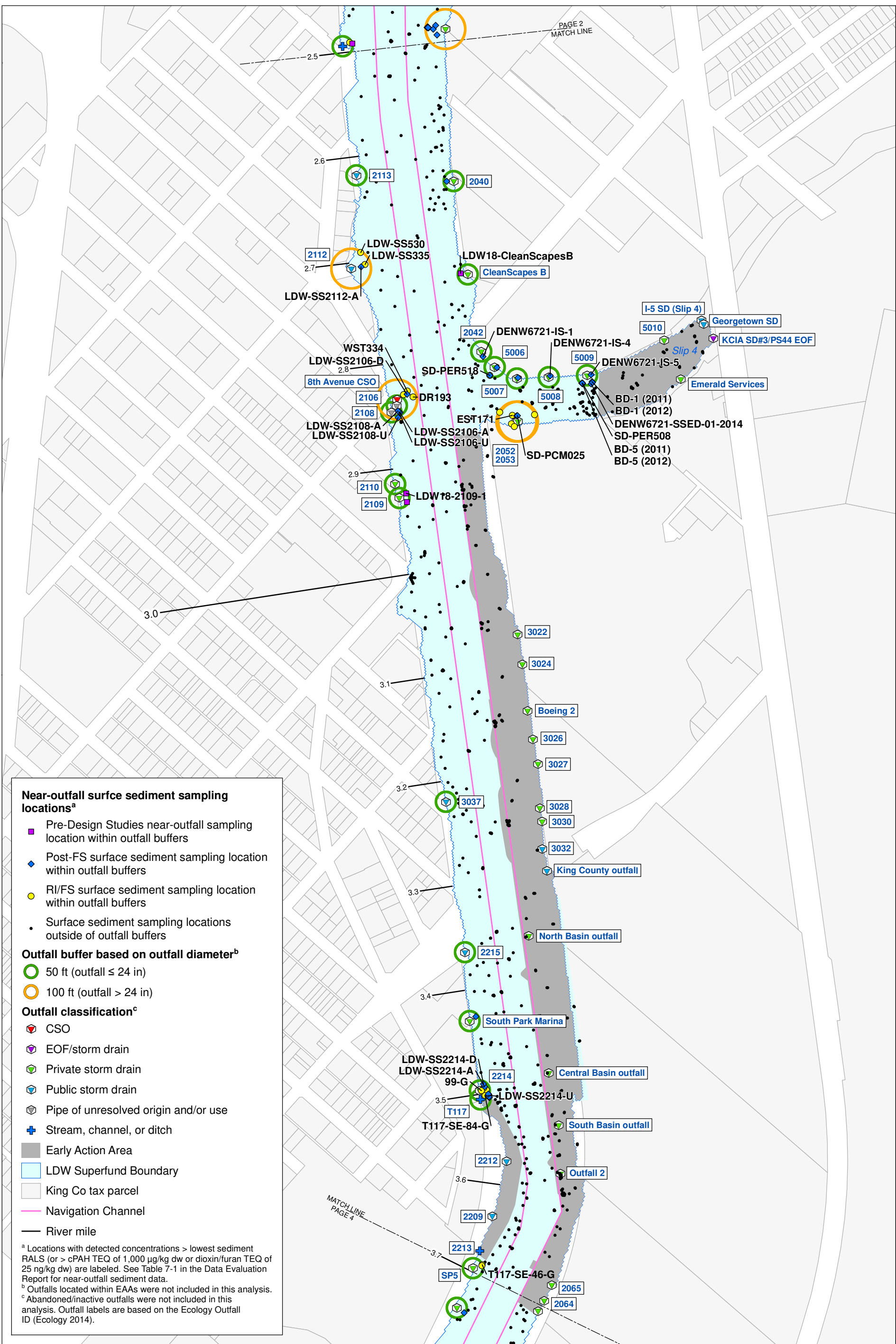


Map 7-1a. Near-outfall surface sediment sample locations and lowest RAL exceedances, RM 0.0 to RM 1.2

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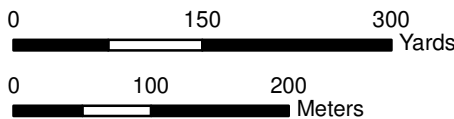
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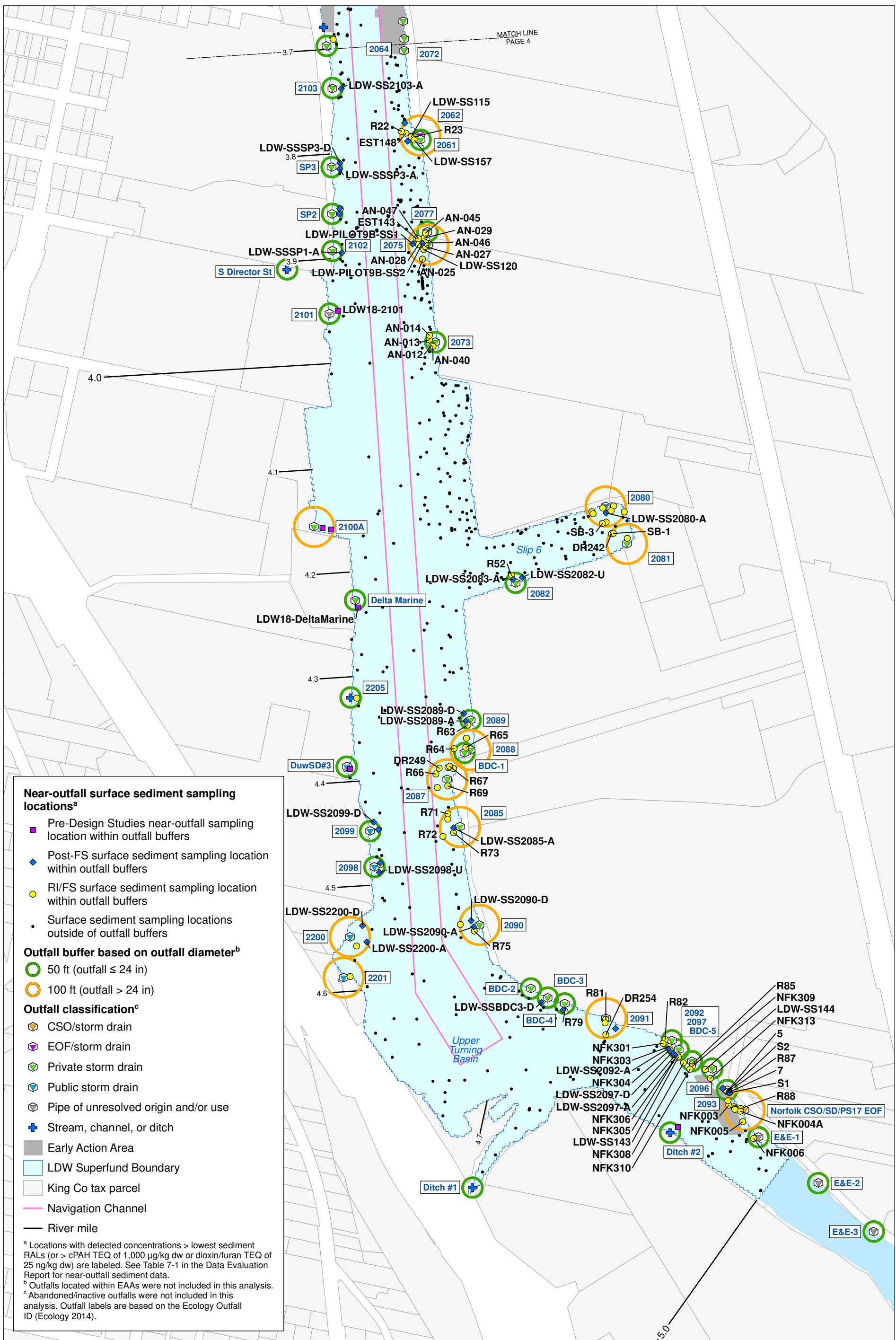


Map 7-1c. Near-outfall surface sediment sample locations and lowest RAL exceedances, RM 2.5 to RM 3.7

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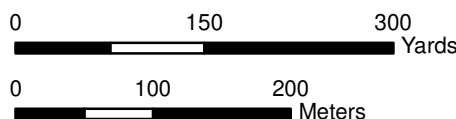
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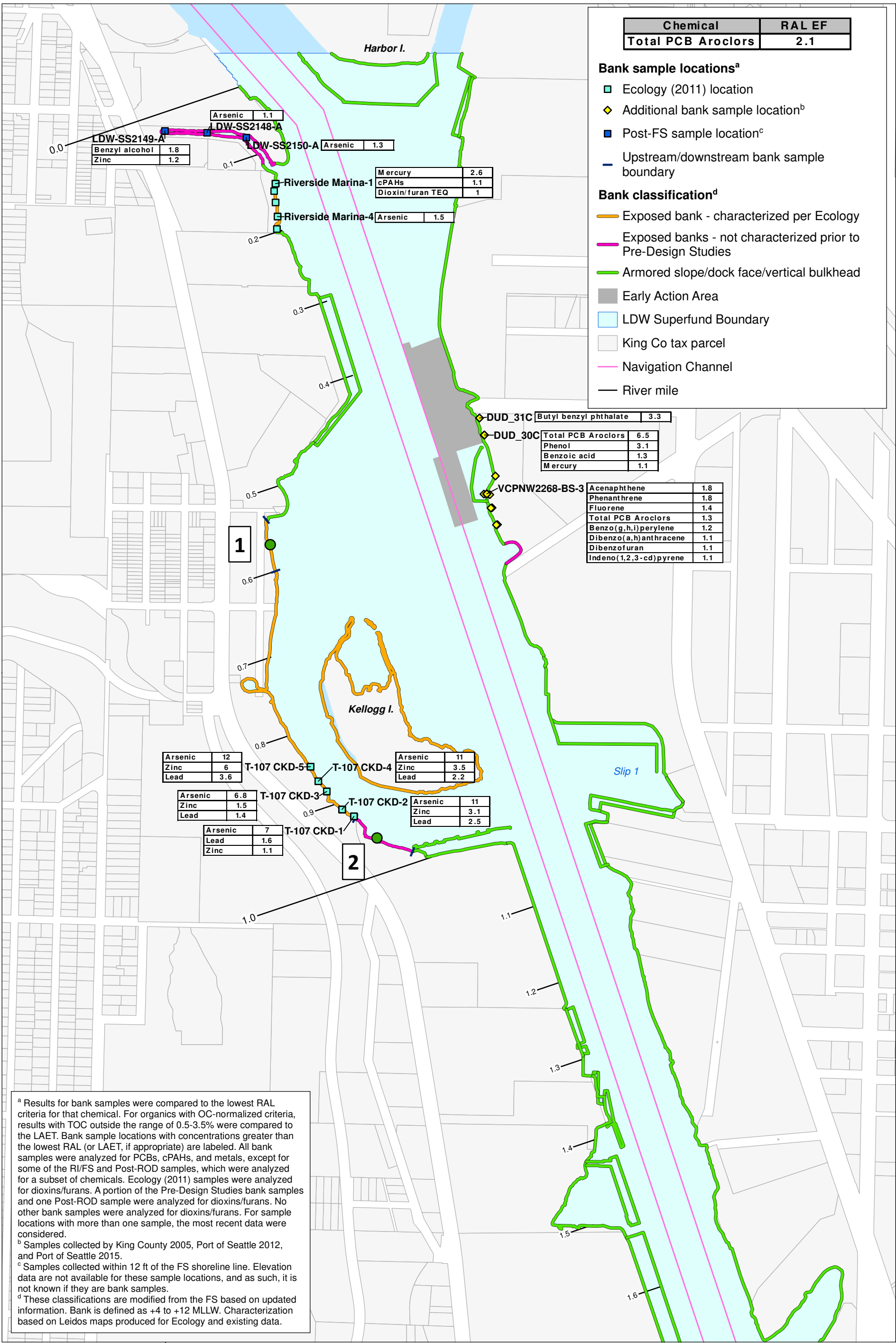


Map 7-1d. Near-outfall surface sediment sample locations and lowest RAL exceedances, RM 3.7 to RM 5.0

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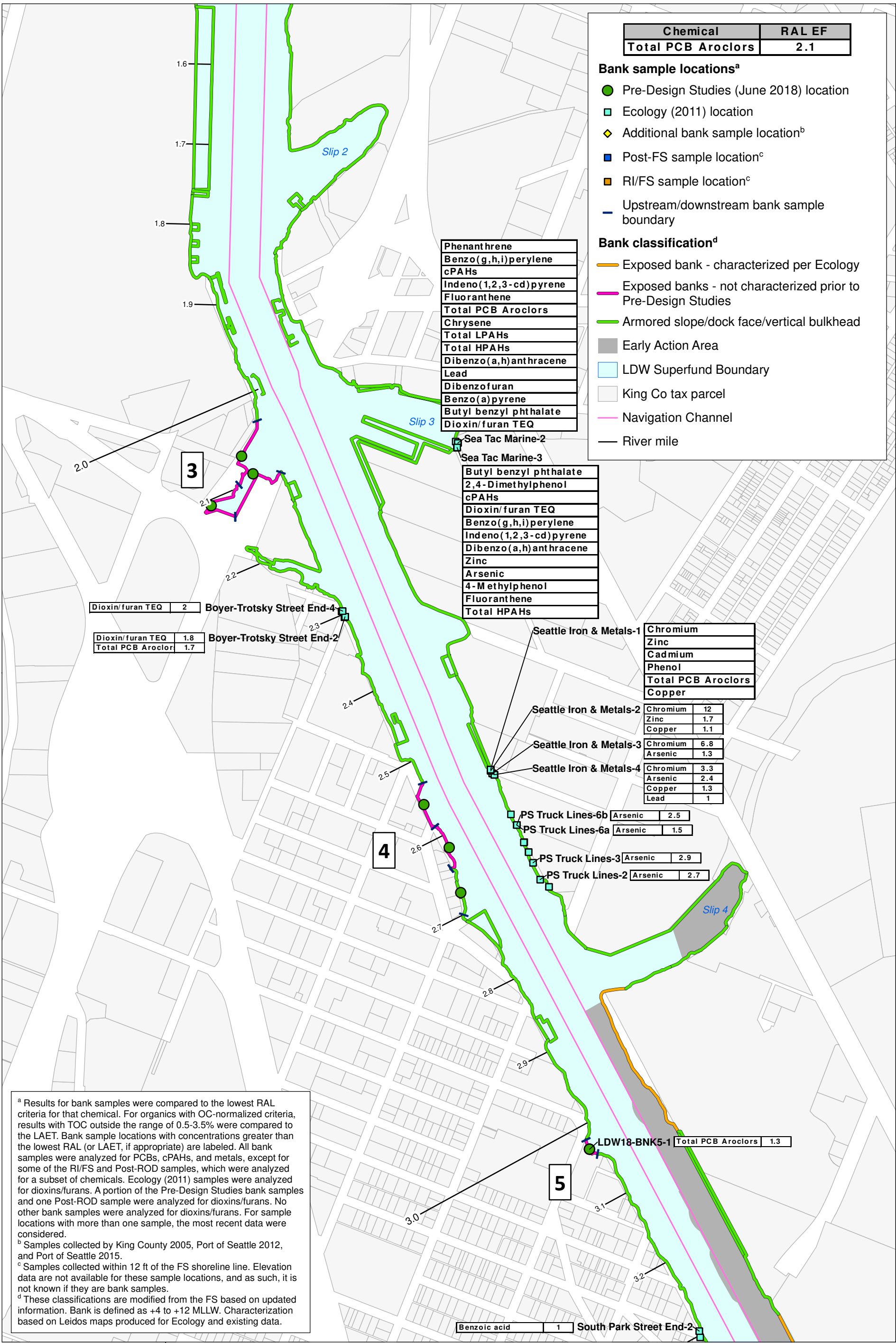


Map 7-2a. Comparison of bank data with lowest surface sediment RALs, RM 0.0 to RM 1.6

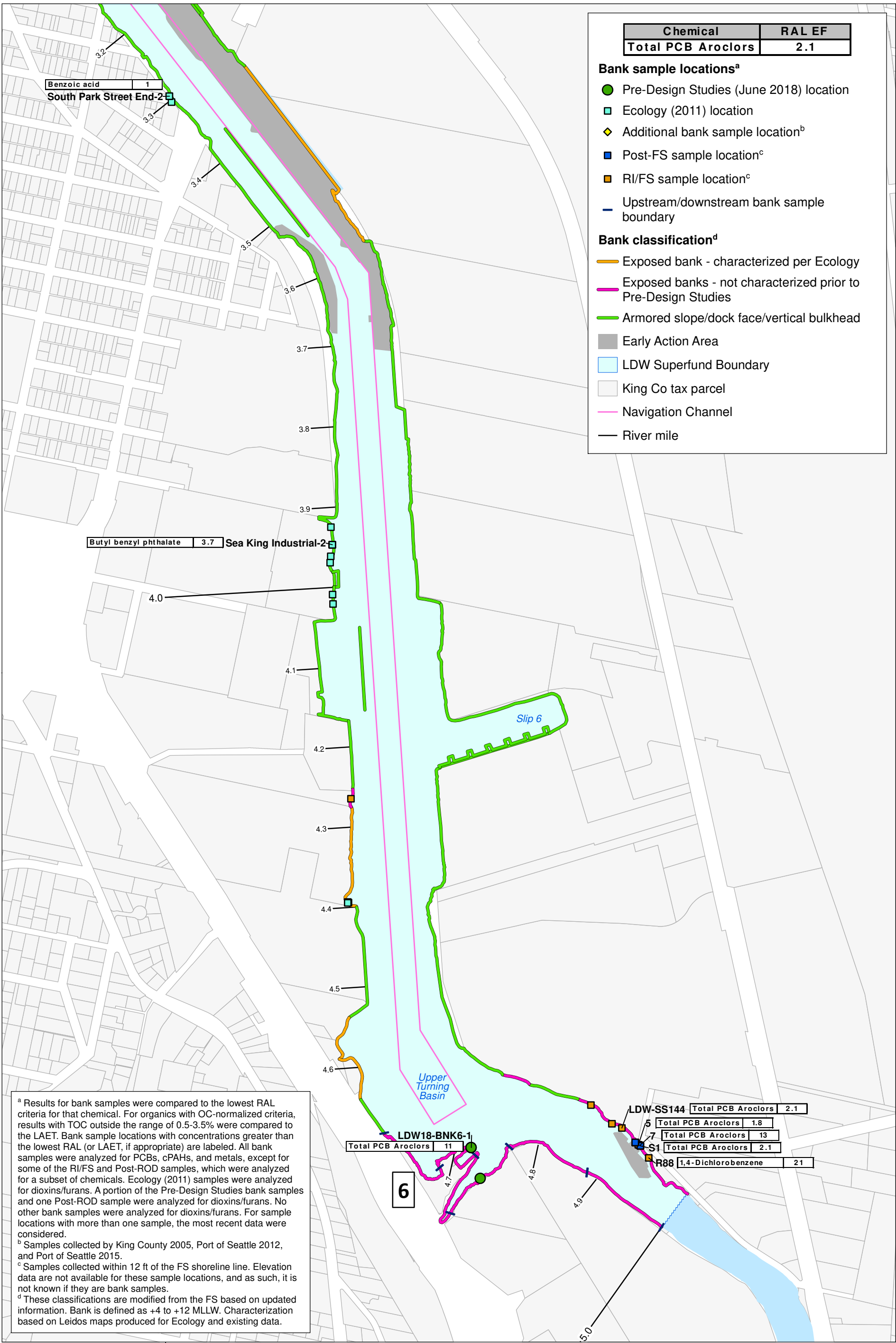
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^a Results for bank samples were compared to the lowest RAL criteria for that chemical. For organics with OC-normalized criteria, results with TOC outside the range of 0.5-3.5% were compared to the LAET. Bank sample locations with concentrations greater than the lowest RAL (or LAET, if appropriate) are labeled. All bank samples were analyzed for PCBs, cPAHs, and metals, except for some of the RI/FS and Post-ROD samples, which were analyzed for a subset of chemicals. Ecology (2011) samples were analyzed for dioxins/furans. A portion of the Pre-Design Studies bank samples and one Post-ROD sample were analyzed for dioxins/furans. No other bank samples were analyzed for dioxins/furans. For sample locations with more than one sample, the most recent data were considered.

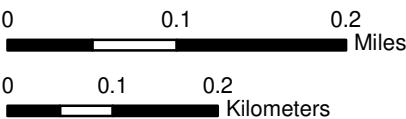
^b Samples collected by King County 2005, Port of Seattle 2012, and Port of Seattle 2015.

^c Samples collected within 12 ft of the FS shoreline line. Elevation data are not available for these sample locations, and as such, it is not known if they are bank samples.

^d These classifications are modified from the FS based on updated information. Bank is defined as +4 to +12 MLLW. Characterization based on Leidos maps produced for Ecology and existing data.



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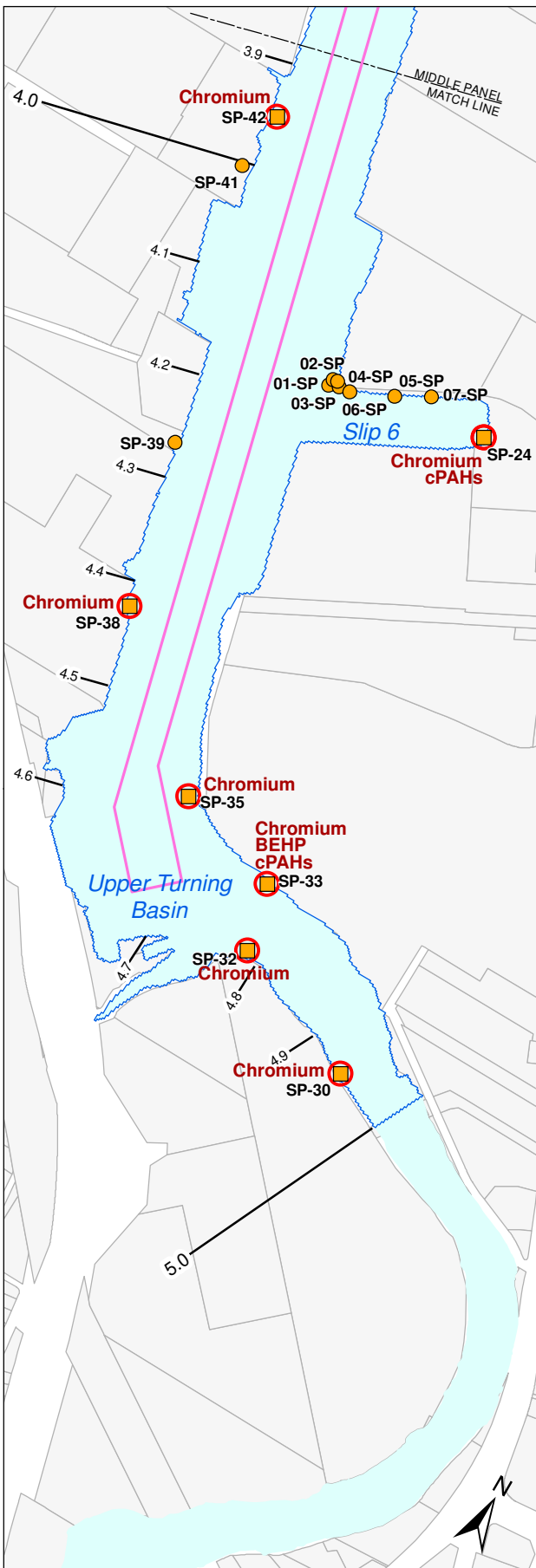
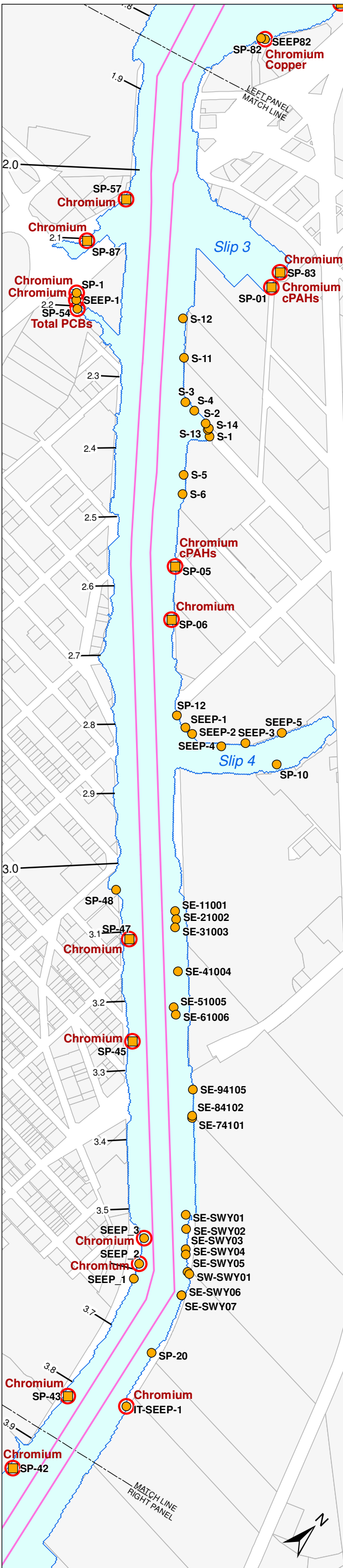
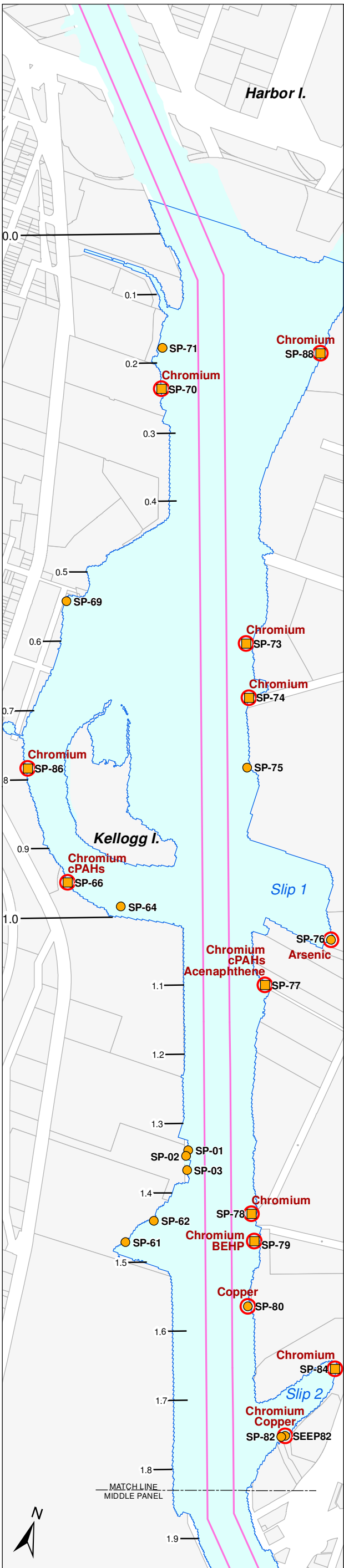


Map 7-2c. Comparison of bank data with lowest surface sediment RALs, RM 3.2 to RM 5.0

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Seep locations with dissolved data

- Pre-Design Studies seep sampling location
- RI/FS seep sampling location
- Seep location with concentration > groundwater PCUL^a
- King Co tax parcel
- LDW Superfund Boundary
- Navigation Channel
- River mile

^a Detected concentrations in filtered seep water were compared to groundwater PCULs protective of sediment listed in Ecology 2018. Locations are labeled with chemicals whose concentrations are > groundwater PCUL.

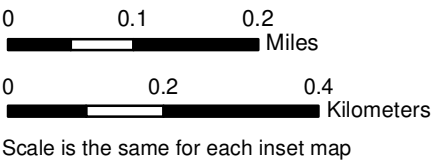
Map 7-3. Comparison of seep data to groundwater screening levels protective of sediment in Ecology 2018

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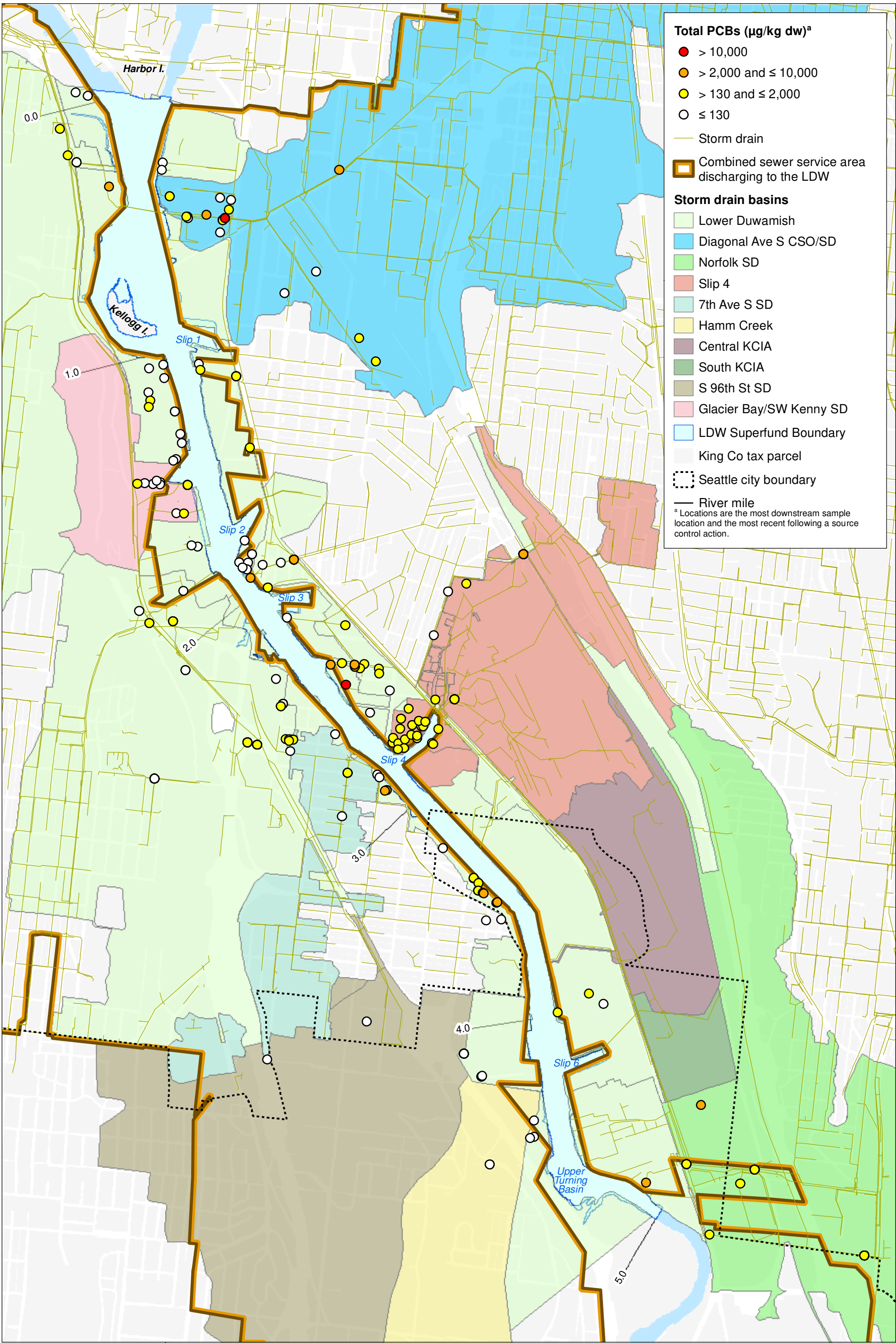
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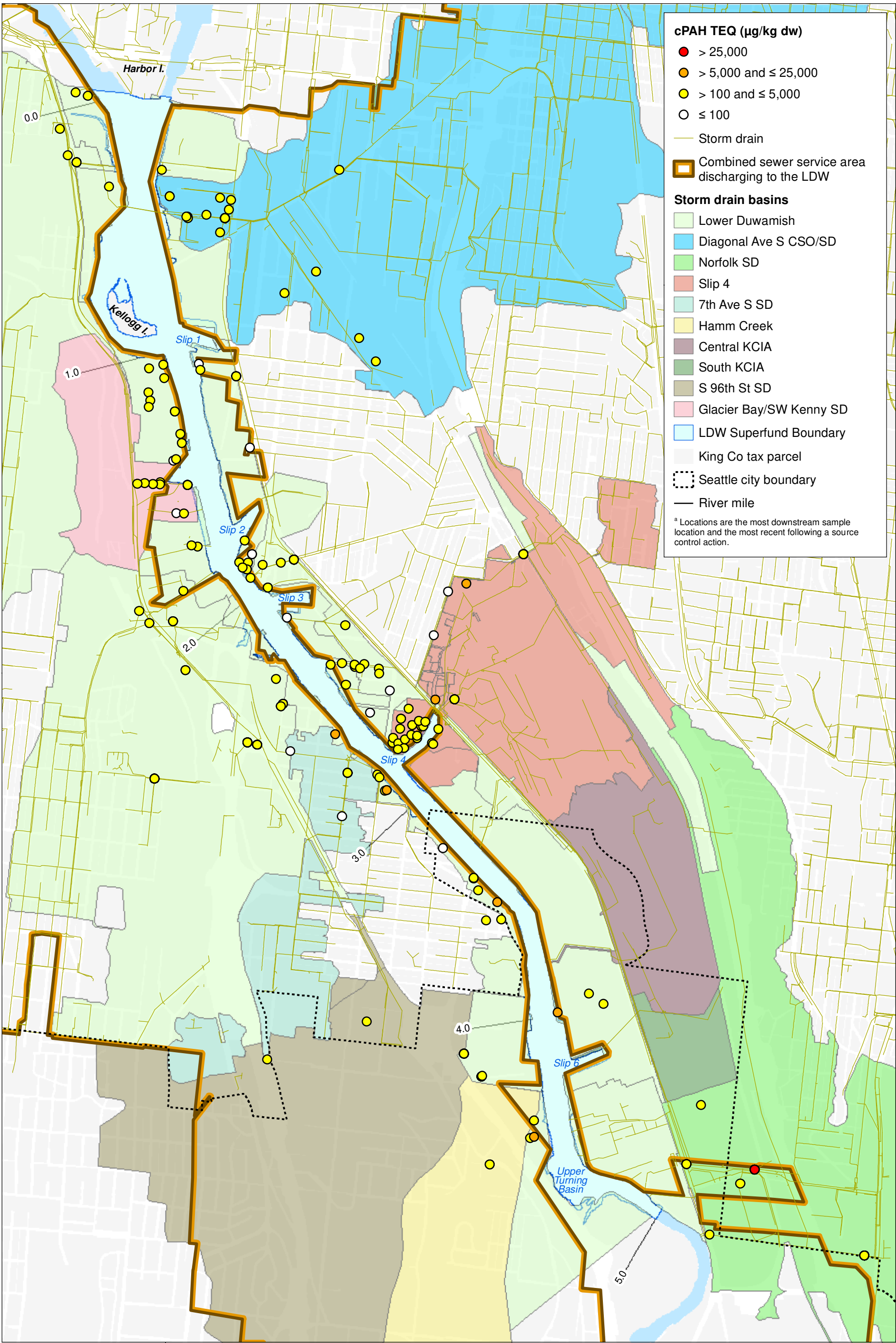
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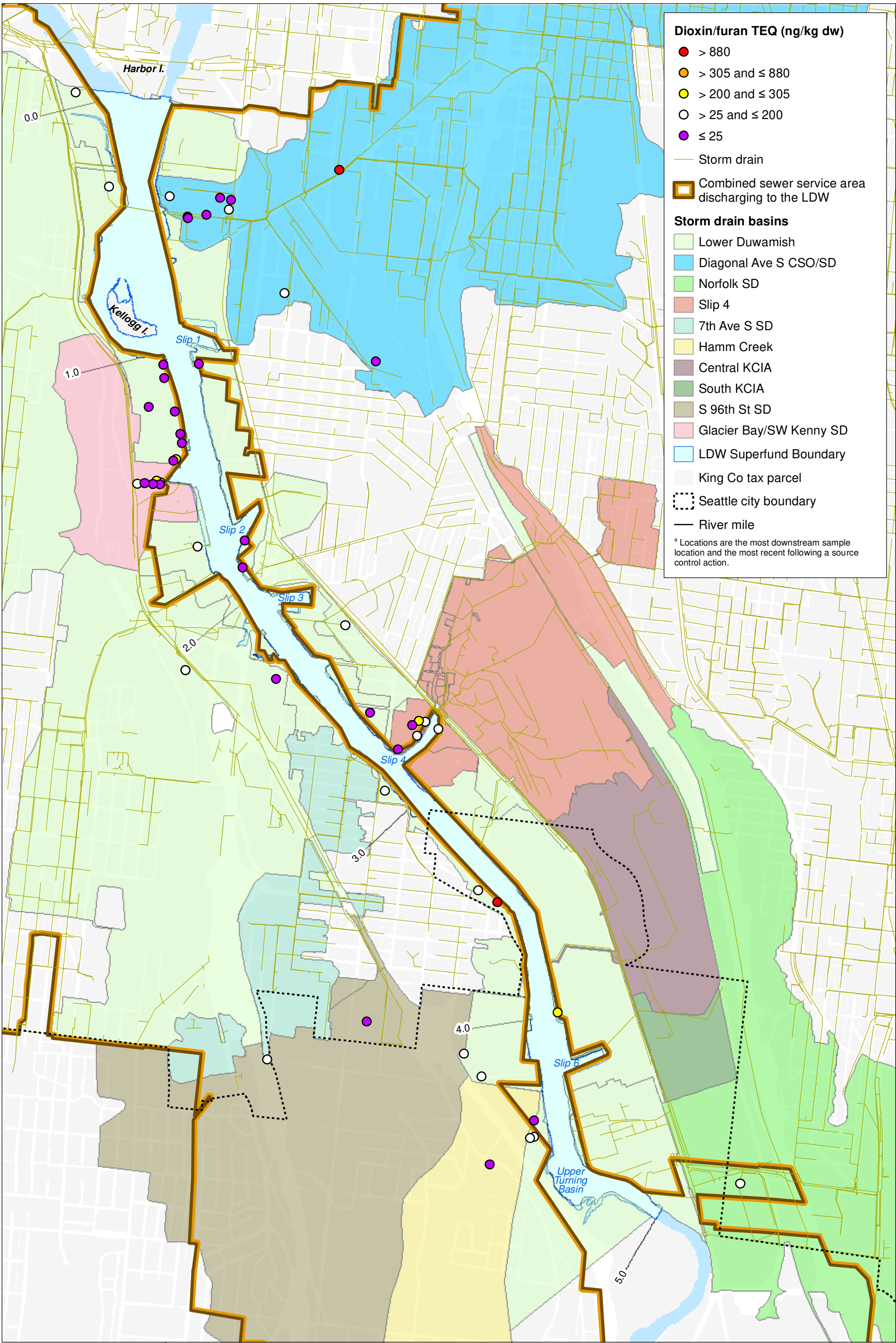


0 0.25 0.5
Miles

0 0.5 1
Kilometers

**Map 8-2. BCM lateral input source tracing
sample data through October 2018 – cPAHs**

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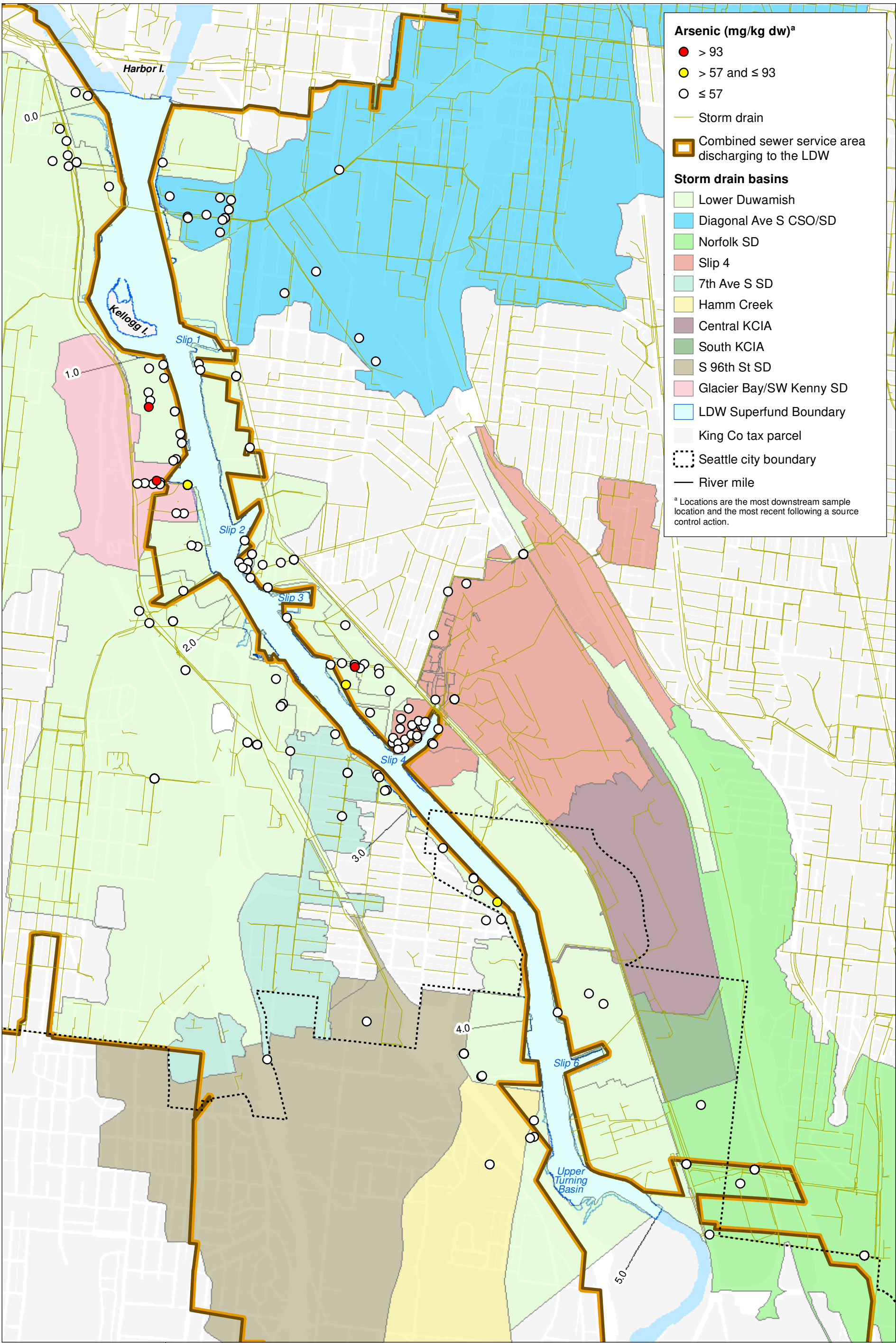
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Map 8-3. BCM lateral input source tracing sample data through October 2018 – dioxins/furans

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0 0.25 0.5
Miles

0 0.5 1
Kilometers

Map 8-4. BCM lateral input source tracing
sample data through October 2018 – arsenic

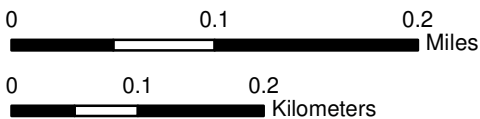
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Map 8-5. Surface sediment sampling locations used to characterize sediments from upstream of the LDW Superfund boundary

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