Receiving Water Model (EFDC)

- Tidal Flux
- Resuspension
- Deposition
- Degradation

Food Web Model
(Arnot and Gobas & DYMBA Model)

- Bioaccumulation in food chain/tissues
Data and Model Evaluation Memo Outline

- Modeling domains
- Supporting data and parameter selection
- Data needs for model configuration and calibration
- Ongoing data collection
Watershed Model domain

- Four primary subwatersheds
- Undeveloped & forested
- Only for future prediction
- Upland processes
- Flow & Pollutant fate and transport in the river?
• Upland processes
Receiving Water Model Domain

Q1: Upgradient spatial extent
- Expect to cover portions of the Lower Green River similar to the King County EFDC model
  - Should we include Green River to Black River confluence in receiving water model (EFDC)?
  - Could we use simpler model (LSPC) to model this section of the river? (recommended)

Q3: Downgradient Spatial Extent
- Expect to include:
  - entire LDW
  - both the East and West Waterways
  - a portion of Elliott Bay

Is this reasonable?
Q1: Upgradient spatial extent

Expect to cover portions of the Lower Green River similar to the King County EFDC model

- Should we include Green River to Black River confluence in receiving water model (EFDC)?
- Could we use simpler model (LSPC) to model this section of the river? (recommended)
Q2: Should we start the grids from Black River pump station or Foster Golf Links?
Expect to include:
- entire LDW
- both the East and West Waterways
- a portion of Elliott Bay

Is this reasonable?

Q3: Downgradient Spatial Extent
Food Web Model Domain

- The Food Web Model domain will be a subset of the EFDC model domain.
- The focus should be in the LDW, but could be extended upstream if needed.

Q4:
- Will the Food Web Model focusing only on the LDW (5 mile stretch) provide enough information?
- Will we miss anything?
Parameters selection

**Conventional**
- Ammonia-N
- DO
- Temperature
- pH
- Bacteria

**Toxics**
- Metals (8)
- PCBs (209 congeners)
- PAHs (17)
- Phthalates (6)
- Other SVOCs (14)
- Pesticides (7)
- Dioxin/Furan
Toxics

- **Metals** (8)
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Q5: Should we include conventional?
- Question?
- Comment?
- Red Flag?
- Suggestion?
Questions about Model Development?

- Not enough information to fully resolve the question yet.
- Will be discussed in future meeting or as part of the draft QAPP review.