WA Environmental Sampling Results

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WA Studies:

• Clark County: industrial catchment stormwater and sediment (Medlen, 2018)
• Lower Columbia River USGS studies: surface water (Alvarez et al., 2014) and sediment (Counihan et al., 2014)
• 10 lakes: surface water, sediment, fish (Mathieu, in prep)
Detection Frequencies

IND = Industrial (Medlen, 2018)
LCR = Lower Columbia River (Counihan et al., 2014; Alvarez et al., 2014)
LK = lakes (Mathieu, in prep.)

n = 13

TPP: 34 20
TCPP: 13 8 20
TBPH: 30 10
V6: 13 30 10
TBB: 13 30 10

Water/Stormwater
Sediment
Fish
WA Water/Stormwater Concentrations

IND = Industrial (Medlen, 2018)
LCR = Lower Columbia River (Alvarez et al., 2014)
LK = lakes (Mathieu, in prep.)
WA Sediment Concentrations

IND = Industrial (Medlen, 2018)
LCR = Lower Columbia River (Counihan et al., 2014)
LK = lakes (Mathieu, in prep.)

Concentration (ng/g dw)

2,040 ↑

○ non-detects  ○ detect
Summary of WA Sampling Results

- WA-specific data is limited
- TPP consistently detected in industrial sites, but not frequently in ambient water and sediments
- TCPP had ~30% detection frequency in industrial and lake samples, highest concentrations
- TBB and TBPH not detected, higher RLs
- V6 detected infrequently, at low concentrations
- No IPTPP data
- WA detection frequencies and concentrations were similar to or lower than other North American/European studies.


Mathieu, C., in prep. Washington State Department of Ecology, Olympia, WA.