

**LIO Goal Statement Subgroup Meeting
Input on Draft Goal Statements
June 6, 2016**

1. Freshwater Quality

a. Water Quality Index

- **Local Goal:** By 2055, 100% of long term monitoring stations on **large rivers and small streams maintain flow adjusted** scores of 80 or above on the Water Quality Index.
- **Local Contribution to 2020 Regional Targets:**
 - By 2020, 50% of long term large river monitoring stations maintain flow adjusted scores of 80 or above.
 - By 2020, 37% of long term small stream monitoring stations maintain flow adjusted scores of 80 or above.
- Water Quality index does not portray summer temperatures and toxics in an accurate light as we could have an increase in WQI but also increases in summer temperatures and toxics
- The group agreed with Snohomish County input that stated that it would be problematic to develop goals related to impaired waters and benthic invertebrates

2. Floodplains (split the basins to develop separate goals)

- Armoring
 - Stillaguamish: remove 25 miles (40% of 25 miles is 10 miles) of armoring on large channels, and achieve Properly Functioning Condition (80% of historic). By 2025, achieve 40% of these goals (note we can calculate 40% numbers to add to this sentence once we have the 2055 goals sorted out).
 - Snohomish:
- Floodplain Acres (off channel acres)
 - Stillaguamish: By 2055, restore 300 acres (40% of 300 acres is 120 acres) of side channel habitat and achieve Properly Functioning Condition (80% of historic). By 2025, achieve 40% of these goals (note we can calculate 40% numbers to add to this sentence once we have the 2055 goals sorted out).
 - Snohomish:
 - **Snohomish Tech Comm needs to revisit to see if they will propose new targets for the second decade (2015-2025).**
 - **Snohomish Tech Comm needs to revisit off channel habitat and decide if this is the best way to represent floodplains**

3. Chinook Salmon

- **Local Goal:**

- By 2055 Skykomish Chinook Abundance Target is 39,000 adult spawners (range 17,000-51,000), based on a productivity of 1.
- By 2055 Snoqualmie Chinook Abundance Target is 25,000 adult spawners (range 17,000-33,000), based on a productivity of 1.
- By 2055 NF Stillaguamish Chinook Abundance Target (for both Summer and Fall runs) is 18,000 (range 18,000-24,000), based on a productivity of 1.
- By 2055 SF Stillaguamish Chinook Abundance Target (for both Summer and Fall runs) is 15,000 (range 15,000-20,000), based on a productivity of 1.
- **This vital sign should also include Coho and Steelhead**
- **This vital sign should include all VSP parameters (Abundance, Productivity, Diversity, Spatial Structure) and not just Abundance targets**
- Local Contribution to 2020 Regional Target:
- PSP Indicator: Population Abundance (cumulative regional abundance targets add up to roughly 249,000 adult spawners). The Sno-Stilly LIO targets add up to 97,000 spawners which is roughly 39% of the cumulative regional targets.
PSP 2020 Regional Target: Stop the overall decline and start seeing improvements in wild Chinook salmon abundance in two to four populations in each biogeographic region.

4. Estuaries

- Local Goal:
 - Stillaguamish: By 2055, provide 4,039 acres of functional estuary restoration. By 2025, achieve 40% of this goal.
 - **Snohomish: Tech Comm needs to revisit this**
- Local Contribution to 2020 Regional Targets: All Chinook natal river deltas meet 10-year salmon recovery goals, and X acres of estuarine wetlands restored to tidal flooding.
 - Stillaguamish 10 year goal (2015-2025) is 548 acres. Leque will add 250 acres and zis a ba will add 150 acres.
 - Snohomish 10 year goal (2015-2025) is X acres. Smith Island will add 315 acres, Qwuloolt added 354 acres and Blue Heron Slough added 340 acres
 - **Snohomish Tech Comm will need to revisit 10 year targets (2015-2025) for estuaries and will verify project numbers for Smith Island, Qwuloolt, and Blue Heron Slough**
- PSP Indicator: Estuary Restoration Meeting Salmon Recovery Goals
PSP 2020 Regional Target: All Chinook natal river deltas meet 10-year salmon recovery goals.
- PSP Indicator: Area of Estuarine Wetlands Restored to Tidal Flooding
PSP 2020 Regional Target: Restore 7,380 quality acres basin-wide, or 20% of estimated restoration need.

5. Summer Stream Flows

- Local Goal: None, except Sultan and Tolt Rivers (managed flows) and Instream Flow Rules.

- Meet flow rules for all waterways
- **Low flow goals should explore strategies and actions related to Water Rights purchasing, Forestry practices, water storage and beaver restoration**
- Local Contribution to 2020 Regional Target:
- PSP Indicator: Summer Low Flows
PSP 2020 Regional Target: Meet the following river-specific targets:
 - Restore low flows to bring the Snohomish River from a weakly decreasing trend to no trend.
 - Restore low flows to bring the Deschutes River, **North Fork Stillaguamish River**, and Issaquah Creek from a strongly decreasing trend to a weakly decreasing trend.
 - **Snohomish County has data that NF stilly is not experiencing a strongly decreasing trend, which counters this target**

6. Land Cover and Development

- Local Goal:
 - The 2055 goal for riparian acres is 8,000 acres for the Stillaguamish. The 10-year goal is 400 acres planted in the Stillaguamish.
 - The 10-year goal is 256 acres of restored riparian habitat in the Snohomish.
 - **Snohomish Tech Comm needs to revisit to see if they will propose new targets for the second decade (2015-2025).**
- Local Contribution to Regional Targets: The regional riparian target is in miles and not acres like the local targets.
- PSP Indicator: Land Cover Change: Forest to Developed
PSP 2020 Regional Target: Average annual loss of forested land cover to developed land cover in non-federal lands does not exceed 1,000 acres per year.
- PSP Indicator: Land Cover Change: Riparian Restoration
PSP 2020 Regional Target: Restore 268 miles of riparian vegetation or equivalent restoration projects are underway.
- PSP Indicator: Land Development: Conversion of Ecologically Important Lands
PSP 2020 Regional Target: Basin-wide loss of vegetation cover on indicator land base does not exceed 0.15% of the 2011 baseline land area over a 5-year period.
- PSP Indicator: Land Development: Proportion of Basin-wide Population Growth Distribution within UGAs
PSP 2020 Regional Target: Proportion of basin-wide growth in UGAs at least 86.5% (equivalent to all counties exceeding their population growth goals by 3%) and all counties showing an increase over their 2000–2010 percentage.
- **The group noted the potential application of watershed characterizations, Stilly TMDL etc for this vital sign**
- **There may be some qualitative goals for forest cover and impervious surfaces in the Snohomish Basin Recovery Plan**
- **Tribal state of the watershed documents (NWIFC, Stilly) may have some information on trends**