

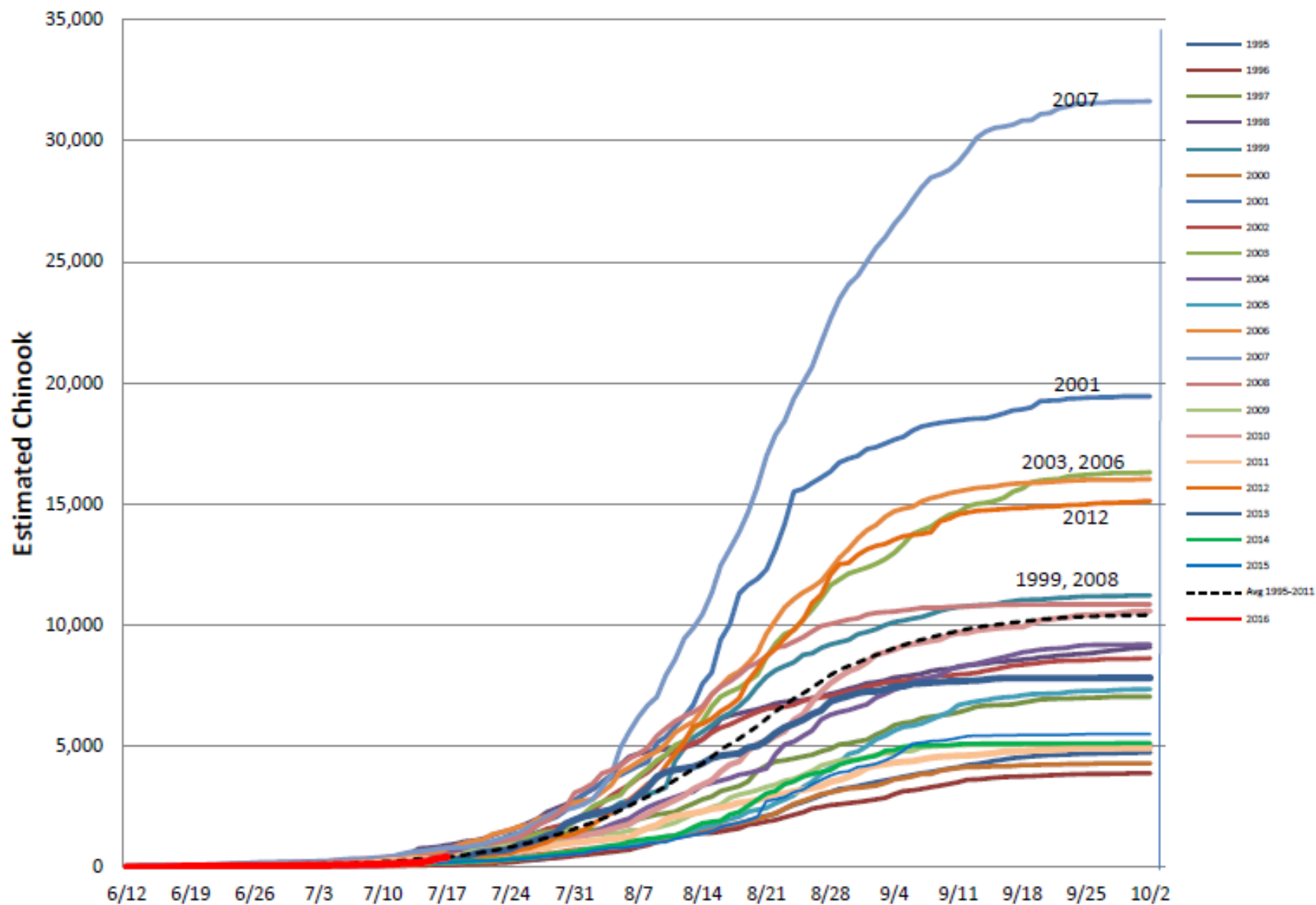
WRIA 8 Salmon Conservation Plan Update -- Status



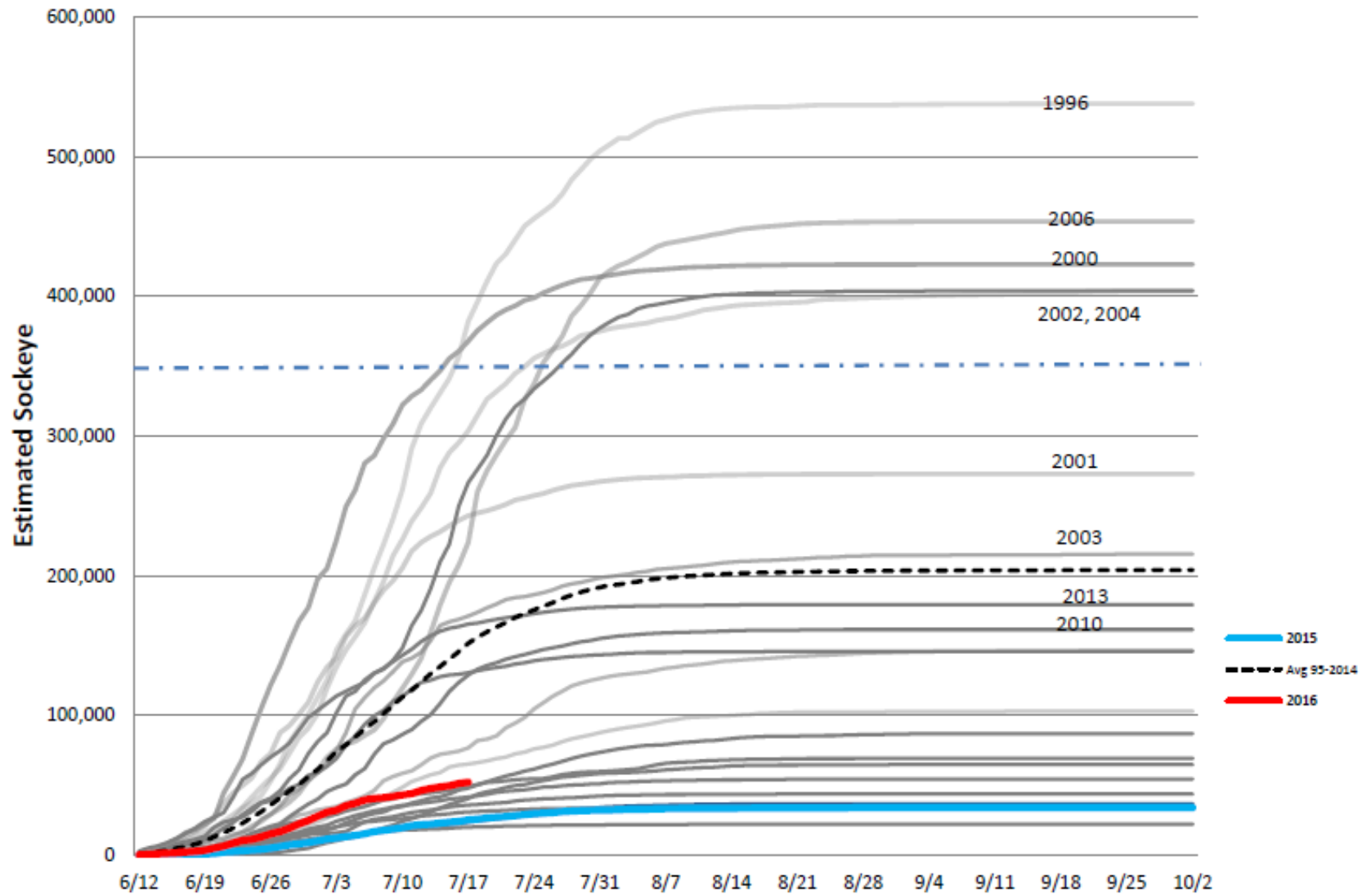
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July 21, 2016

Adult Chinook Estimates at Ballard Locks, 1995-2016



Adult Sockeye Estimates at Ballard Locks, 1995-2016



Purpose of today's presentation:

Update WRIA 8 Salmon Recovery Council on Plan update process, products, and next steps

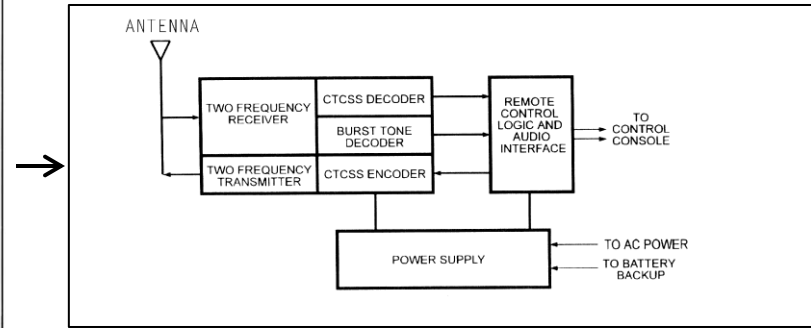
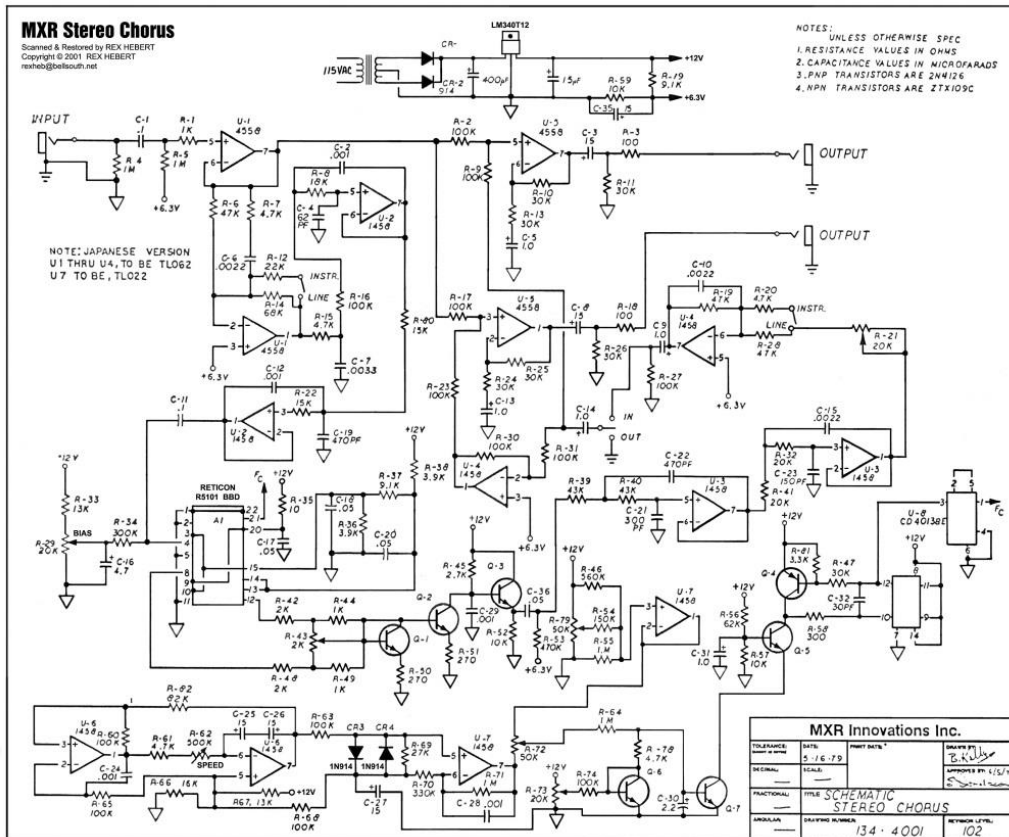


Background



- 2005 WRIA 8 Plan required a 10-year review
- Puget Sound Partnership awarded \$105k to WRIA 8 to assist development
- Builds on Phase 1 work also supported by PSP (2013-14)

Overarching need: Reduce complexity to communicate key features



Regional Monitoring & Adaptive Management Approach

Identify crucial ecosystem components



Phase 1

Identify key ecological attributes and indicators



Identify and rate pressures on components

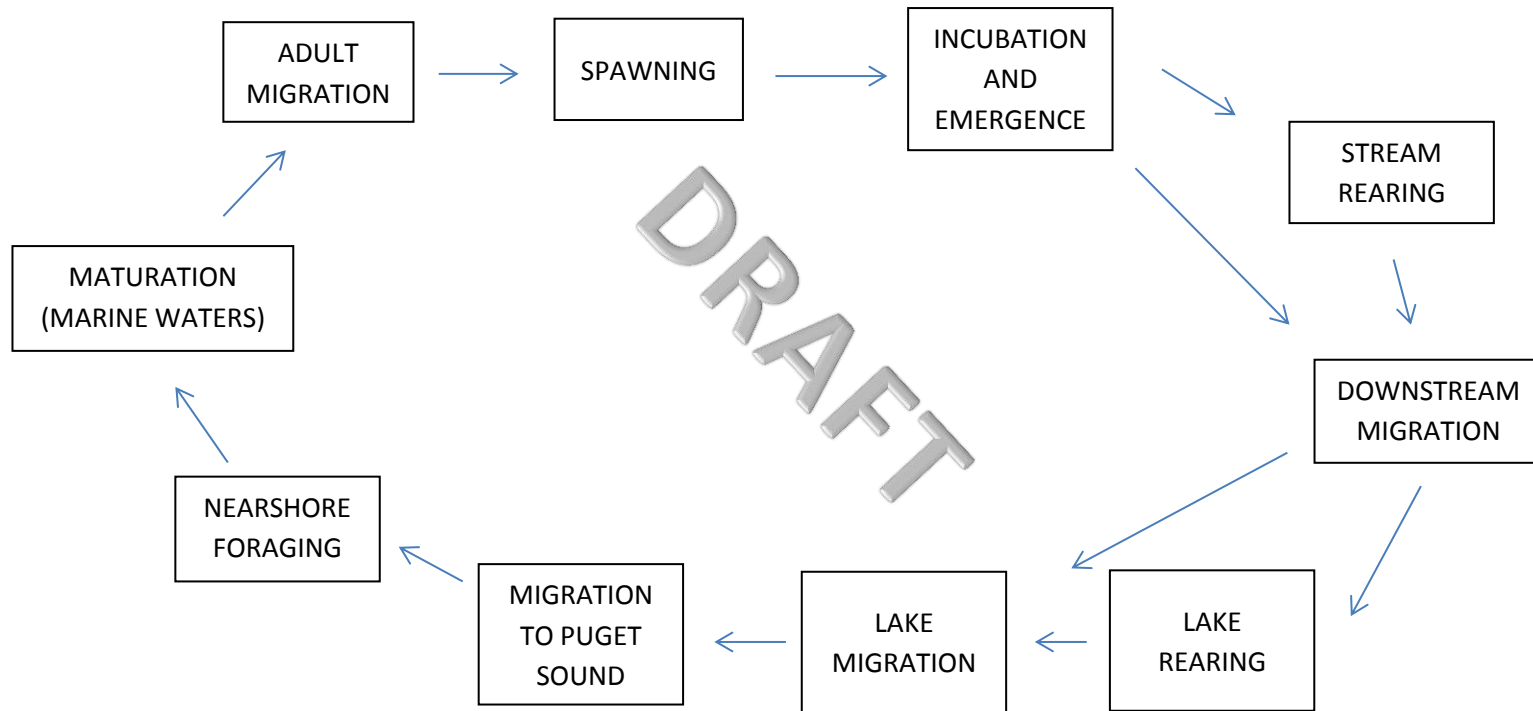
Document strategies, actions, & adaptive management processes

Set goals for desired future conditions
(habitat plus fish)

Monitor progress and adapt management



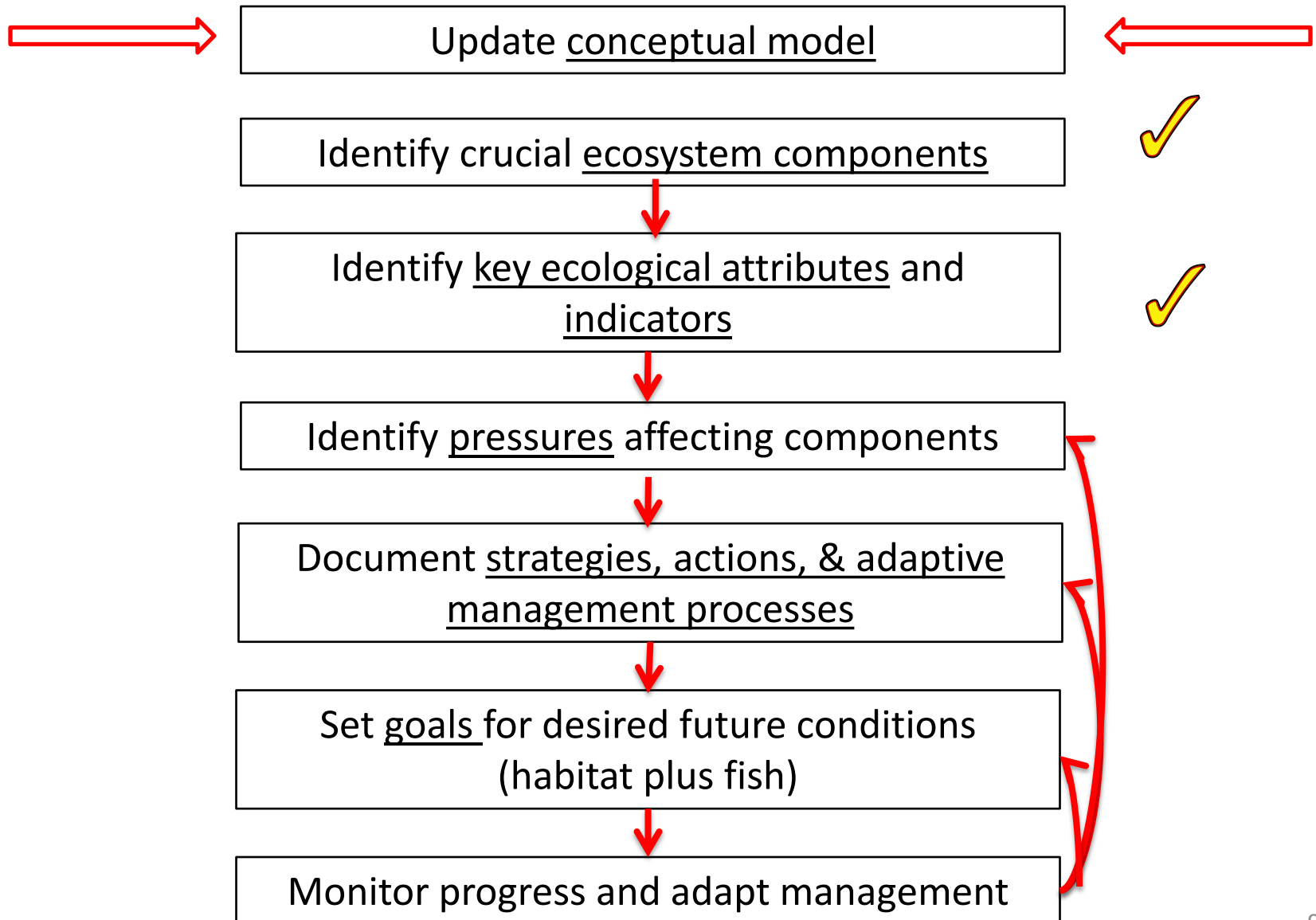
Conceptual Model: Life cycle of WRIA 8 Chinook salmon



Key premises:

1. Each life stage occupies specific geographies and residence periods.
2. Key stressors (priorities) vary by geography and life stage.
3. Rationale for actions and monitoring must account for (1) and (2).

Regional Monitoring & Adaptive Management Approach



Pressure Assessment

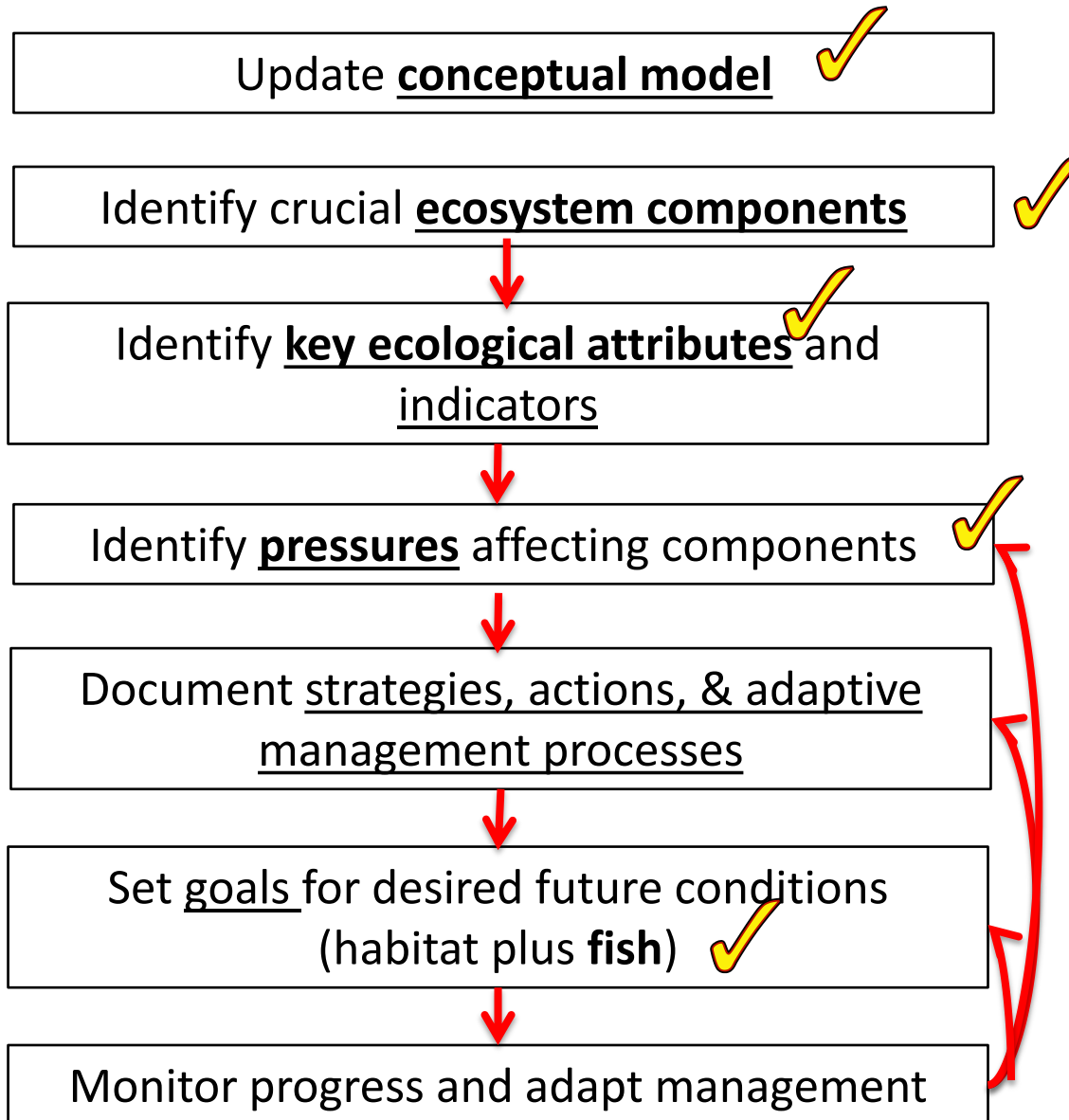
DRAFT

Pressures \ Components	C - Migration	S - Migration	C - Spawning	S - Spawning	C - Inc & Emerge	S - Inc & Emerge	S - Stream Rearing	S - Dnstrm Migration	S - Lake Rearing	C - Stream Rearing	C - Dnstrm Migration	C - Lake Rearing	S&C - Migration to PS	S&C - Nearshore Foraging	S & C - Maturation
01.1 Conversion of land cover for residential, commercial, and industrial use	Low	Medium	Low	Low			Medium	Medium	High	Medium	Medium	High	Very High	High	
01.3 Conversion of land cover for transportation & utilities							High		Medium	High		Medium		High	
02 Terrestrial habitat fragmentation							Medium			Medium					
03 Shoreline hardening	Medium	Medium	Medium	High	High	High	Very High	High	Medium	High	High	Medium		High	
04 Shading of shallow water habitat									Medium			Medium			
05.1 Dams as fish passage barriers	Very High	Very High											Very High		
05.2 Culverts and other fish passage barriers		Low					Low			Low					
07.1 Terrestrial and freshwater species disturbance in human dominated areas	Low	Medium	Medium	High			High	High	High	Medium	High	High			
10.1 Altered peak flows from land cover change	Low	Medium	Low	High	Low	High	High	Low		Medium	Low				
11.1 Altered low flows from land cover change	Low	Medium	Low	Medium	Low	Medium	Low	Low		Low	Low				
11.3 Altered low flows from withdrawals	Low	Medium	Low	Medium	Low	Low	Low	Low		Low	Low				
13.1 In channel structural barriers to water, sediment, debris flows	High	High	High	High	High	High	High	High	High	High	High	High			
13.2 Other structural barriers to water, sediment, debris flows			High	High	High	High	Very High	High		High	High				
14 Animal harvest	Medium	Medium													Medium
17.1 Predation from increased native species	Low	Low	Medium	Medium	Medium	Medium	High	High	High	High	High	High	High		
17.2 Displacement by increased native species			Low	Low	Low	Low	Medium	Medium	Medium	Medium	Medium	Medium			
18.1 Predation from non-native species							High	High	High	High	High	Medium	Medium		
21.1 Point source, persistent toxic chemicals in aquatic systems	Low	Low							Medium			Medium	Medium		
21.2 Non-point source, persistent toxic chemicals in aquatic systems	Low	Low	Low	Low	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
22.1 Point source, non-persistent toxic chemicals in aquatic systems	Low	Low							Medium			Medium	Medium		
22.2 Non-point source, non-persistent toxic chemicals in aquatic systems	Low	Low	Low	Low	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
24.2 Non-point source conventional water pollutants	Low	Low	Low	Low	Low	High	High	Medium	Medium	Low	Medium	Medium	Medium		
24.3 Changes in water temperature from local causes	Medium	High	Medium	High	Low	Low	High	Medium	High	High	Medium	High	High		
26.1 Changing air temperature	Medium	High	Medium	High	Low	Low	Medium	Medium	High	Medium	Medium	High	High		

Recovery Goals

- S.M.A.R.T.
- Fish goals – no substantial change
 - Co-Manager responsibility (WDFW and Tribes)
- Habitat goals – may change substantially
 - Work in progress
 - Will use monitoring data
 - Will require technical and substantial policy input

Summary



Next steps

- Recovery strategies: Joint Technical/ Implementation Committee workshop August 16
- TC to continue reviewing pressure assessment
- TC to draft habitat goals, engage IC
- TC to finalize indicators and monitoring recommendations
- Team to draft plan update narrative
- Further review by SRC and committees