**Geomorphic cluster:** deviation from bankfull 3, channel condition 3, hydrologic alteration 7, bank stability 1

**Fisheries cluster:** pool status 1, instream fish cover 1, riparian zone 1, canopy 1, fish barriers 10

**Water quality cluster:** water appearance 10, nutrient enrichment 10,

**Invertebrate cluster:** invertebrate habitat 3

**SVAP Aggregate score:** 44/12 items scored = 3.7 (poor)

**key impacts:** geomorphic, fisheries, invertebrate

**Problem Reach 1.1** Example of a rapidly eroding steep bank on a Rosgen B4 stream reach. Dominant substrate is coarse gravel.

**Geomorphic cluster:** deviation from bankfull 1, channel condition 1, hydrologic alteration 1, bank stability 1

**Fisheries cluster:** pool status 1, instream fish cover 1, riparian zone 1, canopy 1, fish barriers 10

**Water quality cluster:** water appearance 5, nutrient enrichment 10,

**Invertebrate cluster:** invertebrate habitat 3

**SVAP Aggregate score**: 36/12 items scored = 3 (poor)

**key impacts:** geomorphic, fisheries, invertebrate

**Problem Reach 1.2** example of an over straight, confined Rosgen B3 stream reach with eroding left bank & unvegetated deposition on the right. Note also channel widening & an early attempt to regain sinuosity following channelization. Dominant substrate is cobble. (photo shot from bridge)

**Geomorphic cluster:** deviation from bankfull 1, channel condition 1, hydrologic alteration 10, bank stability 3

**Fisheries cluster:** pool status 1, instream fish cover 1, riparian zone 1, canopy 1, fish barriers 10

**Water quality cluster:** water appearance 5, nutrient enrichment 10

**Invertebrate cluster:** invertebrate habitat 3

**SVAP Aggregate Score:** 47/12 items scored = 3.9 (poor)

**key impacts:** geomorphic, fisheries, invertebrate

**Problem Reach 1.3** Example of a channelized & over widened reach with rip rap on a Rosgen B4 stream reach. Dominant substrate is coarse gravel.

**Geomorphic cluster:** deviation from bankfull 3, channel condition 3, hydrologic alteration 7,

**Fisheries cluster**: pool status 1, instream fish cover 1, riparian zone 7, canopy 3, fish barriers 10

**Water quality cluster:** water appearance 10, nutrient enrichment 10,

**Invertebrate cluster:** invertebrate habitat 7
**SVAP Aggregate score**: 42/11 items scored = 3.8 (poor)

**key impacts:** geomorphic, fisheries, invertebrate

**Problem Reach 1.4** Example of concrete rip rap & channel straightening on a Rosgen B3 stream. Dominant substrate is cobble.

**Geomorphic cluster:** deviation from bankfull 1, channel condition 3 (aggradation criterion), hydrologic alteration 7, bank stability 10

**Fisheries cluster:** pool status 1, instream fish cover 1, riparian zone 10, canopy 3, fish barriers 10

**Water quality cluster:** water appearance 10, nutrient enrichment 10,

**Invertebrate cluster:** invertebrate habitat 7

**Aggregate score:** 73/12 items scored = 6.1 (fair)

**key impacts:** geomorphic, fisheries

**Problem Reach 1.5** Example of an aggrading over wide reach on a Rosgen C4 stream during extreme low flow conditions. Dominant substrate is coarse gravel.

**Geomorphic cluster:** deviation from bankfull 1, channel condition 3, (aggradation criterion), hydrologic alteration 7, bank stability 3

**Fisheries cluster:** pool status 7, instream fish cover 3, riparian zone 10, canopy 1

**Water quality cluster:** water appearance 10, nutrient enrichment 10,

**Invertebrate cluster**: invertebrate habitat 7

**Aggregate score:** 62/11 items scored = 5.6 (poor)

**key impacts**: geomorphic, fisheries

**Problem Reach 1.6** Example of an aggrading over wide reach on a Rosgen B3 stream during extreme low flow conditions. Note erosion on left bank. Dominant substrate is cobble.

**Geomorphic cluster:** deviation from bankfull 1, channel condition 3 (aggredation criterion & channelized), hydrologic alteration 3, bank stability 10

**Fisheries cluster:** pool status 1, instream fish cover 1, riparian zone 10, canopy 1

**Water quality cluster:** water appearance 10, nutrient enrichment 10

**Invertebrate cluster:** invertebrate habitat 3

**SVAP Aggregate score:** 33/11 items scored = 1.1 (poor)

**key impacts:** geomorphic, fisheries

**Problem Reach 1.7** Example of a bulldozed, aggrading over wide reach without pools on a Rosgen C4 stream during extreme low flow conditions. Dominant substrate is coarse gravel. (Note transitioning back to more stable channel dimensions in the background.)

**Geomorphic cluster:** deviation from bankfull 1, channel condition 3 (aggradation criterion), hydrologic alteration 10, bank stability 10

**Fisheries cluster:** pool status 7, instream fish cover 3, riparian zone 10, canopy 1

**Water quality cluster:** water appearance 10, nutrient enrichment 10

**Invertebrate cluster:** invertebrate habitat 7

**SVAP Aggregate score**: 72/11 items scored = 6.5 (fair)

**key impacts:** geomorphic, fisheries

**Problem Reach 1.8** Example of an over wide reach, aggrading on a Rosgen B4 stream during extreme low flow conditions. Dominant substrate is very coarse gravel.