



Reference Reach 1.1 Excellent example of a low gradient woodland meandering Rosgen C4 stream of reference reach quality. Dominant substrate is gravel.

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

Fisheries cluster: pool status 7*, instream fish cover 8*, riparian zone 10, canopy 10, fish barriers 10

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

Invertebrate cluster: invertebrate habitat 10

SVAP Aggregate score: 115/12 items scored = 9.6 (excellent)

* lower scores were assigned only for pool depths and for in stream fish cover



Reference Reach 1.2 Excellent example of a Rosgen Class B3 stream during extreme drought, note channel roughness, bankfull elevation is at the lower scour zone along the base of the larger trees. Dominant substrate is large cobble. (note boundary roughness!)

Geomorphic Cluster: Wbkfl = 10, channel condition = 10, Hydrologic Alteration = 10, Bank stability = 10

Fisheries Cluster: pool status= 8, instream fish cover = 10, riparian zone = 10, Canopy = 10, Fish Barriers = 10

Water Quality Cluster: appearance = 10, nutrients = 10,

Invertebrate Cluster: invertebrate habitat = 10

SVAP Average Score for reach: = 9.8

status = excellent

RR 1



Reference reach 1.3: stable boulder, cobble channel, excellent riparian zone
Geomorphic cluster: channel condition 10, hydrologic alteration 10, bank stability 10
Fisheries cluster: instream fish cover 8*, riparian zone 10, fish barriers 10
Water quality cluster: water appearance 10,
Invertebrate cluster: invertebrate habitat 10
 SVAP Aggregate score: 78/8 items = 9.75 (excellent)



Reference reach 1.4: stable cobble channel, excellent point bar (in low flow), excellent riparian zone
Geomorphic cluster: channel condition 10, hydrologic alteration 10, bank stability 10
Fisheries cluster: instream fish cover 10, riparian zone 10, fish barriers 10
Water quality cluster: water appearance 10,
Invertebrate cluster: invertebrate habitat 10
 SVAP Aggregate score: 80/8 items = 10 (excellent)
 RR 2



Reference Reach 1.5 Excellent example of a medium gradient woodland Rosgen C4 stream of reference reach quality with an appropriate amount of LWD. Dominant substrate is coarse gravel.

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

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

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

Invertebrate cluster: invertebrate habitat 10

SVAP Aggregate score: 103/11 items scored = 9.4 (excellent)



Reference Reach 1.6 Excellent example of a medium gradient woodland Rosgen b4 stream of reference reach quality with an excellent riparian zone. Dominant substrate is coarse gravel.

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

Fisheries cluster: pool status 10, instream fish cover 5, riparian zone 10, canopy 10, fish barriers 10

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

Invertebrate cluster: invertebrate habitat 10

SVAP Aggregate score: 115/12 items scored = 9.6 (excellent)



Reference Riffle Embeddedness = 10

This is < 20% embedded, typical for remote B3 streams with intact watersheds.

RR 4