

|                                                                                                                                                                                                                      |                                                   |                 |  |  |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------|--|--|----------------------|
| <b>A.11.1–WATERSHED ECOLOGICAL INTEGRITY</b>                                                                                                                                                                         |                                                   | Date:           |  |  |                      |
| Observer:                                                                                                                                                                                                            |                                                   | Database Code:  |  |  |                      |
| Mountain Range:                                                                                                                                                                                                      |                                                   | Watershed Name: |  |  |                      |
|                                                                                                                                                                                                                      |                                                   |                 |  |  |                      |
| <b>Watershed Type</b> (A1, A2, B, C):                                                                                                                                                                                |                                                   |                 |  |  |                      |
| <b>Watershed Sensitivity and Resilience Type</b> (forms A.10.1 and A.10.2): _____<br>(Flood dominated, Armored, Fan dominated, Deeply incised, Pseudostable)                                                         |                                                   |                 |  |  |                      |
| <b>Ratings:</b> High scores for a category (geomorphic, vegetation, disturbances) indicate reduced ecological resilience and low ecological integrity. These can be evaluated at both the reach and watershed scale. |                                                   |                 |  |  |                      |
| Reach 1 = high, 2 = mid, 3 = low, 4 = additional (mark choice(s))<br>Leave Reach 4 blank if not sampled.                                                                                                             |                                                   |                 |  |  | <b>REACH</b>         |
|                                                                                                                                                                                                                      |                                                   |                 |  |  | <b>1   2   3   4</b> |
| <b>Parameter</b>                                                                                                                                                                                                     | <b>Scores</b>                                     | <b>Score</b>    |  |  |                      |
| <b>General Geomorphic Characteristics – Forms A.4.1 and A.10.1</b>                                                                                                                                                   |                                                   |                 |  |  |                      |
| Debris Flow Activity                                                                                                                                                                                                 | 0 = none, 2 = slight, 3 = moderate, 4 = large     |                 |  |  |                      |
| Active or Recent Channel Incision                                                                                                                                                                                    | 0 = none, 2 = local, 3 = moderate, 4 = widespread |                 |  |  |                      |
| Recent Avulsions Preventing Stabilization                                                                                                                                                                            | 0 = none, 2 = local, 3 = moderate, 4 = widespread |                 |  |  |                      |
| <b>Sum of Geomorphic Characteristics for each reach</b>                                                                                                                                                              |                                                   |                 |  |  |                      |
| <b>General Vegetation Characteristics – Form A.7.1</b>                                                                                                                                                               |                                                   |                 |  |  |                      |
| Decrease in Riparian Area Extent                                                                                                                                                                                     | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Vegetation Vigor                                                                                                                                                                                                     | 1 = high, 2 = moderate, 3 = low                   |                 |  |  |                      |
| Vegetation Mortality                                                                                                                                                                                                 | 1 = high, 2 = moderate, 3 = low                   |                 |  |  |                      |
| Wetland Indicator Status                                                                                                                                                                                             | 1 = high, 2 = moderate, 3 = low                   |                 |  |  |                      |
| Successional Class                                                                                                                                                                                                   | 1 = high, 2 = moderate, 3 = low                   |                 |  |  |                      |
| Bank Stability Class                                                                                                                                                                                                 | 1 = high, 2 = moderate, 3 = low                   |                 |  |  |                      |
| Nonnative Invasive Species                                                                                                                                                                                           | 1 = none to few, 2 = common, 3 = widespread       |                 |  |  |                      |
| <b>Sum of Vegetation Characteristics for each reach</b>                                                                                                                                                              |                                                   |                 |  |  |                      |
| <b>Response to Anthropogenic and Other Disturbances – Form A.8.1</b>                                                                                                                                                 |                                                   |                 |  |  |                      |
| Roads and Road Crossings                                                                                                                                                                                             | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Recreational Activities                                                                                                                                                                                              | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Development (housing)                                                                                                                                                                                                | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Development (mining)                                                                                                                                                                                                 | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Surface Water Manipulation                                                                                                                                                                                           | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Groundwater Extraction                                                                                                                                                                                               | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Water Diversion (dams/canals)                                                                                                                                                                                        | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Beaver Dams (incision, etc.)                                                                                                                                                                                         | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Fire Effects                                                                                                                                                                                                         | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Livestock Grazing                                                                                                                                                                                                    | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Wild Horse Effects                                                                                                                                                                                                   | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Other:                                                                                                                                                                                                               | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| Other:                                                                                                                                                                                                               | 0 = none, 2 = low, 3 = moderate, 4 = high         |                 |  |  |                      |
| <b>Sum of Disturbance Response for each reach</b>                                                                                                                                                                    |                                                   |                 |  |  |                      |