

PFC Assessment Form (Lotic)

Riparian area/stream name: Piru Creek Reach ID: PCR-LD-1A Date: 5/16/17

| Yes | No | NA | HYDROLOGY |
|---|--------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1) Floodplain is inundated in “relatively frequent” events. |
| Rationale: <u>Perennial flow from Pyramid Lake outfall.</u> | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2) Beaver dams are stable. |
| Rationale: | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3) Sinuosity, gradient, and width/depth ratio are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region). |
| Rationale: <u>Floodplain contained w/in narrow, steep-sided canyon consisting of bedrock/eroded shale sides.</u> | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4) Riparian area is expanding or has achieved potential extent. |
| Rationale: | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5) Riparian impairment from the upstream or upland watershed is absent. |
| Rationale: <u>No excessive deposition from upstream or upland watershed.</u> | | | |

RIPIARIAN AREA MANAGEMENT – Proper Functioning Condition Assessment for Lotic Areas

| Yes | No | NA | VEGETATION |
|--|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6) There is adequate diversity of stabilizing riparian vegetation for recovery/maintenance. |
| Rationale: | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7) There are adequate age classes of stabilizing riparian vegetation for recovery/maintenance. |
| Rationale: Younger – mature riparian veg. present | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8) Species present indicate maintenance of riparian soil-moisture characteristics. |
| Rationale: Some emergent wetland veg present and fac species. | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9) Stabilizing plant communities capable of withstanding moderately high streamflow events are present along the streambank. |
| Rationale: Riparian trees | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10) Riparian plants exhibit high vigor. |
| Rationale: Excellent vigor and survivorship. | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11) An adequate amount of stabilizing riparian vegetation is present to protect banks and dissipate energy during moderately high flows. |
| Rationale: Good riparian plant cover. | | | |

| | | | |
|--|--|--|--|
| <input checked="" type="checkbox"/> | | | 12) Plant communities are an adequate source of woody material for maintenance/recovery. |
| Rationale: Large riparian trees present w/ existing downed woody material in channel. | | | |

| Yes | No | NA | GEOMORPHOLOGY |
|-----|----|----|---------------|
|-----|----|----|---------------|

| | | | |
|--|--|--|--|
| <input checked="" type="checkbox"/> | | | 13) Floodplain and channel characteristics (i.e., rocks, woody material, vegetation, floodplain size, overflow channels) are adequate to dissipate energy. |
| Rationale: see above; rocky substrate | | | |

| | | | |
|--|--|-------------------------------------|---|
| | | <input checked="" type="checkbox"/> | 14) Point bars are revegetating with stabilizing riparian plants. |
| Rationale: No point bars in stretch of Piro Creek | | | |

| | | | |
|-------------------------------------|--|--|---------------------------------------|
| <input checked="" type="checkbox"/> | | | 15) Streambanks are laterally stable. |
| Rationale: | | | |

| | | | |
|-------------------------------------|--|--|--|
| <input checked="" type="checkbox"/> | | | 16) Stream system is vertically stable (not incising). |
| Rationale: | | | |

| | | | |
|---|--|--|---|
| <input checked="" type="checkbox"/> | | | 17) Stream is in balance with the water and sediment that is being supplied by the drainage basin (i.e., no excessive erosion or deposition). |
| Rationale: No excessive erosion or deposition observed | | | |

Summary Determination

Functional rating (check one)

- Proper functioning condition
- Functional-at risk
- Nonfunctional

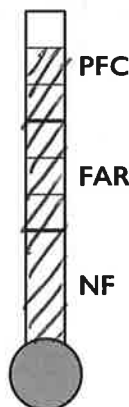
Trend (check one)

Monitored trend

- Upward
- Downward
- Static

Apparent trend

- Upward
- Downward
- Not apparent



Rationale for rating: No channelization; good diversity and age variation of veg composition; downed woody materials, rocky/boulder substrate → good energy dissipation.

Rationale for trend: No apparent changes in status – system appears in stasis w/ regular perennial flows from Pyramid Lake outfall and periodic pulses to mimic natural flooding processes.

Are there factors present preventing the achievement of PFC or affecting progress towards desired condition that are outside the control of the manager?

- Yes
- No

If yes, what are those factors? Check all that apply.

- Flow regulations
- Road encroachment
- Mining activities
- Oil field water discharge
- Upstream channel conditions
- Augmented flows
- Channelization
- Other (specify:)

Explain factors preventing achievement of PFC: Potential to diminish PFC if flow management changed.

(Revised 2014)