Quantitative Assessment Sheet (QAS)

NFWF required metrics The QAS addresses proposed project impacts towards achieving the DRE goals.		
#	**Assessment Criteria**	**Checklist/ Metrics**
QAS 0.1	**Proposal name.** _____	☐complete
QAS 0.2	**(NFWF RFP Metric) Economic benefits.** Enter the number of jobs created as a result of the project.	_____# jobs created
QAS 0.3	**(NFWF RFP Metric) Volunteer participation.** Enter the number of volunteers participating in the project.	_____# volunteers participating in projects
QAS 0.4	**(NFWF RFP Metric) Monitoring.** Enter the # sites being monitored.	_____# sites being monitored
QAS 0.5	**Proposed strategies** (per the public ranking as outlined below), check below all that are proposed: 1. ☐ Restore upper watersheds to reduce floods and sediments washing into the valley, including adapting grazing management to advance and support restoration and respond to droughts 2. ☐ Projects that recharge groundwater aquifers through capturing a portion of stormwater/flood flows and/or maintaining flows for downstream riparian areas 3. ☐ Achieve groundwater resiliency for today and future generations (recharge to the aquifer is balanced with groundwater use by combinations of strategies) 4. ☐ Create and/or sustain areas of bosque (which has river health, wildlife habitat, and recreation benefits), with an emphasis on high quality habitat for native riparian birds 5. ☐ Integrated river management program to restore a bosque, natural river health and functions, and riparian habitat throughout the river corridor 6. ☐ Use of stormwater/flood flows as an alternative water source for agriculture and bosque riparian areas 7. ☐ Add ability for flood control dams to store stormwater for agricultural and recharge use	☐ complete

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	8. ☐ Policies and programs to voluntarily incentivize farm water demand reduction and conservation (e.g. cover crops, shifts to profitable low-water use crops) 9. ☐ Reduce flood risks and sediment transport into valley through improving built infrastructure 10. ☐ Improve Elephant Butte Irrigation District infrastructure to conserve water 11. *Other major strategy categories provided by survey participants:* a. ☐ Increase water quality and safety b. ☐ Include public education and engagement in projects c. ☐ Modify governance and increase planning 12. Other not included above, but are eligible under this program _____	
QAS 1	***Goal 1: Reduce damage from flooding and sedimentation***	
QAS 1.1	**(NFWF RFP Metric) Best management practices (BMP) implementation for nutrient or sediment reduction.** Acres with BMPs to reduce stormwater or sediment loads (enter the number of acres with nature-based upper watershed restoration practices to reduce stormwater and sediment flows).	_____acres
QAS 1.2	**(NFWF RFP Metric) Increase stormwater storage.** Gallons stormwater storage added (enter the volume in gallons of additional stormwater storage created by water infrastructure projects). Convert stormwater capture capacity to acre-feet Nature of capacity. Specify if stormwater capture is for the purpose of flood control, will not be held longer than 96 hours, and/or if it will also be stored for longer than 96 hours for beneficial use. Beneficial use. In Notes section, if applicable, specify the beneficial use. Notes:	____gallons _____acre-feet ☐purpose flood control ☐ not held longer than 96 hours

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		☐ held longer than 96 hours for beneficial use
QAS 1.3	**Peak flow change at point downstream of project**. Enter the peak flow change for design storms (2-yr 1 hr, 500-yr 24-hr). Note this is also a proxy for sediment load reduction (the lower the energy, the less scouring effect of runoff). For a description of the assessment methodology, see "Information on the Quantitative Assessment Sheet (QAS) and NM WRRI Quantitative Technical Assistance" section 5 Goal 1.	_____% relative to 2-yr 1 hr design storm _____% relative to 500-yr 24-hr design storm
QAS 1.4	Question omitted	
QAS 2	***Goal 2: Promote aquifer recharge through stormwater management***	
QAS 2.1	**(NFWF RFP Metric) Increase stormwater storage.** Gallons stormwater storage added (enter the volume in gallons of additional stormwater storage created by water infrastructure projects). Convert stormwater capacity to acre-feet Nature of capacity: Specify if stormwater capture is for the purpose of flood control, will not be held longer than 96 hours, and/or if it will also be stored for longer than 96 hours for beneficial use. If applicable, specify the beneficial use in the notes section. Notes:	____gallons _____acre-feet ☐purpose flood control ☐ not held longer than 96 hours ☐ held longer than 96 hours for beneficial use

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#	**Assessment Criteria**	**Checklist/ Metrics**
QAS 2.2	**Recharge volume change.** Enter the estimated recharge volume change for design storms (2-yr 1 hr, 500-yr 24-hr). For a description of the assessment methodology, see "Information on the Quantitative Assessment Sheet (QAS) and NM WRRI Quantitative Technical Assistance" section 5 Goal 1 and 2.	_____ relative to 2-yr 1 hr design storm _____ relative to 500-yr 24-hr design storm
QAS 3	***Goal 3: Improve infrastructure to manage water***	
QAS 3.1	**(NFWF RFP Metric) Improve or construct new water delivery infrastructure.** Enter the number of water infrastructure projects constructed or modified to improve water management.	____# of water infrastructure projects executed
QAS 3.2	**(NFWF RFP Metric) Increase stormwater storage.** Gallons stormwater storage added (enter the volume in gallons of additional stormwater storage created by water infrastructure projects). Convert stormwater capacity to acre-feet	____gallons _____acre-feet (capacity)
QAS 4	***Required Goal 4 (all projects must include this goal): Create and/or sustain habitat and promote watershed health***	
For regional information and assessments to assist answering questions in this section, see https://storymaps.arcgis.com/stories/9624a5b076f942f09427365f94537479		
QAS 4.1	**(NFWF RFP Metric) Riparian restoration.** Enter # of riparian acres restored, including riparian buffers to benefit native riparian vegetation and federally protected birds. In NOTES section, specify landcover type prior to planting (barren, cropland, grassland), dominant vegetation being planted (Broadleaf, Conifer, Shrub, Grass, Marsh, Wet meadow, Swamp), and average width of riparian buffer. Notes:	_____ # of riparian acres restored

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QAS 4.2	**Non-riparian restoration.** Enter # of acres restored. In Notes section, specify landcover type prior to planting (barren, cropland, grassland), dominant vegetation being planted (Broadleaf, Conifer, Shrub, Grass, Marsh, Wet meadow, Swamp). Notes:	_____ # of non-riparian acres restored
QAS 4.4	**Habitat existing conditions.** In Notes section, specify the existing conditions indicated by the New Mexico Riparian Habitat Map (NMRipMap, https://nhnm.unm.edu/riparian/NMRipMap). For a description of the assessment methodology, see "Information on the Quantitative Assessment Sheet (QAS) and NM WRRI Quantitative Technical Assistance" section 5 Goal 4. Notes:	☐ complete
QAS 4.5	**Habit general target.** Check all that apply. For a description of the assessment methodology, see "Information on the Quantitative Assessment Sheet (QAS) and NM WRRI Quantitative Technical Assistance" section 5 Goal 4. ☐ **Suitable for Target species (SWFL and/or Cuckoo)** ☐ **Riparian general avian** ☐ **Upland general avian**	☐ complete
QAS 4.6	**Habit site potential class.** Indicate the class of current and proposed habitat potential for your project. If multiple classes, check all that apply. For a description of the assessment methodology, see "Information on the Quantitative Assessment Sheet (QAS) and NM WRRI Quantitative Technical Assistance" section 5 Goal 4. **SWFL and Riparian and/or Upland generalist avian habitat site potential** **Existing / Proposed** ☐ / ☐ **BOR 2023 SWFL Class 0** ☐ / ☐ **BOR 2023 SWFL Class 1** ☐ / ☐ **BOR 2023 SWFL Class 2** ☐ / ☐ **BOR 2023 SWFL Class 3**	☐ complete

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	☐ / ☐ **BOR 2023 SWFL Class 4** ☐ / ☐ **BOR 2023 SWFL Class 5** **Establish breeding site less than 13 KM from existing habitat** **<u>Cuckoo habitat site potential</u>** ☐ / ☐ **BOR 2023 Cuckoo Class 0** ☐ / ☐ **BOR 2023 Cuckoo Class 1** ☐ / ☐ **BOR 2023 Cuckoo Class 2** ☐ / ☐ **BOR 2023 Cuckoo Class 3** ☐ / ☐ **BOR 2023 Cuckoo Class 4** ☐ / ☐ **BOR 2023 Cuckoo Class 5** ☐ / ☐ **Establish breeding site less than 3 km from existing habitat**	
QAS 4.7	**Revegetation strategies.** In Notes section, specify the proposed quantities and species of plants and plant communities, targeted density or plant cover, the water source, and other practices to sustain revegetation over time. For a description of the recommended plant communities per general riparian conditions, see "Information on the Quantitative Assessment Sheet (QAS) and NM WRRI Quantitative Technical Assistance" section 5 Goal 4.<u>Notes:</u>	☐ complete
QAS 5	***Checklist of additional metrics or items that further inform the reviewers regarding the quantitative assessment, recommended by stakeholder reviewers to be included in proposal***	
QAS 5.1	**Proposal cost.** Enter the total proposed cost for the proposal project to assist reviewers in comparison of cost to these quantified benefits.	_____ Total cost

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QAS 5.2	**Expected benefits.** In the proposal, specify the expected benefits upon project installation and over the long term, and the immediate needs and root of issue being addressed. Indicate if the benefits can be reasonably expected to increase over time. Where possible, describe the benefits to the watershed functions (e.g. vegetation cover expanded to increase the function for recharge; improved or expanded habitat providing multiple functions such as increasing soil health, soil organic matter and water holding capacities).	☐ included in proposal
QAS 5.3	**Additional water consumption reduction expected benefits.** In Notes section, specify mechanism (e.g. reduced pumping by farmers). Notes:	_____acre-feet / _____unit (e.g. year)
QAS 5.4	**Additional water management and other multi-functional benefits.** In the proposal, specify and quantify if possible estimates of benefits in addition to water conservation, such as agricultural economics, management efficiency, or infrastructure function improvements.	☐ included in proposal
QAS 5.5	**Water use.** For projects that aim to use water (i.e. stormwater or irrigation water), in the proposal, provide a description of who will use water and for what purpose.	☐ included in proposal
QAS 5.6	**Sustaining revegetation over time.** In the proposal, specify the water source and other practices to sustain revegetation over time.	☐ included in proposal
QAS 5.7	**Negative effects and mitigation efforts.** In the proposal, include a description of anticipated significant negative effects, impairments, or trade-offs on existing conditions including environmental, water use, and management, and efforts to mitigate effects.	☐ included in proposal
QAS 5.8	**Project site assessment.** Conduct during the project development stage, provide in Notes section for Information Part A, and include in the proposal descriptions and pictures of site observations of existing vegetation conditions and at areas of reference if available (a site that represents the design target). As well, ideally prior to proposal submission, but at a minimum as a first proposed project task,	☐ included in proposal

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	Proposal Teams should also include in proposals groundtruthing the existing conditions and conditions at areas of reference, including testing soils to determine soil type (texture class), determining depth to groundwater, and surveying existing vegetation conditions to validate the site potential. Notes:	