Instructions for June 2006 Draft PRE-TREATMENT checklist **RT – REVEGETATION TREATMENTS** To be used for singular and update extensions

To be used for riparian and upslope planting projects.

See DFG Restoration Manual Chapter XI for riparian habitat restoration information, including plant species identification. Questions regarding whether or not a specific action is a treatment goal should be answered using a project's contract/statement of work. Targeted outcomes should be based on project deliverables.

 $\underline{\mathbf{Y}} = \mathbf{Y}$ es, the question applies and the answer is yes, comment if needed. $\underline{\mathbf{P}} = \mathbf{P}$ artially, the question cannot be answered definitively yes or no, comment suggested. $\underline{\mathbf{N}} = \mathbf{N}$ o, the question applies and the answer is no, comment if needed.

 $\underline{\mathbf{D}}$ = Don't know, the answer is unknown and cannot be found; preferable to blank. $\underline{\mathbf{A}}$ = Not applicable, the question or sub-question does not apply to the feature.

See Manual Part XI for guidance. See below for 3-letter code key; see glossary for definitions

THE **"TREATMENT AREA"** MUST BE IDENTIFIED USING THE PROTOCOL FOR DOCUMENTING THE LOCATION OF HABITAT RESTORATION FEATURES. IT IS ESSENTIAL THAT SOMEONE CONDUCTING POST-TREATMENT MONITORING BE ABLE TO RELOCATE PRECISELY THE SAME LOCATION WHERE THE FOLLOWING DATA WERE COLLECTED. REVEGETATION FEATURES SHOULD BE DELINEATED BASED ON THEIR LOCATION, I.E. LEFT BANK, RIGHT BANK, FLOODPLAIN, OR UPSLOPE. EACH FEATURE SHOULD ENCOMPASS ONLY ONE OF THESE LOCATIONS.

AREA questions should be answered regardless of goals.

- 1. Measure the length of streambank where revegetation treatment will be implemented. See above for guidance on defining revegetation features.
- 2. Calculate area to be planted based on total length and average width of the planting site (feature) being evaluated.
- 3. Enter only one location for each revegetation feature. Comment on entries of OTH.

VEGETATION TYPE & COVER questions should be answered regardless of goals.

- 4. Enter the *one* vegetation type that has the greatest percent cover within the treatment area. a. Record whether the dominant vegetation type is composed of native or non-native species.
- 5. Review project contract or proposal, or statements by the project proponent or contract manager, to determine whether changing the dominant vegetation type is a goal.
 - a. Enter the targeted dominant vegetation type based on the project goals.
- 6. Enter the species code for the *one* species that has the greatest percent cover within the treatment area (e.g. QUAG4). Use the information from Chapter XI of the *DFG Restoration Manual* and the CREMP plant species code list to determine species codes. If species is not found on that list, go to the USDA website to look up the species code (http://plants.usda.gov/index.html). Include comments on other prolific species within the treatment area. *Always use the species code when referring to plant species*.
- 7. Review project contract or proposal, or statements by the project proponent or contract manager, to determine whether changing the species composition is a goal.

a. Enter the species code for the targeted dominant species using the information from Chapter XI of the *DFG Restoration Manual* and the CREMP plant species code list to determine species codes. If species is not found on that list, go to the USDA website to look up the species code (http://plants.usda.gov/index.html). Include comments on other prolific species within the treatment area. If multiple species will be planted, the dominant species is the one with the greatest number of plantings. Enter the species codes for all of the remaining species to be planted in the comments.

- 8. Total vegetation cover refers to the percent of ground within the treatment area that is *not* bare soil. Estimate visually.
- 9. Review project contract or proposal, or statements by the project proponent or contract manager, to determine whether increasing vegetation cover is a goal.

a. Record targeted percent cover based on project goals. If targeted percent cover is not specified, enter D.

10. Review project contract or proposal, or statements by the project proponent or contract manager, to determine whether reducing gaps in bank vegetation is a goal.

a. Estimate the length of the largest gap in bank vegetation over 3ft. tall when the feature is located on the LBK, RBK, or FLD. Enter A if planting will occur at an USL site.

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- 11. Measure the percent over-channel canopy cover within the treatment area using a densiometer (see Appendix M of DFG's Restoration Manual). Total canopy cover should represent the *average* cover throughout the treatment area. For treatment areas longer than 100 feet, canopy measurements should be taken every 50 feet; from the center of the channel, in the center of each 50-foot section. For exceptionally long treatment areas, canopy measurements can be taken every 75-100 feet. Note: percent cover will be the same for features located on opposite banks of the same distance of channel. For upslope projects that will not affect canopy cover, enter A.
- 12. Review project contract or proposal, or statements by the project proponent or contract manager, to determine whether increasing canopy cover over the channel is a goal.
 - a. Record the targeted percent canopy.

BANK questions should be answered whenever planting in the riparian zone.

13. Look for evidence of active erosion in or adjacent to the proposed revegetation area.a. Location of erosion within, upstream and/or downstream of the proposed revegetation area *and* left and/or right bank (looking downstream).

b. Determine using visual evidence and knowledge of land use and erosion processes.

14. A specific goal stated in the contract or proposal, or verbalized by project proponent or contract manager.

LWD questions should be answered whenever planting in the riparian zone.

- 15. Count the amount of large woody debris in the targeted treatment area in the two specified size classes. The first entry is for logs with a diameter of at least one foot that are between 6 and 20 feet in length, the second for logs with a diameter of at least one foot that are over 20 feet in length (e.g. enter 1 / 4).
- 16. A specific goal stated in the contract or proposal, or verbalized by project proponent or contract manager.

CHANNEL questions should be answered whenever planting in the riparian zone.

- 17. Record channel problems in the vicinity of the proposed revegetation area, not at a stream or reach level. List all that apply. Record problems even if they are irrelevant to the project goals.
- 18. A specific goal stated in the contract, proposal or verbalized by project proponent or contract manager. a. List all targeted or desired channel conditions specified in the project description or contract.

Code definitions

AGG	Aggradation	HDC	Headcutting	SIN	Sinuosity
BAR	Lack of stabilizing	HRB	Herbaceous	STB	Stability
	vegetation, bare	HYD	Hydrologic processes	STT	Straightening
BRD	Braiding	INC	Incision	TOG	To grade
CNR	Concentrated runoff	LBK	Left bank	TRE	Tree
DNS	Downstream	NAR	Narrowing	UND	Undercutting
EMG	Emergent groundwater	NON	None	UPS	Upstream
FLO	Flow obstructions	NNS	Non-native species	USG	Unstable soils/geology
FLD	On floodplain	NTS	Native species	USL	Upslope
FPD	Floodplain deposition	OTH	Other	VEG	Vegetation
GRA	Grass	RBK	Right bank	WID	Width/Widening
GRC	Grade control	SCU	Side cutting	WIN	Within treatment area
GRZ	Grazing	SHR	Shrub		