RU - ROAD SEGMENT UPGRADING

PRE-TREATMENT page ____ of ____

Contract #: Contract name:

Stre	am/Road: Date (mm/dd/yy): Evalu	ator:
	Feature # or Road Name	,
	Proposed Feature Type Code	
	1. Length of road to be upgraded: (ft)	Keep track of delivery volumes as you move
	2. Number of stream crossings to be decommissioned along segment:	along the road to help
	3. Road segment physical condition: Excl, Good, Fair, Poor, Fail	estimate the total.
	4. Has there been sediment delivery from the road segment in the last 10 years?	
	a. Sediment sources: SFE, FLS, LAN, CUT, NRL, EFL, DIV, RRG, NRG, OTH	Past (3b) Future (4b)
	b. Estimate total past delivery: (cy/10 yr)	Mass wasting volume
	5. Is there potential for sediment delivery from the road in the next 10 years?	
	a. Erosion potential: LOW, MOD/LOW, MOD, MOD/HIG, or HIG	
	b. Minimum future delivery volume or "sediment savings": (cy/10 yr)	
	6. Is decreasing potential for future sediment delivery a goal?	
	7. Estimate pre-treatment percent connectivity: (%)	Fluvial erosion volume
	8. Is decreasing percent connectivity a goal of the upgrade?	
	a. Targeted percent connectivity: (%)	
	9. Is dewatering existing gullies and active or potential landslides a goal?*	
	10. Is excavating fill slopes, landings and side cast a goal?	
	11. Does road/spring drainage disperse into the correct channel or watershed?	[(Sum the lengths of
	12. Is returning road/spring drainage to the correct channel or watershed a goal?	ditch/road surface draining to each
	13. Is reducing fine grain sediment delivery by reducing bare soil area a goal?	crossing - CU question
	14. Is minimizing fine sediment delivery by seasonally closing the road a goal?	3i) / (total length of
	15. Road surfaces: DRT, ROC, PAV, OTH	road)] x 100 = percent
	16. Is reducing the road surface erosion rate by resurfacing a goal?	connectivity
	17. Road surface shapes: CRN, FLT, INS, OUT, TCU, OTH	
ge	18. Is dispersing road runoff by changing the road surface shape a goal?	
aina	19. If there is a ditch, does any portion of it need cleaning or improvement?	
oad Drainage	20. Is improving road drainage by cleaning or adding a ditch a goal?	
	21. Are berms interfering with the intended road drainage pattern?	
	22. Is restoring the intended drainage pattern by removing/breaching berms a goal?	
	23. Existing road drainage structures: DRC, RLD, NON, OTH	
	a. Are there gullies or hill slope instability at drainage outlets?	
	b. Are structures frequent enough to prevent erosion from concentrated runoff?	
	c. Do structures drain so that sediment is not delivered to a stream?	
	d. Do rolling dips drain the road surface without affecting road use?	
	e. Problems: ALN, APP, COR, CRS, NTG, OVT, PLG, UNS, WSH, OTH	Surface Erosion Discharge
	24. Is reducing connectivity by adding or upgrading drainage structures a goal?	$Qs = [(A \times E)/27] \times T \times D$
Comments		Qs = sediment delivery (yds ³) from surface erosion
		$A = exposed area (ft^2)$
		T = time (years)
		E = erosion rate (ft/yr)
		D = delivery ratio (% of erosion delivered to stream).

 $[*] Use \ EC \ checklist \ for \ other \ landslide/gully \ treatments. \ \textbf{Y}=Yes, \ \textbf{N}=No, \ \textbf{P}=Partially, \ \textbf{D}=Don't \ know, \ \textbf{A}=Not \ Applicable. \ CRMEP \ June \ 2006 \ Draft$