Field Survey for Meadows and Roads [1]

Forest: Eldorado National Forest	**District:** Placerville	**County:**

Observers Steve Markman, Hydrologist	**Date:** August 26, 2011 **Time:** 1330

Number and/or name of road or trail 17E12 (Lover's Leap trail)	**UTM** 10 S 0748946 4297642
Meadow reference number 17E12-1	

Characteristics of meadow

Is the feature a meadow? ___ **Yes** X **No** *(Describe what the feature actually is)*

Alder dominated wetland.

Does the location of the meadow on-the-ground match the information in GIS? X Yes ___ No
(If the answer is no, please describe the difference).

Wetness of meadow *(Select the best answer at the time of the survey)*

___ **Very wet** (Standing or flowing surface water present in all or a large portion of feature).
X **Moderately wet** (Surface water in part of feature and/or ground surface wet in most of feature).
___ **Slightly wet** (No surface water. Ground surface wet in part of feature).
___ **Mostly dry** (No surface water. Ground surface dry in most of feature).
___ **Dry** (No surface water. Ground surface dry in entire feature).

Predominate riparian/wetland vegetation:	**Predominant non-riparian/wetland vegetation:**
Abundance and location: Mostly alder, with some ferns, grasses, corn lily	Abundance and location: Cedar and fir trees surround meadow.

Proximity and characteristics of motorized routes in the meadow

Does the road or trail enter the meadow? X Yes Approx. feet or miles 300 feet ___ No
(Describe the location of the road or trail with respect to hydrologic features in the meadow.)

Trail cuts across feature

Does the road or trail parallel a portion of the meadow (within 100 ft. of the edge of the meadow)? ___ Yes X No
(Describe the distance that the road or trail parallels the meadow, and attach photos.)

Is there evidence of motorized use off of the road or trail and into the meadow? ___ Yes X No
(Describe the evidence, and attach photos.)

Are there stream channel crossings along the road in the meadow? X Yes ___ No
X Pipes/culverts ___ Bridge ___ Raw crossing

1 culvert, mostly exposed

Are there cross drain structures along the road or trail in the meadow? ___ Yes X No ___ Pipes/culverts
___ Rolling dip

[1] Use a separate form for each road or trail.

(July 25, 2011)

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Condition of meadow

Active erosion features (rills, gullies, headcuts) in meadow? X Yes ___ No

(If yes, describe the type, number, size, and location of the erosional features and whether they appear to be related to the road or trail.)

Several rills (< 0.5 ft. depth, < 50 ft. length) have resulted from runoff from the trail. The runoff from the trail is partially from groundwater from the upslope portion of the meadow that has been intercepted by the trail.

Old, healed erosional features in meadow? ___ Yes X No

(If yes, describe the type, number, size, and location of the erosional features and whether they appear to be related to the road or trail.)

Hummocky surface in portions of the meadow? ___ Yes X No *(If yes, describe location and aerial extent in meadow).*

If the road(s) or trail(s) goes through the meadow, is the road/trail noticeably affecting the movement of water through the meadow?
X Yes ___ No (If yes, *describe the physical evidence).*

Trail intercepts groundwater from upslope portion of meadow, routes water down the trail for over 100 feet.

If the road) or trail parallels a portion of the meadow, is the road/trail noticeably affecting the movement of water into or out of the meadow? ___ Yes ___ No *(If yes, describe the evidence).*

Not applicable. Trail cuts through meadow.

Is a road(s) or trail(s) contributing sediment into the meadow to the extent that it is noticeably affecting the size and/or function of the meadow? X Yes ___ No *(If yes, describe the physical evidence).*

Size and wetness of meadow downslope of meadow has decreased slightly as a result of sediment inputs and minor stream channel downcutting.

Other land disturbances within the meadow? ___ Yes X No

(If yes to the above, describe types and extent).

Stream flowing through the meadow? X Yes ___ No

Is stream eroding vertically (i.e. active downcutting)?	X Yes	___ No	Channel erosion (< 1.5 ft. depth) downslope of trail at several locations.
Is stream eroding laterally (i.e. actively widening?)	X Yes	___ No	
Does stream contain an active headcut(s)?	___ Yes	X No	
Does stream contain old (healed) headcut(s)?	___ Yes	X No	

Aquatic species (incidental sightings only – no survey to a specific protocol)

List aquatic species present, numbers of individuals, and life stage

None observed.

Findings with respect to Standard and Guideline (S&G) #100 of the SNFPA

___ **Yes.** S&G #100 is being met with regard to this road/trail and meadow.

___ **No.** S&G #100 is NOT being met with regard to this road and meadow.

___ **I.** Inconclusive. Field evidence not sufficient to determine if S&G #100 is being met.

S&G 100: Maintain and restore the hydrologic connectivity of streams, meadows, wetlands, and other special aquatic features by identifying roads and trails that intercept, divert, or disrupt natural surface and subsurface water flow paths. Implement corrective actions where necessary to restore connectivity.

Other Comments

Minor amount of sediment from trail into alder-dominated wetland.