

## Standard Checklist

Name of Riparian-Wetland Area: Hitchcock Creek

Date: June 7, 2004 Segment/Reach ID: Reach 9 house 26- bridge 516 PFC 309

Miles: \_\_\_\_\_ Elevation: \_\_\_\_\_ GPS: N 36, 28. 017' W 121, 43. 409'

ID Team Observers: Danica Zupic Time: \_\_\_\_\_

Yes	No	N/A	HYDROLOGY
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1) Floodplain above bankfull is inundated in "relatively frequent" events
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2) Where beaver dams are present they are active and stable
<input checked="" type="checkbox"/>	<input type="checkbox"/>		3) Sinuosity, width/depth ratio, and gradient are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4) Riparian-wetland area is widening or has achieved potential extent
<input type="checkbox"/>	<input checked="" type="checkbox"/>		5) Upland watershed is not contributing to riparian-wetland degradation

Yes	No	N/A	VEGETATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6) There is diverse age-class distribution of riparian-wetland vegetation (recruitment for maintenance/recovery)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7) There is diverse composition of riparian-wetland vegetation (for maintenance/recovery)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8) Species present indicate maintenance of riparian-wetland soil moisture characteristics
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9) Streambank Vegetation is comprised of those plants or plant communities that have root masses capable of withstanding high-streamflow events
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10) Riparian-wetland plants exhibit high vigor
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11) Adequate riparian-wetland vegetative cover is present to protect banks and dissipate energy during high flows
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12) Plant communities are an adequate source of coarse and/or large woody material (for maintenance/recovery)

Yes	No	N/A	EROSION/DEPOSITION
<input type="checkbox"/>	<input checked="" type="checkbox"/>		13) Floodplain and channel characteristics (i.e., rocks, overflow channels, coarse and/or large woody material) are adequate to dissipate energy
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14) Point bars are revegetating with riparian-wetland vegetation
<input checked="" type="checkbox"/>	<input type="checkbox"/>		15) Lateral stream movement is associated with natural sinuosity
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16) System is vertically stable
<input type="checkbox"/>	<input checked="" type="checkbox"/>		17) Stream is in balance with the water and sediment being supplied by the watershed (i.e., no excessive erosion or deposition)

## Summary Determination

### Functional Rating:

Proper Functioning Condition	<input type="checkbox"/>
Functional—At Risk	<input checked="" type="checkbox"/>
Nonfunctional	<input type="checkbox"/>
Unknown	<input type="checkbox"/>

### Trend for Functional—At Risk:

Upward	<input type="checkbox"/>
Downward	<input checked="" type="checkbox"/>
Not Apparent	<input type="checkbox"/>

Are factors contributing to unacceptable conditions outside the control of the manager?

Yes	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

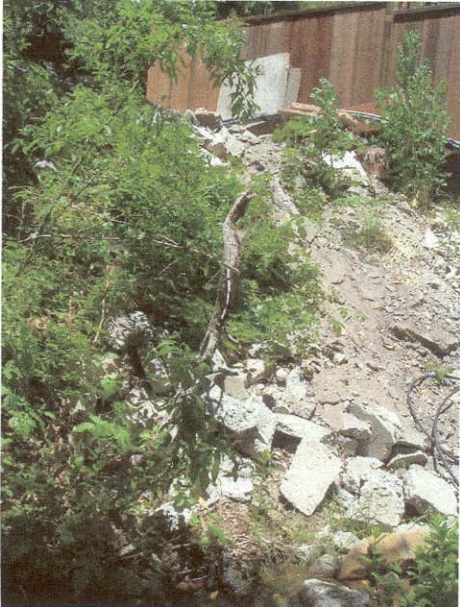
If yes, what are those factors?

<input type="checkbox"/> Flow regulations	<input type="checkbox"/> Mining activities	<input type="checkbox"/> Upstream channel conditions
<input type="checkbox"/> Channelization	<input type="checkbox"/> Road encroachment	<input type="checkbox"/> Oil field water discharge
<input type="checkbox"/> Augmented flows	<input checked="" type="checkbox"/> Other (specify) Home encroachment	

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Picture 1



Picture 2



Picture 3

Remarks

This reach was between Bridge 515 and Bridge 516 There is a lot of sediment deposition throughout the reach. The vegetation present was diverse in age-class and distribution. There was seepage in this reach.

There are a few undercut trees at bends with exposed roots.

One house is built over the creek with a concrete bridge and buttressed walls. These are all stable and not undercut.

The next house also has a buttressed bank walls that are stable downstream but are eroding upstream. The owner has tried to further stabilize the bank with concrete rubble (See Picture 4).

There are piles of concrete rubble, and dirt next to the street and sliding down the bank into the creek (See Pictures 1, 2, 3, and 4).

There is a large sediment deposit just downstream of bridge 516 that continues downstream to the house with the eroding buttressed wall.

Checklist Comments

#5, 17 There is excess sediment throughout the creek, and a large pile of sediment after bridge 516.

#11 There seems to be enough vegetation to dissipate energy and stabilize unbuttressed banks.

#13 The buttressed walls and concrete bridges do not help dissipate energy.



Picture 4