

# Standard Checklist

Name of Riparian-Wetland Area: Hitchcock Creek PFC 311

Date: May 27, 2004 Segment/Reach ID: Reach 11, Piered house on 49 Southbank

Miles: \_\_\_\_\_ Elevation: \_\_\_\_\_ GPS: N 36, 27. 974' W 121, 43. 425'

ID Team Observers: Clive Sanders, Danica Zupic Time: 1:35 pm

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3) Sinuosity, width/depth ratio, and gradient are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4) Riparian-wetland area is widening or has achieved potential extent
<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	15) Lateral stream movement is associated with natural sinuosity
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16) System is vertically stable
<input type="checkbox"/>	<input checked="" 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  
Functional—At Risk  
Nonfunctional  
Unknown

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

### Trend for Functional—At Risk:

Upward  
Downward  
Not Apparent

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

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

Yes  
No

<input type="checkbox"/>
<input checked="" type="checkbox"/>

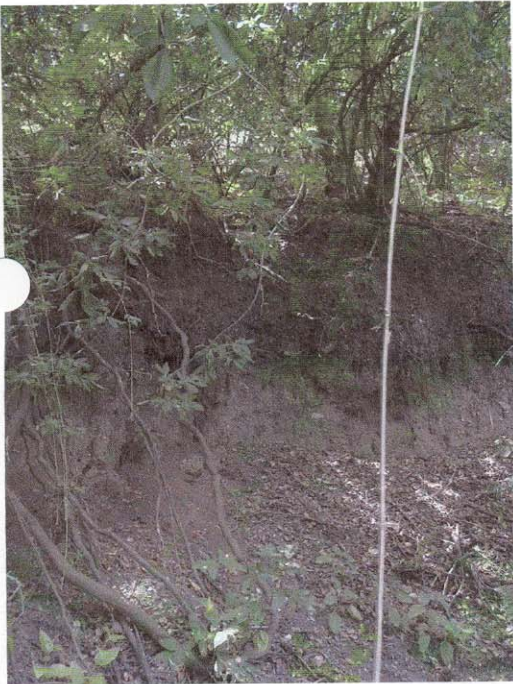
### If yes, what are those factors?

Flow regulations     Mining activities     Upstream channel conditions  
 Channelization     Road encroachment     Oil field water discharge  
 Augmented flows     Other (specify) \_\_\_\_\_





Picture 1



Picture 2



### Remarks

Severe erosion is occurring on the hillside behind the house and under the house (See Pictures 1, 2, 3, 4). The hill behind the house is undercut and there are tree roots exposed (See Picture 2).

Under the house are 4-6 concrete piers, which seem to be directing the creek further under the house (See picture 4). There are three rows of sandbags 3 ft. high to protect the foundation of the house.

There is a lack of vegetation behind and beside the house. Next to the house is a lawn where two trees were recently cut down (See Pictures 2 and 3). There are few new recruits, grasses or bushes and the only ground cover found was *Vinca major*.

There is a large pile of yard and tree cutting just downstream from the house on the road side bank.

### Checklist Comments

#3, 15 The creek's path has moved under the house.

#4 The banks are eroding faster than the riparian area can widen.

#5, 16, 17 There is severe erosion from two upland hillsides and there is an excess of sediment throughout the creek.

#9, 11 There is not enough stream bank vegetative cover or strong rooted plants to withstand and dissipate high flow energies.

#13 The channel characteristics are not adequate to dissipate energy.

