

Standard Checklist

PFC 316

Name of Riparian-Wetland Area: Hitchcock Creek

Date: June 7, 2004 Segment/Reach ID: Reach 16 - end of county road and up

Miles: _____ Elevation: 478 GPS: N 36, 27. 719' W 121, 43. 559'

ID Team Observers: Clive Sanders, 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"/>	<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"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<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"/>	<input 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 checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Trend for Functional—At Risk:

Upward
Downward
Not Apparent

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

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

Yes
No

<input checked="" type="checkbox"/>
<input 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 checked="" type="checkbox"/> Road encroachment	<input type="checkbox"/> Oil field water discharge
<input type="checkbox"/> Augmented flows	<input type="checkbox"/> Other (specify) _____	



Picture 1

Remarks

This reach is at the end of the urban area, the vegetation, LWD, channel characteristics etc. are all in PFC, however the possible source to the excess sediment of the system at the end of the reach puts this reach at- risk.

On the upland road side of the creek there is an incision that leads up to the road and continues uphill on the other side of the road (See Pictures 1 and 2). There are piles of sediment in front of the incision, along the street for several hundred yards and excessive piles of sediment throughout the reach which grow larger as they near the source.

There is also a large sediment plume on the east bank, almost directly across from the incision. Upon further investigation it was found that there is an upland tributary contributing this large amount of sediment consisting of fines, gravel and rocks.



Picture 2

Checklist Comments

#5, 17 The sources of excess sediment contributing to the excessive deposition in the creek.

#1 There was one spot where the bankfull was not inundated frequently as it looks like some dumping of sediment had occurred there.



Picture 3