

**Cully Lead Paddock
 River Corridor*
**Wadable Stream Qualitative Fish Habitat Rating
 for Streams < 10 m wide**

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name <i>Darien Creek</i>		Waterbody ID Code <i>791800</i>	SWIMS Station ID <i>10010901</i>	FH Database ID <i>128515</i>
Date (MMDDYYYY) <i>07062017</i>	Station Name <i>@ SD Road</i>			
Latitude - Longitude Determination Method Used <i>GPS</i>				Datum Used <i>NAD 83</i>
Start Latitude <i>42.58007</i>	Start Longitude <i>-88.71698</i>	End Latitude <i>42.57951</i>	End Longitude <i>-88.71701</i>	County <i>Walworth</i>

Water Characteristics

Time (24-hr clock) <i>1124</i>	Air Temperature (C)	Water Temperature (C) <i>17.47</i>	Conductivity (µs/cm) <i>791.1</i>	Transparency (cm) <i>900</i>
Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation		pH <i>7.58</i>	

Flow (m³/sec) <i>0.137</i>	Water Level (check one - measure distance if Above or Below Normal): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Below: _____ (m) <input type="checkbox"/> Above: _____ (m)	Water Clarity: <input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained
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Channel and Basin Characteristics

Mean Stream Width (m) <i>3.4</i>	Station Length (m) <i>100m</i>			
Channel Condition: (check one) <input checked="" type="checkbox"/> Natural <input type="checkbox"/> > 20-year-old Channelization <input type="checkbox"/> 10- to 20-year-old Channelization <input type="checkbox"/> < 10-year-old Channelization <input type="checkbox"/> Concrete Channel				
Percent Channelization <i>0</i>	Sinuosity <i>1.6</i>	Gradient (m/km) <i>.34</i>	Stream Order <i>3</i>	Basin Area (km²) <i>27.17</i>

Comments / Notes
DO sensor not working

<i>14.5 feet</i>			<i>TDS = .506</i>		
	Depth	flow		Depth	flow
<i>0</i>	<i>0.0</i>	<i>0</i>	<i>7.7</i>	<i>1.02</i>	<i>0.83</i>
<i>0.7</i>	<i>0.2</i>	<i>-0.07</i>	<i>8.4</i>	<i>1.15</i>	<i>0.61</i>
<i>1.4</i>	<i>0.4</i>	<i>-0.01</i>	<i>9.1</i>	<i>1.1</i>	<i>0.4</i>
<i>0.1</i>	<i>0.5</i>	<i>-0.02</i>	<i>9.8</i>	<i>1.1</i>	<i>0.22</i>
<i>2.8</i>	<i>0.7</i>	<i>0.44</i>	<i>10.5</i>	<i>1.1</i>	<i>0.04</i>
<i>3.5</i>	<i>0.8</i>	<i>0.94</i>	<i>11.2</i>	<i>1.05</i>	<i>0.01</i>
<i>4.2</i>	<i>0.95</i>	<i>1.79</i>	<i>11.9</i>	<i>0.95</i>	<i>0.07</i>
<i>4.9</i>	<i>1.05</i>	<i>1.85</i>	<i>12.6</i>	<i>0.8</i>	<i>-0.05</i>
<i>5.6</i>	<i>1.2</i>	<i>2.22</i>	<i>13.3</i>	<i>0.55</i>	<i>-0.04</i>
<i>6.3</i>	<i>1.15</i>	<i>2.08</i>	<i>14.0</i>	<i>bank</i>	
<i>7.0</i>	<i>1.2</i>	<i>1.61</i>			

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Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) 15	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) <u>10</u>	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	10
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil <u>10</u>	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station <u>3</u>	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 <u>5</u>	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 <u>15</u>	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	15
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% <u>5</u>	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	5
Total Score					<u>53</u>