



Severe Bank Erosion



|                               |   |                                 |                     |
|-------------------------------|---|---------------------------------|---------------------|
| <b>WATERSHED/SUBSHED:</b>     |   | <b>DATE:</b> ___/___/___        | <b>ASSESSED BY:</b> |
| <b>SURVEY REACH:</b>          | <b>TIME:</b> ___:___AM/PM                                     | <b>PHOTO ID (CAMERA-PIC #):</b> | <b>/#</b>           |
| <b>SITE ID: (Condition-#)</b> | <i>START</i> LAT ___° ___' ___" LONG ___° ___' ___" LMK _____ | <b>GPS: (Unit ID)</b>           |                     |
| <b>ER-_____</b>               | <i>END</i> LAT ___° ___' ___" LONG ___° ___' ___" LMK _____   |                                 |                     |

|  |  |
|--|--|
| <b>PROCESS:</b> <input type="checkbox"/> Currently unknown<br><input type="checkbox"/> Downcutting <input type="checkbox"/> Bed scour<br><input type="checkbox"/> Widening <input type="checkbox"/> Bank failure<br><input type="checkbox"/> Headcutting <input type="checkbox"/> Bank scour<br><input type="checkbox"/> Aggrading <input type="checkbox"/> Slope failure<br><input type="checkbox"/> Sed. deposition <input type="checkbox"/> Channelized | <b>BANK OF CONCERN:</b> <input type="checkbox"/> LT <input type="checkbox"/> RT <input type="checkbox"/> Both ( <i>looking downstream</i> )<br><b>LOCATION:</b> <input type="checkbox"/> Meander bend <input type="checkbox"/> Straight section <input type="checkbox"/> Steep slope/valley wall <input type="checkbox"/> Other:<br><b>DIMENSIONS:</b><br>Length ( <i>if no GPS</i> ) LT _____ ft and/or RT _____ ft Bottom width _____ ft<br>Bank Ht LT _____ ft and/or RT _____ ft Top width _____ ft<br>Bank Angle LT _____ ° and/or RT _____ ° Wetted Width _____ ft |
|--|--|

|  |  |
|--|--|
| <b>LAND OWNERSHIP:</b> <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown | <b>LAND COVER:</b> <input type="checkbox"/> Forest <input type="checkbox"/> Field/Ag <input type="checkbox"/> Developed: |
|--|--|

|  |
|--|
| <b>POTENTIAL RESTORATION CANDIDATE:</b> <input type="checkbox"/> Grade control <input type="checkbox"/> Bank stabilization |
| <input type="checkbox"/> No <input type="checkbox"/> Other:  |

**THREAT TO PROPERTY/INFRASTRUCTURE:**  No  Yes (Describe):

**EXISTING RIPARIAN WIDTH:**  <25 ft  25 - 50 ft  50-75ft  75-100ft  >100ft

|   |   |  |  |
|---|---|--|--|
| <b>EROSION SEVERITY</b> (circle#)       | Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure. | Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure  | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.  |
| Channelized= <input type="checkbox"/> 1 | 5   | 4  | 3  |
| <b>ACCESS:</b>                          | <b>Good access:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.                       | <b>Fair access:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream. | <b>Difficult access.</b> Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required. |
|   | 5   | 4  | 3  |
|   |   | 2  | 1  |

**NOTES/CROSS SECTION SKETCH:**

**REPORTED TO AUTHORITIES**  YES  NO





|                                      |  |   |  |                                    |  |
|--------------------------------------|--|---|--|------------------------------------|--|
| <b>WATERSHED/SUBSHED:</b>            |  | <b>DATE:</b> ___/___/___  |  | <b>ASSESSED BY:</b>                |  |
| <b>SURVEY REACH ID:</b>              |  | <b>TIME:</b> ___:___ AM/PM  |  | <b>PHOTO ID: (Camera-Pic #)</b> /# |  |
| <b>SITE ID: (Condition-#)</b> SC-___ |  | <b>LAT</b> ___° ___' ___" <b>LONG</b> ___° ___' ___" <b>LMK</b> ___ |  | <b>GPS (Unit ID)</b>               |  |

**TYPE:**  Road Crossing  Railroad Crossing  Manmade Dam  Beaver Dam  Geological Formation  Other:

|  |   |   |  |   |   |
|--|---|---|--|---|---|
| <b>FOR ROAD/<br/>RAILROAD<br/>CROSSINGS<br/>ONLY</b> | <b>SHAPE:</b><br><input type="checkbox"/> Arch <input type="checkbox"/> Bottomless<br><input type="checkbox"/> Box <input type="checkbox"/> Elliptical<br><input type="checkbox"/> Circular<br><input type="checkbox"/> Other:  | <b># BARRELS:</b><br><input type="checkbox"/> Single<br><input type="checkbox"/> Double<br><input type="checkbox"/> Triple<br><input type="checkbox"/> Other: | <b>MATERIAL:</b><br><input type="checkbox"/> Concrete<br><input type="checkbox"/> Metal<br><input type="checkbox"/> Other: | <b>ALIGNMENT:</b><br><input type="checkbox"/> Flow-aligned<br><input type="checkbox"/> Not flow-aligned<br><input type="checkbox"/> Do not know | <b>DIMENSIONS: (if variable, sketch)</b><br>Barrel diameter: _____ (ft)<br>Height: _____ (ft)<br><br>Culvert length: _____ (ft)<br>Width: _____ (ft)<br><br>Roadway elevation: _____ (ft) |
|  | <b>CONDITION: (Evidence of...)</b><br><input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole<br><input type="checkbox"/> Sediment deposition <input type="checkbox"/> Failing embankment<br><input type="checkbox"/> Other (describe): |   |  | <b>CULVERT SLOPE:</b><br><input type="checkbox"/> Flat<br><input type="checkbox"/> Slight (2° - 5°)<br><input type="checkbox"/> Obvious (>5°)   |   |

**POTENTIAL RESTORATION CANDIDATE**  Fish barrier removal  Culvert repair/replacement  Upstream storage retrofit  
 no  Local stream repair  Other:

**IS SC ACTING AS GRADE CONTROL**  No  Yes  Unknown

|                                |  |   |  |   |   |   |
|--------------------------------|--|---|--|---|---|---|
| <i>If yes for fish barrier</i> | <b>EXTENT OF PHYSICAL BLOCKAGE:</b><br><input type="checkbox"/> Total <input type="checkbox"/> Partial<br><input type="checkbox"/> Temporary <input type="checkbox"/> Unknown          | <b>BLOCKAGE SEVERITY: (circle #)</b>  |  |   |   |   |
|                                | <b>CAUSE:</b><br><input type="checkbox"/> Drop too high Water Drop: _____ (in)<br><input type="checkbox"/> Flow too shallow Water Depth: _____ (in)<br><input type="checkbox"/> Other: | A structure such as a dam or road culvert on a 3rd order or greater stream blocking the upstream movement of anadromous fish; no fish passage device present. | A total fish blockage on a tributary that would isolate a significant reach of stream, or partial blockage that may interfere with the migration of anadromous fish. | A temporary barrier such as a beaver dam or a blockage at the very head of a stream with very little viable fish habitat above it; natural barriers such as waterfalls. |   |   |
|                                |  | 5   | 4  | 3   | 2 | 1 |

**NOTES/SKETCH:**

**REPORTED TO AUTHORITIES**  YES  NO



|   |  |  |  |   |   |
|---|--|--|--|---|---|
| <b>WATERSHED/SUBSHED:</b>   |  | <b>DATE:</b> ___/___/___   |  | <b>ASSESSED BY:</b>   |   |
| <b>SURVEY REACH ID:</b>   |  | <b>TIME:</b> ___:___ AM/PM   |  | <b>PHOTO ID:</b> (Camera-Pic #) /#  |   |
| <b>SITE ID:</b> (Condition-#)<br><b>CM-</b> _____   | <i>START</i> LAT ___° ___' ___" <i>LONG</i> ___° ___' ___" <b>LMK</b> _____  |  | <b>GPS:</b> (Unit ID)  |   |   |
|   | <i>END</i> LAT ___° ___' ___" <i>LONG</i> ___° ___' ___" <b>LMK</b> _____  |  |  |   |   |
| <b>TYPE:</b> <input type="checkbox"/> Channelization <input type="checkbox"/> Bank armoring <input type="checkbox"/> concrete channel <input type="checkbox"/> Floodplain encroachment <input type="checkbox"/> Other:  |  |  |  |   |   |
| <b>MATERIAL:</b><br><input type="checkbox"/> Concrete <input type="checkbox"/> Gabion<br><input type="checkbox"/> Rip Rap <input type="checkbox"/> Earthen<br><input type="checkbox"/> Metal<br><input type="checkbox"/> Other:   |  | Does channel have perennial flow? <input type="checkbox"/> Yes <input type="checkbox"/> No         |  | <b>DIMENSIONS:</b><br>Height _____ (ft)<br>Bottom Width _____ (ft)<br>Top Width: _____ (ft)<br>Length: _____ (ft) |   |
|   |  | Is there evidence of sediment deposition? <input type="checkbox"/> Yes <input type="checkbox"/> No |  |   |   |
|   |  | Is vegetation growing in channel? <input type="checkbox"/> Yes <input type="checkbox"/> No         |  |   |   |
|   |  | Is channel connected to floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No       |  |   |   |
| <b>BASE FLOW CHANNEL</b><br>Depth of flow _____ (in)<br>Defined low flow channel? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>% of channel bottom _____%  |  |  | <b>ADJACENT STREAM CORRIDOR</b><br>Available width    LT _____ (ft)   RT _____ (ft)<br>Utilities Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No<br>Fill in floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No |   |   |
| <b>POTENTIAL RESTORATION CANDIDATE</b> <input type="checkbox"/> Structural repair <input type="checkbox"/> Base flow channel creation <input type="checkbox"/> Natural channel design <input type="checkbox"/> Can't tell<br><input type="checkbox"/> no <input type="checkbox"/> De-channelization <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Bioengineering |  |  |  |   |   |
| <b>CHANNEL-IZATION SEVERITY:</b><br>(Circle #)  | A long section of concrete stream (>500') channel where water is very shallow (<1" deep) with no natural sediments present in the channel. |  | A moderate length (> 200') ,but channel stabilized and beginning to function as a natural stream channel. Vegetated bars may have formed in channel.   |   | An earthen channel less than 100 ft with good water depth, a natural sediment bottom, and size and shape similar to the unchannelized stream reaches above and below impacted area. |
|   | 5  |  | 4  |   | 3   |
| <b>NOTES:</b>   |  |  |  |   |   |





|                           |                          |                     |
|---------------------------|--------------------------|---------------------|
| <b>WATERSHED/SUBSHED:</b> | <b>DATE:</b> ___/___/___ | <b>ASSESSED BY:</b> |
|---------------------------|--------------------------|---------------------|

|                         |                           |                                    |
|-------------------------|---------------------------|------------------------------------|
| <b>SURVEY REACH ID:</b> | <b>TIME:</b> ___:___AM/PM | <b>PHOTO ID:</b> (Camera-Pic #) /# |
|-------------------------|---------------------------|------------------------------------|

|                                      |  |                       |
|--------------------------------------|--|-----------------------|
| <b>SITE ID:</b> (Condition-#) UT-___ | <b>LAT</b> ___° ___' ___" <b>LONG</b> ___° ___' ___" <b>LMK:</b> ___ | <b>GPS:</b> (Unit ID) |
|--------------------------------------|--|-----------------------|

|  |  |   |  |   |
|--|--|---|--|---|
| <b>TYPE:</b><br><input type="checkbox"/> Leaking sewer<br><input type="checkbox"/> Exposed pipe<br><input type="checkbox"/> Exposed manhole<br><input type="checkbox"/> Other: | <b>MATERIAL:</b><br><input type="checkbox"/> Concrete<br><input type="checkbox"/> Corrugated metal<br><input type="checkbox"/> Smooth metal<br><input type="checkbox"/> PVC<br><input type="checkbox"/> Other: | <b>LOCATION:</b><br><input type="checkbox"/> Floodplain<br><input type="checkbox"/> Stream bank<br><input type="checkbox"/> Above stream<br><input type="checkbox"/> Stream bottom<br><input type="checkbox"/> Other:                             | <b>POTENTIAL FISH BARRIER:</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No | <b>PIPE DIMENSIONS:</b><br>Diameter: ___in<br>Length exposed: ___ft |
|  |  | <b>CONDITION:</b> <input type="checkbox"/> Joint failure <input type="checkbox"/> Pipe corrosion/cracking<br><input type="checkbox"/> Protective covering broken <input type="checkbox"/> Manhole cover absent<br><input type="checkbox"/> Other: |  |   |

|                               |                 |   |
|-------------------------------|-----------------|---|
| <b>EVIDENCE OF DISCHARGE:</b> | <b>COLOR</b>    | <input type="checkbox"/> None <input type="checkbox"/> Clear <input type="checkbox"/> Dark Brown <input type="checkbox"/> Lt Brown <input type="checkbox"/> Yellowish <input type="checkbox"/> Greenish <input type="checkbox"/> Other: |
|                               | <b>ODOR</b>     | <input type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Oily <input type="checkbox"/> Sulfide <input type="checkbox"/> Chlorine <input type="checkbox"/> Other:  |
|                               | <b>DEPOSITS</b> | <input type="checkbox"/> None <input type="checkbox"/> Tampons/Toilet Paper <input type="checkbox"/> Lime <input type="checkbox"/> Surface oils <input type="checkbox"/> Stains <input type="checkbox"/> Other:                         |

**POTENTIAL RESTORATION CANDIDATE**  Structural repairs  Pipe testing  Citizen hotlines  Dry weather sampling  
 no  Fish barrier removal  Other:

If yes to fish barrier, Water Drop: \_\_\_\_\_ (in)

|  |   |   |   |
|--|---|---|---|
| <b>UTILITY IMPACT SEVERITY:</b><br>(Circle #)<br><br>Leaking= <input type="checkbox"/> 5 | Section of pipe undermined by erosion and could collapse in the near future; a pipe running across the bed or suspended above the stream; a long section along the edge of the stream where nearly the entire side of the pipe is exposed; or a manhole stack that is located in the center of the stream channel and there is evidence of stack failure. | A moderately long section of pipe is partially exposed but there is no immediate threat that the pipe will be undermined and break in the immediate future. The primary concern is that the pipe may be punctured by large debris during a large storm event. | Small section of exposed pipe, stream bank near the pipe is stable; the pipe is across the bottom of the stream but only a small portion of the top of the pipe exposed; the pipe is exposed but is reinforced with concrete and it is not causing a blockage to upstream fish movement; a manhole stack that is at the edge of the stream and does not extend very far out into the active stream channel. |
|  | 5   | 4   | 3   |
|  |   |   | 2   |
|  |   |   | 1   |

**NOTES:**

**REPORTED TO LOCAL AUTHORITIES**  Yes  No

Miscellaneous



|  |  |                                    |
|--|--|------------------------------------|
| <b>WATERSHED/SUBSHED:</b>              | <b>DATE:</b> ___/___/___   | <b>ASSESSED BY:</b>                |
| <b>SURVEY REACH ID:</b>                | <b>TIME:</b> ___:___AM/PM  | <b>PHOTO ID: (Camera-Pic #)</b> /# |
| <b>SITE ID: (Condition-#) MI-_____</b> | <b>LAT</b> ___° ___' ___" <b>LONG</b> ___° ___' ___" <b>LMK:</b> _____ | <b>GPS: (Unit ID)</b>              |

**POTENTIAL RESTORATION CANDIDATE**  Storm water retrofit  Stream restoration  Riparian Management  
 no  Discharge Prevention  Other:

**DESCRIBE:**

**REPORTED TO LOCAL AUTHORITIES**  Yes  No

|  |  |                                    |
|--|--|------------------------------------|
| <b>WATERSHED/SUBSHED:</b>              | <b>DATE:</b> ___/___/___   | <b>ASSESSED BY:</b>                |
| <b>SURVEY REACH ID:</b>                | <b>TIME:</b> ___:___AM/PM  | <b>PHOTO ID: (Camera-Pic #)</b> /# |
| <b>SITE ID: (Condition-#) MI-_____</b> | <b>LAT</b> ___° ___' ___" <b>LONG</b> ___° ___' ___" <b>LMK:</b> _____ | <b>GPS: (Unit ID)</b>              |

**POTENTIAL RESTORATION CANDIDATE**  Storm water retrofit  Stream restoration  Riparian Management  
 no  Discharge Prevention  Other:

**DESCRIBE:**

**REPORTED TO LOCAL AUTHORITIES**  Yes  No

|  |  |                                    |
|--|--|------------------------------------|
| <b>WATERSHED/SUBSHED:</b>              | <b>DATE:</b> ___/___/___   | <b>ASSESSED BY:</b>                |
| <b>SURVEY REACH ID:</b>                | <b>TIME:</b> ___:___AM/PM  | <b>PHOTO ID: (Camera-Pic #)</b> /# |
| <b>SITE ID: (Condition-#) MI-_____</b> | <b>LAT</b> ___° ___' ___" <b>LONG</b> ___° ___' ___" <b>LMK:</b> _____ | <b>GPS: (Unit ID)</b>              |

**POTENTIAL RESTORATION CANDIDATE**  Storm water retrofit  Stream restoration  Riparian Management  
 no  Discharge Prevention  Other:

**DESCRIBE:**

**REPORTED TO LOCAL AUTHORITIES**  Yes  No



| OVERALL STREAM CONDITION  |   |    |   |  |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |  |
|---|---|----|---|--|--|--|---|---|--|--|---|---|---|--|--|---|---|---|--|--|
|   | Optimal   |    |   |  |  | Suboptimal   |   |   |  |  | Marginal  |   |   |  |  | Poor  |   |   |  |  |
| <b>IN-STREAM HABITAT</b><br><i>(May modify criteria based on appropriate habitat regime)</i>      | Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient). |    |   |  |  | 40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).                |   |   |  |  | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.  |   |   |  |  | Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.  |   |   |  |  |
|   | 20 19 18 17 16  |    |   |  |  | 15 14 13 12 11   |   |   |  |  | 10 9 8 7 6  |   |   |  |  | 5 4 3 2 1 0   |   |   |  |  |
| <b>VEGETATIVE PROTECTION</b><br><i>(score each bank, determine sides by facing downstream)</i>    | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.        |    |   |  |  | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. |   |   |  |  | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. |   |   |  |  | Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. |   |   |  |  |
|   | Left Bank   | 10 | 9 |  |  | 8  | 7 | 6 |  |  | 5   | 4 | 3 |  |  | 2   | 1 | 0 |  |  |
|   | Right Bank  | 10 | 9 |  |  | 8  | 7 | 6 |  |  | 5   | 4 | 3 |  |  | 2   | 1 | 0 |  |  |
| <b>BANK EROSION</b><br><i>(facing downstream)</i>   | Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.  |    |   |  |  | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.  |   |   |  |  | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure  |   |   |  |  | Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.   |   |   |  |  |
|   | Left Bank   | 10 | 9 |  |  | 8  | 7 | 6 |  |  | 5   | 4 | 3 |  |  | 2   | 1 | 0 |  |  |
|   | Right Bank  | 10 | 9 |  |  | 8  | 7 | 6 |  |  | 5   | 4 | 3 |  |  | 2   | 1 | 0 |  |  |
| <b>FLOODPLAIN CONNECTION</b>  | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.  |    |   |  |  | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.   |   |   |  |  | High flows (greater than bankfull) <b>not</b> able to enter floodplain. Stream deeply entrenched.   |   |   |  |  | High flows (greater than bankfull) <b>not</b> able to enter floodplain. Stream deeply entrenched.   |   |   |  |  |
|   | 20 19 18 17 16  |    |   |  |  | 15 14 13 12 11   |   |   |  |  | 10 9 8 7 6  |   |   |  |  | 5 4 3 2 1 0   |   |   |  |  |
| OVERALL BUFFER AND FLOODPLAIN CONDITION   |   |    |   |  |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |  |
|   | Optimal   |    |   |  |  | Suboptimal   |   |   |  |  | Marginal  |   |   |  |  | Poor  |   |   |  |  |
| <b>VEGETATED BUFFER WIDTH</b>   | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.  |    |   |  |  | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.   |   |   |  |  | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.  |   |   |  |  | Width of buffer zone <10 feet: little or no riparian vegetation due to human activities.  |   |   |  |  |
|   | Left Bank   | 10 | 9 |  |  | 8  | 7 | 6 |  |  | 5   | 4 | 3 |  |  | 2   | 1 | 0 |  |  |
|   | Right Bank  | 10 | 9 |  |  | 8  | 7 | 6 |  |  | 5   | 4 | 3 |  |  | 2   | 1 | 0 |  |  |
| <b>FLOODPLAIN VEGETATION</b>  | Predominant floodplain vegetation type is mature forest   |    |   |  |  | Predominant floodplain vegetation type is young forest   |   |   |  |  | Predominant floodplain vegetation type is shrub or old field  |   |   |  |  | Predominant floodplain vegetation type is turf or crop land   |   |   |  |  |
|   | 20 19 18 17 16  |    |   |  |  | 15 14 13 12 11   |   |   |  |  | 10 9 8 7 6  |   |   |  |  | 5 4 3 2 1 0   |   |   |  |  |
| <b>FLOODPLAIN HABITAT</b>   | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water   |    |   |  |  | Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water   |   |   |  |  | Either all wetland or all non-wetland habitat, evidence of standing/ponded water  |   |   |  |  | Either all wetland or all non-wetland habitat, no evidence of standing/ponded water   |   |   |  |  |
|   | 20 19 18 17 16  |    |   |  |  | 15 14 13 12 11   |   |   |  |  | 10 9 8 7 6  |   |   |  |  | 5 4 3 2 1 0   |   |   |  |  |
| <b>FLOODPLAIN ENCROACHMENT</b>  | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures  |    |   |  |  | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function   |   |   |  |  | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function  |   |   |  |  | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function   |   |   |  |  |
|   | 20 19 18 17 16  |    |   |  |  | 15 14 13 12 11   |   |   |  |  | 10 9 8 7 6  |   |   |  |  | 5 4 3 2 1 0   |   |   |  |  |
| <b>Sub Total In-stream: _____/80 + Buffer/Floodplain: _____/80 = Total Survey Reach _____/160</b> |   |    |   |  |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |  |

