

WATERSHED/SUBSHED:		DATE: ____/____/____		ASSESSED BY:																				
SURVEY REACH ID:		TIME: ____:____AM/PM		PHOTO ID: (Camera-Pic #) ____/#																				
SITE ID (Condition-#): OT-____		LAT ____° ____' ____" LONG ____° ____' ____" LMK ____		GPS: (Unit ID)																				
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[illegible]

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SURVEY REACH:			TIME: ____:____AM/PM		PHOTO ID: (<i>Camera-Pic #</i>) ____/##		
SITE ID: (<i>Condition-#</i>) IB- _____	<i>START</i>	LAT ____° ____' ____" LONG ____° ____' ____" LMK _____	GPS: (<i>Unit ID</i>)				
	<i>END</i>	LAT ____° ____' ____" LONG ____° ____' ____" LMK _____					
IMPACTED BANK: <input type="checkbox"/> LT <input type="checkbox"/> RT <input type="checkbox"/> Both		REASON INADEQUATE: <input type="checkbox"/> Lack of vegetation <input type="checkbox"/> Too narrow <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Recently planted <input type="checkbox"/> Other:					
LAND USE:		Private	Institutional	Golf Course	Park	Other Public	
(Facing downstream) LT Bank <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> :	
RT Bank <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> :	
DOMINANT LAND COVER:		Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees Other
LT Bank <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> :
RT Bank <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> :
INVASIVE PLANTS:		<input type="checkbox"/> None <input type="checkbox"/> Rare <input type="checkbox"/> Partial coverage <input type="checkbox"/> Extensive coverage <input type="checkbox"/> unknown					
STREAM SHADE PROVIDED?		<input type="checkbox"/> None <input type="checkbox"/> Partial <input type="checkbox"/> Full			WETLANDS PRESENT? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown		
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Active reforestation <input type="checkbox"/> Greenway design <input type="checkbox"/> Natural regeneration <input type="checkbox"/> Invasives removal <input type="checkbox"/> no <input type="checkbox"/> Other:							
RESTORABLE AREA <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">LT BANK</div> <div style="text-align: center;">RT</div> </div> Length (ft): _____ Width (ft): _____		REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting		Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate		Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
			5	4	3	2	1
POTENTIAL CONFLICTS WITH REFORESTATION <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Potential contamination <input type="checkbox"/> Lack of sun <input type="checkbox"/> Poor/unsafe access to site <input type="checkbox"/> Existing impervious cover <input type="checkbox"/> Severe animal impacts (deer, beaver) <input type="checkbox"/> Other:							
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		RT Bank <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> :		
DOMINANT		Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other
LAND COVER:		LT Bank <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> :
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INVASIVE PLANTS:		<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input type="checkbox"/> Partial coverage		<input type="checkbox"/> Extensive coverage		<input type="checkbox"/> unknown
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SITE ID: (<i>Condition-#</i>) SC-____		LAT ____° ____' ____" LONG ____° ____' ____" LMK ____		GPS (<i>Unit ID</i>)		
TYPE: <input type="checkbox"/> Road Crossing <input type="checkbox"/> Railroad Crossing <input type="checkbox"/> Manmade Dam <input type="checkbox"/> Beaver Dam <input type="checkbox"/> Geological Formation <input type="checkbox"/> Other:						
FOR ROAD/ RAILROAD CROSSINGS ONLY	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input type="checkbox"/> Circular <input type="checkbox"/> Other:		# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:		MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	
	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know		DIMENSIONS: (<i>if variable, sketch</i>) Barrel diameter: ____ (ft) Height: ____ (ft)			
	CONDITION: (<i>Evidence of...</i>) <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Failing embankment <input type="checkbox"/> Other (<i>describe</i>):		CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight ($2^{\circ} - 5^{\circ}$) <input type="checkbox"/> Obvious ($>5^{\circ}$)		Culvert length: ____ (ft) Width: ____ (ft)	
					Roadway elevation: ____ (ft)	
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Culvert repair/replacement <input type="checkbox"/> Upstream storage retrofit <input type="checkbox"/> no <input type="checkbox"/> Local stream repair <input type="checkbox"/> Other:						
IS SC ACTING AS GRADE CONTROL <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown						
<i>If yes for fish barrier</i>	EXTENT OF PHYSICAL BLOCKAGE: <input type="checkbox"/> Total <input type="checkbox"/> Partial <input type="checkbox"/> Temporary <input type="checkbox"/> Unknown		BLOCKAGE SEVERITY: (<i>circle #</i>)			
	CAUSE: <input type="checkbox"/> Drop too high Water Drop: ____ (in) <input type="checkbox"/> Flow too shallow Water Depth: ____ (in) <input type="checkbox"/> Other:		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> 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. </div> <div style="width: 30%;"> 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. </div> <div style="width: 30%;"> 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. </div> </div>			
			5 4 3 2 1			
NOTES/SKETCH:						
REPORTED TO AUTHORITIES <input type="checkbox"/> YES <input type="checkbox"/> NO						

WATERSHED/SUBSHED:			DATE: ____/____/____		ASSESSED BY:	
SURVEY REACH ID:		TIME: ____:____ AM/PM		PHOTO ID: (<i>Camera-Pic #</i>) ____/____		
SITE ID: (<i>Condition-#</i>) SC-____		LAT ____° ____' ____" LONG ____° ____' ____" LMK ____		GPS (<i>Unit ID</i>)		
TYPE: <input type="checkbox"/> Road Crossing <input type="checkbox"/> Railroad Crossing <input type="checkbox"/> Manmade Dam <input type="checkbox"/> Beaver Dam <input type="checkbox"/> Geological Formation <input type="checkbox"/> Other:						
FOR ROAD/ RAILROAD CROSSINGS ONLY	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input type="checkbox"/> Circular <input type="checkbox"/> Other:		# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:		MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	
	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know		DIMENSIONS: (<i>if variable, sketch</i>) Barrel diameter: ____ (ft) Height: ____ (ft)			
	CONDITION: (<i>Evidence of...</i>) <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Failing embankment <input type="checkbox"/> Other (<i>describe</i>):		CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight ($2^{\circ} - 5^{\circ}$) <input type="checkbox"/> Obvious ($>5^{\circ}$)		Culvert length: ____ (ft) Width: ____ (ft) Roadway elevation: ____ (ft)	
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Culvert repair/replacement <input type="checkbox"/> Upstream storage retrofit <input type="checkbox"/> no <input type="checkbox"/> Local stream repair <input type="checkbox"/> Other:						
IS SC ACTING AS GRADE CONTROL <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown						
<i>If yes for fish barrier</i>	EXTENT OF PHYSICAL BLOCKAGE: <input type="checkbox"/> Total <input type="checkbox"/> Partial <input type="checkbox"/> Temporary <input type="checkbox"/> Unknown		BLOCKAGE SEVERITY: (<i>circle #</i>)			
	CAUSE: <input type="checkbox"/> Drop too high Water Drop: ____ (in) <input type="checkbox"/> Flow too shallow Water Depth: ____ (in) <input type="checkbox"/> Other:		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> 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. </div> <div style="width: 30%;"> 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. </div> <div style="width: 30%;"> 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. </div> </div>			
			5 4 3 2 1			
	NOTES/SKETCH:					
REPORTED TO AUTHORITIES <input type="checkbox"/> YES <input type="checkbox"/> NO						

WATERSHED/SUBSHED:			DATE: ____/____/____		ASSESSED BY:	
SURVEY REACH ID:		TIME: ____:____AM/PM		PHOTO ID: (Camera-Pic #)		#
SITE ID: (Condition-#) CM- _____	START LAT ____° ____' ____" LONG ____° ____' ____" LMK _____		GPS: (Unit ID)			
	END LAT ____° ____' ____" LONG ____° ____' ____" LMK _____					
TYPE: <input type="checkbox"/> Channelization <input type="checkbox"/> Bank armoring <input type="checkbox"/> concrete channel <input type="checkbox"/> Floodplain encroachment <input type="checkbox"/> Other:						
MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:		Does channel have perennial flow? <input type="checkbox"/> Yes <input type="checkbox"/> No		DIMENSIONS: Height _____(ft) Bottom Width _____(ft) Top Width: _____(ft) 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				
BASE FLOW CHANNEL Depth of flow _____(in) Defined low flow channel? <input type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom _____%				ADJACENT STREAM CORRIDOR Available width LT _____(ft) RT _____(ft) Utilities Present? <input type="checkbox"/> Yes <input type="checkbox"/> No Fill in floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No		
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Structural repair <input type="checkbox"/> Base flow channel creation <input type="checkbox"/> Natural channel design <input type="checkbox"/> Can't tell <input type="checkbox"/> no <input type="checkbox"/> De-channelization <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Bioengineering						
CHANNEL-IZATION SEVERITY: (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	
NOTES: 						

WATERSHED/SUBSHED:			DATE: ____/____/____		ASSESSED BY:	
SURVEY REACH ID:			TIME: ____:____AM/PM		PHOTO ID: (Camera-Pic #) ____/#	
SITE ID: (Condition-#) CM- _____	START LAT ____° ____' ____" LONG ____° ____' ____" LMK _____		GPS: (Unit ID)			
	END LAT ____° ____' ____" LONG ____° ____' ____" LMK _____					
TYPE: <input type="checkbox"/> Channelization <input type="checkbox"/> Bank armoring <input type="checkbox"/> concrete channel <input type="checkbox"/> Floodplain encroachment <input type="checkbox"/> Other:						
MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:		Does channel have perennial flow? <input type="checkbox"/> Yes <input type="checkbox"/> No		DIMENSIONS: Height _____(ft) Bottom Width _____(ft) Top Width: _____(ft) 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				
BASE FLOW CHANNEL Depth of flow _____(in) Defined low flow channel? <input type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom _____%				ADJACENT STREAM CORRIDOR Available width LT _____(ft) RT _____(ft) Utilities Present? <input type="checkbox"/> Yes <input type="checkbox"/> No Fill in floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No		
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Structural repair <input type="checkbox"/> Base flow channel creation <input type="checkbox"/> Natural channel design <input type="checkbox"/> Can't tell <input type="checkbox"/> no <input type="checkbox"/> De-channelization <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Bioengineering						
CHANNEL-IZATION SEVERITY: (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	2	1	
NOTES:						

[illegible]

[illegible]

WATERSHED/SUBSHED:		DATE: ____/____/____		ASSESSED BY:	
SURVEY REACH ID:		TIME: ____:____AM/PM		PHOTO ID: (Camera-Pic #) ____/#	
SITE ID: (Condition-#) UT- ____		LAT ____° ____' ____" LONG ____° ____' ____" LMK: ____		GPS: (Unit ID)	
TYPE: <input type="checkbox"/> Leaking sewer <input type="checkbox"/> Exposed pipe <input type="checkbox"/> Exposed manhole <input type="checkbox"/> Other:		MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Corrugated metal <input type="checkbox"/> Smooth metal <input type="checkbox"/> PVC <input type="checkbox"/> Other:		LOCATION: <input type="checkbox"/> Floodplain <input type="checkbox"/> Stream bank <input type="checkbox"/> Above stream <input type="checkbox"/> Stream bottom <input type="checkbox"/> Other:	
		POTENTIAL FISH BARRIER: <input type="checkbox"/> Yes <input type="checkbox"/> No		PIPE DIMENSIONS: Diameter: ____in Length exposed: ____ft	
		CONDITION: <input type="checkbox"/> Joint failure <input type="checkbox"/> Protective covering broken <input type="checkbox"/> Other:		<input type="checkbox"/> Pipe corrosion/cracking <input type="checkbox"/> Manhole cover absent	
EVIDENCE OF DISCHARGE:		COLOR <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:			
		ODOR <input type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Oily <input type="checkbox"/> Sulfide <input type="checkbox"/> Chlorine <input type="checkbox"/> Other:			
		DEPOSITS <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 <input type="checkbox"/> Structural repairs <input type="checkbox"/> Pipe testing <input type="checkbox"/> Citizen hotlines <input type="checkbox"/> Dry weather sampling <input type="checkbox"/> no <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Other:					
If yes to fish barrier, Water Drop: ____ (in)					
UTILITY IMPACT SEVERITY: (Circle #) 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.	
		5		4	
		3		2	
		1			
NOTES: <div style="text-align: right;">REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No</div>					

[illegible]

WATERSHED/SUBSHED:						DATE: ____/____/____				ASSESSED BY:							
SURVEY REACH ID:						TIME: ____:____AM/PM				PHOTO ID: (<i>Camera-Pic #</i>) /#							
SITE ID: (<i>Condition-#</i>) MI-_____				LAT _____° _____' _____" LONG _____° _____' _____" LMK: _____								GPS: (<i>Unit ID</i>)					
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:																	
DESCRIBE: <div>REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No</div>																	

[illegible]

WATERSHED/SUBSHED:		DATE: ____/____/____		ASSESSED BY:	
SURVEY REACH ID:		TIME: ____:____AM/PM		PHOTO ID: (Camera-Pic #) /#	
SITE ID: (Condition-#)	MI-_____	LAT ____° ____' ____"	LONG ____° ____' ____"	LMK: _____	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:					
DESCRIBE:					
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No					

WATERSHED/SUBSHED:		DATE: ____/____/____		ASSESSED BY:	
SURVEY REACH ID:		TIME: ____:____AM/PM		PHOTO ID: (<i>Camera-Pic #</i>) /#	
SITE ID: (<i>Condition-#</i>) MI-_____	LAT _____° _____' _____" LONG _____° _____' _____"			LMK: _____ GPS: (<i>Unit ID</i>)	
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:					
DESCRIBE:					
<div style="text-align: right;">REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No</div>					

WATERSHED/SUBSHED:	DATE: ____/____/____	ASSESSED BY:	
SURVEY REACH ID:	TIME: ____:____AM/PM	PHOTO ID: (<i>Camera-Pic #</i>) _____ /#	
SITE ID: (<i>Condition-#</i>) MI- _____	LAT ____° ____' ____" LONG ____° ____' ____" LMK: _____		GPS: (<i>Unit ID</i>)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:			
DESCRIBE:			
<div style="text-align: right;"> REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No </div>			

SURVEY REACH ID: _____		WTRSHD/SUBSHD: _____		DATE: ____/____/____		ASSESSED BY: _____	
START TIME: ____:____AM/PM LMK: _____		END TIME: ____:____AM/PM LMK: _____		GPS ID: _____			
LAT ____° ____' ____" LONG ____° ____' ____"		LAT ____° ____' ____" LONG ____° ____' ____"					
DESCRIPTION:				DESCRIPTION:			

RAIN IN LAST 24 HOURS <input type="checkbox"/> Heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent		PRESENT CONDITIONS <input type="checkbox"/> Heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent	
<input type="checkbox"/> None <input type="checkbox"/> Intermittent <input type="checkbox"/> Trace		<input type="checkbox"/> Clear <input type="checkbox"/> Trace <input type="checkbox"/> Overcast <input type="checkbox"/> Partly cloudy	
SURROUNDING LAND USE: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Urban/Residential <input type="checkbox"/> Suburban/Res <input type="checkbox"/> Forested <input type="checkbox"/> Institutional			
<input type="checkbox"/> Golf course <input type="checkbox"/> Park		<input type="checkbox"/> Crop <input type="checkbox"/> Pasture <input type="checkbox"/> Other:	

AVERAGE CONDITIONS (<i>check applicable</i>)		REACH SKETCH AND SITE IMPACT TRACKING							
BASE FLOW AS % <input type="checkbox"/> 0-25% <input type="checkbox"/> 50%-75% CHANNEL WIDTH <input type="checkbox"/> 25-50 % <input type="checkbox"/> 75-100%		<i>Simple planar sketch of survey reach. Track locations and IDs for all site impacts within the survey reach (OT, ER, IB, SC, UT, TR, MI) as well as any additional features deemed appropriate. Indicate direction of flow</i>							
DOMINANT SUBSTRATE <input type="checkbox"/> Silt/clay (fine or slick) <input type="checkbox"/> Cobble (2.5 –10") <input type="checkbox"/> Sand (gritty) <input type="checkbox"/> Boulder (>10") <input type="checkbox"/> Gravel (0.1-2.5") <input type="checkbox"/> Bed rock									
WATER CLARITY <input type="checkbox"/> Clear <input type="checkbox"/> Turbid (<i>suspended matter</i>) <input type="checkbox"/> Stained (<i>clear, naturally colored</i>) <input type="checkbox"/> Opaque (<i>milky</i>) <input type="checkbox"/> Other (<i>chemicals, dyes</i>)									
AQUATIC PLANTS Attached: <input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots IN STREAM Floating: <input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots									
WILDLIFE IN OR AROUND STREAM (Evidence of) <input type="checkbox"/> Fish <input type="checkbox"/> Beaver <input type="checkbox"/> Deer <input type="checkbox"/> Snails <input type="checkbox"/> Other:									
STREAM SHADING <input type="checkbox"/> Mostly shaded (≥75% coverage) (water surface) <input type="checkbox"/> Halfway (≥50%) <input type="checkbox"/> Partially shaded (≥25%) <input type="checkbox"/> Unshaded (< 25%)									
CHANNEL DYNAMICS <input type="checkbox"/> Downcutting <input type="checkbox"/> Bed scour <input type="checkbox"/> Widening <input type="checkbox"/> Bank failure <input type="checkbox"/> Headcutting <input type="checkbox"/> Bank scour <input type="checkbox"/> Aggrading <input type="checkbox"/> Slope failure <input type="checkbox"/> Sed. deposition <input type="checkbox"/> Channelized <input type="checkbox"/> Unknown									
CHANNEL DIMENSIONS Height: LT bank _____(ft) (FACING RT bank _____(ft) DOWNSTREAM) Width: Bottom _____(ft) Top _____(ft)									
REACH ACCESSIBILITY									
Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.				Fair: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.		Difficult. Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.			
5		4		3		2		1	

NOTES: (*biggest problem you see in survey reach*)

REPORTED TO AUTHORITIES ☐ Yes ☐ No

OVERALL STREAM CONDITION																					
	Optimal					Suboptimal					Marginal					Poor					
IN-STREAM HABITAT <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
VEGETATIVE PROTECTION <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		
BANK EROSION <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		
FLOODPLAIN CONNECTION	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) not able to enter floodplain. Stream deeply entrenched.					High flows (greater than bankfull) not 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					
VEGETATED BUFFER WIDTH	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		
FLOODPLAIN VEGETATION	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
FLOODPLAIN HABITAT	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
FLOODPLAIN ENCROACHMENT	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
Sub Total In-stream: _____/80 + Buffer/Floodplain: _____/80 = Total Survey Reach _____/160																					

Photo Inventory

(By Camera)

Project: _____

Group: _____

Camera: _____

This field sheet is to be completed AS photos are taken in the field. The intent is to force us to organize pictures taken on a camera basis. Fill out one sheet per camera (add sheets as needed). Only fill in Date/Reach/Location ID when you start in a new spatial or temporal location.

[illegible]

[illegible]**Comments:**

(BACK)