

Site Information					
Crossing ID			Watershed Group Name		
Crossing Type	<input type="checkbox"/> Culvert <input type="checkbox"/> Bridge* <input type="checkbox"/> Dam <input type="checkbox"/> Ford <input type="checkbox"/> Other		# of Culverts		
Field Crew			Date (dd/mm/yyyy)		
Stream Name			Time		
Road Name			Projection	<input type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83	
Ownership of Crossing	<input type="checkbox"/> Public Road ROW <input type="checkbox"/> Rail Bed ROW <input type="checkbox"/> Private		Lat (deg, min, sec)		
Debris Blockage Present	<input type="checkbox"/> Yes <input type="checkbox"/> No		Long (deg, min, sec)		
Description of Debris			Fish Habitat**	<input type="checkbox"/> Yes <input type="checkbox"/> No	
*If crossing is a bridge or other open bottomed structure, complete bridge section					
**If crossing is identified as being on a fish bearing stream, then proceed with further data collection					
Photo Files					
Upstream	File Name		Downstream	File Name	
Toward Inflow			Toward Outflow		
Through Culvert			Through Culvert		
Looking Upstream			Looking Downstream		
Other			Other		
Bridge Dimensions					
Span (m)			Wetted Width Under Bridge (m)		
Rise (m)			Average Water Depth Under Bridge (m)		
Bridge Width (m)			Stream Width Ratio		
Rapid Assessment					
There is a visible outflow drop.			<input type="checkbox"/> True <input type="checkbox"/> False		
Water depth is less than 15cm in at least one location inside the culvert.			<input type="checkbox"/> True <input type="checkbox"/> False		
The culvert is not fully backwatered.			<input type="checkbox"/> True <input type="checkbox"/> False		
The stream width noticeably different above and below the culvert?			<input type="checkbox"/> True <input type="checkbox"/> False		
<b>If the response to any of these questions is TRUE then continue with the full assessment.</b>					
Stream Characteristics					
Water Quality					
Air Temp (°C)		pH		DO (mg/L)	
Water Temp (°C)		Conductivity (µS/cm)		TDS (mg/L)	
Substrate Sizes (taken upstream of culvert in percent composition)					
Fines (<0.2cm)		Cobble (6.4-25.6cm)		Bedrock	
Gravel (0.2-6.4cm)		Boulder (>25.6cm)			
Channel Measurements (taken upstream)					
	Pool	Riffle		Run	Average
Wetted Width (m)					
Bankfull Width (m)					
Stream Width Ratio					
Culvert Information					
Culvert Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Corrugated Metal Pipe (Spiral) <input type="checkbox"/> Corrugated Metal Pipe (Annular) <input type="checkbox"/> Corrugated Plastic <input type="checkbox"/> Wood <input type="checkbox"/> Other		Culvert Shape	<input type="checkbox"/> Circular <input type="checkbox"/> Box <input type="checkbox"/> Pipe Arch <input type="checkbox"/> Open Arch <input type="checkbox"/> Other	
			Entrance Type	<input type="checkbox"/> Projecting <input type="checkbox"/> Headwall <input type="checkbox"/> Mitered <input type="checkbox"/> Wingwall <input type="checkbox"/> Other	
		Is Culvert Deformed?	Deterioration	Baffles	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> None <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Present <input type="checkbox"/> Absent	
Culvert Bottom	<input type="checkbox"/> Closed <input type="checkbox"/> Open If Open, Dominant Substrate: _____		Variable Slope in Culvert	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Culvert Dimensions					
Culvert Measurements (m)	WIDTH	HEIGHT	Corrugation (cm)	WIDTH	HEIGHT
Additional Information					
Inflow Habitat Type	<input type="checkbox"/> Pool <input type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Drop			Beaver Dam Present	<input type="checkbox"/> Yes <input type="checkbox"/> No
Backwatered	<input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 100%			Fish Observed	<input type="checkbox"/> Upstream <input type="checkbox"/> Downstream
Embedment	<input type="checkbox"/> Embedded from Upstream <input type="checkbox"/> No Embedment <input type="checkbox"/> Embedded from Downstream <input type="checkbox"/> Fully Embedded			X-Sectional Degree of Embedment	<input type="checkbox"/> 0% <input type="checkbox"/> <20% <input type="checkbox"/> >20%
Length of Culvert with Embedment	<input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 100%				
Upstream of Culvert					
Elevations				Measurements	
	HI (m) (10 + change in tripod height)	FS (m) (survey rod reading)	Elevation (m) (HI - FS)	Water Depth at Inflow (cm)	Velocity (m/s)
				Stagnation Depth at Inflow (cm)	
Crest of Riffle Upstream				Upstream Riffle to Inflow Invert (m)	
Inflow				Culvert Length (m)	
Upstream Channel Slope (%)					
Downstream of Culvert					
Elevations				Measurements	
	HI (m) (10 + change in tripod height)	FS (m) (survey rod reading)	Elevation (m) (HI - FS)	Water Depth at Outflow (cm)	Velocity (m/s)
				Stagnation Depth at Outflow (cm)	
Outflow				Plunge Pool Bankfull Width (m)	
Plunge Pool Bottom				Outflow to Tailwater Control (m)	
Tailwater Control				Tailwater Control to 2nd Riffle Downstream (m)	
Crest of 2nd Riffle				Culvert Slope	
Pool Surface Elevation				Outflow Drop (cm)	
Downstream Channel Slope					
Tailwater Cross Section					
Widths	Elevations				Measurements
	Station	HI (m) (10 + change in tripod height)	FS (m) (survey rod reading)	Elevation (m) (HI - FS)	
Wetted Width (m)	1 (Left Bankfull)				
	2 (1/5 Bankfull Width)				
Bankfull Width (m)	3 (1/5 Bankfull Width)				
	4 (1/5 Bankfull Width)				
Bankfull Width / 5	5 (1/5 Bankfull Width)				
	6 (Right Bankfull)				

**Baffle Information (Complete if culvert is baffled)**

Baffle Height (cm)		Baffle Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Wood <input type="checkbox"/> Other		
Notch Depth (cm)		Baffle Type	<input type="checkbox"/> Straight <input type="checkbox"/> Diagonal <input type="checkbox"/> Right Angled <input type="checkbox"/> Other		
Notch Width (cm)		Notch Chutes	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Number of Baffles		Notch Chute Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Wood <input type="checkbox"/> Other		
Distance Between Baffles (m)		Elevations	HI (m)	FS (m)	Elevation (m)
Distance from Bottom Baffle to Outflow (m)			(10 + change in tripod height)	(survey rod reading)	(HI - FS)
		Most D/S Baffle			
		Adjacent U/S Baffle			
Drop Between Baffles (m)					

**Notes**

**Sketch**