

Culvert Hydraulic Report

STRUCTURE NO. _____ INSP. DATE: _____
 COUNTY: _____ SECTION: _____ TOWNSHIP: _____ RANGE: _____

359A TYPE OF CULVERT: BOX <input type="checkbox"/>	PIPE <input type="checkbox"/>	359B NUMBER OF BARRELS _____
359C SPAN _____ ft	359D RISE _____ ft	359E FILL _____ ft (TOP OF CULVERT TO CL GRADE) Y N
061 CHANNEL and CHANNEL PROT. _____ (0-9)	346 STREAM BED DEGRADATION <input type="checkbox"/>	<input type="checkbox"/>
062 OVERALL CULVERT CONDITION _____ (0-9)	347 NOTICEABLE CONTRACTION OF STREAM <input type="checkbox"/>	<input type="checkbox"/>
071 WATERWAY ADEQUACY _____ (0-9)	350 STREAM SHIFTED FROM CENTER <input type="checkbox"/>	<input type="checkbox"/>
326 EMBANKMENT EROSION _____ (0-9)	353 POTENTIAL DEBRIS UPSTREAM <input type="checkbox"/>	<input type="checkbox"/>
328 FLOWLINE DROP AT INLET _____ ft	355 STRUCTURE ALIGNMENT WITH FLOW _____ (0-9)	
329 FLOWLINE DROP AT OUTLET _____ ft	358 IS THERE A SCOUR PROBLEM <input type="checkbox"/>	<input type="checkbox"/>
330 SILT IN BARREL _____ ft	358C SCOUR PLAN OF ACTION EFFECTIVE DATE _____	

113 SCOUR CRITICAL RATING	
<input type="checkbox"/> 9 FOUNDATIONS SAFELY ABOVE FLOODWATER <input type="checkbox"/> 8 STABLE, FOUNDATIONS RESIST SCOUR <input type="checkbox"/> 7 SCOUR PROBLEM MITIGATED <input type="checkbox"/> 5 LOW RISK	<input type="checkbox"/> 4 ACTION REQUIRED <input type="checkbox"/> 3 UNSTABLE FOUNDATION <input type="checkbox"/> 2 UNSTABLE, EXTENSIVE SCOUR <input type="checkbox"/> 1 FAILURE IMMINENT, CLOSED
JUSTIFICATION: _____	

SOIL TYPE (PE Seal)

CHANNEL BANK: <input type="checkbox"/> SAND & GRAVEL	<input type="checkbox"/> SANDY SILT	<input type="checkbox"/> SILT	<input type="checkbox"/> SILTY-CLAY	<input type="checkbox"/> CLAY	<input type="checkbox"/> SHALE	<input type="checkbox"/> ROCK
CHANNEL BED: <input type="checkbox"/> SAND & GRAVEL	<input type="checkbox"/> SANDY SILT	<input type="checkbox"/> SILT	<input type="checkbox"/> SILTY-CLAY	<input type="checkbox"/> CLAY	<input type="checkbox"/> SHALE	<input type="checkbox"/> ROCK

CHANNEL EVOLUTION

STAGE

PREMODIFIED CONSTRUCTED DEGRADATION THRESHOLD AGGRADATION RESTABILIZATION

CHARACTERISTICS

HEAD-CUTTING STEEP BANKS BANK SEEPAGE ALTERNATE BARS MEANDERING VEGETATED BANKS

BANK FAILURE DUE TO: ROTATION POPOUT SLAB MOVEMENT SLOUGHING OTHER: _____

BANK BUFFER ZONE

LEFT BANK: _____ ft (width)	<input type="checkbox"/> TREE LINED	<input type="checkbox"/> GRASSED	<input type="checkbox"/> CULTIVATED	<input type="checkbox"/> OTHER: _____
RIGHT BANK: _____ ft (width)	<input type="checkbox"/> TREE LINED	<input type="checkbox"/> GRASSED	<input type="checkbox"/> CULTIVATED	<input type="checkbox"/> OTHER: _____

STRUCTURAL HYDRAULIC ASSESSMENT

HYDRAULIC STABILITY CATEGORY: STABLE LOW RISK SCOUR SUSCEPTIBLE SCOUR VULNERABLE SCOUR CRITICAL

CULVERT INFORMATION

INLET ELEVATION: _____ ft	OUTLET ELEVATION: _____ ft	ROAD GRADE ELEV.: _____ ft
Q ₁₀₀ BASE FLOOD: _____ cfs	HW DEPTH (US END): _____ ft	WATERWAY AREA: _____ ft ²
Q ₁₀₀ BRIDGE BASE FLOOD: _____ cfs	OVERTOPPING FLOOD: _____ cfs	OVERTOPPING FREQ.: _____ yr
FLOWLINE ELEV.: _____ ft	HIGH BANK ELEV.: _____ ft	LOW ROAD ELEV.: _____ ft
CHANNEL BOTTOM WIDTH: _____ ft	INLET CREST ELEV.: _____ ft	OUTLET APRON ELEV.: _____ ft
STREAM: _____	DRAINAGE AREA: _____ mi ²	

WRITTEN BY: _____	QC BY: _____	QA BY: _____
DATE: _____	DATE: _____	DATE: _____