General Permit Worksheet Culvert Placement on Navigable Waterways

This worksheet should be completed and accompany all application materials (Waterway General Permit Application and Approval - Form 3500-108) and any other additional support documents.

Project Start Date (mm/dd/yy):			
Be aware of the construction season prohibitions: (A construction waiver must be approved by the local fisheries biologist)		Trout waters and their tributaries: 9/15 - 5/15 Warmwater streams North of Hwy 29: 4/1 - 6/1 Warmwater streams South of Hwy 29: 3/15 - 5/15	
Will the proposed project affect the navigational use of the waterbody? If "Yes", the following portage will be provided (describe portage):			
may not exceed 20 squa		neral permit with a profes	esign, the required culvert area sionally engineered culvert design,
	W ₁ at ordinary high water (ft.) Height of ordinary high water above channel bottom W ₂ vidth at bottom (ft.)	made: channel width of water mark (W ₁), channel bottom (W ₂), and the heabove the stream bottom measurements are mathe stream: the location upstream from the crossing. The individual averaged to derive the	red culvert area, 3 measurements should be of the stream in feet at the ordinary high nel width of the stream in feet at the stream eight in feet of the ordinary high water om (H) (see diagram). These 3 de at each of 3 locations or transects along n of the proposed crossing, 100 feet sing, and 100 feet downstream from the al measurements of W ₁ , W ₂ and H are final W ₁ , W ₂ and H values. The required culated with the following equation:
Required Culvert area (square feet) = $H \times (W_{1}, W_{2})$			
Height: * W ₁	+ W ₂ = Culvert A	rea (square feet)	
Culvert area and corresp	onding round culvert size		
Culvert area (sq ft) 1.80 4.90 9.60 15.90 23.80	Culvert diameter (in.) 18 30 42 54 66	Culvert area (sq ft) 3.10 7.10 12.60 19.60	Culvert diameter (in.) 24 36 48 60
The following erosion co	ntrol measures will be employe	ed:	
Silt fence	Erosion Mat	Other	·
Seeding/Mulch	Riprap		