

WV SAVE OUR STREAMS ADVANCED SURVEY SUMMARY

Stream _____ Level _____ Date(s) _____
 Monitor(s) _____
 Directions _____ Start time _____
 _____ County _____
 RR Miles _____ Station _____
 Latitude [] [] [] Longitude [] [] [] Watershed _____
 VAD survey code _____

WATER CHEMISTRY

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)			Alkalinity			Fecal coliform/E-coli		
pH			Nitrate/Nitrite			Iron		
Conductivity			Phosphates			Aluminum		
Dissolved O ₂			Turbidity			Manganese		
Acidity			Other (describe)			Other (describe)		

Describe other conditions analyzed: _____

PHYSICAL CONDITIONS

Water clarity _____ Algae color _____
 Water color _____ Algae abundance _____
 Water/Sediment odor _____ Algae texture _____
 Streambed color _____ Surface foam _____
 Comments _____

Riffle width _____ Run width _____ Pool width _____ [] []
 Riffle depth _____ Run depth _____ Pool depth _____ Feet Meters
 Indicate units

Estimate [] Count [] Entire reach [] Riffles only []
 Silt/clay Sand Fine gravel Coarse gravel Cobble Boulder Bedrock Woody debris

Index	Woody debris adjustment	% Riffles	% Runs	% Pools
Pebble counts not collected []				

HABITAT CONDITIONS

Attachment sites		Channel flow status		Embeddedness	
Riffle frequency		Channel alterations		Bank veg. protection	
Velocity/depth		Sediment deposition		Bank stability	
Total Score		Channel shade		Riparian buffer width	
Integrity Rating					
Comments	_____				

BIOLOGICAL CONDITIONS

Richness		Composition		Tolerance	
Total Taxa		% EPT Abundance		Biotic Index	
EPT Taxa		% Dominance		% Tolerant	
Other aquatic organisms observed or collected (e.g., fish, salamanders etc.)				Stream Score	
				Integrity Rating	

Discharge (cfs) _____ Water level [] [] [] []
 Low Normal High No flow
 _____ Water level not indicated

Current/past weather conditions: _____

LAND USE IMPACTS: Indicate the types of land uses that affect your stream reach and their approximate location using the code: **(S)** streamside, **(M)** within ¼ mile, and **(W)** within the watershed. Also estimate the level of impact with the numeric codes **(1)** slight, **(2)** moderate, or **(3)** for high impacts.

	Impact	Location			Impact	Location
Single family residences			Trash dumps			
Sub-urban developments			Intensive feedlots			
Urban areas			Pastureland			
Industrial areas			Cropland			
Parking lots, malls etc.			Oil & gas wells			
Bridges			Logging			
Paved roads			Mountaintop mining			
Unpaved roads			Abandoned mining			
Active construction			Deep mining			
Parks, trails etc			Quarries			
Other recreation			Other (describe)			
Landfills						
Comments: _____					Pipes? <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

BENTHIC MACROINVERTEBRATES: Record the total number of each macroinvertebrate collected. Note: In the VAD they are recorded in three columns based upon their tolerance rating.

Low	Total	Moderate	Total	High	Total
Ameletidae (Ameletid minnow mayfly)		Baetidae (Small minnow mayfly)		Coenagrionidae (Narrow-wing damselfly)	
EphemereIIDae (Spiny-crawler mayfly)		Beatiscidae (Armored mayfly)		Lestidae (Spread-wing damselfly)	
Heptageniidae (Flatheaded mayfly)		Caenidae (Square-gilled mayfly)		Libellulidae (Skimmer dragonfly)	
Isonychiidae (Brush-legged mayfly)		Ephemeridae (Burrowing mayfly)		Chrysomelidae (Reed beetle)	
Leptophlebiidae (Prong-gilled mayfly)		Potamanthidae (Hackle-gilled mayfly)		Dytiscidae (Predacious diving beetle)	
Siphonuridae (Primitive minnow mayfly)		Tricorythidae (Stout-crawler mayfly)		Haliplidae (Crawling water beetle)	
Capniidae (Small winter stonefly)		Hydropsychidae (Common netspinner)		Hydrophilidae (Water scavenger beetle)	
Chloroperlidae (Green stonefly)		Hydroptilidae (Purse-case caddisfly)		Belostomatidae (Giant water bug)	
Leuctridae (Rolled-wing stonefly)		Molannidae (Hooded-case caddisfly)		Corixidae (Water boatman)	
Nemouridae (Little brown stonefly)		Phryganeidae (Giant-case caddisfly)		Gerridae/Velidae (Water striders)	
Perlidae (Common stonefly)		Polycentropodidae (Tube-net caddisfly)		Hydrometridae (Water measurer)	
Perlodidae (Patterned stonefly)		Psychomiidae (Trumpet-net caddisfly)		Nepidae (Water scorpion)	
Peltoperlidae (Roach-like stonefly)		Pyralidae (Aquatic moth)		Notonectidae (Backswimmer)	
Pteronarcyidae (Giant stonefly)		Calopterygidae (Broad-wing damselfly)		Ceratopogonidae (Biting midge)	
Taeniopterygidae (Large winter stonefly)		Gomphidae (Clubtail dragonfly)		Chironomidae (Non-biting midge)	
Brachycentridae (Humpless-case caddisfly)		Dryopidae (Long-toed beetle)		Culicidae (Mosquito)	
Glossosomatidae (Saddle-case caddisfly)		Elmidae (Riffle beetle)		Muscidae (Muscid fly)	
Goeridae (Goerid-case caddisfly)		Gyrinidae (Whirligig beetle)		Psychodidae (Moth fly)	
Helicopsychidae (Snail-case caddisfly)		Sialidae (Alderfly)		Ptychopteridae (Phantom crane fly)	
Lepidostomatidae (Case-maker caddisfly)		Entomobryidae (Springtail)		Stratiomyidae (Solider fly)	
Leptoceridae (Longhorn-case caddisfly)		Dixidae (Dixid midge)		Syrphidae (Rat-tailed maggot)	
Limnephilidae (Northern-case caddisfly)		Empididae (Dance fly)		Tabanidae (Horse fly)	
Philopotamidae (Finger-net caddisfly)		Simuliidae (Black fly)		Asellidae (Aquatic sowbug)	
Rhyacophilidae (Free-living caddisfly)		Tipulidae (Crane fly)		Ancylidae (Limpet snail)	
Uenoidae (Uenoid-case caddisfly)		Hydrachnidae (Water mites)		Physidae (Left-handed snail)	
Aeshnidae (Damner dragonfly)		Cambaridae (Crayfish)		Planorbidae (Orb snail)	
Cordulegastridae (Spiketail dragonfly)		Gammaridae (Sideswimmer)		Hirudinea (Leech)	
Psephenidae (Water penny)		Palaemonidae (Freshwater shrimp)		Nematoda (Round worm)	
Corydalidae (Hellgrammite/Fishfly)		Bithyniidae (Bithynid snail)		Nematomorpha (Horsehair worm)	
Athericidae (Watersnipe fly)		Pleuroceridae (Rock snail)		Oligochaeta (Aquatic worm)	
Blephariceridae (Net-wing midge)		Viviparidae (Viviparid snail)		Turbellaria (Flatworms)	
Hydrobiidae (Pebble snail)		Corbiculidae (Asian clam)		Tolerance unknown	
Unionidae (Mussel)		Sphaeriidae (Pea clam)		Hydrozoa (Freshwater jellyfish)	
				Neuroptera (Spongilliflies)	
				Spongilla (Freshwater sponge)	
Total (Low)		Total (Moderate)		Total (High)	