

WV SAVE OUR STREAMS ADVANCED SURVEY SUMMARY

Stream Yellow Run Level 3 Date(s) April 15, 2013  
 Monitor(s) Lehman, O'Brien, Oaks, and Dean  
 Direction Sheetz Parking lot at Route 522 and Route 9 Start time \_\_\_\_\_  
 County Morgan  
 RR Miles \_\_\_\_\_ Station Yellow Run  
 Latitude 

39	37	26
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 Longitude 

78	13	50
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 Watershed Warm Springs Run  
 Database 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 <sub>2</sub>			Total Dissolved Solids			Manganese		
Acidity			Turbidity			Other (describe below)		

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 \_\_\_\_\_ 

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 Riffle depth \_\_\_\_\_ Run depth \_\_\_\_\_ Pool depth \_\_\_\_\_ Feet Meters  
 Indicate units

Estimate 

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 Count 

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 Silt/clay Sand Fine gravel Coarse gravel Cobble Entire reach 

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 Riffles only 

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 Boulder Bedrock Woody debris

<b>Index</b>			Woody debris adjustment		% Riffles	% Runs	% Pools

**HABITAT CONDITIONS**

Attachment sites		Channel flow status		Embeddedness	
Riffle frequency		Channel alterations		Bank veg. protection	
Velocity/depth		Sediment		Bank stability	

<b>Total Score</b>		deposition		Riparian buffer width		
					Channel shade	
Integrity Rating						
Comments						

**BIOLOGICAL CONDITIONS**

<b>Richness</b>		<b>Composition</b>		<b>Tolerance</b>	
Total Taxa	3	% EPT Abundance	0	Biotic Index	8.77
EPT Taxa	0	% Dominance	95.9	% Tolerant	95.9
Other aquatic organisms observed or collected (e.g. fish, salamanders etc.), or additional comments:				<b>Stream Score</b>	<b>6.7 Poor</b>
				Integrity Rating	

Discharge (cfs)		Water level	Low	Normal	High	No flow

Current/past weather conditions: Cloudy 65 deg.

**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?  Yes  No

**BENTHIC MACROINVERTEBRATES:** Record the total number of each macroinvertebrate collected. Note: In the VAD the macroinvertebrates 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)	
Ephemerelellidae (Spiny-crawler mayfly)		Beatiscidae (Armored mayfly)		Lestidae (Spread-wing damselfly)	
Heptageniidae (Flatheaded mayfly)		Caenidae (Square-gilled mayfly)		Libellulidae (Skimmer dragonfly)	
Isonychiidae (Brush-legged mayfly)		Ephemeraidae (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/Veliidae (Water striders)	

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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)	118
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 (Soldier 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)	1	Hirudinea (Leech)	
Psephenidae (Water penny)	4	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)		<b>Tolerance unknown</b>	
Unionidae (Mussel)		Sphaeriidae (Pea clam)		Hydrozoa (Freshwater jellyfish)	
				Neuroptera (Spongilliflies)	
				Spongilla (Freshwater sponge)	