

Stream	Warm Springs Run		Level	2	Date(s)	9/14/12
Monitor(s)	Dean, Carnill, Benkendorf, O'Brien, Swaim, Reece, Lehman					
Directions	Intersection of Route 522 and Route 13		Start time	12:00 PM		
			County	Morgan		
			RR Miles	Station	Route 55 and 13	
Latitude	35.858	Longitude	78	14.575	Watershed	Warm Spring Run
			Database code			

WATER CHEMISTRY

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)	18	c	Alkalinity			Fecal coliform		
pH			Nitrate/Nitrite	0.1	ml	Iron		
Conductivity			Phosphates			Aluminum		
Dissolved O ₂	2.5	ppm	Total Dissolved Solids			Manganese		
Acidity			Turbidity	20	JTU	Other (describe below)		

Describe other conditions analyzed:

PHYSICAL CONDITIONS

Water	clear	Algae color	dark green
Water color	none	Algae abundance	Scattered
Water/Sedi	none none	Algae texture	even coating
Streambed	brown	Surface foam	none
Comments			

Riffle width	Run width	10	Pool width	
Riffle depth	Run depth	0.71	Pool depth	
			Feet	Meters
			yes	
			Indicate units	

Estimate	Count	yes	Entire reach	yes	Riffles only		
Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock	Woody debris
3	11	20	32	30	1	11	
Index					% Riffles	% Runs	% Pools
Comment:							

HABITAT CONDITIONS

Sediment deposition	8	Bank stability	1	1	C
					c
					m

Embeddedness	8	Bank veg. protection	10	1	m e n t s
Channel shade	40-60%	Riparian buffer width	4	1	
Total Score	34	Integrity Rating	poor		

BIOLOGICAL CONDITIONS

Richness		Composition		Tolerance	
Total Taxa	9	% EPT Abundance	41%	Biotic Index	4.43
EPT Taxa	3	% Dominance	34%	% Tolerant	.02%
				Stream Score	32
Other aquatic organisms observed or collected, or additional comments:				Integrity rating	Marginal

Discharge (cfs)	0.05					
Current/past weather conditions:	sunny, dry, seasonable temperature past 3 days clear mid 70 degrees.		Low	Normal yes	High	No flow
		Estimate water level				

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 1/4 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	1	m	Trash dumps		
Sub-urban developments	1	m	Intensive feedlots		
Urban areas			Pastureland		
Industrial areas			Cropland		
Parking lots, malls etc.	1	m	Oil & gas wells		
Bridges	1	s	Logging		
Paved roads	1	s	Mountaintop mining		
Unpaved roads			Abandoned mining		
Active construction			Deep mining		
Parks, trails etc			Quarries		
Other recreation			Other (describe)		
Landfills					
Comments: 1 sewer lid (round cap cover) Culvert no discharge and no odor			Pipes?	X	Yes No

BENTHIC MACROINVERTEBRATES: Record the total and taxa of each macroinvertebrate group collected. Note: In the VAD the macroinvertebrates are recorded in three columns based upon their tolerance using taxonomic names.

Macroinvertebrates collected	Total	Taxa	Macroinvertebrates collected	Total	Taxa
Ephemeroptera			Megaloptera		
M Minnow mayflies			M Alderfly		

WV SAVE OUR STREAMS LEVEL-TWO SURVEY SUMMARY

L	Brush-legged mayfly			L	Hellgrammite/Fishfly		
L	Flatheaded mayfly	5	1	Miscellaneous Insects			
L	Spinv-crawler mayfly			M	Springtails		
M	Stout-crawler mayflies			M	Aquatic moths		
M	Burrowing mayflies			Diptera			
Plecoptera				H	Non-biting midge	1	1
L	Patterned stoneflies			M	Black fly		
L	Brown stonefly			M	Crane fly		
L	Roach-like stonefly			L	Watersnipe fly		
L	Giant stonefly			M	Dance fly		
L	Small winter stoneflies			L	Net-wing midge		
L	Winter stonefly			M	Dixid midge		
Trichoptera				H	Other true flies		
M	Common netspinner	6	1	Crustacea			
L	Net-spinning caddisflies	6	1	H	Aquatic sowbug		
L	Free-living caddisfly			M	Crabfish	7	1
L	Case-building caddisflies			M	Scud/Sideswimmer		
Odonata				Mollusca			
M	Dragonflies			M	Operculate snails		
H	Damselflies			H	Non-operculate snails		
Coleoptera and Hemiptera				M	Clams		
M	Riffle beetle	14	1	L	Mussels		
L	Water penny	1	1	Annelida and Platyhelminthes			
M	Whirligig beetle			H	Aquatic worms	1	1
M	Long-toed beetle			H	Leeches		
H	Other beetles and True			H	Flatworms		
Totals				Totals			
3 horsehair worms				(L) Low (M) Moderate (H) High			
Other aquatic invertebrates:				0 1 2 3 4 5 6 7 8 9 10			

Discuss present and future treats or provide any additional comments: _____
