

YANKRU01

LOCATION: Approximately 25 yards upstream of Devils Hole Road.

Latitude 41° 07' 40.90"

Longitude -75° 20' 36.90"

FIELD CHEMISTRY:

SITE ID	SAMPLE DATE	TEMP C	SpC mScm	DO mg/l	pH su	ORP mV	DO % sat.	COND mS/cm	TDS mg/l
YANKRU01	4/12/03	10.64	534	10.60	7.10	246	95.50	388	347
YANKRU01	5/18/03	12.76	403	10.03	6.96	355	94.80	308	262
YANKRU01	6/15/03	12.92	428	10.44	7.08	280	99.00	329	278
YANKRU01	7/19/03	13.58	416	10.77	7.10	335	103.70	326	271
YANKRU01	8/11/03	13.56	398	10.16	7.38	307	97.70	311	258
YANKRU01	9/16/03	13.81	284	10.55	7.46	349	102.00	232	184
YANKRU01	10/17/03	9.40	378	11.42	7.68	294	99.90	265	245
YANKRU01	11/12/03	9.43	367	10.88	7.51	379	95.20	258	239
YANKRU01	1/29/04	2.57	378	12.30	8.03	331	90.50	216	246
YANKRU01	2/23/04	5.63	381	12.09	7.58	300	96.30	240	247
YANKRU01	3/11/04	7.96	548	11.51	8.52	339	97.20	369	356
wshed min.		0.01	29	5.42	5.47	46	57.70	1	19
wshed max.		26.25	548	14.37	8.99	561	113.10	388	356
wshed avg.		10.04	146	10.97	7.50	304	96.14	104	95

Temperatures that exceed Specific Water Quality Criteria in Chapter 93 of Title 25 of the PA Code are shown in red. SpC is specific conductance. DO is dissolved oxygen. ORP is oxidation reduction potential. COND is conductivity. TDS is total dissolved solids. Refer to Sampling and Analysis Plan under Phase I study results for quality assurance/quality control information.

LABORATORY DATA:

SITE ID	SAMPLE DATE	pH	NITRATE	NITRITE	TOTAL SUPSENDED	TOTAL PHOSPHORUS	FECAL COLIFORM
		su	mg/l	mg/l	SOLIDS mg/l	mg/l	CFU/100ml
YANKRU01	8/11/03	8.19	0.69	0.01	1.2	0.14	105
Wshed min		5.47	0.10	0.005	1.0	0.01	0
Wshed max		8.19	1.51	0.050	13.0	0.90	5700
Wshed avg		6.85	0.50	0.019	2.7	0.11	

If the number of sample results where the analytical parameter was not detected exceeded 20% of the sample pool, they were not included in the calculated watershed average. If the number of non-detect samples was less than 20% of the sample pool, ½ of the detection limit was used to represent those samples in the calculated watershed average. Refer to Sampling and Analysis Plan under Phase I of study results for quality assurance/quality control information.

BENTHIC MACROINVERTEBRATES:

This site was added through the generosity of the Monroe County Planning Commission in 2003 for the first time. The score of 29 was considered “Optimal” and the site has not been resurveyed.

The range 35 - 29 is considered optimal. The range 28 - 14 is the slightly to moderately impaired category, and any site with a total score of less than 14 is considered severely impaired.

HABITAT ANALYSIS 2003

YANKRU01	192	Optimal	Greater than 50% mix of boulder, cobble, or other stable habitat. No channelization or dredging present. Only 3 of the 4 velocity/depth regimes present.
----------	-----	---------	--

MACROINVERTEBRATE IDENTIFICATIONS

2003 MONROE COUNTY WATER QUALITY STUDY

SITE ID: YANKRU01

Insecta		Philopotamidae		Simuliidae	1
Ephemeroptera		Polycentropodidae		Tabanidae	2
Baetidae	34	Psychomyiidae		Dixidae	
Baetiscidae		Beraeidae		Collembola	
Caenidae		Brachycentridae	2	Poduridae	
Ephemerellidae		Lepidostomatidae		Nemertea	
Ephemeridae		Helicopsychidae		Nematoda	
Heptageniidae		Leptoceridae		Nematomorpha	
Leptophlebiidae	3	Limnephilidae		Annelida	
Metretopodidae		Molannidae		Hirudinea	
Neophemeridae		Odontoceridae	3	Oligochaeta	
Oligoneuriidae		Phryganeidae		Lumbriculida	
Polymitarcyidae		Sericostomatidae		Lumbriculidae	
Potamanthidae		Uenoidae		Tubificida	
Siphonuridae		Glossosomatidae		Platyhelminthes	
Tricorythidae		Hydroptilidae		Turbellaria	
Odonata		Rhyacophilidae	2	Planariidae	
Aeshnidae		Lepidoptera		Mollusca	
Cordulegastridae		Pyralidae		Bivalva	
Corduliidae		Coleoptera		Unionidae	
Gomphidae		Dytiscidae		Sphaeriidae	
Libellulidae		Gyrinidae		Cyrenidae	
Macromiidae		Haliplidae		Corbiculidae	
Calopterygidae		Noteridae		Gastropoda	
Coenagrionidae		Elmidae	23	Ancylidae	
Lestidae		Hydraenidae		Physidae	
Plecoptera		Hydrophilidae		Planorbidae	
Capniidae		Limnichidae		Bulimidae	
Chloroperlidae	1	Psephenidae		Limnaeidae	
Leuctridae		Ptilodactylidae		Crustacea	

Nemouridae		Megaloptera		Amphipoda	
Peltoperlidae	13	Corydalidae		Gammaridae	
Perlidae		Sialidae		Talitridae	
Perlodidae	7	Neuroptera		Isopoda	
Pteronarcyidae	8	Sisyridae		Asellidae	2
Taeniopterygidae		Diptera		Decapoda	
Hemiptera		Ephydriidae		Cambaridae	1
Belostomatidae		Athericidae		Arachnidia	
Corixidae		Tipulidae	2	Acari	
Gerridae		Empididae		Hydrachnidia	
Mesoveliidae		Blephariceridae			
Notonectidae		Ceratopogonidae			
Saldidae		Chaoboridae			
Veliidae		Chironomidae	11		
Trichoptera		Culicidae			
Hydropsychidae	5	Muscidae			

Pebble Count (Cross Section)

YANKRU01

Material	Size Range (mm)		Particle Count	Cumulative Percent
silt/clay	0	0.062	0	0%
very fine sand	0.062	0.13	1	1%
fine sand	0.13	0.25	0	1%
medium sand	0.25	0.5	2	3%
coarse sand	0.5	1	1	4%
very coarse sand	1	2	0	4%
very fine gravel	2	4	0	4%
fine gravel	4	6	2	6%
fine gravel	6	8	3	9%
medium gravel	8	11	4	13%
medium gravel	11	16	9	22%
coarse gravel	16	22	6	28%
coarse gravel	22	32	8	36%
very coarse gravel	32	45	8	44%
very coarse gravel	45	64	9	53%
small cobble	64	90	12	65%
medium cobble	90	128	7	72%
large cobble	128	180	7	79%
very large cobble	180	256	7	86%
small boulder	256	362	6	92%
small boulder	362	512	4	96%
medium boulder	512	1024	4	100%
large - very large boulder	1024	2048	0	100%
bedrock	2048	4096	0	100%
Total Particle Count:			100	

