TANKCR01

LOCATION: Approximately 50 yards downstream of Devils Hole Road.
Latitude 41° 08’ 07.70”
Longitude -75° 20’ 20.90”

FIELD CHEMISTRY:

SITE ID	SAMPLE	TEMP	SpC	DO	pH	ORP	DO	COND	TDS
	DATE	C	mScm	mg/l	su	mV	% sat.	mS/cm	mg/l
TANKCR01	4/12/03	9.26	89	10.79	6.70	315	93.90	62	58
TANKCR01	5/18/03	11.15	85	10.29	6.65	372	93.60	63	55
TANKCR01	6/15/03	12.68	79	10.48	6.80	301	98.70	60	51
TANKCR01	7/19/03	12.84	86	10.79	6.66	348	102.00	66	56
TANKCR01	8/11/03	12.95	76	10.28	7.15	321	97.40	59	50
TANKCR01	9/16/03	14.10	54	10.26	7.27	356	99.70	43	35
TANKCR01	10/17/03	8.74	80	11.67	7.27	334	100.30	55	52
TANKCR01	11/24/03	7.96	79	11.32	7.34	294	95.50	53	51
TANKCR01	1/29/04	1.76	87	12.57	8.46	286	90.30	48	57
TANKCR01	2/23/04	4.26	91	12.58	7.91	280	96.60	55	59
TANKCR01	3/11/04	7.06	83	11.73	8.63	313	96.80	54	54
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
TANKCR01	8/11/03	6.64	1.42	0.01	<1.0	0.08	140
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 33 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

TANKCR01	181	Suboptimal	Condition of banks moderately stable. 5 - 30% of the bottom affected by sediment deposition. Width of riparian zone 12-18 meters.

MACROINVERTEBRATE IDENTIFICATIONS

2003 MONROE COUNTY WATER QUALITY STUDY SITE ID: TANKCR01

Insecta		Philopotamidae	5	Simuliidae	1
Ephemeroptera		Polycentropodidae		Tabanidae	
Baetidae	17	Psychomyiidae		Dixidae	
Baetiscidae		Beraeidae		Collembola	
Caenidae		Brachycentridae	1	Poduridae	
Ephemerellidae	5	Lepidostomatidae		Nemertea	
Ephemeridae		Helicopsychidae		Nematoda	
Heptageniidae	19	Leptoceridae		Nematomorpha	
Leptophlebiidae	8	Limnephilidae	1	Annelida	
Metretopodidae		Molannidae		Hirudinea	
Neoephemeridae		Odontoceridae		Oligochaeta	
Oligoneuriidae		Phryganeidae		Lumbriculida	
Polymitarcyidae		Sericostomatidae		Lumbriculidae	
Potamanthidae		Uenoidae		Tubificida	
Siphlonuridae		Glossosomatidae		Platyhelminthes	
Tricorythidae		Hydroptilidae	21	Turbellaria	
Odonata		Rhyacophilidae		Planariidae	
Aeshnidae		Lepidoptera		Mollusca	
Cordulegastridae		Pyralidae		Bivalva	
Corduliidae		Coleoptera		Unionidae	
Gomphidae		Dytiscidae		Sphaeriidae	
Libellulidae		Gyrinidae		Cyrenidae	
Macromiidae		Haliplidae		Corbiculidae	
Calopterygidae		Noteridae		Gastropoda	
Coenagrionidae		Elmidae	1	Ancylidae	
Lestidae		Hydraenidae		Physidae	
Plecoptera		Hydrophilidae		Planorbidae	
Capniidae		Limnichidae		Bulimidae	
Chloroperlidae	28	Psephenidae		Limnaeidae	
Leuctridae	6	Ptilodactylidae		Crustacea	

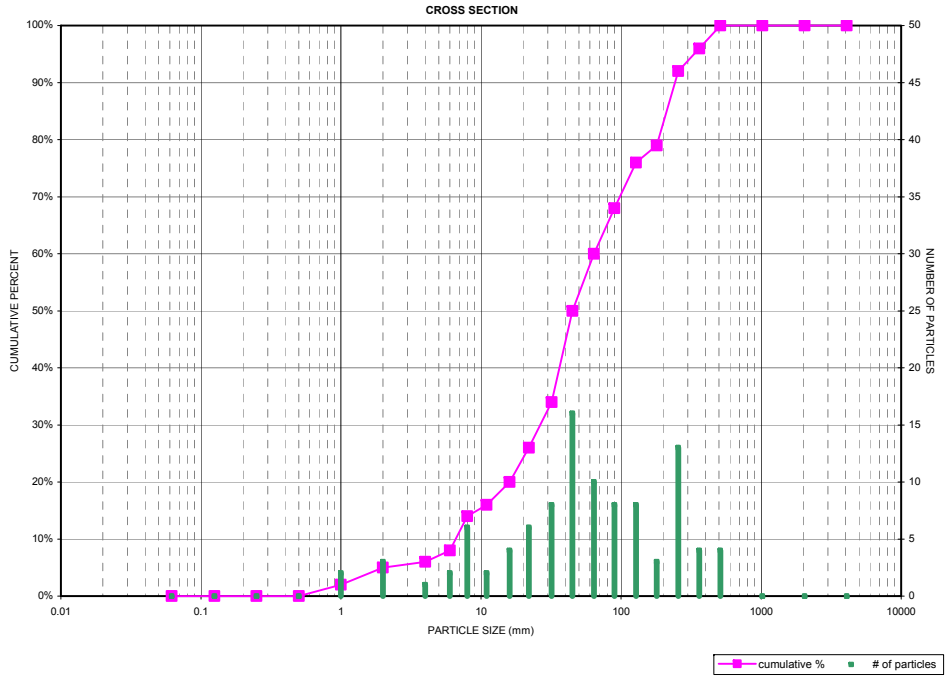
Nemouridae		Megaloptera		Amphipoda	
Peltoperlidae	27	Corydalidae		Gammaridae	
Perlidae		Sialidae		Talitridae	
Perlodidae	5	Neuroptera		Isopoda	
Pteronarcyidae		Sisyridae		Asellidae	
Taeniopterygidae		Diptera		Decapoda	
Hemiptera		Ephydridae		Cambaridae	
Belostomatidae		Athericidae		Arachnidia	
Corixidae		Tipulidae	9	Acari	
Gerridae		Empididae		Hydrachnidia	
Mesoveliidae		Blephariceridae			
Notonectidae		Ceratopogonidae			
Saldidae		Chaoboridae			
Veliidae		Chironomidae	29		
Trichoptera		Culicidae			
Hydropsychidae	10	Muscidae			

2003

Pebble Count (Cross Section)

TANKCR01

Material	Size Range (mm)		Particle Count	Cumulative Percent
silt/clay	0	0.062	**0**	0%
very fine sand	0.062	0.13	**0**	0%
fine sand	0.13	0.25	**0**	0%
medium sand	0.25	0.5	**0**	0%
coarse sand	0.5	1	**2**	2%
very coarse sand	1	2	**3**	5%
very fine gravel	2	4	**1**	6%
fine gravel	4	6	**2**	8%
fine gravel	6	8	**6**	14%
medium gravel	8	11	**2**	16%
medium gravel	11	16	**4**	20%
coarse gravel	16	22	**6**	26%
coarse gravel	22	32	**8**	34%
very coarse gravel	32	45	**16**	50%
very coarse gravel	45	64	**10**	60%
small cobble	64	90	**8**	68%
medium cobble	90	128	**8**	76%
large cobble	128	180	**3**	79%
very large cobble	180	256	**13**	92%
small boulder	256	362	**4**	96%
small boulder	362	512	**4**	100%
medium boulder	512	1024	**0**	100%
large - very large boulder	1024	2048	**0**	100%
bedrock	2048	4096	**0**	100%
Total Particle Count:			100	



size percent less than (mm)						particle size distribution		
D16	D35	D50	D65	D84	D95	gradation	geo mean	std dev
11.000	32.69	45.0	79	206	332	4.3	47.6	4.3