

PARACR06

LOCATION: Approximately 50 yards downstream of Paradise Township Park.

Latitude 41° 07' 23.00"

Longitude -75° 17' 10.90"

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
PARACR06	4/12/03	9.05	127	11.20	7.17	251	97.00	89	83
PARACR06	5/7/03	10.88	105	7.11	7.56	252	64.30	77	69
PARACR06	6/15/03	14.75	100	10.29	7.32	254	101.50	80	65
PARACR06	7/20/03	17.28	94	10.57	7.66	265	110.00	80	61
PARACR06	8/13/03	15.99	95	10.06	7.33	344	101.90	78	62
PARACR06	9/30/03	11.17	89	11.17	7.53	355	101.70	66	58
PARACR06	10/21/03	11.46	92	10.60	7.59	341	97.10	68	60
PARACR06	11/30/03	6.22	75	12.29	7.95	277	99.30	48	49
PARACR06	12/13/03	3.83	76	12.74	7.58	295	96.80	45	49
PARACR06	1/26/04	0.01	88	12.46	8.69	395	85.20	46	57
PARACR06	2/23/04	2.59	103	13.75	8.31	246	101.10	59	67
PARACR06	3/11/04	6.00	120	12.27	8.90	308	98.60	76	78
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
PARACR06	8/13/03	6.93	0.10	0.01	<1.0	<0.02	14
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

PARACR06	202	Optimal	Greater than 50% mix of boulder, cobble, submerged logs or other stable habitat. All four velocity/depth regimes present. Occurrence of riffles relatively frequent.
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MACROINVERTEBRATE IDENTIFICATIONS

2003 MONROE COUNTY WATER QUALITY STUDY

SITE ID: PARACR06

Insecta		Philopotamidae	11	Simuliidae	2
Ephemeroptera		Polycentropodidae	17	Tabanidae	
Baetidae	27	Psychomyiidae		Dixidae	
Baetiscidae		Beraeidae		Collembola	
Caenidae		Brachycentridae	8	Poduridae	
Ephemerellidae	3	Lepidostomatidae		Nemertea	
Ephemeridae		Helicopsychidae		Nematoda	
Heptageniidae	3	Leptoceridae		Nematomorpha	
Leptophlebiidae		Limnephilidae		Annelida	
Metretopodidae		Molannidae		Hirudinea	
Neophemeridae		Odontoceridae		Oligochaeta	
Oligoneuriidae		Phryganeidae		Lumbriculida	
Polymitarcyidae		Sericostomatidae		Lumbriculidae	1
Potamanthidae		Uenoidae	1	Tubificida	
Siphonuridae		Glossosomatidae		Platyhelminthes	
Tricorythidae		Hydroptilidae	12	Turbellaria	
Odonata		Rhyacophilidae	1	Planariidae	
Aeshnidae		Lepidoptera		Mollusca	
Cordulegastridae		Pyralidae		Bivalva	
Corduliidae		Coleoptera		Unionidae	
Gomphidae	3	Dytiscidae		Sphaeriidae	4
Libellulidae		Gyrinidae		Cyrenidae	
Macromiidae		Haliplidae		Corbiculidae	
Calopterygidae		Noteridae		Gastropoda	
Coenagrionidae		Elmidae	3	Ancylidae	
Lestidae		Hydraenidae		Physidae	
Plecoptera		Hydrophilidae		Planorbidae	
Capniidae		Limnichidae		Bulimidae	
Chloroperlidae	5	Psephenidae	1	Limnaeidae	
Leuctridae	10	Ptilodactylidae		Crustacea	

Nemouridae		Megaloptera		Amphipoda	
Peltoperlidae		Corydalidae	4	Gammaridae	
Perlidae	1	Sialidae		Talitridae	
Perlodidae		Neuroptera		Isopoda	
Pteronarcyidae		Sisyridae		Asellidae	
Taeniopterygidae		Diptera		Decapoda	
Hemiptera		Ephydriidae		Cambaridae	
Belostomatidae		Athericidae		Arachnidia	
Corixidae		Tipulidae	11	Acari	
Gerridae		Empididae		Hydrachnidia	
Mesoveliidae		Blephariceridae			
Notonectidae		Ceratopogonidae			
Saldidae		Chaoboridae			
Veliidae		Chironomidae	107		
Trichoptera		Culicidae			
Hydropsychidae	12	Muscidae			

Pebble Count (Cross Section)

PARACR06

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	0	0%
very coarse sand	1	2	0	0%
very fine gravel	2	4	2	2%
fine gravel	4	6	0	2%
fine gravel	6	8	0	2%
medium gravel	8	11	1	3%
medium gravel	11	16	3	6%
coarse gravel	16	22	4	10%
coarse gravel	22	32	5	15%
very coarse gravel	32	45	10	25%
very coarse gravel	45	64	23	48%
small cobble	64	90	23	71%
medium cobble	90	128	11	82%
large cobble	128	180	5	87%
very large cobble	180	256	8	95%
small boulder	256	362	2	97%
small boulder	362	512	2	99%
medium boulder	512	1024	1	100%
large - very large boulder	1024	2048	0	100%
bedrock	2048	4096	0	100%
Total Particle Count:			100	

