

CONESTOGA RIVER BASIN

01576528 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR WILLOW STREET, PA

LOCATION.--Lat 39°59'49", long 76°15'20", Lancaster County, Hydrologic Unit 02050306, 100 ft below pond, 0.7 mi northwest of Lampeter, and 1.5 mi northeast of Willow Street.

DRAINAGE AREA.--1.21 mi².

PERIOD OF RECORD.--September 1993 to current year.

REMARKS.--Land surface elevation is 325 ft, from topographic map.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CONDUCTANCE (µS/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L) (00623)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)
MAY 1999											
11...	1045	80020	1028	.49	12.6	8.2	582	16.6	.088	.50	.75
11...	1130	80020	1028	--	--	--	--	--	--	--	--
SEP											
08...	1040	80020	1028	.14	5.9	7.4	660	21.1	.115	.52	.96
08...	1100	80020	1028	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (AS P) (00666)	PHOS-PHORUS TOTAL (MG/L) (AS P) (00665)	TURBIDITY (NTU) (00076)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M ²) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M ²) (70958)	PERI-PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI-PHYTON BIOMASS DRY WEIGHT (G/SQ M) (00573)	SEDIMENT, SUSPENDED (MG/L) (80154)
MAY 1999										
11...	7.16	.064	.041	.088	4.5	--	--	--	--	14
11...	--	--	--	--	--	106	7.40	555.1	597.2	--
SEP										
08...	5.07	.083	.377	.489	3.3	--	--	--	--	10
08...	--	--	--	--	--	38.2	5.00	503.6	530.0	--

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BIOLOGICAL DATA, MAY AND SEPTEMBER 1999
BENTHIC MACROINVERTEBRATES

REMARKS.--Rapid bioassessments for benthic macroinvertebrates were conducted in May and September 1999. Samples represent counts per 200-organism (approximate) subsamples.

Benthic Macroinvertebrate	May 1999	Sept. 1999
Platyhelminthes	--	--
Turbellaria (FLATWORMS)	--	--
Tricladida	--	--
Planariidae	3	2
Annelida	--	--
Oligochaeta (AQUATIC EARTHWORMS)	--	--
Haplotaxida	--	--
Enchytraeidae	--	1
Tubificidae	27	5
<u>Aulodrilus</u> sp	--	1
<u>Limnodrilus hoffmeisteri</u>	--	1
Naididae	--	--
<u>Nais bretscheri</u>	82	--
<u>Nais</u> sp	33	--
<u>Ophidonais serpentina</u>	16	--
<u>Pristinella</u> sp	--	1
Hirudinea (LEECHES)	--	--
Rhynchobdellida	--	--
Glossiphoniidae	--	--
<u>Helobdella elongata</u>	--	1
Mollusca	--	--
Gastropoda (SNAILS)	--	--
Basommatophora	--	--
Physidae	--	--
<u>Physa</u> sp	--	20
Lymnaeidae	--	--
<u>Fossaria</u> sp	--	2
<u>Pseudosuccinea columella</u>	--	4
Arthropoda	--	--
Crustacea	--	--
Copepoda (COPEPODS)	4	--
Isopoda (AQUATIC SOWBUGS)	--	--
Asellidae	--	--
<u>Caecidotea</u> sp	1	2
Amphipoda (SCUDS)	--	--
Talitridae	--	--
<u>Hyalolella azteca</u>	--	2
Gammaridae	--	--
<u>Gammarus pseudolimnaeus</u>	--	8
<u>Gammarus</u> sp	8	--
Arachnoidea	--	--
Hydracarina (WATER MITES)	--	--
Lebertiidae	--	--
<u>Lebertia</u> sp	--	1
Insecta	--	--
Ephemeroptera (MAYFLIES)	--	--
Caenidae	--	--
<u>Caenis</u> sp	--	1
Siphonuridae	--	--
<u>Siphonurus</u> sp	--	19
Odonata	--	--
Coenagrionidae (DAMSELFLIES)	--	--
<u>Enallagma</u> sp	--	41
Aeshnidae	--	--
<u>Boyeria</u> sp	--	1
Hemiptera (TRUE BUGS)	--	--
Corixidae (WATER BOATMEN)	--	10
<u>Sigara</u> sp	--	6

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BIOLOGICAL DATA, MAY AND SEPTEMBER 1999
BENTHIC MACROINVERTEBRATES--Continued

Benthic Macroinvertebrate	May 1999	Sept. 1999
Coleoptera (BEETLES)	--	--
Dryopidae	--	--
<i>Helichus</i> sp	--	1
Dytiscidae (PREDACEOUS DIVING BEETLES)	--	--
<i>Agabus</i> sp	2	--
Hydrophilidae (WATER SCAVENGER BEETLES)	--	2
<i>Helochares</i> sp	--	5
<i>Hydrochus</i> sp	--	1
<i>Tropisternus</i> sp	--	1
Scirtidae	--	--
<i>Elodes</i> sp	--	2
Elmidae	4	--
<i>Dubiraphia</i> sp	3	2
<i>Optioservus ovalis</i>	1	--
<i>Optioservus</i> sp	3	2
<i>Stenelmis</i> sp	1	3
Trichoptera (CADDIS FLIES)	--	--
Hydroptilidae	--	--
<i>Hydroptila</i> sp	1	--
Diptera	--	--
Culicidae	--	--
Culicinae (MOSQUITOES)	--	--
<i>Aedes</i> sp	--	1
<i>Anopheles</i> sp	--	3
Ceratopogonidae (BITING MIDGES)	--	--
<i>Bezzia/Palpomyia</i> sp	--	1
<i>Probezzia</i> sp	--	1
Simuliidae (BLACK FLIES)	--	--
<i>Simulium venustum</i>	4	--
Chironomidae (MIDGES)	--	--
Tanypodinae	--	--
<i>Ablabesmyia</i> sp	--	2
<i>Clinotanytus</i> sp	--	6
<i>Procladius</i> sp	--	31
<i>Tanytus</i> sp	--	1
<i>Thienemannimyia gr</i> sp	--	4
<i>Zavreliomyia</i> sp	--	2
Orthoclaadiinae	--	1
<i>Acricotopus</i> sp	2	--
<i>Cricotopus trifascia gr</i>	--	1
<i>Orthocladus obumbratus</i>	1	--
<i>Orthocladus</i> sp	2	--
<i>Parakiefferiella</i> sp	--	3
<i>Stilocladus</i> sp	1	--
<i>Thienemanniella</i> sp	1	--
Chironominae	--	--
<i>Chironomus</i> sp	--	3
<i>Cryptochironomus</i> sp	--	1
<i>Dicrotendipes</i> sp	1	--
<i>Micropsectra</i> sp	4	2
<i>Polypedilum convictum</i>	--	1
<i>Rheotanytarsus</i> sp	--	4
Total organisms	205	216