



Water-Data Report 2008

014806215 BUCK RUN AT SADBURYVILLE NEAR PARKESBURG, PA

Lower Delaware Basin
Brandywine-Christina Subbasin

LOCATION.--Lat 39°58'36", long 75°54'10" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205.

DRAINAGE AREA.--4.50 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2007 to current year.

REMARKS.--Samples were collected as part of the Chester County Biological Monitoring project.

COOPERATION.--Samples were collected with cooperation from the Chester County Water Resources Agency.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std (00400)	pH, water, unfltrd lab, std (00403)	Specific conductance, wat unf lab, μS/cm 25 degC (90095)	Specific conductance, wat unf lab, μS/cm 25 degC (00095)	Temperature, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf infl pt titr., mg/L as CaCO3 (00419)
Nov 14...	1100	3.1	12.0	7.0	7.3	266	268	9.0	18.6	8.74	3.36	13.6	34

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate, water, fltrd, mg/L (00945)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrate + nitrite, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Boron, water, fltrd, μg/L (01020)	Iron, water, fltrd, μg/L (01046)	1,4-Dichlorobenzene, water, fltrd, μg/L (34572)	1-Methylnaphthalene, water, fltrd, μg/L (62054)	2,6-Dimethylnaphthalene, water, fltrd, μg/L (62055)
Nov 14...	34.1	<.12	13.5	17.2	<.020	4.57	.004	.008	9.9	58	<.1	<.1	<.1

014806215 BUCK RUN AT SADBURYVILLE NEAR PARKESBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	2-Methyl-naphthalene, water, fltrd, µg/L (62056)	3-beta-Coprostanol, water, fltrd, µg/L (62057)	3-Methyl-1H-indole, water, fltrd, µg/L (62058)	3-tert-Butyl-4-hydroxyanisole, wat flt µg/L (62059)	4-Cumyl-phenol, water, fltrd, µg/L (62060)	4-n-Octyl-phenol, water, fltrd, µg/L (62061)	4-Nonyl-phenol, all isomers, wat flt µg/L (62085)	4-Nonyl-phenol di-ethoxylate, wat flt µg/L (62083)	4t-Octylphenol di-ethoxylate, wat flt µg/L (61705)	4t-Octylphenol mono-ethoxylate, wat flt µg/L (61706)	4-tert-Octyl-phenol, water, fltrd, µg/L (62062)	5-Methyl-1H-benzotriazole, wat flt µg/L (62063)	9,10-Anthraquinone, water, fltrd, µg/L (62066)
Nov 14...	<.1	<1	<.08	<.6	<.1	<.16	<1	<5	<1	<1	<1	<.08	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Acetophenone, water, fltrd, µg/L (62064)	AHTN, water, fltrd, µg/L (62065)	Anthracene, water, fltrd, µg/L (34221)	Benzo[a]pyrene, water, fltrd, µg/L (34248)	Benzo-phenone, water, fltrd, µg/L (62067)	beta-Sitosterol, water, fltrd, µg/L (62068)	beta-Stigmas tanol, water, fltrd, µg/L (62086)	Bisphenol A, water, fltrd, µg/L (62069)	Bisphenol A-d3, 2033 & 8033, wat flt pct rcv (99583)	Bromocil, water, fltrd, µg/L (04029)	Tri-bromomethane, water, fltrd, µg/L (34288)	Caffeine, water, fltrd, µg/L (50305)	Caffeine-13C, 2033 & 8033, wat flt pct rcv (99584)
Nov 14...	<.1	<.5	<.1	<.1	<.1	<2	<1	<.4	15.2	<.4	<.1	M	81.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

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Date	Camphor, water, fltrd, µg/L (62070)	Carbaryl, water, fltrd, 0.7u GF µg/L (82680)	Carbazole, water, fltrd, µg/L (62071)	Chlorpyrifos, water, fltrd, µg/L (38933)	Cholesterol, water, fltrd, µg/L (62072)	Cotinine, water, fltrd, µg/L (62005)	DecaFluorobiphenyl, 2033 & 8033, wat flt pct rcv (99585)	DEET, water, fltrd, µg/L (62082)	Diazinon, water, fltrd, µg/L (39572)	D-Limonene, water, fltrd, µg/L (62073)	Fluoranthene, water, fltrd, µg/L (34377)	Fluoranthene-d10, 20/8033, wat flt pct rcv (99586)	HHCB, water, fltrd, µg/L (62075)
Nov 14...	M	<1	<.1	<.1	<1	<.400	50.1	<.1	<.1	<.04	<.1	80.3	<.5

014806215 BUCK RUN AT SADBURYVILLE NEAR PARKESBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Indole, water, fltrd, µg/L (62076)	Isobor- neol, water, fltrd, µg/L (62077)	Iso- phorone water, fltrd, µg/L (34409)	Iso- propyl- benzene water, fltrd, µg/L (62078)	Iso- quin- oline, water, fltrd, µg/L (62079)	Menthol water, fltrd, µg/L (62080)	Meta- laxyl, water, fltrd, µg/L (50359)	Methyl salicy- late, water, fltrd, µg/L (62081)	Metola- chlor, water, fltrd, µg/L (39415)	Naphth- alene, water, fltrd, µg/L (34443)	p- Cresol, water, fltrd, µg/L (62084)	Penta- chloro- phenol, water, fltrd, µg/L (34459)	Phenan- threne, water, fltrd, µg/L (34462)
Nov 14...	<.1	<.1	<.1	<.1	<.2	<.2	<.1	M	M	<.1	<.18	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 7

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Date	Phenol, water, fltrd, µg/L (34466)	Prome- ton, water, fltrd, µg/L (04037)	Pyrene, water, fltrd, µg/L (34470)	Tetra- chloro- ethene, water, fltrd, µg/L (34476)	Tri- butyl phos- phate, water, fltrd, µg/L (62089)	Triclo- san, water, fltrd, µg/L (62090)	Tri- ethyl citrate water, fltrd, µg/L (62091)	Tri- phenyl phos- phate, water, fltrd, µg/L (62092)	Tris(2- butoxy- ethyl) phos- phate, wat flt µg/L (62093)	Tris(2- chloro- ethyl) phos- phate, wat flt µg/L (62087)	Tris(di chloro- i-Pr) phos- phate, wat flt µg/L (62088)
Nov 14...	<.2	<.2	<.1	<.1	<.2	<.2	<.2	<.1	<.4	<.1	<.1

014806215 BUCK RUN AT SADBURYVILLE NEAR PARKESBURG, PA—Continued**ECOLOGICAL RECORDS**

PERIOD OF RECORD.--October 2007 to current year.

REMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 mm. Three samples were collected and composited.

Date	11/14/07
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	1
Mollusca	
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	
<i>Sphaerium</i>	1
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Naididae	2
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	5
Crustacea	
Decapoda	
Cambaridae (CRAYFISH)	3
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Acentrella</i>	7
<i>Baetis</i>	5
<i>Cloeon</i>	1
Ephemerellidae	
<i>Eurylophella</i>	4
<i>Serratella</i>	52
Heptageniidae	
<i>Maccaffertium</i>	96
Isonychiidae	
<i>Isonychia</i>	72
Leptophlebiidae	
<i>Paraleptophlebia</i>	8
Plecoptera (STONEFLIES)	
Perlidae	
<i>Acroneuria</i>	3
<i>Agnatina</i>	17

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Date	Count
Benthic Macroinvertebrate	Count
Megaloptera	
Corydalidae (FISHFLIES AND DOBSONFLIES)	
<i>Nigronia</i>	2
Trichoptera (CADDISFLIES)	
Glossosomatidae	
<i>Glossosoma</i>	25
Hydropsychidae	
<i>Cheumatopsyche</i>	270
<i>Hydropsyche</i>	602
Hydroptilidae	
<i>Hydroptila</i>	5
Leptoceridae	
<i>Oecetis</i>	1
Philopotamidae	
<i>Chimarra</i>	435
<i>Dolophilodes</i>	1
Polycentropodidae	
<i>Polycentropus</i>	5
Rhyacophilidae	
<i>Rhyacophila</i>	1
Uenoidae	
<i>Neophylax</i>	6
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Ancyronyx</i>	2
<i>Macronychus</i>	1
<i>Optioservus</i>	125
<i>Oulimnius</i>	52
<i>Stenelmis</i>	98
Psephenidae (WATER PENNIES)	
<i>Psephenus</i>	48
Diptera (TRUE FLIES)	
Ceratopogonidae (BITING MIDGES)	
<i>Probezzia</i>	1
Chironomidae (MIDGES)	875
Empididae (DANCE FLIES)	
<i>Chelifera</i>	6
<i>Hemerodromia</i>	40
Simuliidae (BLACK FLIES)	
<i>Simulium</i>	3
Tipulidae (CRANE FLIES)	
<i>Antocha</i>	44
<i>Dicranota</i>	3

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Date	11/14/07
Benthic Macroinvertebrate	Count
Total Organisms	2928
