

014807434 UNNAMED TRIBUTARY TO BEAVER CREEK RESERVOIR AT REECEVILLE, PA

Lower Delaware Basin
Brandywine-Christina Subbasin

LOCATION.--Lat 40°02'01", long 75°47'16" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205, 150 ft upstream of Beaver Creek Reservoir, 4.3 mi north of Coatesville.

DRAINAGE AREA.--0.12 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2005; December 2012.

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

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Chester County Water Resources Authority.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 1 of 10

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, unfiltered, mg/L (00300)	pH, unfiltered, field, standard units (00400)	pH, unfiltered, laboratory, standard units (00403)	Specific conductance, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, unfiltered, water, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery (99584)	Decafluoro biphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery (99585)
12-03-2012	1230	0.07	12.9	8.1	8.1	454	448	11.3	76.0	34.5

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 2 of 10

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Date	Sample start time	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery (99586)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint titration, (pH 4.5) laboratory, mg/L as CaCO ₃ (90410)	ANC, water, unfiltered, inflection-point, titration method, field, mg/L as CaCO ₃ (00419)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)
12-03-2012	1230	76.6	43.7	13.4	4.36	22.3	87.0	92	60.6	0.07

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 10

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N		Nitrate plus nitrite, water, filtered, mg/L as N		Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)
				(00625)	(00608)	(00631)	(00613)		
12-03-2012	1230	7.16	28.1	0.42	< .010	3.21	0.014	0.007	0.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 10

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Date	Sample start time	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)	Boron, water, filtered, µg/L (01020)	1,4-Dichlorobenzene, water, filtered, recoverable, µg/L (34572)	Bromacil, water, filtered, recoverable, µg/L (04029)	Camphor, water, filtered, recoverable, µg/L (62070)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	Diazinon, water, filtered, recoverable, µg/L (39572)

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 10

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Date	Sample start time	Metalaxyl, water, filtered, recoverable, µg/L (50359)	Metolachlor, water, filtered, recoverable, µg/L (39415)	DEET, water, filtered, recoverable, µg/L (62082)	p-Cresol, water, filtered, recoverable, µg/L (62084)	Prometon, water, filtered, recoverable, µg/L (04037)	1-Methylnaphthalene, water, filtered, recoverable, µg/L (62054)	2,6-Dimethylnaphthalene, water, filtered, recoverable, µg/L (62055)	2-Methylnaphthalene, water, filtered, recoverable, µg/L (62056)	3-beta-Coprosanol, water, filtered, recoverable, µg/L (62057)

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 10

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	3-Methyl-1H-indole,	4-Cumyl-phenol,	4-n-Octyl-phenol,	4-Nonyl-phenol (sum of all isomers),	4-Nonyl-phenol diethoxylate (sum of all isomers),	4-tert-Octyl-phenol diethoxylate,	4-tert-Octyl-phenol,	5-Methyl-1H-benzotriazole,	9,10-Anthraquinone,
		water, filtered, recoverable, µg/L (62058)	water, filtered, recoverable, µg/L (62060)	water, filtered, recoverable, µg/L (62061)	water, filtered, recoverable, µg/L (62085)	water, filtered, recoverable, µg/L (62083)	water, filtered, recoverable, µg/L (61705)	water, filtered, recoverable, µg/L (62062)	water, filtered, recoverable, µg/L (62063)	water, filtered, recoverable, µg/L (62066)
12-03-2012	1230	< .036	< .060	< .06	< 2	< 5.0	< 1.0	< .14	< 1.2	< .16

WATER-QUALITY DATA
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Part 7 of 10

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Date	Sample start time	Acetyl hexamethyl tetrahydro naphthalene,	Anthracene,	Benzo[a]pyrene,	Benzo-phenone,	beta-Sitosterol,	beta-Stigmasterol,	Caffeine,	Cholesterol,	
		water, filtered, recoverable, µg/L (62064)	water, filtered, recoverable, µg/L (34221)	water, filtered, recoverable, µg/L (34248)	water, filtered, recoverable, µg/L (62067)	water, filtered, recoverable, µg/L (62068)	water, filtered, recoverable, µg/L (62086)	water, filtered, recoverable, µg/L (50305)	water, filtered, recoverable, µg/L (62072)	
12-03-2012	1230	< .4	< .028	< .010	< .06	0.07	E 1	< 2.6	0.02	E .4

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 8 of 10

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Cotinine, water, filtered, recoverable, µg/L (62005)	D-Limonene, water, filtered, recoverable, µg/L (62073)	Fluoranthene, water, filtered, recoverable, µg/L (34377)	Hexahydrohexamethylcyclopentabenzopyran, water, filtered, recoverable, µg/L (62075)	Indole, water, filtered, recoverable, µg/L (62076)	Isoborneol, water, filtered, recoverable, µg/L (62077)	Isophorone, water, filtered, recoverable, µg/L (34409)	Isopropylbenzene, water, filtered, recoverable, µg/L (62078)	Isoquinoline, water, filtered, recoverable, µg/L (62079)
12-03-2012	1230	< .800	< .08	< .024	< .052	< .08	< .08	0.006	< .30	< .046

WATER-QUALITY DATA
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Part 9 of 10

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Date	Sample start time	Menthol, water, filtered, recoverable, µg/L (62080)	Methylsalicylate, water, filtered, recoverable, µg/L (62081)	Naphthalene, water, filtered, recoverable, µg/L (34443)	Phenanthrene, water, filtered, recoverable, µg/L (34462)	Phenol, water, filtered, recoverable, µg/L (34466)	Pyrene, water, filtered, recoverable, µg/L (34470)	Tetra-chloroethene, water, filtered, recoverable, µg/L (34476)	Tribromomethane, water, filtered, recoverable, µg/L (34288)	Tributyl phosphate, water, filtered, recoverable, µg/L (62089)
12-03-2012	1230	< .32	0.008	< .040	0.008	< .16	< .042	< .12	< .10	< .16

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Date	Sample start time	Triclosan, water, filtered, recover- able, μg/L (62090)	Triethyl citrate, water, filtered, recover- able, μg/L (62091)	Triphenyl phosphate, water, filtered, recover- able, μg/L (62092)	Tris(2- butoxy- ethyl) phosphate, water, filtered, recover- able, μg/L (62093)	Tris(2- chloro- ethyl) phosphate, water, filtered, recover- able, μg/L (62087)	Tris(di- chloroiso- propyl) phosphate, water, filtered, recover- able, μg/L (62088)
12-03-2012	1230	< .20	< .16	< .12	< .8	< .10	< .16

014807434 UNNAMED TRIBUTARY TO BEAVER CREEK RESERVOIR AT REECEVILLE, PA—Continued**ECOLOGICAL RECORDS**

PERIOD OF RECORD.--November 2005; December 2012.

REMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 mm. Each sample covered a total area of 2.4 m².

Date	12/03/12
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	15
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Physidae	1
Bivalvia (CLAMS)	
Pisidiidae	6
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Enchytraeidae	11
Naididae	173
Arthropoda	
Acariformes	
Hydrachnidae (WATER MITES)	9
Crustacea	
Copepoda	25
Amphipoda (SCUDS)	
Crangonyctidae	
<i>Stygonectes</i>	1

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Date	12/03/12
Benthic Macroinvertebrate	Count
Podocopa (SEED SHRIMP)	2
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	26
Ephemerellidae	
<i>Eurylophella</i>	19
Heptageniidae	
<i>Maccaffertium</i>	51
Leptophlebiidae	
<i>Habrophlebiodes</i>	1
Odonata (DRAGONFLIES AND DAMSELFLIES)	
Calopterygidae	
<i>Calopteryx</i>	1
Plecoptera (STONEFLIES)	
Capniidae	
<i>Allocapnia</i>	93
Nemouridae	3
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Cheumatopsyche</i>	110
<i>Diplectrona</i>	32
<i>Hydropsyche</i>	2
Leptoceridae	
<i>Mystacides</i>	1
Psychomyiidae	
<i>Lype</i>	1

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Date	12/03/12
Benthic Macroinvertebrate	Count
Uenoidae	
<i>Neophylax</i>	2
Coleoptera (BEETLES)	
Dytiscidae	2
Elmidae (RIFFLE BEETLES)	
<i>Dubiraphia</i>	1
<i>Optioservus</i>	105
<i>Stenelmis</i>	8
Psephenidae (WATER PENNIES)	
<i>Ectopria</i>	11
Diptera (TRUE FLIES)	
Ceratopogonidae (BITING MIDGES)	12
Chironomidae (MIDGES)	562
Empididae (DANCE FLIES)	
<i>Chelifera</i>	1
Simuliidae (BLACK FLIES)	
<i>Prosimulium</i>	1
<i>Simulium</i>	41
Tipulidae (CRANE FLIES)	
<i>Antocha</i>	17
<i>Dicranota</i>	14
<i>Tipula</i>	9
Total Organisms	1369