



Water-Data Report 2008

400045075490201 Local number CH 4230

Piedmont and Blue Ridge crystalline-rock aquifers
Felsic Gneiss, Amphibolite Facies
Chester County, PA

LOCATION.--Lat 40°00'45", long 75°49'02" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 190 ft. Upper casing diameter 6 in; top of first opening 56 ft, bottom of last opening 0 ft.

DATUM.--Land-surface datum is 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: 1.00 ft above land-surface datum, Sep. 18, 2008, to present.

COOPERATION.--Well located and sampled by the U.S. Geological Survey in cooperation with the Chester County Water Resources Authority and Chester County Health Department.

REMARKS.--Well-water sample collected as part of the Chester County Groundwater-Quality Monitoring program. Five wells were sampled in residential areas with on-site waste-water disposal.

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

Part 1 of 9

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

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate, instantaneous gal/min (00059)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	pH, unfltrd lab, std units (00403)	Specific conductance, wat unfltrd lab, 25 degC (90095)	Specific conductance, wat unfltrd lab, 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)
Sep 18...	0900	34.57	8.0	765	9.3	90	5.9	6.3	460	450	15.5	13.3	41.9

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

Part 2 of 9

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Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd pt, titr., mg/L as CaCO3 (00419)	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)	Organic carbon, water, unfltrd, mg/L (00680)
Sep 18...	14.4	3.62	14.1	24	102	<.12	19.2	22.1	<.020	1.86	<.002	.024	.8

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 9

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Date	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)	Lithium water, fltrd, µg/L (01130)	Mangan- ese, water, fltrd, µg/L (01056)	1,4-Di- chloro- benzene water, fltrd, µg/L (34572)	1,7-Di- methyl- Xan- thine, water, fltrd, µg/L (62030)	1- Methyl- naphth- alene, water, fltrd, µg/L (62054)	2,6-Di- methyl- naphth- alene, water, fltrd, µg/L (62055)	2- Methyl- naphth- alene, water, fltrd, µg/L (62056)	3-beta- Copros- tanol, water, fltrd, µg/L (62057)	3- Methyl- 1H- indole, water, fltrd, µg/L (62058)	3-tert- Butyl- 4-hy- droxy- anisole wat flt µg/L (62059)
Sep 18...	E.04	18	8	2	1.4	<.1	<.100	<.1	<.1	<.1	<.1	<.08	<.6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 9

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Date	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- ethox- ylate, wat flt µg/L (62083)	4t-Octy lphenol di- ethox- ylate, wat flt µg/L (61705)	4t-Octy lphenol mono- ethox- ylate, wat flt µg/L (61706)	4-tert- Octyl- phenol, water, fltrd, µg/L (62062)	5-Meth- yl-1H- benzo- azole, tri- azole, wat flt µg/L (62063)	9,10- Anthra- quinone water, fltrd, µg/L (62066)	Acet- amino- phen, water, fltrd, µg/L (62000)	Aceto- phenone water, fltrd, µg/L (62064)	AHTN, water, fltrd, µg/L (62065)	Albut- erol, water, fltrd, µg/L (62020)
Sep 18...	<.1	<.16	<.1	<.5	<.1	<.1	<.1	<.08	<.2	<.080	<.4	<.5	<.040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 9

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Date	Anthra- cene, water, fltrd, µg/L (34221)	Benzo- [a]- pyrene, water, fltrd, µg/L (34248)	Benzo- phenone water, fltrd, µg/L (62067)	beta- Sitos- terol, water, fltrd, µg/L (62068)	beta- Stigmas- tanol, water, fltrd, µg/L (62086)	Bisphen ol A-d3 sur Sch 2033 & 8033, wat flt % recvy (99583)	Broma- cil, water, fltrd, µg/L (04029)	Caf- feine, water, fltrd, µg/L (50305)	Caffe- ine-13C sur Sch 2033 & 8033, wat flt % recvy (99584)	Camphor water, fltrd, µg/L (62070)	Carbam- azepine water, fltrd, µg/L (62793)	Carba- maze- pine- -d10, surrog, wat flt % recvy (90797)	Car- baryl, water, fltrd 0.7u GF µg/L (82680)
Sep 18...	<.1	<.1	<.1	<.2	<.1	.0	<.4	<.1	84.2	<.1	<.040	110	<.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 9

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Date	Carba- zole, water, fltrd, µg/L (62071)	Chlor- pyrifos water, fltrd, µg/L (38933)	Choles- terol, water, fltrd, µg/L (62072)	Codeine water, fltrd, µg/L (62003)	Cot- inine, water, fltrd, µg/L (62005)	DecaF- biphen- sur Sch 2033 & 8033, wat flt % recvy (99585)	DEET, water, fltrd, µg/L (62082)	De- hydro- nife- dipine, water, fltrd, µg/L (62004)	Diazi- non, water, fltrd, µg/L (39572)	Diltia- zem, water, fltrd, µg/L (62008)	Diphen- hydra- mine, water, fltrd, µg/L (62796)	D-Limo- nene, water, fltrd, µg/L (62073)	Ethyl nico- tinate- d4, surrog, wat flt % recvy (99571)
Sep 18...	<.1	<.1	<1	<.040	<.026	31.9	M	<.060	<.1	<.040	<.050	<.04	87.7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 9

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Date	Fluor- anthene water, fltrd, µg/L (34377)	Fluor- anthene -d10, sur Sch 20/8033 wat flt % recvy (99586)	HHCB, water, fltrd, µg/L (62075)	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)
Sep 18...	<.1	84.2	<.5	<.1	<.1	M	<.1	<.2	<.2	<.1	<.1	<.1	<.1

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Part 8 of 9

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Date	p- Cresol, water, fltrd, µg/L (62084)	Phenan- threne, water, fltrd, µg/L (34462)	Phenol, water, fltrd, µg/L (34466)	Prome- ton, water, fltrd, µg/L (04037)	Pyrene, water, fltrd, µg/L (34470)	Sulfa- methox- azole, water, fltrd, µg/L (62021)	Tetra- chloro- ethene, water, fltrd, µg/L (34476)	Thiaben- dazole, water, fltrd, µg/L (62801)	Tri- bromo- methane water, fltrd, µg/L (34288)	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- meth- oprim, water, fltrd, µg/L (62023)
Sep 18...	<.18	<.1	<.2	<.2	<.1	<.100	<.1	<.100	<.1	<.2	<.2	<.2	<.040

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Date	Tri-phenyl phosphate, water, fltrd, $\mu\text{g/L}$ (62092)	Tris(2-butoxyethyl) phosphate, wat flt $\mu\text{g/L}$ (62093)	Tris(2-chloroethyl) phosphate, wat flt $\mu\text{g/L}$ (62087)	Tris(di-chloro-i-Pr) phosphate, wat flt $\mu\text{g/L}$ (62088)	Warfarin, water, fltrd, $\mu\text{g/L}$ (62024)
Sep					
18...	<.1	<.4	<.1	<.1	<.060