



Water-Data Report 2009

400556075420301 Local number CH 5444

Undefined Aquifer
 Graphitic Gneiss, Amphibolite Facies
 Chester County, PA

LOCATION.--Lat 40°05'55.6", long 75°42'03.4" referenced to North American Datum of 1983, Chester County, PA, Hydrologic Unit 02040205.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 125 ft. Upper casing diameter 6 in; top of first opening 100 ft, bottom of last opening 125 ft.

DATUM.--Land-surface datum is 519 ft above National Geodetic Vertical Datum of 1929. Measuring point: MP IS TOC IS 1.83 FT ABOVE LSD, 1.83 ft above land-surface datum, Oct. 2, 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 2008 TO SEPTEMBER 2009**

Part 1 of 8

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Depth to water level, feet below LSD (72019)	Dis- solved oxygen, of sat- uration mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	Flow rate, instan- taneous gal/min (00059)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, μS/cm @ 25 degC (90095)	Specif- ic conduc- tance, wat unf lab, μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Bisphen- ol A-d3 sur Sch 2033 & 8033, wat flt % recvy (99583)
Oct 02...	1235	755	16.0	17.79	8.1	77	5.8	6.3	6.7	177	175	13.3	.0

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 8

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Date	Caffe- ine-13C sur Sch 2033 & 8033, wat flt % recvy (99584)	DecaF- biphenl sur Sch 2033 & 8033, wat flt % recvy (99585)	Fluor- anthene -d10, sur Sch 20/8033 wat flt % recvy (99586)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf infl pt field, mg/L as CaCO3 (00419)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, 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)
Oct 02...	81.0	39.4	86.2	14.3	6.42	1.43	7.35	27	15.5	<.08	27.5	4.85	<.020

400556075420301 Local number CH 5444—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 8

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Date	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, µg/L (01046)	Lithium, water, fltrd, µg/L (01130)	Manganese, water, fltrd, µg/L (01056)	Arsenic, water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	1,4-Dichloro-benzene, water, fltrd, µg/L (34572)	Bromacil, water, fltrd, µg/L (04029)	Camphor, water, fltrd, µg/L (62070)	Carbaryl, water, fltrd, 0.7µ GF (82680)	Carbazole, water, fltrd, µg/L (62071)
Oct 02...	4.82	<.002	.029	13	2	.8	<.06	2.1	M	<1.0	<.1	<1	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 8

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Date	Chlorpyrifos water, fltrd, µg/L (38933)	DEET, water, fltrd, µg/L (62082)	Diazinon, water, fltrd, µg/L (39572)	Metolaxyl, water, fltrd, µg/L (50359)	Metolachlor, water, fltrd, µg/L (39415)	p-Cresol, water, fltrd, µg/L (62084)	Prometon, water, fltrd, µg/L (04037)	1-Methylnaphthalene, water, fltrd, µg/L (62054)	2,6-Dimethylnaphthalene, water, fltrd, µg/L (62055)	2-Methylnaphthalene, water, fltrd, µg/L (62056)	3-beta-Coprosanol, water, fltrd, µg/L (62057)	3-Methyl-1H-indole, water, fltrd, µg/L (62058)	3-tert-Butyl-4-hydroxyanisole, water, fltrd, µg/L (62059)
Oct 02...	<.1	M	<.1	<.1	<.1	<.18	<.2	<.04	<.1	<.04	<2	<.04	<.6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 8

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Date	4-Cumylphenol, water, fltrd, µg/L (62060)	4-n-Octylphenol, water, fltrd, µg/L (62061)	4-Nonylphenol, all isomers, wat flt, µg/L (62085)	4-Nonylphenol diethoxylate, wat flt, µg/L (62083)	4t-Octylphenol diethoxylate, wat flt, µg/L (61705)	4t-Octylphenol monoethoxylate, wat flt, µg/L (61706)	4-tert-Octylphenol, water, fltrd, µg/L (62062)	5-Methyl-1H-benzotriazole, wat flt, µg/L (62063)	9,10-Anthraquinone, water, fltrd, µg/L (62066)	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)
Oct 02...	<.1	<.16	<2	<5	<1	<1	<1	<2	<.2	<.4	<.5	<.04	<.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 8

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Date	Benzo-phenone water, fltrd, µg/L (62067)	beta-Sitos-terol, water, fltrd, µg/L (62068)	beta-Stigmas-tanol, water, fltrd, µg/L (62086)	Caf-feine, water, fltrd, µg/L (50305)	Choles-terol, water, fltrd, µg/L (62072)	Cot-inine, water, fltrd, µg/L (62005)	D-Limo-nene, water, fltrd, µg/L (62073)	Fluor-anthene water, fltrd, µg/L (34377)	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)
Oct 02...	<.1	<4	<2	<.1	<2	<.400	<.1	<.04	<.5	<.1	<.2	<.1	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 8

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Date	Iso-quin-oline, water, fltrd, µg/L (62079)	Menthol water, fltrd, µg/L (62080)	Methyl salicy-late, water, fltrd, µg/L (62081)	Naphth-alene, water, fltrd, µg/L (34443)	Organic carbon, water, unfltrd mg/L (00680)	Phenan-threne, water, fltrd, µg/L (34462)	Phenol, water, fltrd, µg/L (34466)	Pyrene, water, fltrd, µg/L (34470)	Tetra-chloro-ethene, water, fltrd, µg/L (34476)	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)
Oct 02...	<.4	<.4	<.1	<.04	E.5	<.04	<1.4	<.04	<.1	<.1	<.2	<.2	<.4

WATER-QUALITY DATA
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Part 8 of 8

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Date	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)
Oct 02...	<.1	<.8	<.1	<.1