

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
CHESTER COUNTY GROUND-WATER-QUALITY MONITORING PROGRAM**

Ground-water samples were collected from selected wells in Chester County in August through November 2003 as part of the Chester County Ground-Water-Quality Monitoring Program. The monitoring program began in 1980 with objectives that include providing data on ground-water quality (1) near suspected sources of contamination; (2) in areas of different land use or different underlying geology; (3) for specific contaminants or constituents countywide; and (4) in watersheds as part of a regional assessment. Samples typically are collected each summer. In water years 2003 and 2004, 12 of a total of 17 wells sampled in the county were in the Delaware River Basin. Other data for this project can be found in the annual Water Data Report PA-04-2 (Susquehanna and Potomac River Basins). For additional information, contact Lisa Senior at the U.S. Geological Survey, Suite 116, 770 Pennsylvania Drive, Exton, PA 19341; 610-647-9008; (email lasenior@usgs.gov).

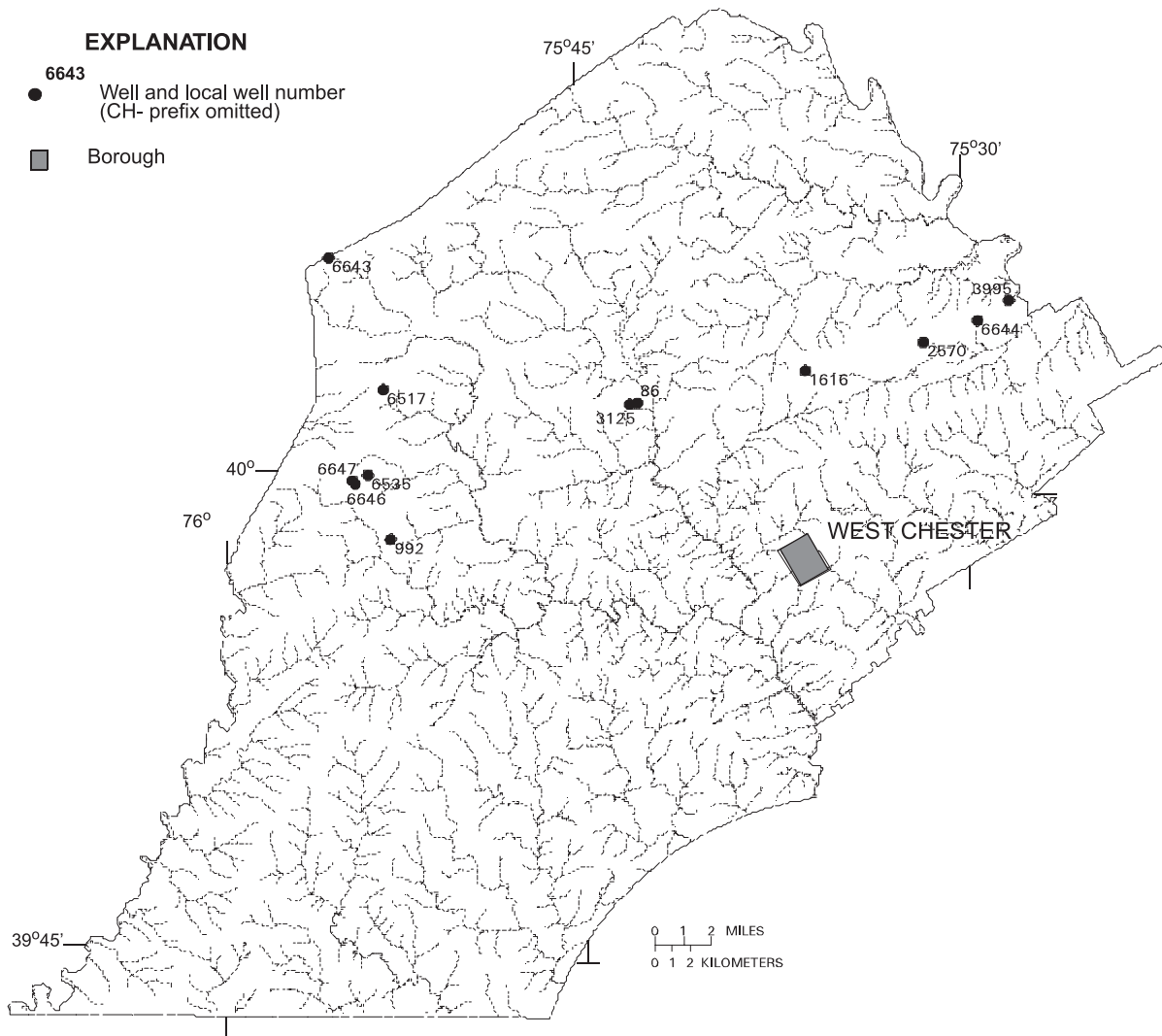


Figure 18.--Locations of selected wells sampled as part of the Chester County ground-water-quality monitoring program.

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REMARKS.--Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods.

WATER-QUALITY DATA, WATER YEARS OCTOBER 2002 TO SEPTEMBER 2004

Local well number	Station number	Latitude	Longitude	Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)
CH 86	400227075430801	40 02 27 N	075 43 08 W	11-05-03	0920	1028	80020	300	--
CH 992	395808075530301	39 58 08 N	075 53 03 W	08-19-03	1300	1028	80020	125	23.60
CH 1616	400329075362201	40 03 29 N	075 36 22 W	08-19-03	0950	1028	80020	130	34.61
CH 2570	400424075313601	40 04 24 N	075 31 36 W	08-27-03	1200	1028	80020	250	78.70
CH 3125	400224075432701	40 02 24 N	075 43 27 W	10-28-03	1000	1028	80020	103	--
CH 3995	400543075281001	40 05 43 N	075 28 10 W	09-02-03	1300	1028	80020	150	--
CH 6517	400247075532401	40 02 47 N	075 53 24 W	11-04-03	0900	1028	80020	--	62.49
CH 6535	400008075535901	40 00 08 N	075 53 59 W	08-20-03	1240	1028	80020	89	44.35
CH 6643	400652075554001	40 06 52 N	075 55 40 W	08-25-03	1140	1028	80020	300	--
CH 6646	395957075543601	39 59 57 N	075 54 35 W	08-13-03	1030	1028	80020	--	55.33
CH 6647	395951075543001	39 59 51 N	075 54 30 W	08-20-03	1020	1028	80020	200	66.24
CH 6644	400505075292401	40 05 05 N	075 29 24 W	08-28-03	1420	1028	80020	120	--

Local well number	Date	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd, field, units (00400)	pH, water, unfltrd, lab, std units (00403)	Specif. conductance, wat unfltrd, µS/cm 25 degC (90095)	Specif. conductance, wat unfltrd, µS/cm 25 degC (00095)
CH 86	11-05-03	535	--	--	750	8.4	78	4.2	4.3	236	237
CH 992	08-19-03	615	2.5	58	748	1.7	17	5.4	5.8	431	470
CH 1616	08-19-03	615	3.0	74	750	9.5	92	5.3	5.6	239	253
CH 2570	08-27-03	360	2.5	114	750	6.8	69	5.9	5.9	273	307
CH 3125	10-28-03	580	5.0	62	745	6.3	60	5.3	5.3	244	265
CH 3995	09-02-03	340	2.0	57	754	9.7	91	5.7	E6.4	102	102
CH 6517	11-04-03	940	5.5	71	740	10.3	94	5.2	5.7	24	23
CH 6535	08-20-03	760	.25	--	745	1.1	12	5.8	6.1	60	70
CH 6643	08-25-03	880	1.0	--	739	8.3	82	6.0	6.1	68	68
CH 6646	08-13-03	800	3.0	--	748	9.2	93	4.8	4.8	98	95
CH 6647	08-20-03	830	4.0	--	745	5.8	57	5.3	5.7	73	81
CH 6644	08-28-03	560	2.0	--	748	9.3	97	4.3	4.2	184	136

Local well number	Date	Temperature, air, deg C (00020)	Temperature, water, 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)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
CH 86	11-05-03	17.5	12.0	5.81	4.21	1.80	23.1	40.2	.3	6.1	46.8
CH 992	08-19-03	29.5	13.4	26.0	11.3	6.02	38.5	54.2	<.2	7.7	22.7
CH 1616	08-19-03	21.0	13.1	8.46	5.48	1.31	28.5	48.6	<.2	5.2	21.2
CH 2570	08-27-03	28.0	14.8	14.5	13.3	4.09	14.8	67.5	<.2	18.5	.7
CH 3125	10-28-03	9.0	12.5	5.88	4.10	3.56	26.4	26.6	.3	5.7	45.5
CH 3995	09-02-03	20.5	12.0	9.02	3.22	2.02	4.31	13.8	<.2	17.0	2.7
CH 6517	11-04-03	16.5	11.2	.17	.482	1.48	2.29	3.23	<.2	9.5	<.2
CH 6535	08-20-03	28.0	17.8	2.72	1.97	2.12	4.18	6.91	<.2	6.2	<.2
CH 6643	08-25-03	24.5	13.0	6.90	1.64	2.70	2.90	3.56	<.2	14.9	.6
CH 6646	08-13-03	26.0	14.6	3.53	3.22	1.62	6.49	17.7	<.2	7.0	5.7
CH 6647	08-20-03	26.5	13.5	1.07	1.99	1.83	8.38	9.91	<.2	6.3	2.6
CH 6644	08-28-03	28.0	16.1	5.02	4.10	1.64	13.4	32.1	.3	5.7	36.2

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WATER-QUALITY DATA, WATER YEARS OCTOBER 2002 TO SEPTEMBER 2004

Local well number	Date	Nitrite + Ammonia water, fltrd, mg/L as N		Nitrite water, fltrd, mg/L as N	Ortho-phosphate, water, fltrd, mg/L as P	Arsenic water, fltrd, µg/L	Boron, water, fltrd, µg/L	Iron, water, fltrd, µg/L	Lead, water, fltrd, µg/L	Lead, water, recoverable, unfltrd, µg/L	Manganese, water, fltrd, µg/L
		(00608)	(00631)	(00613)	(00671)	(01000)	(01020)	(01046)	(01049)	(01051)	(01056)
CH 86	11-05-03	<.04	.96	<.008	<.02	E.1	29	6	.97	5.00	71.8
CH 992	08-19-03	1.00	21.2	E.006	E.01	<.3	127	E5	.34	.34	477
CH 1616	08-19-03	<.04	1.84	<.008	<.02	<.3	20	E7	1.49	1.92	70.2
CH 2570	08-27-03	E.03	1.37	.009	<.02	<.3	19	2550	.40	1.47	102
CH 3125	10-28-03	5.08	3.69	.014	<.02	E.1	2950	492	1.91	2.06	36.8
CH 3995	09-02-03	<.04	1.70	<.008	E.01	<.3	11	10	1.05	1.87	12.0
CH 6517	11-04-03	<.04	.06	<.008	<.02	<.2	E5.5	E4	1.96	1.95	2.4
CH 6535	08-20-03	.30	.52	.008	<.02	<.3	<7.0	4420	.40	1.14	163
CH 6643	08-25-03	<.04	1.33	<.008	.19	<.3	9.7	15	.24	.29	6.0
CH 6646	08-13-03	<.04	1.46	<.008	<.18	<.3	12	44	8.82	8.85	170
CH 6647	08-20-03	E.04	1.98	.014	<.02	<.3	19	1670	.28	1.54	226
CH 6644	08-28-03	<.04	.19	<.008	<.02	<.3	29	80	3.20	3.27	149

Local well number	Date	Gross alpha 30 day recount wat unfltrd pCi/L (63016)		Gross alpha 72 hr, radioac wat unfltrd pCi/L (63014)		Gross beta 30 day recount wat unfltrd pCi/L (63017)		Gross beta 72 hr, radioac wat unfltrd pCi/L (63015)		Pb-210, water, unfltrd pCi/L (17501)	Rn-222 2-sigma water, unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)
		Th-230, pCi/L (63016)	Th-230, pCi/L (63014)	Th-230, pCi/L (63014)	Th-230, pCi/L (63014)	Cs-137, pCi/L (63017)	Cs-137, pCi/L (63015)	Cs-137, pCi/L (63015)	Cs-137, pCi/L (63015)			
CH 86	11-05-03	76	529	100	194	M	42	1700				
CH 992	08-19-03	3	3	8	7	2	--	--				
CH 1616	08-19-03	28	23	59	54	1	58	3890				
CH 2570	08-27-03	M	2	5	7	M	22	320				
CH 3125	10-28-03	25	83	24	32	M	30	900				
CH 3995	09-02-03	M	M	2	4	M	38	1550				
CH 6517	11-04-03	5	9	3	3	2	83	7760				
CH 6535	08-20-03	M	1	3	5	M	34	1150				
CH 6643	08-25-03	M	M	3	3	M	26	570				
CH 6646	08-13-03	16	33	41	17	M	46	2440				
CH 6647	08-20-03	2	3	5	5	3	50	2830				
CH 6644	08-28-03	77	161	71	83	M	27	660				