## CHESTER COUNTY

## 395052075434501. Local number, CH 5176 (New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°50'52", long 75°43'45", Hydrologic Unit 02040205, at Spray Irrigation Site in New Garden Township.

Owner: New Garden Township Municipal Authority.

AQUIFER .-- Felsic Gneiss of Precambrian age.

## WATER-LEVEL RECORDS

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 89 ft, cased to 89 ft, closed end, screened from 69-89 ft. INSTRUMENTATION.--Electronic data logger with 60-minute recording interval.

DATUM.--Elevation of land surface is 338.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of plywood shelf, 3.2 ft above landsurface datum.

REMARKS.—In addition to the daily mean water levels shown below, daily maximum and minimum water levels, since July 1998, are also available from the District Office. Other data for this project are presented in tables on pages 318-328 and 426-435.

PERIOD OF RECORD.—July 14, 1998 to current year. (discontinued)

**EXTREMES FOR PERIOD OF RECORD.**—The extremes shown are extremes of the instantaneous depth below land surface for the period of record

Highest water level, 7.83 ft below land-surface datum, Apr. 22, 2000; lowest, 13.47 ft below land-surface datum, Jan. 1-3, 1999.

EXTREMES FOR CURRENT YEAR.--Highest water level, 9.69 ft below land-surface datum, Oct. 18; lowest, 10.59 ft below land-surface datum, Jan. 10.

#### DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 INSTANTANEOUS VALUES

DATE	WATER DATE LEVEL DATE		WATER LEVEL	DATE	WATER LEVEL	WATER LEVEL	
OCT 18	9.69	NOV 7	10.15	DEC 5	10.36	JAN 10	10.59

## WATER-QUALITY RECORDS

REMARKS.-- Samples collected with submersible pump from recovery water after well was pumped more than three casing volumes. **PERIOD OF RECORD.**—June 1998 to December 2001. (discontinued)

#### WATER-QUALITY DATA, OCTOBER 2001 TO DECEMBER 2001

Date	Time	SAMPLE (CODE NUMBER)	COL- LECTING SAMPLE (CODE NUMBER)	DIS- SOLVED (MG/L)	(STAND- ARD UNITS)	DUCT- ANCE (µS/CM)	TEMPER- ATURE WATER (DEG C)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	DIS- SOLVED (MG/L AS MG)
OCT 2001 18	1000	9813	1028	1.7	6.8	525	12.3	65.2	9.86
07 DEC	1300	9813	1028	2.4	6.7	516	12.4		
05	1130	9813	1028		6.7	500	12.5	67.7	10.1
Date	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)		DIS- SOLVED (MG/L AS BR)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	(MG/L AS SIO2)		DIS- SOLVED (MG/L)
OCT 2001 18 NOV	4.89	11.0	97	<.2	40.5	<.20	24.4	26.4	470
07 DEC			140						
	<1.00	10.8	102	<.2	42.3	<.20	27.8	27.3	492
Date	DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(MG/L	GEN, NITRATE DIS- SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	
OCT 2001 18	<.020		17	16.2	.310	.018	.010	<1.0	
	<.020	<.020	16	14.7	.300	.016	<.010		
DEC 05	<.020		17	14.4	.270	.016	.013	<1.0	

# CHESTER COUNTY

# **395052075434501. Local number, CH 5176**--Continued

# WATER-QUALITY DATA, OCTOBER 2001 TO DECEMBER 2001

ANTI- MONY, DIS- SOLVED (µG/L AS SB) (01095)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	BARIUM, DIS- SOLVED (µG/L AS BA) (01005)	BORON, DIS- SOLVED (µG/L AS B) (01020)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR) (01030)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	IRON, DIS- SOLVED (µG/L AS FE) (01046)
<2  <2	<4.0  <4.0	285  299	<200  <200	<10  <10	< 4  < 4	<4  <4	40  <20
LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LITHIUM DIS- SOLVED (µG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (μG/L AS MN) (01056)	MERCURY DIS- SOLVED (μG/L AS HG) (71890)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (µG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (µG/L AS SR) (01080)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)
<1.0  <1.0	<20  <20	<10  <10	.51	<4.0  <4.0	<7  <7	240  260	10  <10
	MONY, DIS- SOLVED (µG/L AS SB) (01095)  <2 <2  LEAD, DIS- SOLVED (µG/L AS SB) (01049)  <1.0	MONY, DIS- SOLVED (μG/L AS SB) AS AS) (01095) (01000)  <2 <4.0 <2 <4.0  LEAD, LITHIUM DIS- SOLVED (μG/L AS SB) AS AS) (01095) (01000)  <1.0 <20 <1.0 <20	MONY, DIS- DIS- SOLVED SOLVED (μG/L AS SB) AS AS) AS BA) (01095) (01000) (01005)  <2 <4.0 285 <2 <4.0 299  LEAD, LITHIUM DIS- SOLVED SOLVED (μG/L AS PB) AS AS DA)  LEAD, LITHIUM NESE, DIS- SOLVED SOLVED (μG/L AS PB) AS LI) AS MN) (01049) (01130) (01056)  <1.0 <20 <10	MONY, DIS- DIS- DIS- DIS- SOLVED SOLVED (μG/L (μG/L (μG/L AS SB) AS AS AS AS BA) AS B) (01095) (01000) (01005) (01020)	MONY, DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	MONY	MONY