#### CHESTER COUNTY

#### 395049075434302. Local number, CH 5179 (New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°50'49", long 75°43'43", 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 2 in., depth 39 ft, cased to 39 ft, closed end, screened from 24-39 ft. **INSTRUMENTATION**.--Electronic data logger with 60-minute recording interval.

DATUM.--Elevation of land surface is 357.6 ft above sea level. Measuring point: Top of plywood shelf, 1.2 ft above land-surface datum.

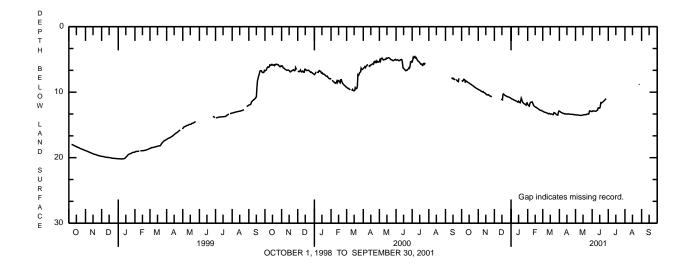
REMARKS.--In addition to the daily mean water levels shown below, daily maximum and minimum water levels, since August 1998, are also available from the District Office. Data for this project are presented in tables on pages XXX, and XXX.

PERIOD OF RECORD.--August 1, 1998 to current year.

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

Highest water level, 4.56 ft below land-surface datum, July 6, 2000; lowest, 20.19 ft below land-surface datum, Jan. 5, 6, 1999. **EXTREMES FOR CURRENT YEAR**.--Highest water level, 7.99 ft below land-surface datum, Oct. 5; lowest, 13.55 ft below land-surface datum,

DAY         OCT         NOV         DEC         JAN         FEB         MAR         APR         MAY         JUN         JUL         AUG         SEP           1         8.24         9.58          10.95         11.86         12.92         12.89         13.45         12.95   <	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 MEAN VALUES												
2       8.26       9.63        11.01       11.98       12.96       12.95       13.46       12.86	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2       8.26       9.63        11.01       11.98       12.96       12.95       13.46       12.86	1	8.24	9.58		10.95	11.86	12.92	12.89	13.45	12.95			
4       8.19       9.69        11.09       12.14       13.05       13.08       13.48       12.87	2	8.26	9.63		11.01	11.98	12.96	12.95	13.46	12.86			
5       8.03       9.76        11.12       11.76       13.06       13.13       13.47       12.89	3												
6 8.05 9.83 11.17 11.58 13.08 13.15 13.49 12.91													
7       8.15       9.87        11.22       11.55       13.13       13.20       13.52       12.91  8.65         11       8.34       9.90        11.38       11.82       13.27       13.32       13.54       12.75          8.65         11       8.37       10.01       1.11       11.42       12.01       13.31       13.29       13.54       12.41          12.87	5	8.03	9.76		11.12	11.76	13.06	13.13	13.47	12.89			
8       8.55       9.92        11.26       11.51       13.16       13.23       13.53       12.91                                      8.65         11       8.34       9.90        11.38       11.82       13.27       13.32       13.55       12.75         8.65         12       8.45       10.07       11.11       11.42       12.01       13.31       13.29       13.54       12.41         8.79         13       8.53       10.12        11.48       12.13       13.24       13.31       13.53       12.39         8.79         14       8.57       10.14       11.01       11.53       12.19       13.27       13.35       13.51       12.43          15       8.61       10.24       11.13 <t< td=""><td>6</td><td>8.05</td><td>9.83</td><td></td><td>11.17</td><td>11.58</td><td>13.08</td><td>13.15</td><td>13.49</td><td>12.91</td><td></td><td></td><td></td></t<>	6	8.05	9.83		11.17	11.58	13.08	13.15	13.49	12.91			
9       8.28       9.96        11.28       11.47       13.19       13.25       13.53       12.84          8.65         11       8.34       9.90        11.34       11.56       13.23       13.29       13.54       12.77         8.65         11       8.37       10.01        11.38       11.82       13.27       13.32       13.55       12.75         12       8.45       10.07       11.11       11.42       12.01       13.31       13.29       13.54       12.41         8.79         13       8.53       10.12        11.48       12.13       13.24       13.31       13.53       12.39         8.79         14       8.57       10.14       11.01       11.53       12.19       13.27       13.35       13.51       12.43          15       8.61       10.24       11.13       11.37       12.25       13.33       13.36       13.48       12.44           1       1       1       1       1	7	8.15	9.87		11.22	11.55	13.13	13.20	13.52	12.91			
10     8.34     9.90      11.34     11.56     13.23     13.29     13.54     12.77       8.65       11     8.37     10.01      11.38     11.82     13.27     13.32     13.55     12.75          12     8.45     10.07     11.11     11.42     12.01     13.31     13.29     13.54     12.41       8.79       13     8.53     10.12      11.48     12.13     13.24     13.31     13.53     12.39          14     8.57     10.14     11.01     11.53     12.19     13.27     13.35     13.51     12.43          15     8.61     10.24     11.13     11.37     12.25     13.33     13.36     13.48     12.44         16     8.67     10.37     11.17     11.46     12.31     13.34     13.33     13.46     12.23         17     8.74     10.37     10.32     11.56     12.31     13.32     13.31     13.45     11.63         18     8.77     10.42     10.27     <													
11     8.37     10.01      11.38     11.82     13.27     13.32     13.55     12.75       8.79       12     8.45     10.07     11.11     11.42     12.01     13.31     13.29     13.54     12.41       8.79       13     8.53     10.12      11.48     12.13     13.24     13.31     13.53     12.39          14     8.57     10.14     11.01     11.53     12.19     13.27     13.35     13.51     12.43          15     8.61     10.24     11.13     11.37     12.25     13.33     13.36     13.48     12.44          16     8.67     10.37     11.17     11.46     12.31     13.34     13.33     13.46     12.23         17     8.74     10.37     10.32     11.56     12.31     13.34     13.33     13.45     11.63         18     8.77     10.42     10.27     11.62     12.40     13.36     13.32     13.43     11.69       9.83       19     8.85     10.42													
12     8.45     10.07     11.11     11.42     12.01     13.31     13.29     13.54     12.41       8.79       13     8.53     10.12      11.48     12.13     13.24     13.31     13.53     12.39	10	8.34	9.90		11.34	11.56	13.23	13.29	13.54	12.77			8.65
12     8.45     10.07     11.11     11.42     12.01     13.31     13.29     13.54     12.41       8.79       13     8.53     10.12      11.48     12.13     13.24     13.31     13.53     12.39	11	8.37	10.01		11.38	11.82	13.27	13.32	13.55	12.75			
14     8.57     10.14     11.01     11.53     12.19     13.27     13.35     13.51     12.43          15     8.61     10.24     11.13     11.37     12.25     13.33     13.36     13.48     12.44          16     8.67     10.37     11.17     11.46     12.31     13.34     13.33     13.46     12.23          17     8.74     10.37     10.32     11.56     12.31     13.32     13.31     13.45     11.63          18     8.77     10.42     10.27     11.62     12.40     13.36     13.32     13.43     11.69       9.83       19     8.85     10.42     10.36     11.32     12.46     13.39     13.36     13.42     11.60     9.49         20     8.92     10.38     10.44     10.91     12.51     13.43     13.36     13.45     11.55         21     8.95     10.47     10.51     11.13     12.57     13.37     13.37     13.36     11.41         22     9.00     10.53				11.11									8.79
15     8.61     10.24     11.13     11.37     12.25     13.33     13.36     13.48     12.44          16     8.67     10.37     11.17     11.46     12.31     13.34     13.33     13.46     12.23          17     8.74     10.37     10.32     11.56     12.31     13.32     13.31     13.45     11.63          18     8.77     10.42     10.27     11.62     12.40     13.36     13.32     13.43     11.69       9.83       19     8.85     10.42     10.36     11.32     12.46     13.39     13.36     13.42     11.60     9.49         20     8.92     10.38     10.44     10.91     12.51     13.43     13.36     13.45     11.55         21     8.95     10.47     10.51     11.13     12.57     13.37     13.37     13.36     11.41          22     9.00     10.53     10.54     11.43     12.64     13.12     13.37     13.36     11.41	13	8.53	10.12		11.48	12.13	13.24	13.31	13.53	12.39			
16     8.67     10.37     11.17     11.46     12.31     13.34     13.33     13.46     12.23          17     8.74     10.37     10.32     11.56     12.31     13.32     13.45     11.63          18     8.77     10.42     10.27     11.62     12.40     13.36     13.32     13.43     11.69       9.83       19     8.85     10.42     10.36     11.32     12.46     13.39     13.36     13.42     11.60     9.49         20     8.92     10.38     10.44     10.91     12.51     13.43     13.36     13.45     11.55          21     8.95     10.47     10.51     11.13     12.57     13.37     13.37     13.43     11.47         22     9.00     10.53     10.54     11.43     12.64     13.12     13.37     13.36     11.41		8.57	10.14	11.01		12.19							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15	8.61	10.24	11.13	11.37	12.25	13.33	13.36	13.48	12.44			
18     8.77     10.42     10.27     11.62     12.40     13.36     13.32     13.43     11.69       9.83       19     8.85     10.42     10.36     11.32     12.46     13.39     13.36     13.42     11.60     9.49         20     8.92     10.38     10.44     10.91     12.51     13.43     13.36     13.45     11.55          21     8.95     10.47     10.51     11.13     12.57     13.37     13.37     13.43     11.47          22     9.00     10.53     10.54     11.43     12.64     13.12     13.37     13.36     11.41													
19     8.85     10.42     10.36     11.32     12.46     13.39     13.36     13.42     11.60     9.49         20     8.92     10.38     10.44     10.91     12.51     13.43     13.36     13.45     11.55          21     8.95     10.47     10.51     11.13     12.57     13.37     13.37     13.43     11.47         22     9.00     10.53     10.54     11.43     12.64     13.12     13.37     13.36     11.41													
20 8.92 10.38 10.44 10.91 12.51 13.43 13.36 13.45 11.55 21 8.95 10.47 10.51 11.13 12.57 13.37 13.37 13.43 11.47 22 9.00 10.53 10.54 11.43 12.64 13.12 13.37 13.36 11.41													
21 8.95 10.47 10.51 11.13 12.57 13.37 13.43 11.47 22 9.00 10.53 10.54 11.43 12.64 13.12 13.37 13.36 11.41													
22 9.00 10.53 10.54 11.43 12.64 13.12 13.37 13.36 11.41	20	8.92	10.38	10.44	10.91	12.51	13.43	13.36	13.45	11.55			
23 9.09 10.59 10.61 11.58 12.69 13.14 13.38 13.33 11.33													
24 9.14 10.64 10.62 11.66 12.76 13.21 13.37 13.33 11.24													
25 9.21 10.66 10.68 11.74 12.78 13.30 13.39 13.36 11.16	25	9.21	10.66	10.68	11.74	12.78	13.30	13.39	13.36	11.16			
26 9.27 10.59 10.72 11.80 12.77 13.37 13.40 13.27 11.06			10.59										
27 9.32 10.73 11.85 12.83 13.45 13.40 12.89 10.99 8.79							13.45	13.40		10.99			
28 9.38 10.76 11.92 12.87 13.48 13.42 12.85 8.86						12.87						8.86	
29 9.43 10.80 11.98 13.50 13.45 12.88													
30 9.47 10.82 11.66 13.11 13.45 12.93													
31 9.53 10.88 11.63 12.88 12.96	31	9.53		10.88	11.63		12.88		12.96				
MEAN 8.73 10.15 10.71 11.42 12.21 13.23 13.28 13.37 12.17 9.49 8.82 9.09	MEAN	8.73	10.15	10.71	11.42	12.21	13.23	13.28	13.37	12.17	9.49	8.82	9.09
MAX 9.53 10.66 11.17 11.98 12.87 13.50 13.45 13.55 12.95 9.49 8.86 9.83													
MIN 8.03 9.58 10.27 10.91 11.47 12.88 12.89 12.85 10.99 9.49 8.79 8.65	MIN	8.03	9.58	10.27	10.91	11.47	12.88	12.89	12.85	10.99	9.49	8.79	



## CHESTER COUNTY

## 395049075434302. Local number, CH 5179--Continued (New Garden Township, Chester County, Spray Irrigation Project)

#### WATER-QUALITY RECORDS

**REMARKS.**-- Samples collected with submersible pump from recovery water after well was pumped more than three casing volumes. Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods. **PERIOD OF RECORD.**--May 1998 to current year.

#### WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT 2000											
16	1400	9813	1028	9.6	6.1	270	12.7				
NOV											
13	1300	9813	1028	7.4	6.1	265	12.9				
DEC 11	1300	9813	1028	7.1	6.0	258	12.9	14.2	9.22	2.62	4.9
JAN 2001	1300	2013	1020	/	0.0	250	12.7	11.2	2.22	2.02	4.5
16	1500	9813	1028	9.2	6.0	258	12.8				
FEB											
21	1400	9813	1028	5.9	5.4	253	12.9				
MAR 27	1100	9813	1028	8.0	6.2	250	12.5	23.7	8.15	2.45	5.0
MAY	1100	9013	1026	0.0	0.2	250	12.5	23.7	0.15	2.45	5.0
07	1400	9813	1028	4.9	6.2	240	12.7				
30	1400	9813	1028	5.9	6.0	252	12.2				
JUN											
25	1300	9813	1028	8.3	6.1	258	12.3	27.0	9.83	2.76	5.4
JUL 19	1300	9813	1028	1.7	5.6	224	12.3				
AUG	1300	9013	1028	1./	5.0	224	14.3				
27	1500	9813	1028	4.4	6.0	243	12.7				

	ANC						SOLIDS,	NITRO-		
	WATER		CHLO-	FLUO-	SILICA,		RESIDUE	GEN,	NITRO-	NITRO-
	UNFLTRD	BROMIDE	RIDE,	RIDE,	DIS-	SULFATE	AT 180	AMMONIA	GEN,	GEN
	IT	DIS-	DIS-	DIS-	SOLVED	DIS-	DEG. C	DIS-	AMMONIA	DIS-
	FIELD	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	TOTAL	SOLVED
DATE	(MG/L AS	(MG/L	(MG/L	(MG/L	AS	(MG/L	SOLVED	(MG/L	(MG/L	(MG/L
	CACO3)	AS BR)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	AS N)	AS N)	AS N)
	(00419)	(71870)	(00940)	(00950)	(00955)	(00945)	(70300)	(00608)	(00610)	(00602)
OCT 2000										
16	28							<.020	< .02	2.0
NOV										
13	36							<.020	< .02	2.2
DEC										
11	40	<.20	37.0	<.2	14.7	20.0	202	<.020		2.1
JAN 2001										
16	33							<.020	<.02	2.1
FEB										
21	26							<.020	<.02	1.9
MAR	37	. 00	25 6	. 0	12.0	10 5	100	. 000		0 0
27 MAY	3 /	<.20	35.6	<.2	13.9	18.5	190	<.020		2.0
07	31							<.020	.02	2.5
30	30							<.020	<.02	2.0
JUN	30							1.020	1.02	2.0
25	51	<.20	42.6	<.2	15.5	17.9	896	<.020		1.7
JUL	31		12.0		10.0		0,50			
19	32							.100	< .02	3.6
AUG										
27	51							<.020	< .02	2.0

## CHESTER COUNTY

# 395049075434302. Local number, CH 5179--Continued (New Garden Township, Chester County, Spray Irrigation Project)

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)
OCT 2000									
16	1.81	<.040	.023	.023					
NOV 13	1.84	<.040	.023	.023					
DEC									
11	1.81	< .040	.022	.023	<1.0	<200	60	<10.0	<10
JAN 2001 16 FEB	1.80	<.040	.020	.022					
21 MAR	1.74	<.040	.019	.019					
27 MAY	1.72	<.040	.022	.019	<1.0	<200	<20	<10.0	<10
07	1.69	< .040	.015	.016					
30	1.78	<.040	.019	.012					
JUN 25 JUL	1.81	<.040	.019	.018	<1.0	<200	<20	<10.0	16
19 AUG	1.91	<.040	.021	.012					
27	1.79	<.040	.020	.019					