20.13

20.63

20.63

CHESTER COUNTY

395043075440701. Local number, CH 5182 (New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°50'43", long 75°44'07", 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 195 ft, cased to 195 ft, closed end, screened from 165-195 ft. **INSTRUMENTATION**.--Electronic data logger with 60-minute recording interval.

DATUM.--Elevation of land surface is 381.9 ft.above sea level. Measuring point: Top of plywood shelf, 1.1 ft above land-surface datum.

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

PERIOD OF RECORD.--June 24, 1998 to current year.

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

18.35 18.78 17.93

19.19

19.62

19.75

20.01

MEAN

MAX

MIN

17.91 17.11

indicated above.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Highest water level, 16.36 ft below land-surface datum, Aug. 30, 2000; lowest, 25.77 ft below land-surface datum, Mar. 19, 20, 22, 29-31, 1999. **EXTREMES FOR CURRENT YEAR**.--Highest water level, 17.09 ft below land-surface datum, Oct. 2; lowest, 20.63 ft below land-surface datum,

	MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	17.20	17.93	18.87	19.56	20.06	20.01	19.69	18.72	18.45	19.02				
2	17.11	17.98	18.94	19.57	19.99	19.98	19.73	18.72	18.38	18.92				
3	17.13	18.00	18.95	19.54	20.11	20.06	19.71	18.76	18.43	18.96				
4	17.18	17.99	18.92	19.48	20.09	20.08	19.71		18.50	19.05				
5		18.04	18.83		19.94	19.97	19.65		18.51	19.06				
6	17.17	18.11	18.97	19.50	20.03	19.96	19.52		18.50					
7	17.32	18.10	18.92	19.58	20.14	20.11	19.54		18.48	19.03				
8	17.35	18.18	18.99		20.14	20.13	19.46		18.49	19.12				
9	17.34		19.14	19.62	20.00	20.07	19.36		18.50	19.13				
10		18.08	19.12	19.70	20.03	20.12	19.41	18.64	18.51	19.16				
11	17.38	18.28	19.10	19.63	20.21	20.12	19.38	18.58	18.51	19.16				
12	17.46		19.08	19.71	20.17	20.15	19.27	18.56	18.50	19.10				
13	17.44	18.31	19.16	19.74	20.08	19.92	19.22	18.61	18.55	19.11				
14	17.42		19.06	19.73	20.01	20.05	19.21	18.60	18.60	19.14				
15	17.46	18.34	19.30		20.03	20.09	19.13	18.53	18.59	19.12				
16				19.72	20.06	20.06	19.10	18.56	18.56	19.12				
17		18.35		19.79	20.08	20.07	19.06	18.57	18.58	19.14				
18		18.50	19.62		20.19	20.13	19.07	18.54	18.68	19.11		20.63		
19	17.57				20.14	20.16	19.10	18.52	18.71	19.10				
20	17.68	18.46	19.35		20.07	20.13	19.06	18.58	18.68					
21	17.63	18.52	19.37	19.90	20.10	19.93	19.01	18.55	18.70					
22	17.77	18.59		19.93	20.14	19.86	18.97	18.49	18.76					
23	17.81	18.68	19.45	19.83	20.10	19.93	18.91	18.53	18.79					
24	17.61	18.69	19.33	19.80	20.21	19.94	18.86	18.56	18.75					
25	17.76		19.47	19.91	20.02	19.97	18.92	18.60	18.77					
26	17.76		19.41	19.93	20.08	19.94	18.87	18.55	18.73					
27	17.81	18.62	19.34	19.86	20.13	19.97	18.80	18.50	18.83					
28		18.77	19.35	20.01	20.07	19.98	18.85	18.53	18.90		20.13			
29		18.78	19.41	19.99		19.91	18.88	18.55	18.94					
30		18.78		19.81		19.67	18.78	18.50	18.99					
31	17.91		19.45	19.91		19.74		18.49						

20.01 20.16

18.57

18.76

19.73

18.63

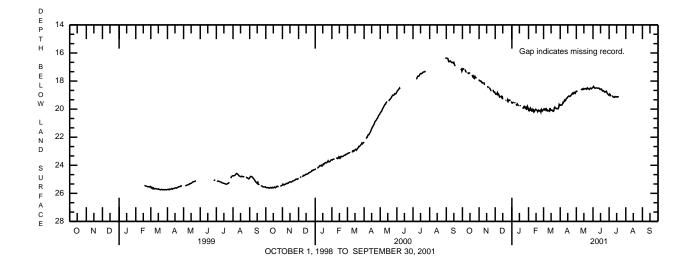
18.99

19.09

19.16

20.09

20.21



CHESTER COUNTY

395043075440701. Local number, CH 5182--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. **PERIOD OF RECORD.**--June 1998 to current year.

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

WATER-QUALITY DATA, WATER TEAR OCTOBER 2000 TO SEI TEMBER 2001												
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTIN SAMPLE (CODE NUMBER (00027	G OXYGEN DIS- SOLVE (MG/L	(STAND DARD UNIT	E CIF D CON D- DUC ANC S) (µS/	IC - TEI T- A' E WA	MPER- FURE ATER EG C)	DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS-
OCT 2000												
19 NOV	1200	9813	1028	. 4	8.3			2.6				
16 DEC	1100	9813	1028	.5	8.3	19	2 1	1.8				
13 JAN 2001	1000	9813	1028	.5	8.0	18	8 1	1.5	26.9	3.51	2.60	4.4
18	1000	9813	1028	.8	7.8	11	4 1	1.8				
FEB 27 MAR	1200	9813	1028	.7	8.1	19	1 1:	2.1				
28	1100	9813	1028	.8	7.9	19	0 1:	2.2	27.9	3.22	2.54	4.1
MAY 03 29	1230 1300	9813 9813	1028 1028	.5	8.0 8.2			2.5 2.8				
JUN 26	1100	9813	1028	.9	8.1	18	3 1	3.0	30.8	3.50	2.65	4.3
JUL 19 AUG	1100	9813	1028	. 4	7.2	18	7 1:	2.7				
28	1100	9813	1028	.5	8.1	18	7 1:	2.6				
DATE	IT FIE (MG/L CAC	TER LTRD BRON DELD SOI LAS (MO	MIDE R IS- D LVED S	IDE, R IS- OLVED S	DIS-	DIS- SOLVED (MG/L	DIS-	DEG.	UE GEN O AMMON C DIS	, NIT	N, GE NIA DIS	N - ED
	(004	203) AS 119) (718	BR) A	S CL) A	SF)		(MG/L AS SO4)	SOLV	ED (MG/ L) AS N) AS 1	/L (MG N) AS	N)
OCT 2000 19	79	119) (718	BR) A	S CL) A	SF)	SIO2)	(MG/L AS SO4)	SOLV	ED (MG/ L) AS N	(006)	/L (MG N) AS 10) (006	N) 02)
19 NOV 16	•	119) (718	BR) A 870) (0	S CL) A 0940) (0	S F) (SIO2) 00955)	(MG/L AS SO4) (00945)	SOLVI (MG/I	ED (MG/ L) AS N O) (0060	(006) (006)	/L (MG N) AS 10) (006	N) 02) 6
19 NOV 16 DEC 13	79	(718) (718)	BR) A 870) (0	S CL) Å 0940) (0	S F) (SIO2) 00955) 	(MG/L AS SO4) (00945)	SOLVI (MG/I (7030)	ED (MG/ L) AS N 0) (0060	0 < 0 <	/L (MG N) AS 10) (006 02 <.0	N) 02) 6
19 NOV 16 DEC	79 74	119) (718	BR) A 870) (0	S CL) Å 0940) (0	S F) (SIO2) 00955) 	(MG/L AS SO4) (00945)	SOLVI (MG/I (7030)	ED (MG/ L) AS N 0) (0060 <.02	(1) AS 1 8) (006) 0 < 0 <	/L (MG N) AS 10) (006 02 <.0 02 <.0	N) 02) 6 6 6
19 NOV 16 DEC 13 JAN 2001 18 FEB 27	79 74 89	119) (718) - ! -	BR) A. 870) (0 	S CL) Å 0940) (0	S F) (10950) (SIO2) 00955) 	(MG/L AS SO4) (00945)	SOLV: (MG/: (7030)	ED (MG/ L) AS N 0) (0060 <.02 <.02	0 < 0 < 0 <	/L (MG N) AS 10) (006 02 <.0 02 <.0 - <.0	N) 02) 6 6 6
19 NOV 16 DEC 13 JAN 2001 18 FEB 27 MAR 28	79 74 89 78	(718) (718)	BR) Å 870) (020	S CL) Å 0940) (0	S F) (10950) (10050) (SIO2) 00955) 17.4	(MG/L AS SO4) (00945) 13.2	SOLV: (MG/: (7030)	ED (MG/ L) AS N (0060 <.02 <.02 <.02	0 < 0 < 0 < 0 <	/L (MG N) AS 10) (006 02 <.0 02 <.0 - <.0 02 <.0	N) 02) 6 6 6 6 6
19 NOV 16 DEC 13 JAN 2001 18 FEB 27 MAR 28 MAY 03 29	79 74 89 78	(718) (718)	BR) Å 870) (020	S CL) Å 0940) (0	S F) (10950) (10050) (SIO2) 00955) 17.4 	(MG/L AS SO4) (00945) 13.2 	SOLV: (MG/: (7030)	ED (MG/ L) AS N 0) (0060 <.02 <.02 <.02 <.02	0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	/L (MG N) AS 10) (006 02 <.0 02 <.0 - <.0 02 <.0 02 <.0 02 <.0	N) 02) 6 6 6 6 6 6 6 6
19 NOV 16 DEC 13 JAN 2001 18 FEB 27 MAR 28 MAY 03 29 JUN 26	79 74 89 78 72 69	(718) (718)	BR) Å 870) (02020	S CL) Å 0940) (0 2.9 3.0	S F) (100950) (100050	SIO2) 00955) 17.4 15.4	(MG/L AS SO4) (00945) -13.2 -13.0	SOLV! (MG/: (7030) 118 202	ED (MG/ L) AS N 0) (0060 <.02 <.02 <.02 <.02 <.02 <.02	0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	/L (MG N) AS 10) (006 02 <.0 02 <.0 - <.0 02 <.0 02 <.0 02 <.0	N) 02) 6 6 6 6 6 6 6 6 6 6 6
19 NOV 16 DEC 13 JAN 2001 18 FEB 27 MAR 28 MAY 03 29 JUN	79 74 89 78 72 69 74 83	(71) (71) (71) (71) (71) (71) (71) (71)	BR) Å 870) (02020	S CL) Å 0940) (0 2.9 3.0	S F) (100950) (100050	SIO2) 00955) 17.4 15.4	(MG/L AS SO4) (00945) 13.2 13.0	SOLV! (MG/: (7030)	ED (MG/ L) AS N 0) (0060 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 0 < 0 0	/L (MG N) AS 10) (006 02 <.0 02 <.0 - <.0 02 <.0 02 <.0 02 <.0 - <.0 02 <.0	N) 02) 6 6 6 6 6 6 6 6 6 6 6

CHESTER COUNTY

395043075440701. Local number, CH 5182--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									
19 NOV	< .040	<.040	<.010	<.010					
16 DEC	< .040	<.040	<.010	.010					
13	< .040	<.040	<.010	<.010	<1.0	<200	110	22.0	<10
JAN 2001 18	< .040	<.040	<.010	<.010					
FEB 27	<.040	<.040	<.010	<.010					
MAR 28	< .040	<.040	<.010	<.010	<1.0	<200	30	22.0	<10
MAY 03	<.040	<.040	<.010	<.010					
29	<.040	<.040	<.010	<.010					
JUN									
26	< .040	< .040	<.010	<.010	<1.0	<200	60	21.0	<10
JUL 19 AUG	<.040	<.040	<.010	<.010					
28	<.040	<.040	.010	<.010					