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 It above sea level. Measuring point: Top of plywood shelf, 3.2 ft above land-surface datum.

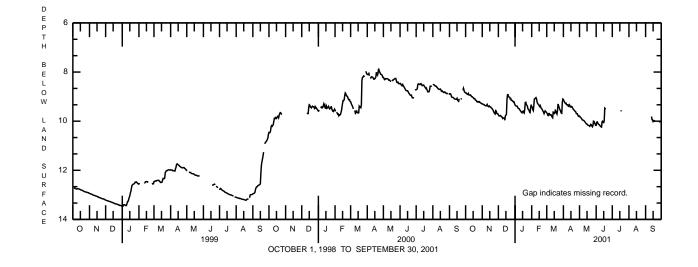
REMARKS.--In addition to the daily mean water levels shown below, daily maximum and minimum water levels, since July 1998, are also available from the District Office. Data for this project are presented in tables on pages XXX, and XXX. **PERIOD OF RECORD.**--July 14, 1998 to current year. **EXTREMES 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, 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, 8.84 ft below land-surface datum, Oct. 1, 2; lowest, 10.25 ft below land-surface datum, May 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.85	9.29	9.74	9.34	9.41	9.66	9.12	9.79	10.17			
2	8.85	9.31	9.78	9.37	9.43	9.69	9.18	9.83	10.04			
3	8.88 8.91	9.32 9.32	9.79 9.78	9.38 9.39	9.53 9.57	9.76 9.77	9.21 9.26	9.85	10.03			
4 5	8.91	9.32 9.34	9.78	9.39	9.57	9.77	9.26	9.87 9.90	10.08 10.11			
5	8.91	9.34	9.77	9.39	9.35	9.69	9.28	9.90	10.11			
6	8.87	9.36	9.81	9.44	9.10	9.69	9.27	9.94	10.14			
7	8.93	9.37	9.81	9.48	9.09	9.75	9.33	9.96	10.15			
8	8.94	9.38	9.84	9.49	9.06	9.75	9.33	9.96	10.18			
9	8.93	9.36	9.89	9.50	9.04	9.74	9.33	9.97	10.21			
10	8.93	9.32	9.87	9.55	9.09	9.79	9.39	10.00	10.23			9.77
11	8.96	9.38	9.87	9.57	9.22	9.83	9.40	10.03	10.24			
12	9.00	9.39	9.87	9.61	9.28	9.86	9.33	10.05	10.02			9.81
13	9.00	9.41	9.96	9.64	9.31	9.63	9.36	10.09	10.00			9.94
14	9.02	9.38	9.78	9.66	9.32	9.64	9.41	10.11	10.05			9.94
15	9.04	9.41	9.76	9.61	9.38	9.69	9.43	10.12	10.06			10.02
16	9.07	9.42	9.72	9.59	9.41	9.67	9.40	10.15	9.98			10.00
17	9.09	9.43	9.12	9.64	9.37	9.56	9.41	10.17	9.47	9.56		9.98
18	9.08	9.47	8.92	9.67	9.44	9.59	9.45	10.17	9.49	9.60		9.99
19	9.13	9.48	8.92	9.53	9.48	9.66	9.50	10.18	9.49			9.97
20	9.15	9.51	9.00	9.24	9.50	9.71	9.53	10.21				
21	9.16	9.55	9.02	9.23	9.55	9.58	9.55	10.18			9.58	
22	9.21	9.60	9.03	9.32	9.59	9.30	9.58	10.13				
23	9.22	9.65	9.09	9.35	9.63	9.37	9.60	10.15				
24	9.20	9.69	9.08	9.40	9.69	9.43	9.62	10.20				
25	9.21	9.71	9.15	9.49	9.63	9.51	9.69	10.23				
26	9.23	9.57	9.16	0 50	9.58	9.55	9.70	10 10				10.02
26 27	9.23	9.57	9.16	9.53 9.55	9.58	9.55	9.70	10.18 10.00	9.63			10.03 10.02
28	9.24	9.68	9.19	9.63	9.63	9.67	9.76	10.01				10.05
29	9.26	9.70	9.22	9.65		9.68	9.80	10.07			9.70	
30	9.27	9.70	9.21	9.46		9.23	9.79	10.12				
31	9.29		9.28	9.33		9.10		10.17				
MEAN	9.07	9.47	9.47	9.48	9.40	9.62	9.46	10.06	9.99	9.58	9.64	9.96
MAX	9.29	9.71	9.96	9.67	9.69	9.86	9.80	10.23	10.24	9.60	9.70	10.05
MIN	8.85	9.29	8.92	9.23	9.04	9.10	9.12	9.79	9.47	9.56	9.58	9.77



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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.--June 1998 to current year.

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

					PH						
		AGENCY	AGENCY		WATER	SPE-		a	MAGNE-	POTAS-	0007177
		ANA- LYZING	COL- LECTING	OXYGEN,	WHOLE FIELD	CIFIC CON-	TEMPER-	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-
		SAMPLE	SAMPLE	DIS-	(STAND-	DUCT-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	(CODE	(CODE	SOLVED	ARD	ANCE	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		NUMBER)	NUMBER)	(MG/L)	UNITS)	(µs/cm)	(DEG C)	AS CA)	AS MG)	AS K)	AS NA)
		(00028)	(00027)	(00300)	(00400)	(00095)	(00010)	(00915)	(00925)	(00935)	(00930)
OCT 2000											
19	1100	9813	1028	2.6	6.5	528	12.4				
NOV											
20 DEC	1000	9813	1028	6.2	6.8	488	12.0				
12	1200	9813	1028	2.2	6.7	519	11.2	74.8	11.8	6.09	11.6
JAN 2001	1200	2010	1010	212	0.7	515		, 110	1110	0.05	11.0
18	1400	9813	1028	4.8	6.5	485	11.9				
FEB	1 5 0 0	0010	1000	<i>c</i>	<i>с</i> ,	504	10.0				
27 MAR	1500	9813	1028	6.3	6.4	524	12.2				
28	1300	9813	1028	4.7	6.7	485	12.4	71.7	10.6	6.70	11.8
MAY											
10	1000	9813	1028	3.0	6.7	471	12.5				
31	1100	9813	1028	1.2	6.8	538	13.0				
JUN 27	1400	9813	1028	1.9	6.5	464	12.8	64.2	10.0	5.22	10.6
JUL	1400	9013	1020	1.9	0.5	404	12.0	04.2	10.0	5.22	10.0
18	1400	9813	1028	2.0	6.4	500	12.6				
AUG											
29	1100	9813	1028	5.5	6.7	530	13.3				

DATE	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)
OCT 2000										
19	84							<.020	<.02	17
NOV 20	82							<.020	<.02	18
DEC	02							<.020	1.02	10
12	88	<.20	38.8	<.2	25.0	31.0	408	<.020		16
JAN 2001 18	88							<.020	<.02	17
FEB	00							<.020	<.02	17
27	78							<.020	<.02	16
MAR 28	97	<.20	40.8	<.2	22.0	33.6	292	<.020		17
MAY	51	<.20	40.0	<.2	22.0	33.0	292	<.020		17
10	91							<.020	<.02	16
31 JUN	101							<.020	<.02	16
27	82	<.20	40.9	<.2	25.0	25.4	350	<.020		24
JUL										
18	93							<.020	<.02	20
AUG 29	93							<.020	<.02	18

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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	15.6	.510	.016	.014					
NOV									
20 DEC	15.7	.270	.013	.012					
12	15.4	.860	<.010	<.010	1.2	<200	<20	13.0	38
JAN 2001	10.1					-200	-20	10.0	50
18	16.0	.310	.016	.015					
FEB									
27 MAR	15.7	.410	.013	.015					
28	12.8	1.82	.012	<.010	1.1	<200	<20	14.0	55
MAY	1210	1102	.012			-200	-20	11.0	55
10	16.0	.210	.011	<.010					
31	17.2	.170	.013	<.010					
JUN	16.0		011	010	1 0			10.0	
27 JUL	16.3	.280	.011	.012	<1.0	<200	<20	<10.0	11
18	17.4	.300	.013	<.010					
AUG	1,.1	. 500	.015	<.010					
29	16.6	.440	.016	.013					