CHESTER COUNTY

395045075434702. Local number, CH 5173. (New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°50'45", long 75°43'47", 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 62 ft, cased to 62 ft, closed end, screened from 42-62 ft.

INSTRUMENTATION.--Electronic data logger with 60-minute recording interval.

DATUM.--Elevation of land surface is 401.6 ft above sea level. Measuring point: Top of plywood shelf, 1.9 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 31, 1998 to current year.

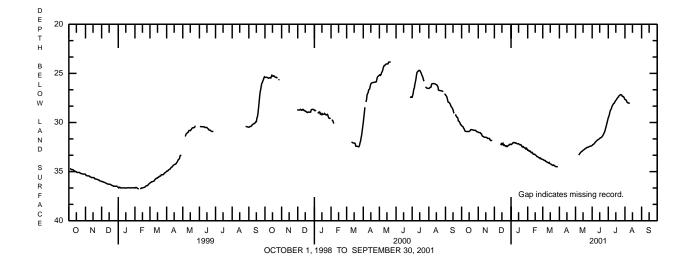
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the instantaneous depth below land surface for the period of record

indicated above.

Highest water level, 23.83 ft below land-surface datum, May 22, 2000; lowest, 36.81 ft below land-surface datum, Feb. 9, 1999. **EXTREMES FOR CURRENT YEAR.**--Highest water level, 27.13 ft below land-surface datum, July 24; lowest, 34.53 ft below land-surface datum,

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	30.33	30.98		32.25	32.82	33.76			32.33	29.50	27.65	
2	30.38	31.01		32.23	32.81	33.78			32.26	29.39	27.69	
3	30.40	31.03		32.17	32.89	33.83			32.23	29.19	27.70	
4	30.46	31.03		32.11	32.91	33.87			32.20	28.94	27.79	
5	30.61	31.05		32.04	32.88	33.86			32.14	28.75	27.94	
3	30.01	31.03		32.01	32.00	33.00			32.11	20.75	27.51	
6	30.67	31.14		32.05	32.96	33.89			32.07	28.67	27.99	
7	30.84	31.16		32.07	33.03	33.97		33.32	31.99	28.54	27.99	
8	30.90	31.33		32.04	33.07	34.01		33.24	31.94	28.35	28.01	
9	30.91	31.40		32.07	33.03	34.01		33.15	31.88	28.25	28.05	
10	30.91	31.41		32.11	33.09	34.06		33.09	31.84	28.15	28.06	28.67
10	30.71	51.11		52.11	33.03	31.00		33.03	31.01	20.13	20.00	20.07
11	30.91	31.46		32.10	33.21	34.09		33.02	31.78	28.06		
12	30.92	31.49	32.22	32.15	33.23	34.12		32.96	31.74	28.04		
13	30.92	31.51	32.23	32.18	33.23	34.07		32.94	31.71	27.94		
14	30.92	31.50	32.15	32.17	33.22	34.17		32.89	31.68	27.82		
15	30.91	31.50	32.25	32.16	33.29	34.21		32.83	31.63	27.75		
13	30.71	31.30	32.23	32.10	33.23	31.21		32.03	31.03	27.73		
16	30.88	31.51	32.19	32.21	33.33	34.23		32.79	31.56	27.69		
17	30.82	31.53	32.12	32.26	33.38	34.26		32.76	31.54	27.59		
18	30.73	31.61	32.30	32.28	33.46	34.31		32.71	31.53	27.50		28.59
19	30.72	31.62	32.26	32.25	33.47	34.35		32.65	31.47	27.45		
20	30.73	31.62	32.34	32.30	33.50	34.37		32.64	31.39	27.37		
20	30.73	31.02	32.31	32.30	33.30	51.57		32.01	31.33	27.57		
21	30.74	31.62	32.38	32.40	33.55	34.32		32.60	31.31	27.28		
22	30.76	31.63	32.37	32.49	33.58	34.35		32.54	31.20	27.24		
23	30.79	31.78	32.44	32.45	33.60	34.41		32.53	31.09	27.20		
24	30.79	31.83	32.39	32.45	33.67	34.44		32.52	30.99	27.16		
25	30.79	31.83	32.44	32.54	33.62	34.48		32.51	30.81	27.17		
23	30.73	31.03	32.11	32.31	33.02	51.10		32.31	30.01	27.127		
26	30.80	31.83	32.40	32.58	33.69	34.50		32.47	30.60	27.21		
27	30.80	31.83	32.32	32.57	33.73	34.49		32.43	30.40	27.33	27.99	
28	30.86		32.29	32.68	33.75	34.50		32.42	30.17	27.35		
29	30.93		32.28	32.70		34.51		32.40	29.96	27.35		
30	30.94	32.03	32.20	32.62				32.40	29.73	27.42		
31	30.97		32.22	32.72				32.37		27.54		
MEAN	30.78	31.47	32.29	32.30	33.29	34.18		32.73	31.44	27.91	27.90	28.63
MAX	30.97	32.03	32.44	32.72	33.75	34.51		33.32	32.33	29.50	28.06	28.67
MTN	30 33	30 98	32 12	32 04	32 81	33 76		32 37	29 73	27 16	27 65	28 59



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WATER-QUALITY RECORDS

REMARKS.-- Samples collected with disposable bailers from recovery water after well was bailed more than three times the casing volume. 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.

AUG

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	WHO FII (STA AI) UN	TER S OLE C ELD C AND- D RD A ITS) (µ	PE- IFIC ON- UCT- NCE .S/CM)	ATI WA' (DE	PER-	DIS SOI (MC AS	S- LVED G/L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K)	SODIUM, DIS- SOLVED	
OCT 2000 16	1200	9813	1028	6	. 9	155	13	5						18
NOV														
13 DEC	1200	9813	1028	6	.5	124	12	. 1						14
12	1100	9813	1028	6	.0	157	9	. 4	18	. 0	2.75	4.10	6.2	24
JAN 2001 16	1200	9813	1028	6	. 0	126	11	. 1						31
FEB 20	1200	9813	1028	5	. 5	127	12	. 4						12
MAR 26	1200	9813	1028	6	. 7	126	11	. 2	11	. 9	2.67	3.80	6.5	18
MAY 07	1100	9813	1028	6	. 3	131	13	3						16
30 JUN	1100	9813	1028			135	13							17
25	1200	9813	1028	6	.5	139	15	. 4	12	. 4	2.87	3.71	6.7	18
16	1000	9813	1028	6	. 3	141	14	. 0						17
AUG 27	1100	9813	1028	6	. 2	144	14	. 7						21
DATE	DI SOI (MG AS	MIDE RI IS- DI LVED SO G/L (M	DE, R: S- : LVED SG G/L (I CL) A:	IDE, DIS- DLVED MG/L S F)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULF DIS SOL (MG AS S	ATE S- LVED S/L SO4)	AT 1 DEG DI SOL (MG	DUE 80 . C S- VED /L)	DIS SOLV (MG/ AS N	, NIT IA GI - AMMO ED TOT L (MO) AS	EN, GE ONIA DIS FAL SOLV G/L (MO	FRO- G EN NIT S- D /ED SO G/L (M N) AS	RATE IS- LVED G/L N)
OCT 2000 16	-					-		-	-	<.02	0 <	.02 .	.54 .	490
13	-					-	-	-	-	<.02	0 <	.02 .	.72 .	550
DEC 12	<.	. 20 2	.6	<.2	20.3	34.	2	13	2	<.02	0 -		.61 .	520
JAN 2001 16	-					_	-	-	_	<.02	0 <	.02 .	.78 .	580
FEB 20	_					_		_	_	<.02	0 <	.02 .	.75 .	610
MAR 26	<.	. 20 3	.0	<.2	21.4	29.	5	12	0	<.02	0 -		.70 .	590
MAY 07							_	-		<.02				660
30 JUN	-					_	-	-	-	<.02	U .	.02 .	. 95	780
25 JUL	<.	. 20 5	.0	<.2	22.9	28.	0	21	2	<.02				760
16	-					-	-	-	-	<.02	0 <	.02 .	. 88	820

<.020

< .02

1.1

.860

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

DATE	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	< .040	< .010	<.010					
NOV								
13 DEC	<.040	.011	.010					
12	< .040	<.010	<.010	<1.0	<200	<20	31.0	12
JAN 2001				-1.0	1200	-20	31.0	
16	< .040	<.010	<.010					
FEB	. 0.40	. 010	. 010					
20 MAR	<.040	<.010	<.010					
26	< .040	.011	<.010	<1.0	<200	<20	24.0	12
MAY								
07	<.040	<.010	<.010					
30 JUN	<.040	.010	<.010					
25	< .040	< .010	<.010	<1.0	<200	<20	21.0	25
JUL				-1.0	1200	-20	21.0	23
16	< .040	< .010	<.010					
AUG								
27	< .040	<.010	<.010					