

CHESTER COUNTY

395100075434601. Local number, CH 5721
 (New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°51'00", long 75°43'46", Hydrologic Unit 02040205, at Spray Irrigation Site in New Garden Township.

Owner: New Garden Township Municipal Authority.

AQUIFER.--Felsic Gneiss of Precambrian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in., depth 101 ft, cased to 101 ft, closed end, screened from 91-101 ft.

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

DATUM.--Elevation of land surface is 314.5 ft above sea level. Measuring point: Top of steel casing, 2.2 ft above land-surface datum.

REMARKS.--In addition to the daily mean water levels shown below, daily maximum and minimum water levels, since August 1999, are also available from the District Office. Data for this project are presented in tables on pages XXX, and XXX.

PERIOD OF RECORD.--August 6, 1999 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, 20.95 ft below land-surface datum, April 4, 2000; lowest, 24.22 ft below land-surface datum, December 12, 13, 2000.

EXTREMES FOR CURRENT YEAR.--Highest water level, 22.24 ft below land-surface datum, Apr. 12, 13; lowest, 24.22 ft below land-surface datum, Dec. 12, 13.

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	---	23.81	24.05	23.78	23.58	23.14	22.41	22.41	22.47	22.66	23.25	23.77
2	23.32	23.83	24.07	23.79	23.56	23.15	22.40	22.43	22.39	22.71	23.27	23.80
3	23.35	23.85	24.09	23.80	23.56	23.17	22.38	22.45	22.41	22.72	23.28	23.81
4	23.37	23.85	24.10	23.81	23.55	23.17	22.36	22.45	22.44	22.72	23.30	23.82
5	23.39	23.86	24.11	23.81	23.47	23.12	22.34	22.47	22.45	22.74	23.34	23.82
6	23.39	23.87	24.12	23.83	23.42	23.11	22.31	22.50	22.46	22.78	23.35	23.85
7	23.42	23.89	24.14	23.85	23.40	23.12	22.31	22.51	22.47	22.80	23.37	23.86
8	23.44	23.91	24.15	23.86	23.37	23.12	22.30	22.51	22.49	22.80	23.39	23.88
9	23.45	23.90	24.17	23.87	23.32	23.10	22.28	22.51	22.50	22.82	23.42	23.90
10	23.46	23.88	24.18	23.89	23.27	23.11	22.30	22.52	22.53	22.81	23.43	23.91
11	23.51	23.90	24.17	23.90	23.26	23.12	22.30	22.54	22.54	22.77	23.43	23.93
12	23.50	23.92	24.18	23.92	23.25	23.12	22.25	22.60	22.50	22.82	23.41	23.95
13	23.51	23.93	24.21	23.94	23.22	23.05	22.26	22.63	22.54	22.83	23.38	23.97
14	23.53	23.93	24.14	23.95	23.20	23.05	22.28	22.62	22.57	22.85	23.41	23.99
15	23.54	23.94	24.11	23.94	23.19	23.04	22.28	22.60	22.58	22.88	23.45	24.00
16	23.56	23.95	24.08	23.93	23.18	23.01	22.26	22.62	22.53	22.91	23.47	24.02
17	23.57	23.96	23.83	23.94	23.13	22.97	22.26	22.63	22.41	22.92	23.48	24.04
18	23.57	23.99	23.75	23.95	23.15	22.97	22.27	22.63	22.43	22.94	23.50	24.05
19	23.59	24.00	23.71	23.89	23.15	22.96	22.30	22.63	22.44	22.97	23.52	24.07
20	23.61	24.01	23.70	23.78	23.14	22.96	22.30	22.67	22.43	22.99	23.53	24.05
21	23.62	24.03	23.70	23.76	23.15	22.89	22.31	22.64	22.44	23.00	23.56	23.97
22	23.64	24.05	23.68	23.76	23.17	22.80	22.31	22.60	22.44	23.03	23.58	24.00
23	23.66	24.07	23.69	23.72	23.17	22.78	22.32	22.61	22.45	23.05	23.59	24.03
24	23.72	24.08	23.69	23.70	23.21	22.76	22.32	22.63	22.48	23.07	23.61	24.04
25	23.95	24.09	23.70	23.70	23.18	22.74	22.36	22.65	22.50	23.09	23.64	24.00
26	24.04	24.02	23.71	23.69	23.15	22.73	22.36	22.59	---	23.12	23.65	23.99
27	23.93	24.00	23.71	23.69	23.14	22.72	22.36	22.44	22.60	23.15	23.66	24.01
28	23.78	24.02	23.71	23.70	23.14	22.71	22.39	22.45	22.61	23.17	23.68	24.03
29	23.78	24.04	23.73	23.70	---	---	22.42	22.46	22.63	23.18	23.71	24.05
30	23.79	24.03	23.73	23.61	---	22.51	22.41	22.48	22.65	23.20	---	24.07
31	23.80	---	23.75	23.57	---	22.46	---	22.49	---	23.23	23.75	---
MEAN	23.59	23.95	23.93	23.81	23.27	22.96	22.32	22.55	22.50	22.93	23.48	23.96
MAX	24.04	24.09	24.21	23.95	23.58	23.17	22.42	22.67	22.65	23.23	23.75	24.07
MIN	23.32	23.81	23.68	23.57	23.13	22.46	22.25	22.41	22.39	22.66	23.25	23.77

