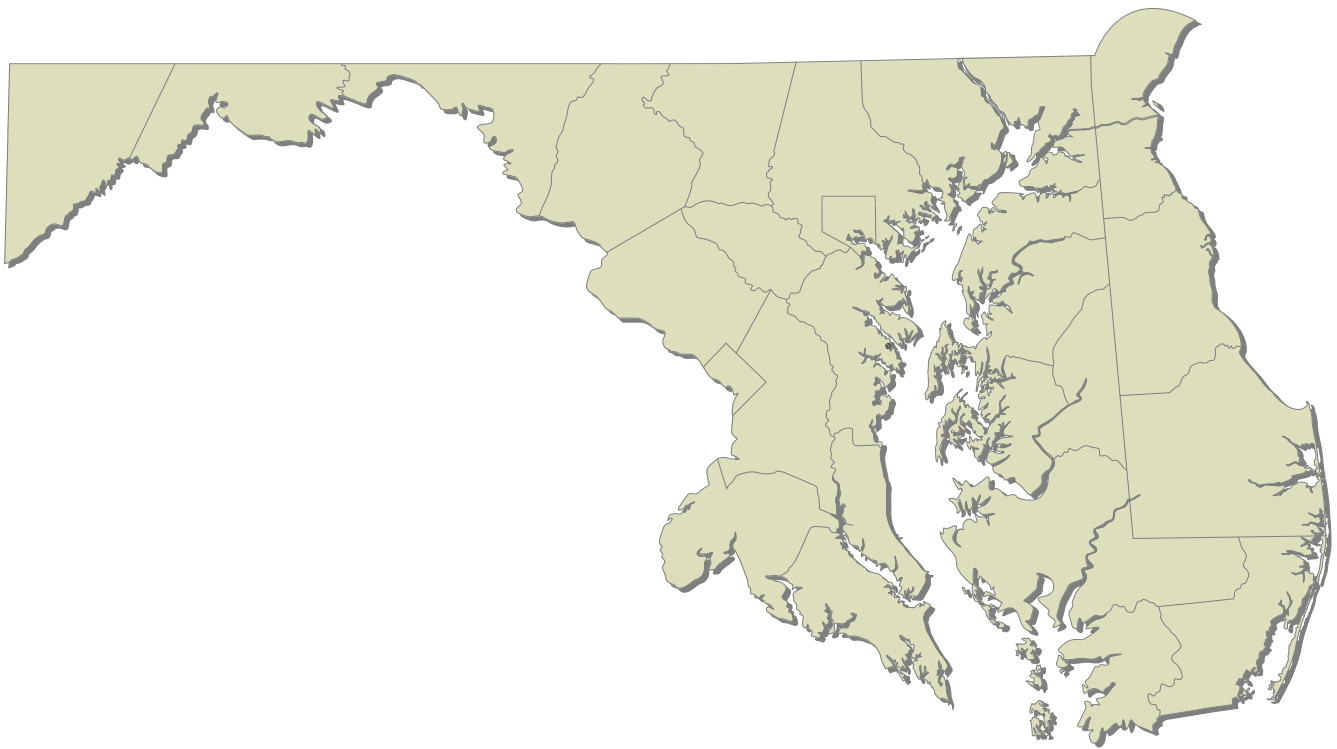


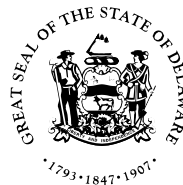
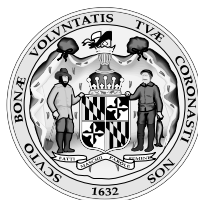
# Water Resources Data Maryland and Delaware Water Year 2001

## Volume 2. Ground-Water Data

Water-Data Report MD-DE-01-2



U.S. Department of the Interior  
U.S. Geological Survey



Prepared in cooperation with the  
States of Maryland and Delaware  
and with other agencies

# CALENDAR FOR WATER YEAR 2001

2000

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OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						

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2001

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JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31

APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4	5						1	2
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22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
29	30						27	28	29	30	31			24	25	26	27	28	29	30

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						

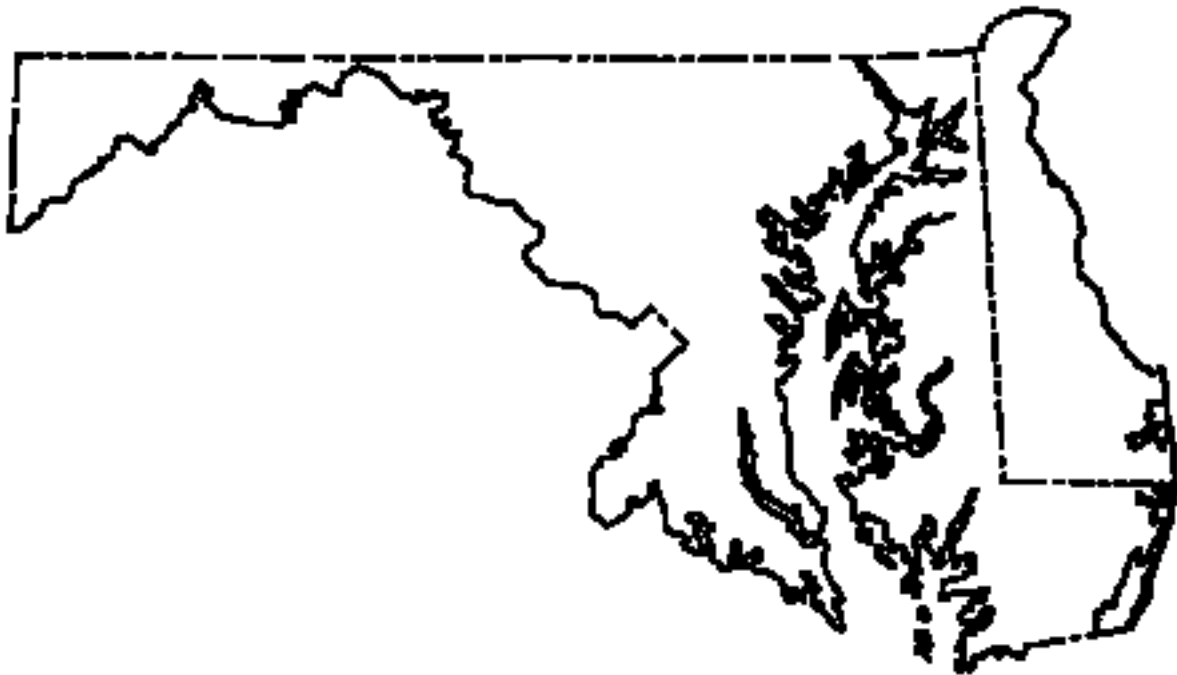
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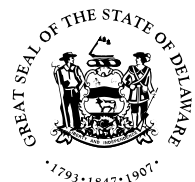
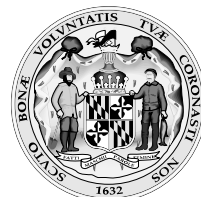
## Volume 2. Ground-Water Data

By Michael J. Smigaj, Richard W. Saffer, Robert H. Pentz, Elizabeth H. Marchand

Water-Data Report MD-DE-01-2



Prepared in cooperation with  
the States of Maryland and Delaware and with other agencies



*UNITED STATES DEPARTMENT OF THE INTERIOR*

**GALE A. NORTON, Secretary**

**U.S. GEOLOGICAL SURVEY**

**Charles G. Groat, Director**

**Robert M. Hirsch, Chief Hydrologist**

For additional information write to  
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8987 Yellow Brick Road  
Baltimore, Maryland 21237

## PREFACE

This volume of the annual hydrologic data report for Maryland and Delaware is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Maryland, Delaware, and the District of Columbia are contained in two volumes:

### *Volume 1. Surface-Water Data*

### *Volume 2. Ground-Water Data*

This report (Volume 2) is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey, Maryland Geological Survey, and Delaware Geological Survey, who collected, compiled, analyzed, and verified, the data for this report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed to the collection, and data processing on the GWSI, ADAPS, and QWDATA data bases are listed below by office, and project.

#### Maryland Observation Well Monitoring Networks -- Michael J. Smigaj, Project Chief

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Ocean City Ground-Water Monitoring Network

##### *LaVale Field Office*

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Allan J. Ruddy      Ocean City Ground-Water Monitoring Network

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*Annapolis Office*  
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T. Brandon Fewster      Charles County Water-Level Monitoring Network

##### *Delaware Geological Survey Newark Office*

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Roland E. Bounds      Delaware Observation Well Monitoring Network

#### U.S. Geological Survey Ground-Water Projects

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Southern Maryland Power Plant Project  
Stephen E. Curtin

##### *Baltimore Office*

Naval Air Station Patuxent River Ground-Water Hydrology Project  
Cheryl A. Klohe      Stephen E. Curtin

#### Viral Contamination of Ground Water in Fractured Bedrock Aquifers Project

William S. Banks      Jeff J. Kvech

##### *Dover sub-District Office*

Dover Air Force Base Long-term Monitoring Project      Redden State Forest Wetlands Project  
William Guertal      William Stearns      David C. Hudson

##### Prime Hook Ground-Water Project

Daniel Soeder  
Cherie V. Miller

##### Potomac-Delmarva Peninsula NAWQA Study Unit

Judith M. Denver  
Matthew J. Ferrari      Deborah A. Bringman

Earl A. Greene and Valerie M. Gaine provided technical and editorial reviews for the Introduction section of this report. Andrew E. LaMotte produced figures 5 through 7, using a Geographic Information System mapping program. Robert W. James Jr., Chief, Surface Water Analysis Section, provided invaluable assistance and editing support for this volume. Barbara F. Cooper (MGS) assisted with checking the data as part of the quality control and quality assurance process, by editing the report and the GWSI data base.

This report was prepared under the general supervision of James M. Gerhart, District, Chief, MD-DE-DC District, Cathrine A. Hill, Northeastern Regional Hydrologist, and in cooperation with the States of Maryland and Delaware, and with other Federal, State, and local agencies.

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Water resources data for the 2001 water year for Maryland and Delaware consist of records of water levels and water quality of ground-water wells. This report (Volume 2. Ground-Water Data) contains water levels at 379 observation wells, discharge records for 5 springs, and water quality at 238 wells and 10 springs. Locations of ground-water level wells are shown on figures 5 and 6. Locations of ground-water-quality sites are shown on figure 7. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State, local, and Federal agencies in Maryland and Delaware.

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Spring 393459076045001	Local number CE Cc 40.....	54
<u>FREDRICK COUNTY</u>		
Spring 392552077262201	Local number FR Dd 178.....	55
Spring 391846077370501	Local number FR Fb 12.....	56
<u>HARFORD COUNTY</u>		
Spring 394153076325701	Local number HA Aa 9.....	57
<u>WASHINGTON COUNTY</u>		
Spring 392836077442701	Local number WA Di 103.....	58

## GROUND-WATER LEVELS

<b>DELAWARE:</b>		
<u>KENT COUNTY</u>		
Well 390607075331501	Local number Jd42-03.....	59
Well 390224075391601	Local number Kc31-01.....	60
Well 385041075395601	Local number Mc51-01.....	61-62
Well 385310075331301	Local number Md22-01.....	63
Well 390733075264801	Local number DM102F.....	64-65
Well 390723075270901	Local number DM103D.....	66
Well 390734075271402	Local number DM106D.....	67-68
Well 390734075271401	Local number DM106S.....	69-70
Well 390801075272302	Local number DM108D.....	71
Well 390801075272302	Local number DM108S.....	72
Well 390744075270402	Local number DM110D.....	73
Well 390744075270401	Local number DM110S.....	74
Well 390833075273601	Local number DM202D.....	75
Well 390827075290401	Local number DM204D.....	76
Well 390729075283701	Local number DM310SB.....	77
Well 390819075292902	Local number DM347D.....	78
Well 390819075292901	Local number DM347S.....	79
Well 390815075293402	Local number DM348D.....	80
Well 390815075293401	Local number DM348S.....	81
Well 390811075293802	Local number DM349D.....	82
Well 390811075293801	Local number DM349S.....	83
Well 390707075293401	Local number DM358D.....	84
Well 390747075292601	Local number DM378F.....	85
Well 390629075272701	Local number DM412D.....	86-87
Well 390655075273701	Local number DM421F.....	88-89
Well 390742075300102	Local number GS4D.....	90
Well 390742075300101	Local number GS4S.....	91
Well 390654075282202	Local number MW29D.....	92
Well 390647075283301	Local number MW33D.....	93-94
Well 390703075272601	Local number MW48D.....	95-96
<u>NEW CASTLE COUNTY</u>		
Well 393917075401601	Local number Db15-05.....	97
Well 393856075415602	Local number Db24-17.....	98
Well 393734075371103	Local number Db33-17.....	99
Well 393734075371102	Local number Db33-18.....	100
Well 393734075371101	Local number Db33-19.....	101
Well 393755075364801	Local number Dc34-05.....	102
Well 393755075364802	Local number Dc34-06.....	103
Well 393316075421601	Local number Eb23-22.....	104
Well 393316075421602	Local number Eb23-23.....	105
Well 393316075421603	Local number Eb23-24.....	106
Well 393316075421604	Local number Eb23-25.....	107
Well 391949075410701	Local number Hb14-01.....	108
<u>SUSSEX COUNTY</u>		
Well 384639075353101	Local number Nc45-01.....	109
Well 384955075192801	Local number Ng11-01.....	110
Well 384558075083501	Local number Ni52-11.....	111
Well 384558075083502	Local number Ni52-12.....	112
Well 384438075234801	Local number Of12-13.....	113-114
Well 384401075224901	Local number Of13-03.....	115-116
Well 384406075224601	Local number Of13-08.....	117-118
Well 384343075230401	Local number Of22-04.....	119-120
Well 384341075230001	Local number Of22-11.....	121-122
Well 384333075222901	Local number Of23-03.....	123-124
Well 384341075223801	Local number Of23-05.....	125-126
Well 384345075225101	Local number Of23-11.....	127-128
Well 384038075110001	Local number Oh54-01.....	129
Well 384038075110002	Local number Oh54-02.....	130
Well 384258075063101	Local number Oi24-06.....	131
Well 383730075213501	Local number Pf24-02.....	132

## GROUND-WATER LEVELS-Continued

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**DELAWARE-Continued:**SUSSEX COUNTY-Continued

Well 383730075213502	Local number	Pf24-03	133
Well 383138075260201	Local number	Qe44-01	134
Well 383050075105201	Local number	Qh54-04	135
Well 383050075105202	Local number	Qh54-05	136
Well 383050075105203	Local number	Qh54-06	137
Well 383050075105204	Local number	Qh54-07	138
Well 383210075035802	Local number	Qj32-17	139
Well 382808075030501	Local number	Rj22-05	140
Well 382808075030502	Local number	Rj22-06	141
Well 382808075030503	Local number	Rj22-07	142
Well 382808075030504	Local number	Rj22-08	143

**MARYLAND:**ALLEGANY COUNTY

Well 394024078273401	Local number	AL Ah 1	144
Well 393009079025201	Local number	AL Ca 19	145
Well 393148079010601	Local number	AL Ca 20	146

ANNE ARUNDEL COUNTY

Well 391101076404001	Local number	AA Ac 11	147
Well 391015076373501	Local number	AA Ad 29	148
Well 391032076385902	Local number	AA Ad 90	149-150
Well 391032076385904	Local number	AA Ad 102	151
Well 391032076385906	Local number	AA Ad 108	152
Well 391006076380101	Local number	AA Ad 109	153-154
Well 391032076385907	Local number	AA Ad 110	155
Well 390950076391101	Local number	AA Bd 91	156
Well 390821076365401	Local number	AA Bd 152	157-158
Well 390938076383701	Local number	AA Bd 155	159-160
Well 390922076371001	Local number	AA Bd 156	161-162
Well 390737076374401	Local number	AA Bd 157	163-164
Well 390744076390001	Local number	AA Bd 158	165
Well 390737076374402	Local number	AA Bd 159	166
Well 390908076394402	Local number	AA Bd 160	167-168
Well 390945076285601	Local number	AA Bf 3	169
Well 390303076463201	Local number	AA Cb 1	170-171
Well 390423076432001	Local number	AA Cc 40	172
Well 390126076403001	Local number	AA Cc 135	173-174
Well 390126076402901	Local number	AA Cc 137	175-176
Well 390450076343402	Local number	AA Ce 117	177-178
Well 390150076283003	Local number	AA Cf 98	179
Well 390150076283002	Local number	AA Cf 99	180
Well 390123076241601	Local number	AA Cg 22	181
Well 390123076241602	Local number	AA Cg 23	182
Well 390123076241603	Local number	AA Cg 24	183
Well 390127076240301	Local number	AA Cg 25	184
Well 385808076373502	Local number	AA Dd 42	185
Well 385915076340401	Local number	AA De 1	186
Well 385921076270701	Local number	AA Df 19	187
Well 385916076270702	Local number	AA Df 20	188-189
Well 385905076293601	Local number	AA Df 79	190-191
Well 385623076274401	Local number	AA Df 103	192
Well 385406076383901	Local number	AA Ed 45	193
Well 385406076383902	Local number	AA Ed 65	194
Well 384833076415601	Local number	AA Fc 34	195-196
Well 384833076415602	Local number	AA Fc 35	197-198
Well 384646076352401	Local number	AA Fd 43	199
Well 384917076305801	Local number	AA Fe 51	200-201
Well 384731076325501	Local number	AA Fe 56	202-203
Well 384917076305802	Local number	AA Fe 60	204-205
Well 384644076331201	Local number	AA Fe 92	206-207
Well 384644076331202	Local number	AA Fe 93	208-209

BALTIMORE CITY

Well 391617076322001	Local number	2S5E- 1	210
Well 391600076353301	Local number	3S2E- 5	211
Well 391556076315301	Local number	3S5E- 46	212
Well 391349076354501	Local number	5S2E- 24	213

BALTIMORE COUNTY

Well 393129076384201	Local number	BA Cd 26	214
Well 393102076341801	Local number	BA Ce 21	215
Well 392931076410301	Local number	BA Dc 444	216-217
Well 392045076512501	Local number	BA Ea 18	218-219
Well 392305076432001	Local number	BA Ec 43	220
Well 391607076312901	Local number	BA Fe 19	221
Well 391356076293501	Local number	BA Gf 11	222

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CALVERT COUNTY

Well 384333076394701	Local number CA Bb	27.....	223
Well 384333076394702	Local number CA Bb	28.....	224
Well 384114076320301	Local Number CA Bc	25.....	225
Well 383940076314801	Local number CA Cc	18.....	226
Well 383605076344601	Local number CA Cc	57.....	227
Well 383239076354201	Local number CA Db	47.....	228
Well 383216076351401	Local number CA Db	65.....	229
Well 383050076305501	Local number CA Dc	35.....	230
Well 382549076260101	Local number CA Ed	52.....	231-232
Well 382343076302901	Local number CA Fc	13.....	233
Well 382408076260401	Local number CA Fd	51.....	234
Well 382407076260301	Local number CA Fd	54.....	235
Well 382318076242401	Local number CA Fe	22.....	236
Well 381952076270901	Local number CA Gd	6.....	237

CAROLINE COUNTY

Well 390333075504501	Local number CO Bc	1.....	238
Well 390227075470201	Local number CO Bd	53.....	239

CARROLL COUNTY

Well 394008077005601	Local number CL Ad	47.....	240
Well 393638076510001	Local number CL Bf	1.....	241
Well 393754076512401	Local number CL Bf	184.....	242
Well 392259077052401	Local number CL Ec	75.....	243

CECIL COUNTY

Well 393637075535001	Local number CE Be	73.....	244
Well 393637075535002	Local number CE Be	74.....	245
Well 393615075475901	Local number CE Bf	81.....	246
Well 393537075492001	Local number CE Bf	82.....	247
Well 393432075593601	Local number CE Cd	51.....	248
Well 393432075593602	Local number CE Cd	52.....	249
Well 393216075564201	Local number CE Cd	53.....	250
Well 393433075544901	Local number CE Ce	54.....	251
Well 393241075500201	Local number CE Ce	55.....	252
Well 393026075523101	Local number CE Ce	56.....	253
Well 393209075541301	Local number CE Ce	82.....	254
Well 392536075593201	Local number CE Dd	81.....	255
Well 392403075521801	Local number CE Ee	29.....	256

CHARLES COUNTY

Well 383633077083001	Local number CH Bc	24.....	257
Well 383645077062401	Local number CH Bc	75.....	258
Well 383644077055501	Local number CH Bc	77.....	259
Well 383645077062402	Local number CH Bc	80.....	260
Well 383709077061002	Local number CH Bc	81.....	261
Well 383553077032401	Local number CH Bd	52.....	262
Well 383819076555501	Local number CH Be	43.....	263
Well 383706076575601	Local number CH Be	57.....	264
Well 383706076575604	Local number CH Be	60.....	265
Well 383853076532601	Local number CH Bf	101.....	266
Well 383640076545901	Local number CH Bf	133.....	267
Well 383728076531701	Local number CH Bf	134.....	268
Well 383508076540701	Local number CH Bf	146.....	269
Well 383508076540703	Local number CH Bf	151.....	270-271
Well 383637076545803	Local number CH Bf	157.....	272
Well 383732076531902	Local number CH Bf	158.....	273
Well 383746076482901	Local number CH Bg	12.....	274
Well 383422077114601	Local number CH Cb	7.....	275
Well 383455077074401	Local number CH Cc	31.....	276
Well 383441077063901	Local number CH Cc	34.....	277
Well 383236076563901	Local number CH Ce	37.....	278
Well 383251076583901	Local number CH Ce	56.....	279-280
Well 383250076584001	Local number CH Ce	57.....	281
Well 382654077152501	Local number CH Da	18.....	282
Well 382654077152701	Local number CH Da	20.....	283
Well 382607077002601	Local number CH Dd	33.....	284
Well 382925077010101	Local number CH Dd	38.....	285
Well 382927076552301	Local number CH De	45.....	286
Well 382103076560201	Local number CH Ee	16.....	287
Well 382154076574801	Local number CH Ee	70.....	288
Well 382240076582801	Local number CH Ee	78.....	289-290

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**MARYLAND-Continued:**

DORCHESTER COUNTY

Well 383708075503801	Local number DO Bg	59	291
Well 383151076080801	Local number DO Cd	1	292
Well 383340076041601	Local number DO Ce	5	293
Well 383408076042402	Local number DO Ce	15	294
Well 383346076030301	Local number DO Ce	21	295
Well 383256076035301	Local number DO Ce	85	296
Well 382800076180701	Local number DO Db	17	297
Well 382807076175801	Local number DO Db	18	298
Well 382847076190901	Local number DO Db	19	299
Well 382916075491702	Local number DO Dh	27	300-301

FREDERICK COUNTY

Well 394200077190701	Local number FR Af	27	302
Well 393733077274801	Local number FR Bd	96	303
Well 393156077135701	Local number FR Cg	1	304
Well 392517077190401	Local number FR Df	35	305

GARRETT COUNTY

Well 394017078581701	Local number GA Ag	1	306
Well 393749079190301	Local number GA Bc	1	307
Well 392439079231801	Local number GA Eb	78	308
Well 391512079270901	Local number GA Fa	28	309
Well 391512079270902	Local number GA Fa	29	310
Well 391539079254601	Local number GA Fa	31	311
Well 391539079254602	Local number GA Fa	32	312
Well 391539079254603	Local number GA Fa	33	313
Well 391539079254604	Local number GA Fa	34	314
Well 391501079260001	Local number GA Fa	38	315
Well 391530079244401	Local number GA Fb	22	316
Well 391530079244403	Local number GA Fb	24	317
Well 391530079244404	Local number GA Fb	25	318
Well 391513079243602	Local number GA Fb	27	319
Well 391513079243605	Local number GA Fb	30	320
Well 391602079240301	Local number GA Fb	31	321
Well 391602079240302	Local number GA Fb	32	322
Well 391602079240304	Local number GA Fb	34	323
Well 391420079264901	Local number GA Ga	16	324

HARFORD COUNTY

Well 393902076160001	Local number HA Bd	31	325
Well 393158076302601	Local number HA Ca	23	326
Well 392529076180901	Local number HA Dd	89	327
Well 392721076150301	Local number HA Dd	91	328
Well 392721076150302	Local number HA Dd	92	329
Well 392921076100401	Local number HA De	66	330
Well 392606076145801	Local number HA De	181	331
Well 392606076145802	Local number HA De	182	332
Well 392606076145803	Local number HA De	183	333
Well 392914076110301	Local number HA De	195	334
Well 392819076130902	Local number HA De	198	335-336
Well 392435076203301	Local number HA Ec	11	337
Well 392408076210101	Local number HA Ec	46	338
Well 392343076161901	Local number HA Ed	24	339
Well 392455076192101	Local number HA Ed	47	340
Well 392455076192102	Local number HA Ed	48	341
Well 392455076192103	Local number HA Ed	49	342

HOWARD COUNTY

Well 391910076565701	Local number HO Bd	1	343
Well 391445076555101	Local number HO Cd	79	344
Well 391001076540001	Local number HO Ce	38	345

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**MARYLAND-Continued:**KENT COUNTY

Well 392007076075501	Local number KE Ac	20	346
Well 391650076050402	Local number KE Bc	185	347
Well 391650076050403	Local number KE Bc	186	348
Well 391823075594701	Local number KE Be	43	349
Well 391643075550901	Local number KE Be	171	350
Well 391815075472101	Local number KE Bg	33	351
Well 391815075472102	Local number KE Bg	34	352
Well 391400076101401	Local number KE Cb	36	353
Well 391124076101001	Local number KE Cb	97	354
Well 391124076101002	Local number KE Cb	98	355
Well 391124076101003	Local number KE Cb	99	356
Well 391124076101004	Local number KE Cb	100	357
Well 391251076142201	Local number KE Cb	101	358
Well 391124076101005	Local number KE Cb	103	359
Well 391432076015501	Local number KE Cd	44	360
Well 390837076140401	Local number KE Db	40	361
Well 390626076083301	Local number KE Dc	89	362
Well 390626076083302	Local number KE Dc	91	363

MONTGOMERY COUNTY

Well 391142077280601	Local number MO Cb	26	364
Well 391314077224201	Local number MO Cc	14	365
Well 390802077283801	Local number MO Db	68	366-367
Well 390917077244401	Local number MO Dc	59	368
Well 390451077245901	Local number MO Ec	10	369
Well 390008077054801	Local number MO Eg	27	370
Well 390008077052701	Local number MO Eg	28	371
Well 390434076573002	Local number MO Eh	20	372
Well 390434076573002	Local number MO Ff	21	373
Well 385937077054701	Local number MO Ff	22	374
Well 385828077065301	Local number MO Ff	23	375
Well 385819077045801	Local number MO Ff	24	376
Well 385908077051201	Local number MO Ff	25	377
Well 385925077054301	Local number MO Ff	26	378

PRINCE GEORGES COUNTY

Well 390151076561501	Local number PG Bc	16	379
Well 385130076465501	Local number PG De	21	380
Well 385152076431301	Local number PG Df	2	381
Well 384423077004501	Local number PG Fb	36	382
Well 384230076555501	Local number PG Fc	17	383
Well 384131076533301	Local number PG Fd	41	384
Well 383957076520601	Local number PG Gd	5	385-386
Well 383228076410601	Local number PG Hf	35	387
Well 383348076411301	Local number PG Hf	40	388-389
Well 383348076411302	Local number PG Hf	41	390-391
Well 383348076411303	Local number PG Hf	42	392
Well 383250076405304	Local number PG Hf	44	393-394

QUEEN ANNES COUNTY

Well 391203076024301	Local number QA Be	15	395
Well 391203076024302	Local number QA Be	16	396
Well 391203076024303	Local number QA Be	17	397
Well 390841075515201	Local number QA Cg	1	398
Well 390201076182701	Local number QA Db	30	399
Well 390201076182703	Local number QA Db	32	400
Well 390023076174301	Local number QA Db	34	401
Well 390119076191001	Local number QA Db	35	402
Well 390023076174302	Local number QA Db	37	403
Well 390251076034401	Local number QA De	27	404
Well 385718076211501	Local number QA Ea	77	405
Well 385718076211502	Local number QA Ea	78	406
Well 385757076200101	Local number QA Ea	79	407
Well 385757076200102	Local number QA Ea	80	408
Well 385718076211503	Local number QA Ea	81	409
Well 385751076171603	Local number QA Eb	110	410
Well 385751076171601	Local number QA Eb	111	411
Well 385751076171602	Local number QA Eb	112	412
Well 385748076172001	Local number QA Eb	113	413
Well 385843076155302	Local number QA Eb	155	414
Well 385852076195201	Local number QA Eb	156	415
Well 385852076195202	Local number QA Eb	157	416
Well 385756076105301	Local number QA Ec	1	417
Well 385534075573601	Local number QA Ef	29	418
Well 385429076120201	Local number QA Fc	7	419

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<b>MARYLAND-Continued</b>			
<u>ST. MARYS COUNTY</u>			
Well 382838076470101	Local number SM Bb	15.....	420
Well 382838076470102	Local number SM Bb	22.....	421
Well 381616076364701	Local number SM Dd	46.....	422
Well 381616076364702	Local number SM Dd	49.....	423
Well 381807076380001	Local number SM Dd	50.....	424
Well 381616076364703	Local number SM Dd	62.....	425
Well 381615076364701	Local number SM Dd	63.....	426
Well 381626076393401	Local number SM Dd	72.....	427
Well 381719076264801	Local number SM Df	14.....	428-429
Well 381604076271701	Local number SM Df	61.....	430-431
Well 381841076284401	Local number SM Df	66.....	432
Well 381527076283101	Local number SM Df	71.....	433
Well 381548076272102	Local number SM Df	84.....	434-435
Well 381721076264801	Local number SM Df	100.....	436-437
Well 381813076232501	Local number SM Dg	14.....	438-439
Well 381810076244601	Local number SM Dg	21.....	440-441
Well 381213076222801	Local number SM Eg	27.....	442
Well 380834076303401	Local number SM Fe	30.....	443
Well 380834076303402	Local number SM Fe	31.....	444
Well 380724076251901	Local number SM Ff	36.....	445
Well 380821076255501	Local number SM Ff	64.....	446-447
Well 380711076222201	Local number SM Fg	45.....	448
<u>SOMERSET COUNTY</u>			
Well 381156075412501	Local number SO Be	42.....	449
Well 380927075423701	Local number SO Ce	42.....	450-451
Well 380616075380701	Local number SO Cf	2.....	452
<u>TALBOT COUNTY</u>			
Well 385242075593101	Local number TA Bf	73.....	453
Well 385242075593102	Local number TA Bf	74.....	454
Well 384923076100601	Local number TA Cc	35.....	455
Well 384514076103701	Local number TA Cc	36.....	456
Well 384709076050301	Local number TA Cd	57.....	457
Well 384643076043801	Local number TA Ce	7.....	458
<u>WASHINGTON COUNTY</u>			
Well 394154078103501	Local number WA Ac	1.....	459
Well 393638078001301	Local number WA Be	2.....	460
Well 393851077343001	Local number WA Bk	25.....	461
Well 393414077461801	Local number WA Ch	106.....	462
Well 393402077434201	Local number WA Ci	82.....	463
Well 392904077371501	Local number WA Dj	2.....	464
<u>WICOMICO COUNTY</u>			
Well 382150075352101	Local number WI Ce	13.....	465
Well 382404075355401	Local number WI Ce	204.....	466
Well 382037075310801	Local number WI Cf	3.....	467
Well 382429075344501	Local number WI Cf	147.....	468
Well 382329075263701	Local number WI Cg	20.....	469
<u>WORCESTER COUNTY</u>			
Well 382621075174201	Local number WO Ae	23.....	470
Well 382621075174202	Local number WO Ae	24.....	471
Well 382621075174203	Local number WO Ae	25.....	472
Well 382632075031801	Local number WO Ah	6.....	473
Well 382635075030601	Local number WO Ah	35.....	474
Well 382635075030602	Local number WO Ah	36.....	475
Well 382635075030603	Local number WO Ah	37.....	476-477
Well 382022075072401	Local number WO Bg	1.....	478
Well 382359075094501	Local number WO Bg	15.....	479
Well 382358075094501	Local number WO Bg	45.....	480
Well 382358075094502	Local number WO Bg	46.....	481
Well 382325075063301	Local number WO Bg	47.....	482-483
Well 382325075063302	Local number WO Bg	48.....	484-485
Well 382038075065901	Local number WO Bg	49.....	486-487
Well 382215075041801	Local number WO Bh	31.....	488-489
Well 382443075033501	Local number WO Bh	34.....	490-491
Well 382215075041901	Local number WO Bh	84.....	492
Well 382215075041902	Local number WO Bh	85.....	493
Well 382215075041903	Local number WO Bh	89.....	494-495
Well 382127075043802	Local number WO Bh	98.....	496-497
Well 381939075052101	Local number WO Cg	72.....	498
Well 381037075234301	Local number WO Dd	7.....	499
Well 381457075174101	Local number WO De	36.....	500
Well 381427075081102	Local number WO Dg	21.....	501
Well 380408075335701	Local number WO Fb	2.....	502

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**DELAWARE:**KENT COUNTY

Well 391747075364202	Local well number	Hc34-03	504-513
Well 391233075433102	Local well number	Ib32-05	504-513
Well 390652075370701	Local well number	Jc43-05	504-513
Well 390533075380501	Local well number	Jc52-04	504-513
Well 390503075354001	Local well number	Jc55-03	504-513
Well 390619075290901	Local well number	Je41-08	504-513
Well 385817075265101	Local well number	Le24-11	504-513
Well 385713075253701	Local well number	Le35-11	504-513

NEWCASTLE COUNTY

Well 394224075340501	Local well number	Cd31-19	514-519
Well 393122075383201	Local well number	Ec42-15	514-519
Well 392414075361001	Local well number	Gc14-03	514-519

SUSSEX COUNTY

Well 384927075170501	Local well number	DG-4	520-549
Well 384926075170502	Local well number	DG-8	520-549
Well 384926075170503	Local well number	DG-8S	520-549
Well 384925075170501	Local well number	DG-9	520-549
Well 384926075170601	Local well number	DZ-0	520-549
Well 384926075170602	Local well number	DZ-1	520-549
Well 384926075170504	Local well number	DZ-2	520-549
Well 384926075170603	Local well number	DZ-3	520-549
Well 383705075192801	Local well number	Forest Hills 1	520-549
Well 384530075121101	Local well number	Nh53-01	520-549
Well 384322075394401	Local well number	Oc21-02	520-549
Well 384323075393201	Local well number	Oc21-03	520-549
Well 384150075265301	Local well number	Oe44-01	520-549
Well 384150075265302	Local well number	Oe44-02	520-549
Well 384326075050801	Local well number	Oi25-19	520-549
Well 384926075170501	Local well number	PH-DG-5	520-549
Well 384923075170901	Local well number	PH-UG	520-549
Well 383649075090801	Local well number	PN1	520-549
Well 383947075083401	Local well number	Pi12-08	520-549
Well 383308075382301	Local well number	Qc22-04	520-549
Well 383000075326001	Local well number	Qd52-09	520-549
Well 382825075081601	Local well number	Ri22-03	520-549
Well 384923075170601	Local well number	UG-2	520-549

**MARYLAND:**ANNE ARUNDEL COUNTY

Well 385406076383902	Local well number	AA Ed 65	550
Well 384833076415601	Local well number	AA Fc 34	550
Well 384833076415602	Local well number	AA Fc 35	550

BALTIMORE COUNTY

Well 394206076470201	Local well number	BA Ab 51	551-565
Well 394011076474601	Local well number	BA Ab 53	551-565
Well 394057076423301	Local well number	BA Ac 151	551-565
Well 394105076435901	Local well number	BA Ac 154	551-565
Well 394130076360101	Local well number	BA Ad 145	551-565
Well 394019076374501	Local well number	BA Ad 146	551-565
Well 394250076370801	Local well number	BA Ad 149	551-565
Well 394013076343001	Local well number	BA Ae 19	551-565
Well 393937076482101	Local well number	BA Bb 136	551-565
Well 393746076470001	Local well number	BA Bb 140	551-565
Well 393607076485001	Local well number	BA Bb 143	551-565
Well 393544076463401	Local well number	BA Bb 144	551-565
Well 393707076450801	Local well number	BA Bb 148	551-565
Well 393643076480201	Local well number	BA Bb 151	551-565
Well 393633076443801	Local well number	BA Bc 267	551-565
Well 393908076420301	Local well number	BA Bc 277	551-565
Well 393928076381301	Local well number	BA Bd 227	551-565
Well 393554076384401	Local well number	BA Bd 232	551-565
Well 393733076391301	Local well number	BA Bd 235	551-565
Well 393738076391401	Local well number	BA Bd 237	551-565
Well 393521076394301	Local well number	BA Bd 239	551-565
Well 393931076391601	Local well number	BA Bd 240	551-565
Well 393607076354701	Local well number	BA Bd 241	551-565
Well 393529076400101	Local well number	BA Bd 242	551-565
Spring 393708076345501	Local spring number	BA Be 37	551-565
Well 393519076344701	Local well number	BA Be 38	551-565
Well 393355076501901	Local well number	BA Ca 66	551-565
Well 393243076450901	Local well number	BA Cb 134	551-565

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**MARYLAND--Continued**BALTIMORE COUNTY--Continued

Well 393119076454501	Local well number	BA Cb 136	551-565
Well 393237076495601	Local well number	BA Cb 138	551-565
Well 393221076483401	Local well number	BA Cb 142	551-565
Well 393036076452901	Local well number	BA Cb 144	551-565
Well 393427076412201	Local well number	BA Cc 253	551-565
Well 393418076435301	Local well number	BA Cc 254	551-565
Well 393058076441701	Local well number	BA Cc 257	551-565
Well 393105076430401	Local well number	BA Cc 260	551-565
Well 393233076440601	Local well number	BA Cc 261	551-565
Well 393426076361401	Local well number	BA Cd 230	551-565
Well 393352076365301	Local well number	BA Cd 234	551-565
Well 393313076373701	Local well number	BA Cd 235	551-565
Spring 393212076365901	Local spring number	BA Cd 237	551-565
Well 393155076385301	Local well number	BA Cd 239	551-565
Well 393143076332601	Local well number	BA Ce 313	551-565
Well 392538076510101	Local well number	BA Da 123	551-565
Well 392943076485101	Local well number	BA Db 262	551-565
Well 392858076494201	Local well number	BA Db 263	566-580
Spring 392620076440001	Local spring number	BA Dc 59	566-580
Well 392931076410301	Local well number	BA Dc 444	566-580
Well 392841076400201	Local well number	BA Dc 445	566-580
Well 392537076423301	Local well number	BA Dc 447	566-580
Well 392650076433901	Local well number	BA Dc 450	566-580
Well 392522076415801	Local well number	BA Dc 462	566-580
Well 392707076443801	Local well number	BA Dc 463	566-580
Well 392731076420201	Local well number	BA Dc 465	566-580
Well 392928076380601	Local well number	BA Dd 300	566-580
Well 392959076310401	Local well number	BA De 636	566-580
Well 392635076312501	Local well number	BA De 640	566-580
Well 392636076312501	Local well number	BA De 641	566-580
Well 392814076271101	Local well number	BA Df 352	566-580
Well 392538076291401	Local well number	BA Df 353	566-580
Well 392648076251501	Local well number	BA Df 356	566-580
Well 392610076241701	Local well number	BA Dg 117	566-580
Well 392159076520101	Local well number	BA Ea 95	566-580
Well 392047076512201	Local well number	BA Ea 97	566-580
Well 392430076410301	Local well number	BA Ec 203	566-580
Well 392446076434101	Local well number	BA Ec 205	566-580
Well 392339076222701	Local well number	BA Eg 259	566-580
Well 391857076474301	Local well number	BA Fb 81	566-580

CAROLINE COUNTY

Well 390720075463501	Local well number	CO Ad 19	581-590
Well 385622075524501	Local well number	CO Cc 55	581-590
Well 385557075481201	Local well number	CO Cd 54	581-590
Well 385414075493001	Local well number	CO Dd 76	581-590
Well 385009075445001	Local well number	CO De 15	581-590
Well 385009075445002	Local well number	CO De 16	581-590
Well 384630075524801	Local well number	CO Ec 25	581-590
Well 384055075454801	Local well number	CO Fd 39	581-590

CARROLL COUNTY

Well 394200076551201	Local well number	CL Ae 1	591-592
Well 393754076512401	Local well number	CL Bf 184	591-592
Well 392504077002401	Local well number	CL Dd 192	591-592

CECIL COUNTY

Well 394248076112201	Local well number	CE Aa 41	593-599
Spring 393459076045001	Local spring number	CE Cc 40	593-599
Well 393011075532101	Local well number	CE Ce 60	593-599
Well 393252075530801	Local well number	CE Ce 86	593-599
Well 393341075482101	Local well number	CE Cf 81	593-599

CHARLES COUNTY

Well 382845076594901	Local well number	CH De 47	600
Well 382547076581101	Local well number	CH De 48	600
Well 382153076564201	Local well number	CH Ee 93	600
Well 381836076534101	Local well number	CH Ff 63	600

DORCHESTER COUNTY

Well 384002075475701	Local well number	DO Ah 12	601-605
Well 383608075501601	Local well number	DO Bg 74	601-605
Well 383328076153602	Local well number	DO Cb 8	601-605
Well 383403075431701	Local well number	DO Ci 8	601-605

FREDERICK COUNTY

Well 394200077190701	Local well number	FR Af 27	606-608
Spring 393218077271001	Local spring number	FR Cd 38	606-608
Spring 392552077262201	Local spring number	FR Dd 178	606-608
Well 392826077244801	Local well number	FR De 58	606-608
Well 392517077190401	Local well number	FR Df 35	606-608
Spring 391846077370501	Local spring number	FR Fb 12	606-608



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**MARYLAND--Continued****HARFORD COUNTY**

Spring 394153076325701	Local spring number	HA Aa	9	609-612
Well 394304076233501	Local well number	HA Ac	59	609-612
Well 393646076305301	Local well number	HA Ba	88	609-612
Spring 393800076240101	Local spring number	HA Bc	31	609-612
Well 393628076222601	Local well number	HA Bc	32	609-612
Well 393507076231801	Local well number	HA Bc	35	609-612
Well 393938076164501	Local well number	HA Bd	87	609-612
Well 393758076162001	Local well number	HA Bd	88	609-612
Well 393911076135001	Local well number	HA Be	40	609-612
Well 393158076302601	Local well number	HA Ca	23	609-612
Well 393156076264901	Local well number	HA Cb	290	609-612
Well 393021076241301	Local well number	HA Cc	201	609-612
Well 392709076212201	Local well number	HA Dc	124	609-612
Well 392626076141201	Local well number	HA De	300	609-612

**HOWARD COUNTY**

Well 391723077034601	Local well number	HO BC	305	613-614
Well 391600076595401	Local well number	HO Bd	411	613-614

**KENT COUNTY**

Well 391017077072701	Local well number	KE Bd	42	615-622
Well 391750076035401	Local well number	KE Bd	81	615-622
Well 391832075560801	Local well number	KE Be	46	615-622
Well 391832075560803	Local well number	KE Be	59	615-622
Well 391828075493801	Local well number	KE Bg	63	615-622
Well 391257076083901	Local well number	KE Cc	39	615-622

**MONTGOMERY COUNTY**

Well 391927077120801	Local well number	MO Be	62	623-624
Well 390802077283801	Local well number	MO Dd	68	623-624

**QUEEN ANNES COUNTY**

Well 391255076005601	Local well number	QA Be	36	625-654
Well 390608075510001	Local well number	QA Cg	66	625-654
Well 390850075533201	Local well number	QA Cg	67	625-654
Well 390055076184501	Local well number	QA Db	14	625-654
Well 390022076191801	Local well number	QA Db	15	625-654
Well 390059076191801	Local well number	QA Db	17	625-654
Well 390033076184501	Local well number	QA Db	23	625-654
Well 390117076191301	Local well number	QA Db	27	625-654
Well 390201076182701	Local well number	QA Db	30	625-654
Well 390201076182703	Local well number	QA Db	32	625-654
Well 390023076174301	Local well number	QA Db	34	625-654
Well 390119076191001	Local well number	QA Db	35	625-654
Well 390023076174302	Local well number	QA Db	37	625-654
Well 390217076181401	Local well number	QA Db	40	625-654
Well 390221076031401	Local well number	QA De	30	625-654
Well 390126075575401	Local well number	QA Df	54	625-654
Well 390126075575402	Local well number	QA Df	55	625-654
Well 390128075574501	Local well number	QA Df	61	625-654
Well 390235075542201	Local well number	QA Dg	44	625-654
Well 385825076202901	Local well number	QA Ea	39	625-654
Well 385820076202501	Local well number	QA Ea	42	625-654
Well 385554076213801	Local well number	QA Ea	45	625-654
Well 385825076201201	Local well number	QA Ea	48	625-654
Well 385505076215001	Local well number	QA Ea	59	625-654
Well 385701076212501	Local well number	QA Ea	60	625-654
Well 385812076202801	Local well number	QA Ea	61	625-654
Well 385718076211501	Local well number	QA Ea	77	625-654
Well 385718076211502	Local well number	QA Ea	78	625-654
Well 385757076200101	Local well number	QA Ea	79	625-654
Well 385757076200102	Local well number	QA Ea	80	625-654
Well 385718076211503	Local well number	QA Ea	81	625-654
Well 385705076212002	Local well number	QA Ea	82	625-654
Well 385705076212001	Local well number	QA Ea	83	625-654
Well 385847076184801	Local well number	QA Eb	144	625-654
Well 385843076155302	Local well number	QA Eb	155	625-654
Well 385852076195201	Local well number	QA Eb	156	625-654
Well 385852076195202	Local well number	QA Eb	157	625-654
Well 385024076222501	Local well number	QA Fa	54	625-654
Well 385133076201201	Local well number	QA Fa	58	625-654
Well 385254076201901	Local well number	QA Fa	60	625-655
Well 385434076215601	Local well number	QA Fa	63	655
Well 385454076214901	Local well number	QA Fa	64	655
Well 385236076215201	Local well number	QA Fa	66	655
Well 385023076222201	Local well number	QA Fa	67	655
Well 385254076201301	Local well number	QA Fa	72	655
Well 385227076215401	Local well number	QA Fa	74	655
Well 385155076200401	Local well number	QA Fa	75	655

## QUALITY OF GROUND WATER--Continued

Page

**MARYLAND--Continued:**ST MARYS COUNTY

Well 381921076372601	Local well number	SM Dd	70	.....	656-657
Well 381626076393401	Local well number	SM Dd	72	.....	656-657
Well 380724076251901	Local well number	SM Ff	36	.....	656-657
Well 380823076255501	Local well number	SM Ff	65	.....	656-657

SOMERSET COUNTY

Well 381535075391701	Local well number	SO Af	26	.....	658-663
Well 380703075461701	Local well number	SO Cd	55	.....	658-663
Well 380027075410802	Local well number	SO De	44	.....	658-663

TALBOT COUNTY

Well 385154076003801	Local well number	TA Be	91	.....	664
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WASHINGTON COUNTY

Well 394125077473201	Local well number	WA Ah	146	.....	665-666
Well 394253077390501	Local well number	WA Aj	75	.....	665-666
Well 394219077335301	Local well number	WA Ak	99	.....	665-666
Well 393211077170001	Local well number	WA Ch	60	.....	665-666
Well 393024077402901	Local well number	WA Ci	131	.....	665-666
Spring 392836077442701	Local spring number	WA Di	103	.....	665-666

WICOMICO COUNTY

Well 382418075314201	Local well number	WI Cf	226	.....	667-674
Well 382033075275801	Local well number	WI Cg	59	.....	667-674
Well 382403075233201	Local well number	WI Ch	50	.....	667-674
Well 382403075233202	Local well number	WI Ch	51	.....	667-674

WORCESTER COUNTY

Well 382635075030602	Local well number	WO Ah	36	.....	675-689
Well 382638075033001	Local well number	WO Ah	38	.....	675-689
Well 382214075041901	Local well number	WO Bh	28	.....	675-689
Well 382216075041201	Local well number	WO Bh	29	.....	675-689
Well 382215075041901	Local well number	WO Bh	84	.....	675-689
Well 382215075041902	Local well number	WO Bh	85	.....	675-689
Well 382215075041903	Local well number	WO Bh	89	.....	675-689
Well 382127075043802	Local well number	WO Bh	98	.....	675-689
Well 382127075043804	Local well number	WO Bh	101	.....	675-689
Well 381543075273801	Local well number	WO Cc	2	.....	675-689
Well 381543075273802	Local well number	WO Cc	3	.....	675-689
Well 381938075052001	Local well number	WO Cg	33	.....	675-689
Well 381754075083601	Local well number	WO Cg	76	.....	675-689
Well 381754075083603	Local well number	WO Cg	78	.....	675-689
Well 381953075051401	Local well number	WO Cg	87	.....	675-689
Well 380403075292901	Local well number	WO Fc	46	.....	675-689

## VOLUME 2. GROUND-WATER DATA

## INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Maryland and Delaware each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled **"Water Resources Data - Maryland and Delaware."**

This series of Water Resources Data reports for Maryland and Delaware began with the 1961 water year report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to surface, and ground-water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels. In the 1989 water year, the report format was changed to two volumes. Both volumes contained data on quantities of surface water, quality of surface and ground water, and ground-water levels. Volume 1 contained data on the Atlantic Slope Basins (Delaware River through Patuxent River Basins) and Volume 2 contained data on the Monongahela and Potomac River Basins. Beginning with the 1991 water year, Volume 1 contains all information on quantities of surface water and surface-water-quality data and Volume 2 contains ground-water levels and ground-water-quality data.

This report is Volume 2 in our 2001 water year Water Resources Data report series and includes records of water levels, and water quality of ground-water wells and springs. It contains discharge data records for 5 springs, water levels at 379 observation wells, and water-quality analyses for 238 wells, and 10 springs. Locations for ground-water-level wells are shown on figures 5 and 6. The location of the ground-water-quality sites are shown on figure 7. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maryland and Delaware.

Prior to introduction of this series and for several water years concurrent with it, water resources data for Maryland and Delaware were published in U.S. Geological Survey Water-Supply Papers. Data on water levels for the 1935 through 1974 water years were published under the title **"Ground-Water Levels in the United States."** The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from the Branch of Information Services, Box 25286, Federal Center, Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as **"U.S. Geological Survey Water-Data Report MD-DE-01-2."** For archiving and general distribution, the reports for 1971-74 water years also are identified as water data-reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information including current prices for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (410)238-4200.

## COOPERATION

The U.S. Geological Survey and agencies of the State of Maryland have had cooperative agreements for the collection of water-resource records from 1896 to 1909 and since 1924. Similar cooperative agreements have existed between the Survey and agencies of the State of Delaware, since 1943. Organizations that assisted in the funding or services in this report through cooperative agreements with the Survey or through the Maryland Geological Survey and Delaware Geological Survey are:

**Maryland Geological Survey**, Emery T. Cleaves, Director.

**Delaware Geological Survey**, Robert R. Jordan, State Geologist.

**Delaware Department of Transportation**, Nathan Howard, Secretary of Transportation.

**Delaware Department of Natural Resources and Environmental Control**, Nicholas A. DiPasquale,  
Secretary of Natural Resources and Environmental Control.

**Maryland Department of the Environment**, Drinking Water Program, John Grace.

**Maryland Department of Natural Resources, Research Assessment Service, Power Plant Research Program**,  
Peter Dunbar, Director

**Anne Arundel County Department of Public Works, Technical Engineering Division**, Laura Layton.

**Anne Arundel County Health Department, Division of Community and Environmental Health**,  
Sanitary Engineering Section, J. Thomas Gruver.

**Anne Arundel County Land Use and Environmental Office**, Betty Dixon, Land Use Officer

**Maryland-National Capitol Park and Planning Commission**, Nazin Baig, Environmental Planning Coordinator

**Charles County Department of Planning and Growth Management**, Roy Hancock, Director

**Queen Annes Department of Public Works**, D. Steven Walls, Director

**Town of Ocean City, Water Department**, Ronald Ellis, Superintendent.

**U.S. Air Force, Dover Air Force Base, 436th Civil Engineer Squadron, Environmental Flight**,  
Jo Anne Deramo, Restoration Program Manager.

**U.S. Army Garrison, Aberdeen Proving Ground, Environmental Conservation and Restoration Division**,  
Kenneth P. Stachiw, Division Chief.

**U.S. Navy, Naval Air Station Patuxent River**, Captain Charles Miller, Director of Public Works.

**Washington Metropolitan Area Transit Authority**, Harry Lupia, Director of Engineering and Architecture.

Organizations and projects that provided data are acknowledged in the site **Remarks** description.

## SUMMARY OF HYDROLOGIC CONDITIONS

**Ground-Water Levels**

This report presents spring discharges, well water levels and water-quality analyses from 17 ground-water studies in Maryland and Delaware. The following ground-water hydrologic summary for the 2001 water year includes data collected from the Maryland and Delaware cooperative water-level monitoring networks. In some cases, a short-term project water-level monitoring well may provide valuable data not recorded by a State network well, and will be incorporated into the summary.

Ground-water use in Maryland and Delaware continues to increase with population growth, especially with more people living in rural areas. Growth areas in Southern Maryland, and the northern parts of the Delmarva Peninsula of both Maryland and Delaware are causing water users to withdraw ground water from deeper aquifers. As ground-water users' demands increase, water-level data can provide critical information on how best to manage this natural resource. Ground-water-level observation wells provide the necessary information to properly evaluate, plan, and manage ground-water resources. Water-table monitoring wells can alert users during periods of drought and assist with implementing water-use conservation measures. Artesian aquifers, mostly used in the Coastal Plain, provide large quantities of water for municipalities, industry, and individual dwellings. Water-level monitoring wells provide the means to track ground-water withdrawal effects on Coastal Plain aquifers, and how best to manage water use.

The 2001 water year was a year of lower than normal precipitation across Maryland and Delaware. Precipitation totals reported by the National Oceanic and Atmospheric Administration (NOAA) ranged from approximately 31 to 44 inches. The average annual precipitation amount in the bi-state area as observed by NOAA during the period 1961 through 1990 ranges from under 36 to over 52 inches. The six water-table index wells shown in figure 1 give an overview of how ground-water levels responded to precipitation across the region during the 2001 water year. These graphs show the average, maximum, minimum, and the 2001 water year water levels. In general, the 2001 water year water-level trend on figure 1 are slightly above or below the long-term average range.

In Southern Maryland and the northern area of the Delmarva Peninsula, where Coastal Plain artesian aquifers are the main source for municipal water supplies, water levels continued to decline. Water-level conditions are summarized below by physiographic province.

**Appalachian Plateau.**-- Ground-water levels at the start of the 2001 water year were about average as seen in GA Bc 1 (fig. 1). Precipitation records from the Oakland weather station reflect very closely the fluctuation in ground-water levels versus recharge by precipitation. Water levels dropped slightly below the average in April, but rebounded to average levels by the end of the water year. No record high or low water levels were recorded in the five Maryland Water-Level Monitoring Network wells in this physiographic province.

**Valley and Ridge.**-- Water-table levels were at long-term average levels at the start of the water year. Well WA Be 2 (fig. 1) reflects the general trend in water-level fluctuations throughout the 2001 water year. Water-table levels remained in the normal range throughout the 2001 water year, deviating slightly below the average water levels during the winter and late spring. Wells WA Bk 25, WA Ch 106, and WA Ci 82 had water levels that were slightly below the average water level through most of the water year. No record high or low water levels were recorded in the six Maryland Water-Level Monitoring Network wells. There were no record high or low discharges for spring WA Di 103.

**Blue Ridge.**-- Well WA Dj 2 on South Mountain, and well FR Bd 96, on Catoctin Mountain are near peak elevations on these mountain ranges in this physiographic province. Both wells recorded average water levels throughout the 2001 water year. Spring FR Fb 12, near the base elevation of the physiographic province recorded below average discharges throughout the 2001 water year. No record high or low water levels or record discharges were recorded in the 2001 water year.

**Piedmont.**-- Ground-water levels were at average or slightly below average for the 17 water-table wells in the Piedmont Physiographic Province at the beginning of the 2001 water year. The hydrograph for well MO Eh 20 (fig. 1) indicates below average levels throughout the water year. Several Piedmont wells had water-level increases to above average levels, which can be attributed to local summer rain storms. The general trend in water levels at the end of the water year was downward. No high or low record water levels or record spring discharges (CE Cc 40, and HA Aa 9) were recorded during the 2001 water year.

Water levels in the four wells (MO Cb 26, MO Db 68, MO Dc 59, and MO Ec 10) in the Newark-Gettysburg Basin of Maryland, and the Bachman Valley well (CL Bf 184) were below long-term average levels throughout the water year. Well MO Db 68 water levels were affected by local ground-water withdrawals from the National Institutes of Health, Animal Center. Well MO Dc 59 was affected by ground-water withdrawals from nearby Poolesville, Maryland.

**Coastal Plain.**-- Ground-water levels were above the long-term average in water-table wells unaffected by pumpage at the start of the 2001 water year. Most of the water-table observation wells recorded above average water levels until near the end of the water year, when the levels ranged around the seasonal average. Water-table well CH Ee 16, on the western shore of the Chesapeake Bay, and well Jd42-03, on the Delmarva Peninsula (fig. 1.), show similar water-level trends. Water-table wells near ground-water pumping centers were generally below average water levels (See well WI Cf 3, fig. 1).

Artesian aquifers on the western shore of the Chesapeake Bay lie close to their surface-recharge zones at the southeastern edge of the Piedmont Physiographic Province. It is in this outcrop belt that these aquifers receive most of their ground-water recharge. This area is heavily populated because of its close proximity to the Baltimore-Washington and Annapolis metropolitan areas. These areas rely exclusively on ground-water supplies, except for the northwestern part of Prince Georges County, where the Washington Suburban Sanitary Commission supplies surface water from the Potomac and Patuxent Rivers. Water levels in artesian aquifers (identified in parentheses) declined in the following towns or areas of Maryland and Delaware due to the increase in ground-water withdrawals because of population growth: Cecilton (Lower Patapsco); Elkton (Lower Patapsco); St. Charles (Patuxent, Lower Patapsco, Magothy); southern Anne Arundel County (Aquia); and Waldorf (Patuxent, Lower and Upper Patapsco, Magothy).

In the Baltimore industrial area, water levels in the Patuxent aquifer have recovered to a near natural dynamic steady state due to the significant decrease in ground-water withdrawal since 1997. Major ground-water users in the Baltimore industrial area have changed from using ground water, to being served primarily by the Baltimore City public-supply system.

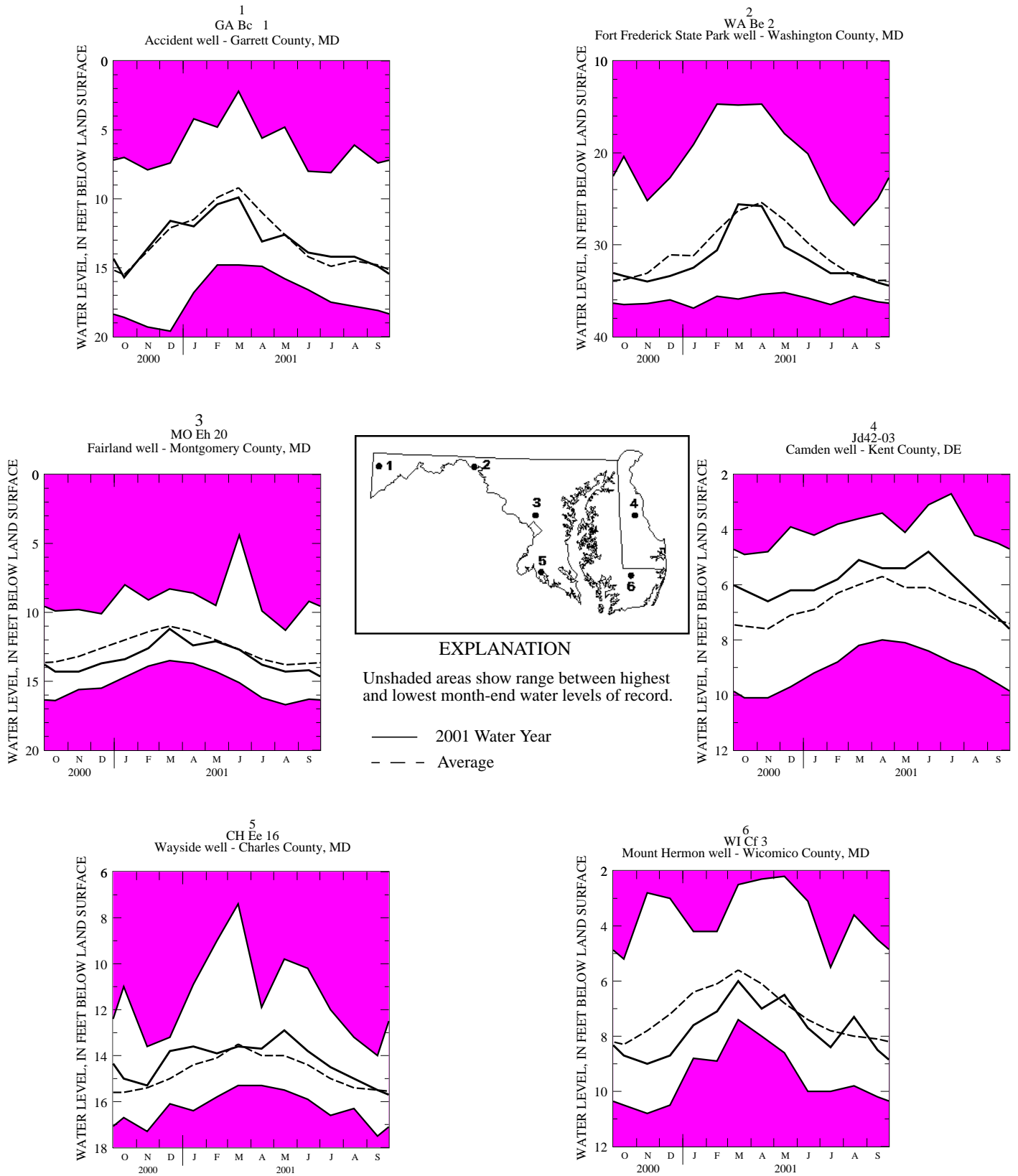
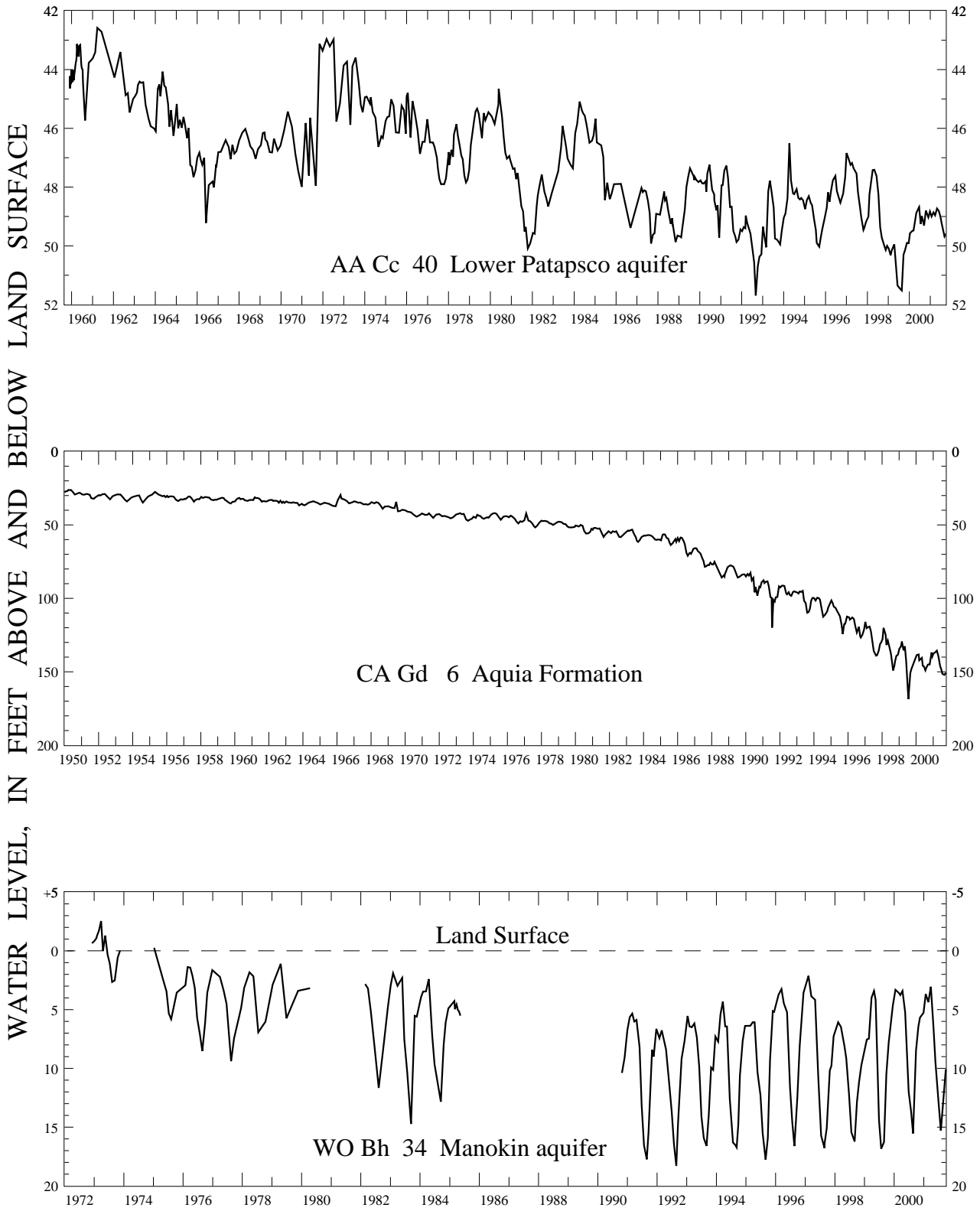


Figure 1.--Monthly ground-water levels at key observation wells.



**FIGURE 2.-Ground-water levels in selected observation wells in confined Coastal Plain aquifers in Maryland.**

## SPECIAL NETWORKS AND PROGRAMS

The ground-water **Collection of Basic Records (CBR)** National network provides a framework for collecting and disseminating ground-water-level data characterizing climatic variability. The network fills a unique national need and can be used for local, regional, and National investigations of ground-water response to droughts and other climatic effects. The Maryland and Delaware CBR network water-table observation wells period of record hydrographs are shown on figure 3.

**The National Water-Quality Assessment (NAWQA) Program** of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to coordinate efforts among the agencies. Additional information about the NAWQA program is available through the world wide web at:

[http://water.usgs.gov/nawqa/nawqa\\_home.html](http://water.usgs.gov/nawqa/nawqa_home.html)

### NAWQA Programs in the MD-DE-DC, District

#### The Potomac-Delmarva Peninsula Study Unit (PODL NAWQA)

The Potomac River Basin and Delmarva Peninsula study units of the U.S. Geological Survey National Water-Quality Assessment (NAWQA) program have been combined into a single project the Potomac-Delmarva Peninsula study (PODL NAWQA). As the NAWQA program restarts in these areas, the relative emphasis of study components is shifting from documenting the occurrence and distribution of selected constituents, which was the primary focus in the first round of projects, to enhanced efforts toward understanding the processes controlling water quality, trends in water quality, and the relation of these trends on ecological conditions. The goals will be achieved through integrated assessments of hydrology, geology, and biology. The new project began in October 2000 and will complete its current cycle in 2007. During the study period, and continuing after it, specific surface-water and ground-water sites will be monitored continuously for analysis of water-quality trends. Below is an overview of the preliminary objectives of the Delmarva Peninsula, and Potomac River Basin study units.

#### The Delmarva Peninsula Study Unit (Delmarva NAWQA)

The Delmarva Peninsula NAWQA study, one of 7 pilot studies, was active during the period 1986-1991 and restarted in 1999. The Delmarva study has given resource managers information about the extent of ground-water contamination caused by agricultural and residential land use. For example, the study has shown that high concentrations (greater than 10 milligrams per liter) of nitrate, which is a known hazard to human health, are commonly found in water samples from most parts of the surficial aquifer, including the lower parts of the aquifer that are used for water supply. Pesticides generally are not found in deep parts of the surficial aquifer, but they could migrate to these zones during the next few decades.

#### Potomac River Basin Study Unit (Potomac NAWQA)

The Potomac River Basin NAWQA study began in 1991 with a wide variety of sampling approaches to evaluate water quality in streams and ground water. Streams are being evaluated through repetitive water sampling or through synoptic sampling of many streams. Biological assessments of aquatic insects, fish, and algae, and tissues from clams and fish as well as streambed sediment are being analyzed. Ground water is being evaluated by large-scale samplings of private wells in agricultural, urban, and suburban areas. A small-scale ground-water research basin is being studied as a representative setting in the Potomac River Basin. The first phase of the water-quality assessment for the Potomac River Basin study unit focused on nitrogen, phosphorous, and pesticides, which are the three most common contaminants in water. Analyses of these contaminants have begun to show which streams and ground-water reservoirs contain concentrations of these chemicals at levels harmful to humans and aquatic life; how concentrations of the chemicals vary seasonally; and the likely sources of these chemicals in streams and ground water.

## EXPLANATION OF THE RECORDS

The ground-water-levels and quality-of-ground-water records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain ground-water-level data and water-quality data for ground-water. The locations of the ground-water sites where the data were collected are shown in figures 5, 6, and 7. The following sections of text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

### Station Identification Numbers

Each well in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given well or spring and to no other. The number usually is assigned when a well is first established and is retained for that well or spring indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for ground-water well sites is based on geographic location. The "latitude-longitude" system is used for wells.

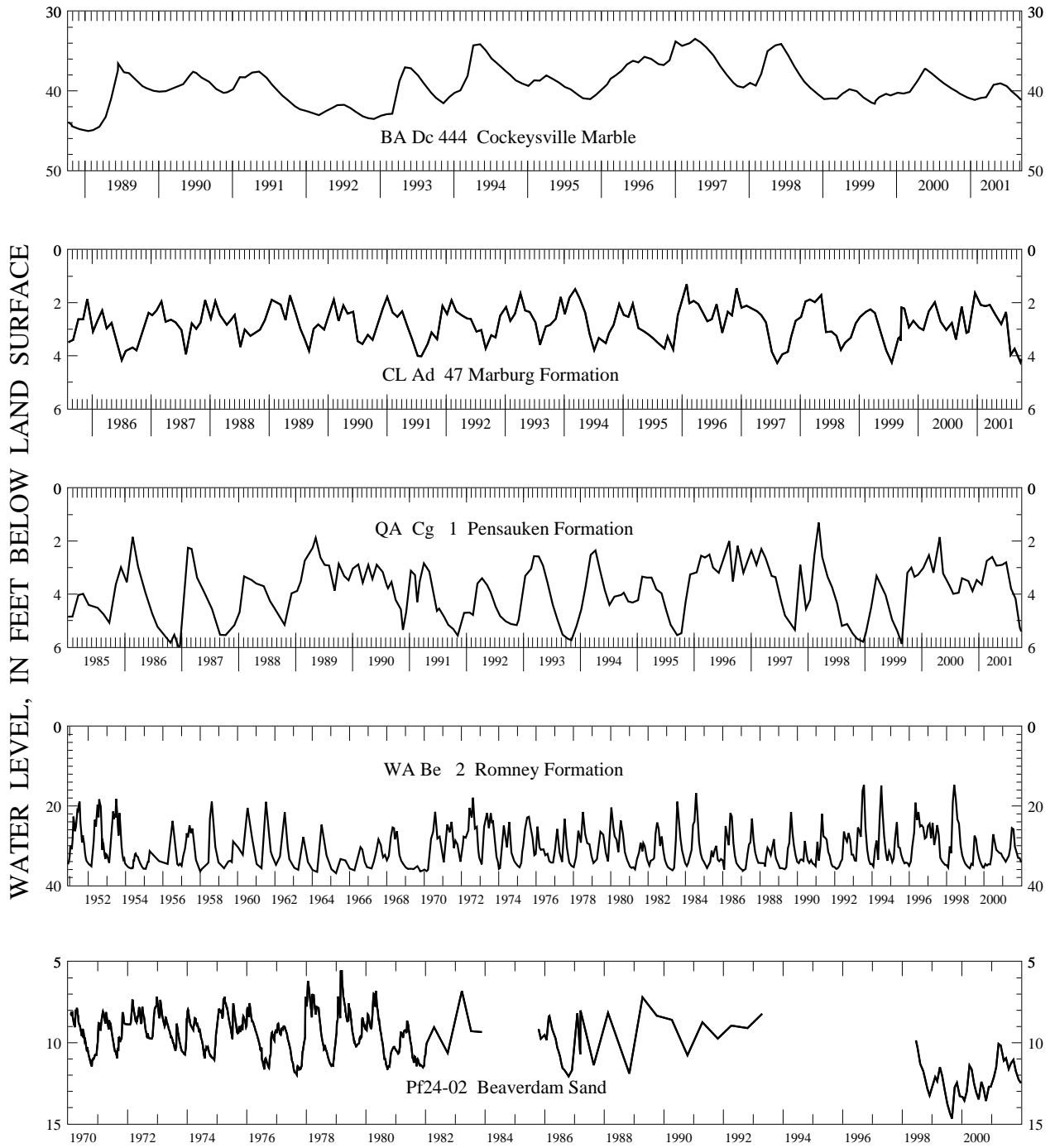


Figure 3. --Ground-water levels for Collection of Basic Records (CBR) network wells in Maryland and Delaware.



### Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells (or springs) or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the **LOCATION** paragraph of the station description as the correct latitude and longitude coordinates. (See Figure 4 below.)

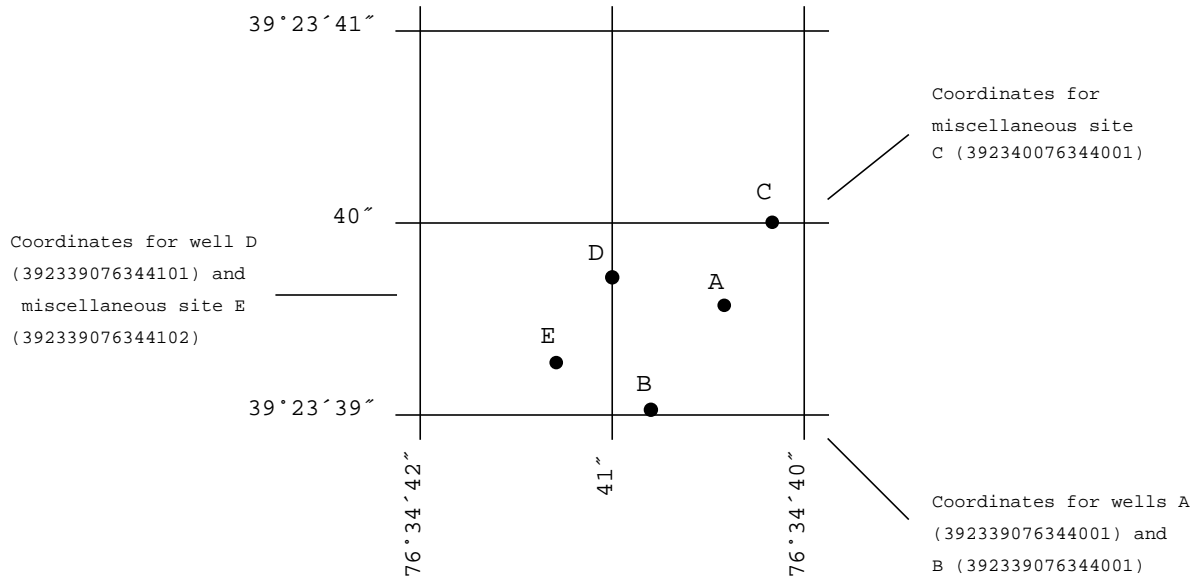


Figure 4.--System for numbering wells and miscellaneous sites (latitude and longitude).

### Well-Numbering System

#### Maryland

Wells in Maryland are also identified on the basis of a second numbering system established by the Maryland Geological Survey. The first two letters of the well number are the county prefix (for example, AL for Allegany). The second part of the well number consists of two letters that designate a 5-minute quadrangle within the county; the first letter (a capital letter) denotes a 5-minute segment of latitude from north to south, and the second letter (lower case) denotes a 5-minute segment of longitude from west to east. The wells are numbered sequentially within each 5-minute quadrangle. For example, well AL Ah 1 is the first well inventoried within the Ah 5-minute quadrangle in Allegany County. Baltimore City well numbers are based on 1-mile grids, with reference to the Washington Monument as the center. Thus, well 7S4E-1 is in the grid cell 7 miles south and 4 miles east of the Washington Monument, and is the first well inventoried in that grid cell.

#### Delaware

Delaware wells are identified by a numbering system instituted by the Delaware Geological Survey. The State is divided into 5-minute quadrangles of latitude and longitude. The quadrangles are lettered north to south with capital letters. Each 5-minute quadrangle is further subdivided into 25 1-minute blocks which are numbered from north to south from 1 to 5 and are numbered in the sequence in which they are inventoried. The identity of a well is established by prefixing the sequence number with an upper and lower case letter followed by two numbers to designate the 5-minute and 1-minute blocks, respectively, in which the well is located. For example, well number Cb41-03 is the third well to be scheduled in the 1-minute block 41 that has coordinate "Cb41".

### Records of Ground-Water Levels

Water-level data and spring discharges from the Maryland and Delaware Ground-Water-Level Monitoring Networks, and observation wells from 17 ground-water projects are reported. These data are intended to provide historical water-level information for ground-water management, and identify ground-water conditions in project areas. The observation-well networks were established to observe ground-water level fluctuations through time and to identify areas of man-induced stress on the ground-water-flow system. The locations of the State network spring and observation wells in Maryland and Delaware are shown on Figure 5. The locations of project wells are shown on Figure 6.

### Data Collection and Computation

Measurements of water levels are made in many types of water wells under various conditions. These methods of measurement are standardized to incorporate continuous precision. The equipment and measuring techniques used at each observation well ensure that the measurements at each well are of consistent accuracy and reliability.

The water-level data tables and hydrographs are presented in alphabetical order by counties. The primary identification number is the State well number that appears in the upper left hand corner. The secondary identification number is the 15-digit site identification number (see Latitude-Longitude System section on page 7).

Water levels are measured manually by steel tape or by an electric tape (meter) approximately every 4 to 6 weeks; some wells are equipped with continuous graph or digital water-level recorders to observe daily fluctuations. The water levels are reported to the nearest hundredth of a foot above or below land-surface datum (**l<sub>sd</sub>**) or sea level. Land-surface datum is a datum plane that is approximately at land surface at each well. The elevation of the land-surface datum and the height of the measuring point (**MP**) above or below land-surface datum is given in each well description. Water levels for wells equipped with graphic or digital recorders report the daily maximum and minimum values.

### Data Presentation

A description of each observation well precedes the water-level tables and hydrographs. The following information is given in the description:

**WELL NUMBER.**--(See **Well-Numbering System** section on page 7.)

**SITE ID.**--A 15-digit number: the first 6 digits are the latitude, the next 7 digits are the longitude, and the last 2 digits refer to the sequence number for identifying one or more wells at a particular latitude and longitude. The site ID is the best location at the time of inventory. The actual latitude and longitude may be slightly different as a result of more up-to-date knowledge of location. The site ID is basically used as an identification number and not an exact location. (See **Latitude-Longitude System** section on page 7.)

**PERMIT NUMBER.**--The permit number is the State permit number required for drilling wells in Maryland and Delaware. Upon completion of the well, the driller must submit a completion report which documents specific data on the construction of the well. This document also reports the pumpage results in terms of pumping period, yield as gallons per minute, and drawdown.

**LOCATION.**--The location is the latitude and longitude in the appropriate designation of degrees, minutes, and seconds. The hydrologic unit is a code for the river basin where the well is located (U.S. Geological Survey, Hydrologic Unit Map-1974 States of Maryland and Delaware). A brief local description of the location is also given along with the well-owner's name.

**AQUIFER.**--The aquifer is the geologic formation from which the well receives its water supply. Each aquifer is identified by its geologic age and the U.S. Geological Survey Ground Water Site Inventory (GWSI) data base aquifer code.

**WELL CHARACTERISTICS.**--This describes the type of well, the physical characteristics of the well, and the known construction information.

**INSTRUMENTATION.**--This provides information on the frequency of measurement of water levels and the continuous water-level equipment used.

**DATUM.**--This lists the altitude of land surface above sea level at the well to the nearest 10 feet as determined from a 7-1/2-minute quadrangle topographic map, or to the nearest hundredth or tenth of a foot as determined from surveying. The measuring point (**MP**) is the distance above or below the land surface at the point at which the water-level measurements are made.

**REMARKS.**--This section gives important miscellaneous data relevant to the well site.

**PERIOD OF RECORD.**--The period of record lists the beginning and ending month and year of water-level record or "current year" if the records are to be continued into the following year.

**EXTREMES FOR PERIOD OF RECORD.**--The extremes for period of record identify the date or dates of highest and lowest water-level measurements.

### Spring Discharge Tables

A table of discharge in gallons per minute follows the station description for each spring. The data appears in a table format showing date and discharge. The discharge measurements are measured volumetrically or by use of a flow meter.

### Water-Level Tables

A table of water levels follows the station description for each well. Water levels are reported in either of the following table formats:

**Hand-held measurements.**--If the data are collected by hand held measurements, the data appears in a table format of date and water level with the datum in reference to land surface or sea level. These values are reported to the nearest hundredth of a foot.

**Recorder.**--Water levels are presented in a two-page 6-month format by water year with columns for daily maximums and minimums. These data are reported in reference to either land surface or sea level datum. The daily maximum column for land-surface data represents the lowest daily water level recorded. The daily minimum column for land surface data represents the highest water level recorded. For sea level data, the daily maximum column represents highest daily water level recorded. The daily minimum column represents the lowest daily water level recorded. Missing data are represented by dashes in the table.

### Hydrographs

The hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, a 5-year hydrograph is shown starting October 1, 1996 through September 30, 2001. Hydrographs are either referenced to land surface or sea level datum. Each measurement is indicated by a circle and connected with a dashed line to indicate the trend from one measurement to the next. The trend line should be interpreted as a general direction of water-level movement. Actual water levels may deviate from this line. The trend line is not drawn if the measurements are greater than 60 days apart. Recorder data are graphed as a continuous line using the lowest water level recorded for each day. Missing data are indicated by a blank space. Missing data result from recorder malfunctions, battery or clock failures, and mechanical problems related to the response of water-level movement in a well. Spring hydrographs are a graphic display of total volumetric flow at the time of measurement in gallons per minute.

### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, are sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate or chloride concentrations. In special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes. The locations of water-quality wells in Maryland and Delaware are shown in Figure 7.

### Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of ground-water studies in specific areas. Consequently, a number of chemical analyses are presented for some counties, but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. This can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's) publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

### Data Presentation

The records of ground-water quality are published in a section titled **QUALITY OF GROUND WATER** immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well or spring number (**Well Number**). The prime identification number for wells or springs sampled is the 15-digit (**Site ID**) number derived from the latitude-longitude locations. The site ID includes a two-digit sequence number for use at locations having multiple sites. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

**Remark Codes**

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blank.
M	Presence of material verified but not quantified.

**WATER-QUALITY CONTROL DATA**

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District are described in the following section. Procedures have been established for the storage of water-quality-control data within the U.S. Geological Survey. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

**Blank Samples**

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analyses of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this District are:

**Field Blank** - a blank solution that is subjected to all aspects of sample collection, field-processing preservation, transportation, and laboratory handling as an environmental sample.

**Trip blank** - a blank solution that is processed through the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

**Equipment blank** - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

**Sampler blank** - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

**Filter blank** - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

**Splitter blank** - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

**Preservation blank** - a blank solution that is treated with the sampler preservatives used for an environmental sample.

**Reference Samples**

A Reference sample is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to insure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

### Replicate Samples

Replicate samples are a set of environmental samples collected in a manner so that the samples are considered to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this District are:

**Concurrent sample** - a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

**Sequential sample** - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

**Split sample** - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

### Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

**Concurrent sample** - a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

**Split sample** - a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

### ACCESS TO USGS DATA

The U.S. Geological Survey (USGS) is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Information System (NWIS) an updated version of the former National Water Data Storage and Retrieval System (WATSTORE) provides an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and for release of the data to the public. The District computer network system in Baltimore is the main data storage facility for Maryland, Delaware, and Washington, D.C. water data. The following data bases can be accessed for ground-water data:

**Ground-Water Site Inventory data base (GWSI)** - Contains inventory data for 30,411 ground-water wells, 810 springs, and 2,229 surface water sites. The ground-water data includes site location, geohydrologic characteristics, well construction and manually measured water-level data or spring improvements and discharges, along with other pertinent ground-water information.

**Automated Data Processing System (ADAPS)** - Contains daily values for 299 observation well water-levels and 726 streamflow stages, along with water temperature, specific conductance, and dissolved oxygen for surface water stations equipped with water-quality monitors.

**Quality Water Data base (QWDATA)** - Contains analyses of water samples which include environmental and quality control samples that describe the chemical, physical, biological, and radio-chemical characteristics of both ground-water sites ( 5,143 sites, 11,916 analyses), and surface-water stations (978 sites, 44,674 analyses).

**State Water Use Data System (SWUDS)** - Contains water user consumption information for 2,214 Maryland, and 515 Delaware ground-water water use appropriations, and 764 Maryland surface water use appropriations with monthly and daily water use totals.

Some water-quality and ground-water data also are available through the world wide web (WWW). These data may be accessed at:

<http://md.water.usgs.gov/>

Specific ground-water real-time and near real-time water-level observation well data and hydrographs can be accessed on the Maryland, Delaware and Washington, D.C., Water Resources Division district world wide web (WWW) page at:

[http://md.water.usgs.gov/groundwater/web\\_wells/current/water\\_table/counties/index.htm](http://md.water.usgs.gov/groundwater/web_wells/current/water_table/counties/index.htm)

[http://md.water.usgs.gov/groundwater/web\\_wells/current/confined/counties/index.htm](http://md.water.usgs.gov/groundwater/web_wells/current/confined/counties/index.htm)

In addition, data can be provided in various machine-readable formats on 3-1/2 inch floppy disk and CD. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (**See address on back of the title page**).

## DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

**Acid neutralizing capacity (ANC)** is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

**Adenosine triphosphate (ATP)** is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

**Algal growth potential (AGP)** is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

**Alkalinity** is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

**Aquifer** is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

**Aroclor** is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

**Artesian** means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

**Bacteria** are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

**Biochemical oxygen demand (BOD)** is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

**Biomass** is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

**Cells/volume** refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

**Chemical oxygen demand (COD)** is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

**Clostridium perfringens (C. perfringens)** is a spore-forming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

**Coliphages** are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of waters and of the survival and transport of viruses in the environment.

**Color unit** is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

**Confined aquifer** is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well. (See also "Aquifer")

**Continuous-record station** is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

**Daily-record station** is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

**Data logger** is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

**Datum** is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

**Dissolved** refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

**Dissolved oxygen (DO)** is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

**Dissolved-solids concentration** in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L  $\text{CaCO}_3$ ) can be converted to carbonate concentration by multiplying by 0.60.

**Enterococcus bacteria** are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also "Bacteria")

**Escherichia coli (E. coli)** are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

**Estimated (E) value** of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

**Extractable organic halides (EOX)** are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediments.

**Fecal coliform bacteria** are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

**Fecal streptococcal bacteria** are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

**Gas chromatography/flame ionization detector (GC/FID)** is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

**Hardness** of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ( $\text{CaCO}_3$ ).

**Hydrologic benchmark station** is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

**Hydrologic unit** is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

**Laboratory Reporting Level (LRL)** is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.]

**Land-surface datum (lsd)** is a datum plane that is approximately at land surface at each ground-water observation well.

**Lipid** is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

**Long-Term Method Detection Level (LT-MDL)** is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

**Measuring point (MP)** is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain water level.

**Membrane filter** is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

**Metamorphic stage** refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

**Method Detection Limit (MDL)** is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

**Methylene blue active substances (MBAS)** are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

**Micrograms per gram (UG/G,  $\mu\text{g/g}$ )** is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

**Micrograms per kilogram (UG/KG,  $\mu\text{g/kg}$ )** is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

**Micrograms per liter (UG/L,  $\mu\text{g/L}$ )** is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

**Microsiemens per centimeter (US/CM,  $\mu\text{S/cm}$ )** is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

**Milligrams per liter (MG/L, mg/L)** is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

**Minimum Reporting Level (MRL)** is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

**Most probable number (MPN)** is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

**Nanograms per liter (NG/L, ng/L)** is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

**National Geodetic Vertical Datum of 1929 (NGVD of 1929)** is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88> (See "North American Vertical Datum of 1988")

**The National Water-Quality Assessment (NAWQA)** Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

**North American Vertical Datum of 1988 (NAVD 1988)** is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and U.S. first-order terrestrial leveling networks.

**Open or screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

**Organic carbon (OC)** is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

**Organism count/area** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter ( $\text{m}^2$ ), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.



**Organism count/volume** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

**Organochlorine compounds** are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

**Parameter Code** is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

**Partial-record station** is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

**Particle size** is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine the fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

**Particle-size classification**, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024- 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

**Percent composition or percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

**Periphyton** is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

**Pesticides** are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

**pH** of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

**Picocurie (PC, pCi)** is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (**disintegrations per minute**).

**Polychlorinated biphenyls (PCBs)** are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

**Polychlorinated naphthalenes (PCNs)** are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

**Primary productivity** is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (**chiefly, green plants**). The rate of primary production is estimated by measuring the amount of oxygen released (**oxygen method**) or the amount of carbon assimilated (**carbon method**) by the plants.

**Replicate samples** are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

**Sea level**, as used in this report, refers to one of the two commonly used national vertical datums, (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See conversion of units page (inside back cover) for identification of the datum used in this report.

**Sodium adsorption ratio (SAR)** is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

**Specific electrical conductance (conductivity)** is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (**in milligrams per liter**) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

**Stable isotope ratio (per MILL/MIL)** is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom: Animal  
 Phylum: Arthropoda  
 Class: Insecta  
 Order: Ephemeroptera  
 Family: Ephemeridae  
 Genus: *Hexagenia*  
 Species: *Hexagenia limbata*

Temperature preferences:

**Cold** - preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

**Warm** - preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

**Cool** - intermediate between cold and warm water temperature preferences.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many **VOCs** are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. **VOC** contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the "2001 water year."

WDR is used as an abbreviation for "Water-Data Report" in the "REVISED RECORDS" paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

**Book 1. Collection of Water Data by Direct Measurement****Section D. Water Quality**

- 1-D1. **Water temperature--influential factors, field measurements, and data presentation**, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. **Guidelines for collection and field analysis of ground-water samples for selected unstable constituents**, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

**Book 2. Collection of Environmental Data****Section D. Surface Geophysical Methods**

- 2-D1. **Application of surface geophysics to ground-water investigations**, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. **Application of seismic-refraction techniques to hydrologic studies**, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

**Section E. Subsurface Geophysical Methods**

- 2-E1. **Application of borehole geophysics to water-resources investigations**, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. **Borehole geophysics applied to ground-water investigations**, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

**Section F. Drilling and Sample Methods**

- 2-F1. **Application of drilling, coring, and sampling techniques to test holes and wells**, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

**Book 3. Application of Hydraulics****Section A. Surface-Water Techniques**

- 3-A1. **General field and office procedures for indirect discharge measurements**, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. **Measurement of peak discharge by the slope-area method**, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. **Measurement of peak discharge at culverts by indirect methods**, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. **Measurement of peak discharge at width contractions by indirect methods**, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. **Measurement of peak discharge at dams by indirect methods**, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. **General procedure for gaging streams**, by R. W. Carter and Jacob Dividian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. **Stage measurements at gaging stations**, T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. **Discharge measurements at gaging stations**, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. **Measurement of time of travel and dispersion in streams by dye tracing**, by F. A. Kilpatrick, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. **Discharge ratings at gaging stations**, E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. **Measurement of discharge by moving-boat method**, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

**Book 3. Application of Hydraulics--Continued****Section A. Surface-Water Techniques--Continued**

- 3-A12. **Fluorometric procedures for dye tracing**, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. **Computation of continuous records of streamflow**, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. **Use of flumes in measuring discharge**, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. **Computation of water-surface profiles in open channels**, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. **Measurement of discharge using tracers**, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. **Acoustic velocity meter systems**, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. **Determination of stream reaeration coefficients by use of tracers**, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter 18. 1989. 52 pages.
- 3-A19. **Levels of streamflow gaging stations**, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. **Simulation of soluble waste transport and buildup in surface waters using tracers**, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. **Stream-gaging cableways**, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

**Section B. Ground-Water Techniques**

- 3-B1. **Aquifer-test design, observation, and data analysis**, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. **Introduction to ground-water hydraulics, a programmed text for self-instruction**, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. **Type curves for selected problems of flow to wells in confined aquifers**, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. **Regression modeling of ground-water flow**, by R. L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. **Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems**, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. **Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction**, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. **The principle of superposition and its application in ground-water hydraulics**, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. **Analytical solutions for one-, two-, and three dimensional solute transport in ground-water systems with uniform flow**, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.

**Section C. Sedimentation and Erosion Techniques**

- 3-C1. **Fluvial sediment concepts**, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. **Field methods of measurement of fluvial sediment**, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. **Computation of fluvial-sediment discharge**, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

**Book 4. Hydrologic Analysis and Interpretation****Section A. Statistical Analysis**

- 4-A1. **Some statistical tools in hydrology**, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. **Frequency curves**, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

**Book 4. Hydrologic Analysis and Interpretation--Continued****Section B. Surface Water**

- 4-B1. **Low-flow investigations**, by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. **Storage analyses for water supply**, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. **Regional analyses of streamflow characteristics**, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

**Section D. Interrelated Phases of the Hydrologic Cycle**

- 4-D1. **Computation of rate and volume of stream depletion by wells**, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

**Book 5. Laboratory Analysis****Section A. Water Analysis**

- 5-A1. **Methods for determination of inorganic substances in water and fluvial sediments**, by M.J. Fishman and L.C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. **Determination of minor elements in water by emission spectroscopy**, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. **Methods for determination of organic substances in water and fluvial sediments**, by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. **Methods for collection and analysis of aquatic biological and microbiological samples**, by L.J. Britton and P.E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. **Methods for determination of radioactive substances in water and fluvial sediments**, by L. L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. **Quality assurance practices for the chemical and biological analyses of water and fluvial sediments**, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

**Section C. Sediment Analysis**

- 5-C1. **Laboratory theory and methods for sediment analysis**, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

**Book 6. Modeling Techniques****Section A. Ground Water**

- 6-A1. **A modular three-dimensional finite-difference ground-water flow model**, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. **Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model**, by S.A. Leake and D.E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. **A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual**, by L.J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. **A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions**, by R.L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. **A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details**, by L.J. Torak: USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.
- 6-A6. **A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction**, by E.D. Swain and E.J. Wexler: USGS--TWRI Book 6, Chapter A6. 1995. 125 pages.

**Book 7. Automated Data Processing and Computations****Section C. Computer Programs**

- 7-C1. **Finite difference model for aquifer simulation in two dimensions with results of numerical experiments**, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. **Computer model of two-dimensional solute transport and dispersion in ground water**, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. **A model for simulation of flow in singular and interconnected channels**, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

**Book 8. Instrumentation****Section A. Instruments for Measurement of Water Level**

- 8-A1. **Methods of measuring water levels in deep wells**, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. **Installation and service manual for U. S. Geological Survey manometers**, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

**Section B. Instruments for Measurement of Discharge**

- 8-B2. **Calibration and maintenance of vertical-axis type current meters**, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

**Book 9. Handbooks for Water-Resources Investigations****Section A. National Field Manual for the Collection of Water-Quality Data**

- 9-A1. **National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling**, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A1. 1998. 47 pages.
- 9-A2. **National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A2. 1998. 94 pages.
- 9-A3. **National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A3. 1998. 75 pages.
- 9-A4. **National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A4. 1999. 166 pages.
- 9-A5. **National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A5. 1999. 149 pages.
- 9-A6. **National Field Manual for the Collection of Water-Quality Data: Field Measurements**, edited by F.D. Wilde and D.B. Radtke: USGS--TWRI Book 9, Chapter A6. 1998. 48 pages.
- 9-A7. **National Field Manual for the Collection of Water-Quality Data: Biological Indicators**, edited by D.N. Myers and F.D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997. 49 pages.
- 9-A8. **National Field Manual for the Collection of Water-Quality Data: Bottom-material samples**, edited by D.B. Radtke: USGS--TWRI Book 9, Chapter A8. 1998. 48 pages.
- 9-A9. **National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities**, edited by S.L. Lane and R.G. Fay: USGS--TWRI Book 9, Chapter A9. 1998. 60 pages.

## SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE

Listed below is a selection of reports on ground-water resources in Delaware, which are available through the U.S. Geological Survey, Branch of Information Services, Federal Center, Building 41, Box 25286, Denver, Colorado 80225 or through E-mail at [http://mapping.usgs.gov/esic/prices/other\\_publications.html](http://mapping.usgs.gov/esic/prices/other_publications.html).

## Professional Papers

**Water Resources of the Delaware River Basin**, by G.G. Parker, A.G. Hely, W.B. Keighton, F.H. Olmsted, and others: U.S. Geological Survey Professional Paper 381. 1965. 200 pages.

**Base flow as an indicator of aquifer characteristics in the Coastal Plain of Delaware**, by R.H. Johnston: U.S. Geological Survey Professional Paper 750-D. 1971. pages D212-D215.

**Structural and stratigraphic frameworks and spatial distribution of the permeability of the Atlantic Coastal Plain, New York to North Carolina**, by P.M. Brown, J.A. Miller, and F.M. Swain: U.S. Geological Survey Professional Paper 796. 1972.

**Water resources of the Delmarva Peninsula**, by E.M. Cushing, I.H. Kantrowitz, and K.R. Taylor: U.S. Geological Survey Professional Paper 822. 1972. 58 pages.

**Geohydrologic appraisal of the Northern Atlantic Coastal Plain in parts of North Carolina, Virginia, Maryland, Delaware, New Jersey, and New York**, by Henry Trapp, Jr., and Harold Meisler: U.S. Geological Survey Professional Paper 1404-A. 1991. 163 pages.

**Hydrogeologic framework of the Coastal Plain sediments in Maryland, Delaware, and the District of Columbia, as developed for the Northern Atlantic Regional Aquifer Systems Analysis (RASA)**, by D.A. Vroblesky, and W.B. Fleck: U.S. Geological Survey Professional Paper 1404-E. 1989. 45 pages.

**Simulation of the ground-water flow system of the Coastal Plain sediments, Maryland, Delaware, and the District of Columbia**, by W.B. Fleck, and D.A. Vroblesky: U.S. Geological Survey Professional Paper 1404-J. 1996.

**Geohydrology and simulation of ground-water flow in the northern Atlantic Coastal Plain aquifer system**, by P.P. Leahy: U.S. Geological Survey Professional Paper 1404-K. 1994. 81 pages.

## Water-Supply Papers

**Delaware in Underground waters of the Eastern United States: Geological Survey Research**, by N.H. Darton, and M.L. Fuller: U.S. Geological Survey Water-Supply Paper 114-A. 1905. pages 111-113.

**Beach-area water supplies between Ocean City, Maryland, and Rehoboth Beach, Delaware**, by T.H. Slaughter: U.S. Geological Survey Water-Supply Paper 1619-T. 1962.

**Ground-water resources of southern New Castle County, Delaware**, by D.R. Rima, O.J. Coskery, and P.W. Anderson: U.S. Geological Survey Water-Supply Paper 1756. 1964. 54 pages.

**Effects of eustatic sea-level changes on saltwater-freshwater in the northern Atlantic Coastal Plain**, by Harold Meisler, P.P. Leahy, and L.L. Knobel: U.S. Geological Survey Water-Supply Paper 2255. 1984. 28 pages.

**Delaware ground-water resources**, in National Water Summary 1984, by A.L. Hodges, Jr.: U.S. Geological Survey Water-Supply Paper 2275. 1985. pages 167-172.

**Delaware water supply and use**, by A.L. Hodges, Jr., R.D. Varrin, and P.J. Cherry, in National Water Summary 1987--Water supply and use: U.S. Geological Survey Water-Supply Paper 2350. 1989. pages 207-214.

**Ground-water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Analysis of available water-quality data through 1987**, by P.A. Hamilton, and R.J. Shedlock: U.S. Geological Survey Water-Supply Paper 2355-B. 1989. 186 pages.

## Hydrologic Investigation Atlases

**Water-table, surface-drainage, and engineering soils map of the St. Georges area, Delaware**, by J.K. Adams, and D.H. Boggess: U.S. Geological Survey Hydrologic Investigation Atlas 60. 1963. 1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Newark area, Delaware**, by D.H. Boggess, and J.K. Adams: U.S. Geological Survey Hydrologic Investigation Atlas 64. 1963. 1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Wilmington area, Delaware**, by J.K. Adams, and D.H. Boggess: U.S. Geological Survey Hydrologic Investigation Atlas 79. 1964. 1 map. scale 1:24,000.



## SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

## Hydrologic Investigation Atlases--Continued

- Water-table, surface-drainage and engineering soils map of the Taylors Bridge area, Delaware,**  
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 80. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Smyrna area, Delaware,** by J.K. Adams,  
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 81. 1964. 1 map.  
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- Water-table, surface-drainage and engineering soils map of the Middletown area, Delaware,** by J.K. Adams,  
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 82. 1964. 1 map.  
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- Water-table, surface-drainage and engineering soils map of the Clayton area, Delaware,** by J.K. Adams,  
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 83. 1964. 1 map.  
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- Water-table, surface-drainage and engineering soils map of the Sharptown area, Delaware,** by J.K. Adams,  
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- Water-table, surface-drainage and engineering soils map of the Greenwood quadrangle, Delaware,**  
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- Water-table, surface-drainage and engineering soils map of the Hickman area, Delaware,** by J.K. Adams,  
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- Water-table, surface-drainage and engineering soils map of the Lewes area, Delaware,**  
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 103. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Seaford West area, Delaware,**  
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 105. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Seaford East area, Delaware,**  
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 106. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Georgetown quadrangle, Delaware,**  
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- Water-table, surface-drainage and engineering soils map of the Harbeson quadrangle, Delaware,**  
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 108. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Rehoboth Beach area, Delaware,**  
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 109. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Frankford area, Delaware,**  
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 119. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Trap Pond area, Delaware,**  
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 120. 1964.  
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- Water-table, surface-drainage and engineering soils map of the Bethany Beach area, Delaware,**  
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## SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

## Hydrologic Investigation Atlases--Continued

**Water-table, surface-drainage and engineering soils map of the Laurel area, Delaware,**  
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 123. 1964.  
1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Marydel area, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 132.  
1964-65. 1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Milford quadrangle, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 133.  
1964-65. 1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Little Creek quadrangle, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 134.  
1964-65. 1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Burrsville area, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 135.  
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**Water-table, surface-drainage and engineering soils map of the Harrington quadrangle, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 136.  
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**Water-table, surface-drainage and engineering soils map of the Mispillion River, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 137.  
1964-65. 1 map. scale 1:24,000.

**Water-table, surface-drainage and engineering soils map of the Kenton area, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 138.  
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**Water-table, surface-drainage and engineering soils map of the Dover quadrangle, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 139.  
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**Water-table, surface-drainage and engineering soils map of the Frederica area, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 140.  
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**Water-table, surface-drainage and engineering soils map of the Wyoming quadrangle, Delaware,**  
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 141.  
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## Water-Resources Investigations Reports

**Ground-Water Temperature of the Wyoming quadrangle in central Delaware, with application to ground-water-source heat pumps,** by A.L. Hodges, Jr.: U.S. Geological Survey Water-Resources Investigations Report 82-53. 1983. 29 pages.

**A three-dimensional ground-water flow model modified to reduce computer memory requirements and better simulate confining bed and aquifer pinchouts,** by P.P. Leahy: U.S. Geological Survey Water-Resources Investigations Report 82-4023. 1982. 59 pages.

**Ground-water temperature of the Wyoming quadrangle in central Delaware, with application to ground-water-source heat pumps,** by A.L. Hodges, Jr.: U.S. Geological Survey Water-Resources Investigations Report 82-53. 1983. 29 pages.

**Simulated ground-water flow in the Potomac aquifers, New Castle County, Delaware,** by M.M. Martin: U.S. Geological Survey Water-Resources Investigations Report 84-4007. 1985. 85 pages, 1 plate.

**Hydrogeology, degradation of groundwater quality, and simulation of infiltration from the Delaware River into the Potomac aquifers, northern Delaware,** by S.W. Phillips: U.S. Geological Survey Water-Resources Investigations Report 87-4185. 1988. 86 pages.

**Water levels, chloride concentrations, and pumpage in the Coastal aquifers of Delaware and Maryland,** by D.J. Phelan: U.S. Geological Survey Water-Resources Investigations Report 87-4229. 1988. 106 pages.

**Water Use in the St. Jones River Basin, Kent County, Delaware, 1983-86,** by D.J. Phelan: U.S. Geological Survey Water-Resources Investigation Report 90-4094. 1990. 30 pages.

**Nitrate and Selected Pesticides in Ground Water of the Mid-Atlantic Region,** by S.W. Ator and M.J. Ferrari: U.S. Geological Survey Water-Resources Investigation Report 97-4139. 1997. 8 pages.

**Assessment of natural attenuation from three source areas in the East Management, Dover Air Force Base, Kent County, Delaware,** by L. Joseph Bachman, Martha L. Cashel, and Barbara A. Bekins: U.S. Geological Survey Water-Resources Investigation Report 98-4153. 1998. 46 pages.

## SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

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**Hydrogeology and simulation of Ground-Water Flow at Dover Air Force Base, Delaware**, by Kurt C. Hinaman and Frederick J. Tenbus: U.S. Geological Survey Water-Resources Investigation Report 99-4224. 2000. 72 pages.

## Open-File Reports

**Availability of ground water on the Delmarva Peninsula**, by A.J. Hodges, Jr.: U.S. Geological Survey Open-File Report 77-759. 1978. 6 pages.

**Preliminary delineation of salty ground-water in the northern Atlantic Coastal Plain**, by Harold Meisler: U.S. Geological Survey Open-File Report 81-71. 1981. 12 pages.

**Hydrologic data for the Potomac Formation in New Castle County, Delaware**, by Mary M. Martin: U.S. Geological Survey Open-File Report 81-916. 1982. 148 pages.

**Ground-water-quality data for the Atlantic Coastal Plain, Delaware, Maryland, Virginia, and North Carolina**, by LeRoy L. Knobel: U.S. Geological Survey Open-File Report 85-154. 1986. 84 pages.

**Ground-water quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia, project description**, by L. Joseph Bachman, Robert J. Shedlock, and Patrick J. Phillips: U.S. Geological Survey Open-File Report 87-112. 1988. 18 pages.

**Ground-Water studies in Delaware**, Gary N. Paulachok: U.S. Geological Survey Open-File Report 88-148. 1989. (fact sheet).

**Groundwater assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Analysis of available water-quality data through 1987**, by P.A. Hamilton, R.J. Shedlock, and P.J. Phillips: U.S. Geological Survey Open-File Report 89-34. 1990. 71 pages.

**Distribution of dissolved atrazine and two metabolites in the confined aquifer, southeastern Delaware**, by J.M. Denver, and M.W. Sandstrom: U.S. Geological Survey Open-File Report 91-88. 1992. 48 pages.

**Water quality assessment of the Delmarva Peninsula, Delaware, Maryland and Virginia -- Effects of agriculture activities on and distribution of, nitrate and other inorganic constituents in surficial aquifers**, by P.A. Hamilton, J.M. Denver, P.J. Phillips, and R.J. Shedlock: U.S. Geological Survey Open-File Report 93-40. 1993. 87 pages.

**Potentiometric maps and ground-water-level data for the industrial area northwest of Delaware City, Delaware, 1993-94**, by C.A. Donnelly, and K.C. Hinaman: U.S. Geological Survey Open-File Report 95-318. 1996. 1 plate.

**Selected Hydrogeologic and Chloride-Concentration Data for the Northern and Central Coastal area of New Castle County, Delaware**, by M.A. Hayes, S.W. Phillips, and J.C. Wheeler: U.S. Geological Survey Open-File Report 95-766. 1998. 37 pages.

**Water-Level data for the industrial area northwest of Delaware City, Delaware, 1993-94**, by C.A. Donnelly, and K.C. Hinaman: U.S. Geological Survey Open-File Report 96-125. 1996. 23 pages.

**Hydrogeologic and water-quality data for the East Management Unit of Dover Air Force Base, Kent County, Delaware, 1995-96**, by Joseph E. Beman, Daniel J. Phelan, Joel E. Dysart, Martha L. Cashel, and Vanessa C. Smith: U.S. Geological Survey Open-File Report 99-253. 1999. 95 pages.

## Unnumbered Report

**A summary of geologic and hydrologic data from an exploratory well drilled near Greenwood, Delaware**; U.S. Geological Survey. 1971. 18 pages.

## Circulars

**Northern Atlantic Coastal Plain regional aquifer-system study**, by Harold Meisler, in Regional Aquifer-System Analysis Program of the U.S. Geological Survey summary of projects, 1978-1984, R.J. Sun, editor: U.S. Geological Survey Circular 1002. 1986. pages 162-194.

**Are Fertilizers and Pesticides in the Ground Water? A case study of the Delmarva Peninsula, Delaware, Maryland, and Virginia**, by P.A. Hamilton and R.J. Shedlock: U.S. Geological Survey Circular 1080. 1992. 16 pages.

## SELECTED DELAWARE GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE

Listed below is a selection of reports on ground-water resources in Delaware which are available through the Delaware Geological Survey, by writing: Publications, Delaware Geological Survey, University of Delaware, Newark, DE 19716-7501 or through E-mail at <http://www.udel.edu/dgs/pubform.html>.

## Report of Investigations

**High-capacity test well developed at the Dover Air Force Base**, by W.C. Rasmussen, J.J. Groot, and A.J. Depman: Delaware Geological Survey Report of Investigations No. 2. 1958. 36 pages.

**Wells for the observation of chloride and water levels in aquifers that cross the Chesapeake and Delaware Canal**, by W.C. Rasmussen, J.J. Groot, and N.H. Beamer: Delaware Geological Survey Report of Investigation No. 3. 1958. 22 pages.

**Ground-water levels in Delaware, January 1962-June 1966**, by K.D. Woodruff: Delaware Geological Survey Report of Investigations No. 9. 1967. 28 pages.

**The Occurrence of saline ground-water in Delaware aquifers**, by K.D. Woodruff: Delaware Geological Survey Report of Investigations No. 13. 1969. 45 pages.

**General ground-water quality in fresh-aquifers of Delaware**, by K.D. Woodruff: Delaware Geological Survey Report of Investigations No. 15. 1970. 32 pages.

**Ground-water geology of the Delaware Atlantic seashore**, by J.C. Miller: Delaware Geological Survey Report of Investigations No. 17. 1971. 33 pages.

**Geology and ground water, University of Delaware, Newark, Delaware**, by K.D. Woodruff, J.C. Miller, R.R. Jordan, N. Spoljaric and T.E. Pickett: Delaware Geological Survey Report of Investigations No. 18. 1972. 40 pages.

**Configuration on the base and thickness of the unconfined aquifer in southeastern Sussex County, Delaware**, by J.M. Denver: Delaware Geological Survey Report of Investigations No. 20. 1983. 12 pages.

**Hydrogeology of selected sites in the greater Newark area, Delaware**, by J.H. Talley: Delaware Geological Survey Report of Investigations No. 22. 1974. 61 pages.

**Relation of ground water to surface water in four small basins of the Delaware Coastal Plain**, by R.H. Johnston: Delaware Geological Survey Report of Investigations No. 24. 1976. 56 pages.

**Hydraulic characteristics of the Piney Point aquifer and overlying confining bed near Dover, Delaware**, by P.P. Leahy: Delaware Geological Survey Report of Investigations No. 26. 1976. 24 pages.

**Ground-water investigations in the Delaware Piedmont for the City of Newark, 1976**, by W.F. Hahn: Delaware Geological Survey Report of Investigations No. 27. 1977. 26 pages.

**Well and aquifer tests, Laird Tract well field, Newark, Delaware**, by J.H. Talley, and W.F. Hahn: Delaware Geological Survey Report of Investigations No. 28. 1978. 26 pages.

**Digital model of the Piney Point aquifer in Kent County, Delaware**, by P.P. Leahy: Delaware Geological Survey Report of Investigations No. 29. 1979. 81 pages.

**Ground-water levels in Delaware, July, 1966-December, 1977**, by J.H. Talley: Delaware Geological Survey Report of Investigations No. 30. 1979. 50 pages.

**Hydrology of the Manokin, Ocean City, and Pocomoke aquifers of southeastern Delaware**, by A.L. Hodges: Delaware Geological Survey Report of Investigations No. 38. 1983. 60 pages.

**Sodium concentrations in water from the Piney Point Formation, Dover area, Delaware**, by N. Spoljaric: Delaware Geological Survey Report of Investigations No. 40. 1986. 14 pages.

**Hydrogeology and geochemistry of the unconfined aquifer, west-central and southwestern Delaware**, by J.M. Denver: Delaware Geological Survey Report of Investigations No. 41. 1986. 100 pages.

**Estimate of direct discharge of fresh ground water to Rehoboth and Indian River Bays**, by A.S. Andres: Delaware Geological Survey Report of Investigations No. 43. 1987. 37 pages.

**Ground-water levels in Delaware, January 1978-December 1987**, by J.H. Talley: Delaware Geological Survey Report of Investigations No. 44. 1988. 58 pages.

**Effects of agricultural practices and septic-system effluent on the quality of water in the unconfined aquifer in parts of eastern Sussex County, Delaware**, by J.M. Denver: Delaware Geological Survey Report of Investigation No. 45. 1989. 66 pages.

**Results of the coastal Sussex County, Delaware, ground-water quality survey**, by A.S. Andres: Delaware Geological Survey Report of Investigations No. 49. 1991. 28 pages.

**Herbicides in shallow ground-water at two agriculture sites in Delaware**, by J.M. Denver: Delaware Geological Survey Report of Investigations No. 51. 1993. 28 pages.

**Quality and Geochemistry of Ground Water in Southern New Castle County, Delaware**, by L.J. Bachman and M.J. Ferrari: Delaware Geological Survey Report of Investigations No. 52. 1995. 31 pages.

**The Occurrence and Distribution of Several Agricultural Pesticides in Delaware's Shallow Ground Water**, by Scott C. Blair and Stefanie J. Baxter: Delaware Geological Survey Report of Investigations No. 61. 2000. 27 pages.

## SELECTED DELAWARE GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

## Bulletins

**Ground-water problems in highway construction and maintenance**, by W.C. Rasmussen, and L.B. Haigler: Delaware Geological Survey Bulletin No. 1. 1953. 24 pages.

**Geology and ground-water resources of the Newark area, Delaware**, by J.J. Groot, and W.C. Rasmussen: Delaware Geological Survey Bulletin No. 2. 1954. 133 pages.

**Preliminary report on the geology and ground-water resources of Delaware**, by I.W. Marine, and W.C. Rasmussen: Delaware Geological Survey Bulletin No. 4. 1955. 336 pages.

**Ground-water resources of southern New Castle County, Delaware**, by D.R. Rima, O.J. Coskery, and P.W. Anderson: Delaware Geological Survey Bulletin No. 11. 1964. 54 pages.

**Geology, hydrology and geophysics of Columbia sediments in the Middletown-Odessa area, Delaware**, by N. Spoljaric, and K.D. Woodruff: Delaware Geological Survey Bulletin No. 13. 1973. 78 pages.

**Hydrology of the Columbia (Pleistocene) deposits of Delaware**, by R.H. Johnston: Delaware Geological Survey Bulletin No. 14. 1973. 7 pages.

**Digital model of the unconfined aquifer in central and southeastern Delaware**, by R.H. Johnston: Delaware Geological Survey Bulletin 15. 1977. 47 pages.

**Ground-water resources of the Piney Point and Cheswold aquifers in central Delaware as determined by a flow model**, by P.P. Leahy: Delaware Geological Survey Bulletin 16. 1982. 68 pages.

**Geology and Hydrology of the Cockeysville Formation Northern New Castle County, Delaware**, by J.H. Talley, Editor: contributions by M.O. Plank, W.H. Werkheiser, and K.D. Woodruff: Delaware Geological Survey Bulletin 19. 1995. 59 pages.

**Geology and Hydrology of the Cockeysville Formation Northern New Castle County, Delaware**, by K.D. Woodruff and M. O. Plank, **Geohydrology of the Hockessin area with emphasis on the Cockeysville Aquifer**, by W.H. Werkheiser: Delaware Geological Survey Bulletin No. 19. 1995. 59 pages.

**Stratigraphy of the Post-Potomac Cretaceous-Tertiary Rocks of Central Delaware**, by R.N. Benson and N. Spoljaric: Delaware Geological Survey Bulletin No. 20. 1996. 28 p.

## Open-File Reports

**A preliminary report on nitrate contamination of shallow ground waters in Delaware**, by J.C. Miller: Delaware Geological Survey Open-File Report No. 1. 1971. 7 pages.

**Geologic and Hydrologic aspects of landfills**, by N. Spoljaric, and J.H. Talley: Delaware Geological Survey Open-File Report No. 16. 1982. 22 pages.

**Ground-water availability in southern New Castle County, Delaware**, by J.J. Groot, P.M. Demicco, and P.J. Cherry: Delaware Geological Survey Open-File Report No. 23. 1983. 20 pages.

**Saturated thickness of the water-table aquifer in southern New Castle County, Delaware**, by J.J. Groot, P.M. Demicco, and P.J. Cherry: Delaware Geological Survey Open-File Report No. 24. 1983. 1 map.

**Saturated thickness of the Columbia Formation in southern New Castle County, Delaware**, by J.J. Groot, P.M. Demicco, and P.J. Cherry: Delaware Geological Survey Open-File Report No. 25. 1983. 1 map.

**Salinity distribution and ground-water circulation beneath the Coastal Plain of Delaware and the adjacent Continental Shelf**, by J.J. Groot: Delaware Geological Survey Open-File Report No. 26. 1983. 24 pages.

**Potential for ground-water recharge in the Coastal Plain of New Castle County, Delaware, sheet 1, Northern New Castle County (1983); 2 sheets, Chesapeake and Delaware Canal area (1985)**, by S. Petty, W.D. Miller, and B.A. Lanan; K.D. Woodruff, editor: Delaware Geological Survey Open-File Report No. 28. maps with discussion. scale 1:24,000.

**Source of ground-water contamination**, by J.H. Talley: Delaware Geological Survey Open File Report No. 29. 1985. 20 pages.

**Ground-Water Level and Chemistry Data from Coastal Sussex County, Delaware, Ground-Water Quality Survey**, by A.S. Andres: Delaware Geological Survey Open-File Report No. 33. 1991. 31 pages.

**Methodology for mapping ground-water recharge area in Delaware's Coastal Plain**, by A.S. Andres: Delaware Geological Survey Open-File Report No. 34. 1991. 18 pages. (reprinted 1992).

**Estimate of Nitrate Flux to Rehoboth and Indian River Bays, Delaware through direct discharge of Ground-Water**, by A.S. Andres: Delaware Geological Survey Open-File Report No. 35. 1992. 36 pages.

**Basic Data for the Geologic Map of the Seaford Area, Delaware**, by A.S. Andres, K.W. Ramsey, and W.S. Schenck: Delaware Geological Survey Open-File Report No. 39. 1995. 39 p.

## SELECTED DELAWARE GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

## Hydrologic Map Series

**Geohydrology of the Dover Area, Delaware**, by K.D. Woodruff: Delaware Geological Survey Hydrologic Map Series No. 1. 1972. Scale 1:24,000.

**Geohydrology of the Newark Area, Delaware**, by K.D. Woodruff: Delaware Geological Survey Hydrologic Map Series No. 2. Sheet 1, Basic Geology (1978); Sheet 2, Hydrologic Data (1979). Scale 1:24,000.

**Geohydrology of the Wilmington Area, Delaware**, by K.D. Woodruff: Delaware Geological Survey Hydrologic Map Series No. 3. Sheet 1, Basic Geology (1982); Sheet 2, Hydrologic Data (1984); Sheets 3 and 4, Structural Geology (1984, 1985). Scale 1:24,000.

**Geohydrology of the Milford Area, Delaware**, by J.H. Talley: Delaware Geological Survey Hydrologic Map Series No. 4. 1982. Scale 1:24,000.

**Geohydrology of the Northern Coastal Area, Delaware**, by A.S. Andres: Delaware Geological Survey Hydrologic Map Series No. 5. Sheet 1, Basic Geohydrologic Data (1986); Sheet 2, Geohydrology of the Columbia Aquifer (1987). Scale 1:24,000.

**Geohydrology of the Chesapeake and Delaware Canal Area, Delaware**, by K.D. Woodruff: Delaware Geological Survey Hydrologic Map Series No. 6. Sheet 1, Basic Geology (1986); Sheet 2, Thickness of confining unit beneath the Water-Table aquifer (1988). Scale 1:24,000.

**Geohydrology of the Southern Coastal Area, Delaware**, by J.H. Talley: Delaware Geological Survey Hydrologic Map Series No. 7. Sheet 1, Basic Geohydrologic Data (1987); Sheet 2, Geohydrology of the Columbia Aquifer (1988). Scale 1:24,000.

**Geohydrology of the Middletown-Odessa Area, Delaware**, by K.D. Woodruff: Delaware Geological Survey Hydrologic Map Series No. 8. 1992. Sheet 1, Basic Geology and Hydrology, Scale 1:24,000.

**Geohydrology of the Seaford Area, Delaware**, by A.S. Andres: Delaware Geological Survey Hydrologic Map Series No. 9. 1994. Scale 1:24,000.

## Water Level Reports

**Water levels and artesian pressures in Delaware-1952**, by I.W. Marine: Delaware Geological Survey Water Level Report No. 1. 1954. 11 pages.

**Water levels and artesian pressures in Delaware-1953**, by D.H. Boggess, and O.J. Coskery: Delaware Geological Survey Water Level Report No. 2. 1954. 10 pages.

**Water levels and artesian pressures in Delaware-1954**, by D.H. Boggess, and O.J. Coskery: Delaware Geological Survey Water Level Report No. 3. 1955. 10 pages.

**Water levels and artesian pressures in Delaware-1955**, by O.J. Coskery: Delaware Geological Survey Water Level Report No. 4. 1956. 10 pages.

**Water levels in Delaware-1956**, by O.J. Coskery: Delaware Geological Survey Water Level Report No. 5. 1958. 21 pages.

**Water levels in Delaware-1957**, by O.J. Coskery: Delaware Geological Survey Water Level Report No. 6. 1961. 22 pages.

**Water levels in Delaware-1958**, by O.J. Coskery: Delaware Geological Survey Water Level Report No. 7. 1961. 17 pages.

## Information Series

**Domestic Water Well Construction**, by J.H. Talley: Delaware Geological Survey Information Series No. 2. 1986.

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**Map showing the potentiometric surface of the Magothy aquifer in southern Maryland, September 1975**, by F.K. Mack, J.C. Wheeler, and S.E. Curtin: U.S. Geological Survey, 1978. 1 sheet.

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Listed below is a selection of reports on ground-water resources in Maryland which are available through the Maryland Geological Survey, 2300 St. Paul Street, Baltimore, Maryland 21218 or through E-mail at <http://mgs.dnr.gov/esic/publications/pubindex.html>.

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**Records of wells and springs in Baltimore County, Maryland**, by C.P. Laughlin: Maryland Geological Survey Basic Data Report No. 1. 1966. 406 pages.

**Records of wells and springs, chemical analysis, and selected well logs in Charles County, Maryland**, by T.H. Slaughter and C.P. Laughlin: Maryland Geological Survey Basic Data Report No. 2. 1966. 93 pages.

**Hydrogeologic data from the Janes Island State Park test well (1,514 Feet), Somerset County, Maryland**, by H.J. Hansen: Maryland Geological Survey Basic Data Report No. 3. 1967. 24 pages.

**Southern Maryland - Records of selected wells, water levels, and chemical analysis of water**, by J.M. Weigle and W.F. Webb: Maryland Geological Survey Basic Data Report No. 4. 1970. 48 pages.

**Deep wells of Maryland**, by Jonathan Edwards, Jr.: Maryland Geological Survey Basic Data Report No. 5. 1970. 160 pages.

**Worcester County Ground-Water information: Well records, chemical quality data, and pumpage**, by R.C. Lucas: Maryland Geological Survey Basic Data Report No. 6. 1972. 90 pages.

**Harford County Ground-Water information: Selected well records, chemical quality data, and pumpage**, by L.J. Nutter and M.J. Smigaj: Maryland Geological Survey Basic Data Report No. 7. 1975. 89 pages.

**Anne Arundel County Ground-Water information: Selected well records, chemical-quality data, pumpage, appropriation data, and selected well logs**, by R.C. Lucas: Maryland Geological Survey Basic Data Report No. 8. 1976. 149 pages.

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**Garrett County Water-Well records, chemical-quality data, ground-water use, coal test-hole, and surface-water data**, by L.J. Nutter, L.L. Knobel, and M.J. Smigaj, with a section on gas-well records compiled by K.A. Schwarz, and Jonathan Edwards, Jr.: Maryland Geological Survey Basic Data Report No. 11. 1980. 102 pages.

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**Records of selected wells, Calvert and St. Mary's Counties, Maryland**, by D.D. Drummond: Maryland Geological Survey Basic Data Report No. 14. 1984. 117 pages.

**Ground-Water and Surface-Water data Frederick County, Maryland**, by J.R. Dine, M.D. Tompkins, and M.T. Duigon: Maryland Geological Survey Basic Data Report No. 15. 1985. 240 pages.

**Hydrologic data for Cecil County, Maryland**, by R. E. Willey, R. A. McGregor, Joanne de Grouchy, and M.D. Tompkins: Maryland Geological Survey Basic Data Report No. 16. 1987. 150 pages.

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- Ground-Water and Surface-Water data for Washington County, Maryland**, by M.T. Duigon, J.R. Dine, and M.D. Tompkins: Maryland Geological Survey Basic Data Report No. 18. 1989. 273 pages.
- Hydrologic data for Howard County, Maryland**, by J.R. Dine, J.C. Adamski, and M.D. Tompkins: Maryland Geological Survey Basic Data Report No. 19. 1992. 240 pages.
- Ground-Water and Surface-Water data for Kent County, Maryland**, by M. D. Tompkins, B.F. Cooper, and D.D. Drummond: Maryland Geological Survey Basic Data Report No. 20. 1994. 155 pages.
- Ground-Water Level Data in Southern Maryland, 1946-94**, by S.E. Curtin and J.R. Dine: Maryland Geological Survey Basic Data Report No. 21. 1995. 365 pages.

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**Hydrogeologic Atlas Taneytown-Emmitsburg Quadrangles, Carroll County, Maryland,** by J.M. Weigle: Maryland Geological Survey Quadrangle Atlas No. 16. 1981. 5 maps.

**Hydrogeologic Atlas Union Bridge-Woodsboro Quadrangles, Carroll County, Maryland,** by J.M. Weigle: Maryland Geological Survey Quadrangle Atlas No. 17. 1981. 5 maps.

**Hydrogeologic Atlas Hereford Quadrangle, Baltimore County, Maryland,** by M.T. Duigon, and J.T. Hilleary: Maryland Geological Survey Quadrangle Atlas No. 18. 1981. 5 maps.

**Hydrogeologic Atlas Finksburg Quadrangle, Carroll County, Maryland,** by J.F. Williams: Maryland Geological Survey Quadrangle Atlas No. 19. 1981. 5 maps.

**Hydrogeologic Atlas New Freedom Quadrangle, Baltimore County, Maryland,** by M.T. Duigon: Maryland Geological Survey Quadrangle Atlas No. 20. 1983. 5 maps.

**Hydrogeologic Atlas Ellicott City Quadrangle, Baltimore and Howard Counties, Maryland,** by M.T. Duigon: Maryland Geological Survey Quadrangle Atlas No. 21. 1983. 5 maps.

**Hydrogeologic Atlas Phoenix Quadrangle, Baltimore and Harford Counties, Maryland,** by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 22. 1983. 5 maps.

**Hydrogeologic Atlas Norrisville Quadrangle, Baltimore and Harford Counties, Maryland,** by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 23. 1983. 5 maps.

**SELECTED U.S.GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN THE DISTRICT OF COLUMBIA**

Listed below is a selection of reports on ground-water resources in Washington, D.C. which are available through the U.S. Geological Survey, Book and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, Colorado 80225 or through E-mail at [http://mapping.usgs.gov/esic/prices/other\\_publications.html](http://mapping.usgs.gov/esic/prices/other_publications.html).

**Professional Paper**

**Hydrogeologic framework of the Coastal Plain of Maryland, Delaware, and the District of Columbia, as developed for the Northern Atlantic Regional Aquifer System Analysis (RASA),** U.S. Geological Survey, by D.A. Vroblesky, and W.B. Fleck: U.S. Geological Survey Professional Paper 1404-E, 1991, 45 pages.

**Water-Supply Papers**

**District of Columbia in Underground water of the Eastern United States,** Geological Survey Research, by N.H. Darton, and M.L. Fuller: U.S. Geological Survey Water-Supply Paper 114-A. 1905. pages 124-126.

**Geology and ground-water resources of Washington, D.C., and vicinity,** by P. M. Johnston, with a section on Chemical quality of the water, by D.E. Weaver and Leonard Siu: U.S. Geological Survey Water-Supply Paper 1776. 1964. 133 pages.

**Maryland and the District of Columbia in National Water Summary 1984, Hydrologic events--Selected water-quality trends, and ground-water resources,** by L.J. McGreevy, and J.C. Wheeler: U.S. Geological Survey Water-Supply Paper 2275, 1989. pages 243-248.

**Maryland and the District of Columbia water supply and use,** by J.C. Wheeler, in National Water Summary 1987--Water supply and use: U.S. Geological Survey Water-Supply Paper 2350, 1989. pages 291-298.

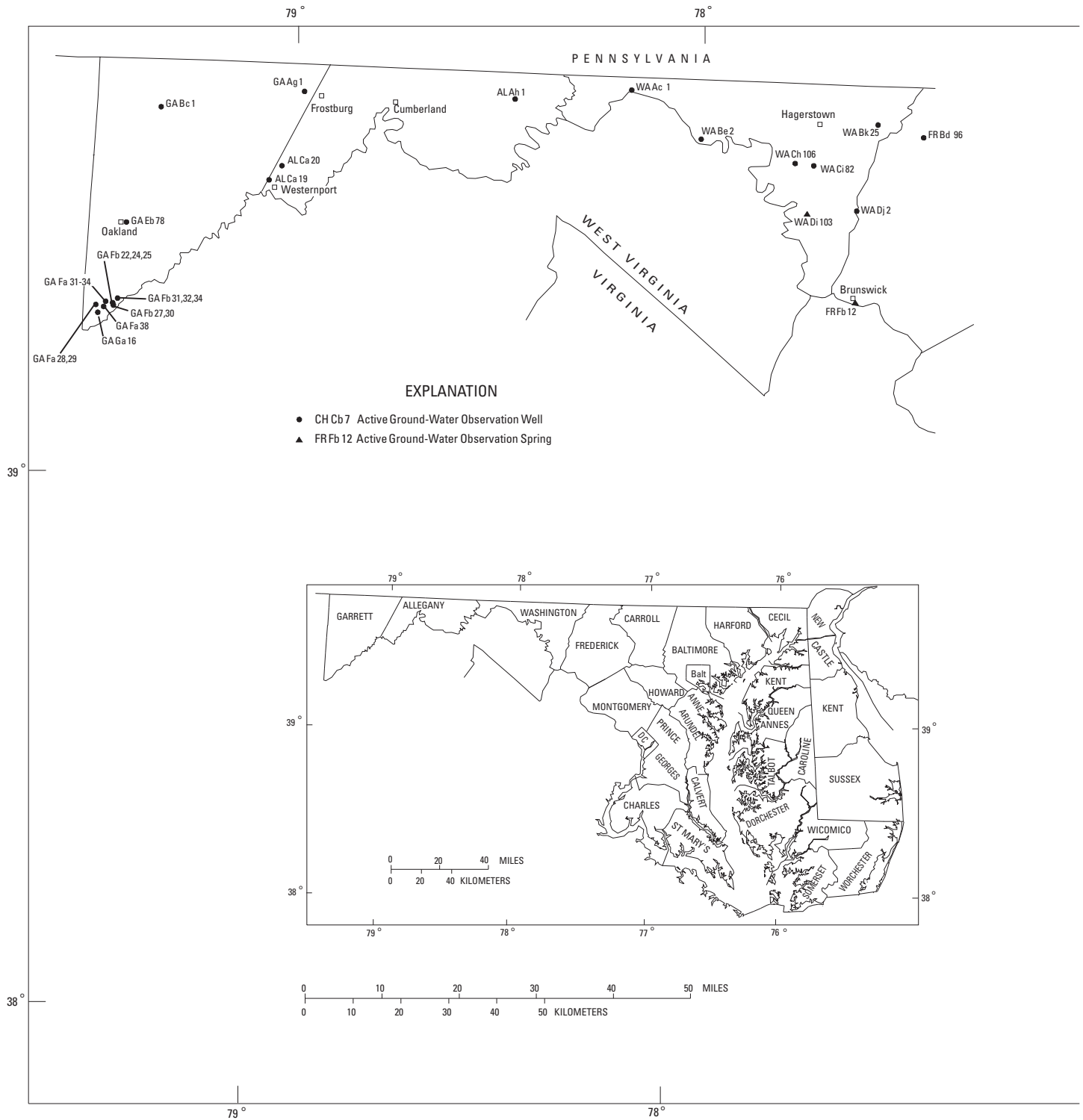
**Open-File Report**

**Maryland and the District of Columbia ground-water quality,** by J.C. Wheeler and L.B. Maclin: U. S. Geological Survey Open-File Report 87-0730. 1988. 10 pages.

**Circular**

**Water from the Coastal Plain aquifers in the Washington, D.C., metropolitan area,** by S.S. Papadopulos, R.R. Bennett, F.K. Mack, and P.C. Trescott: U.S. Geological Survey Circular 697. 1974. 11 pages.

WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2001



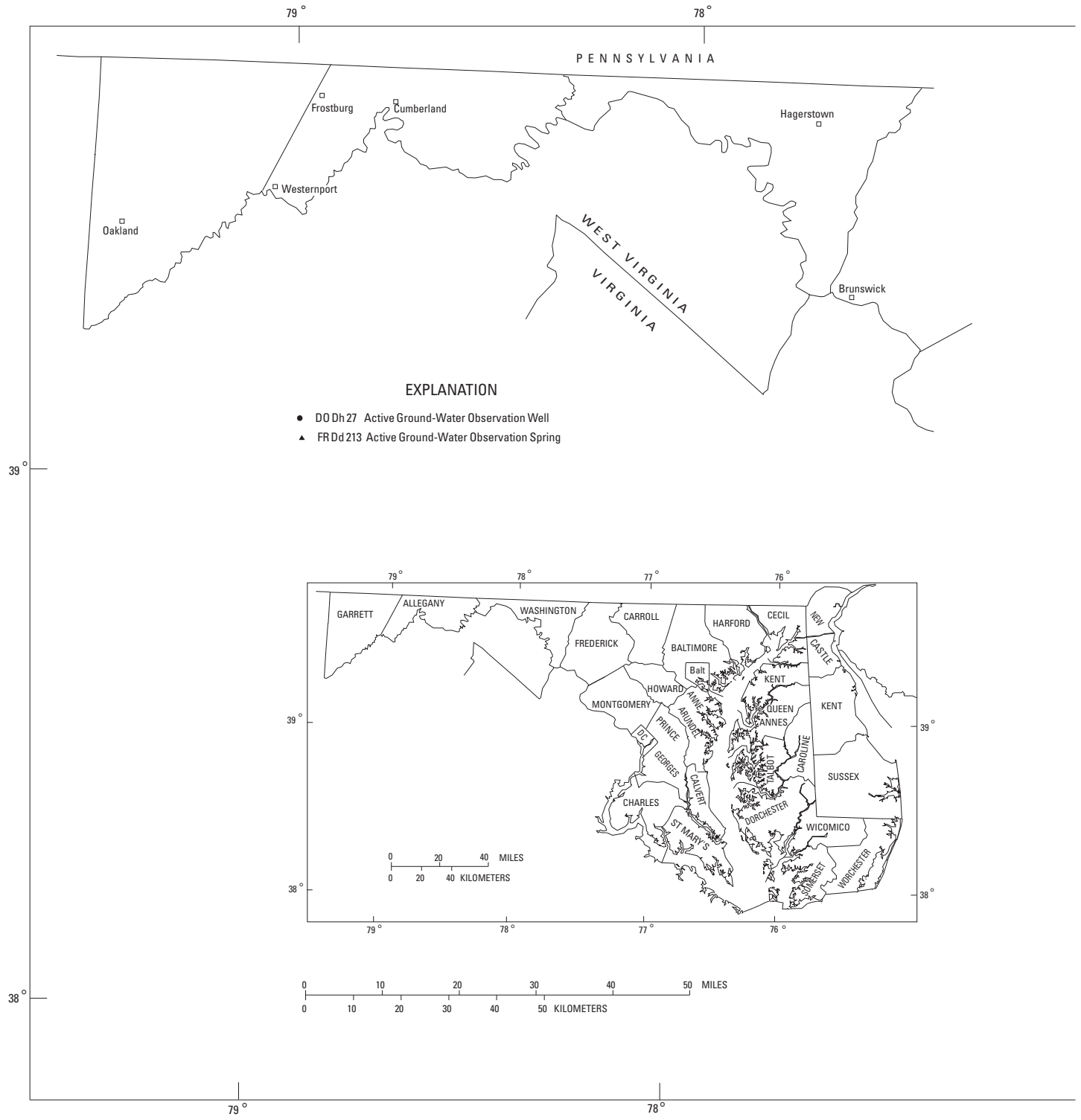
Base map modified from U.S. Geological Survey 1:100,000 DLG

Figure 5. Location of Maryland and Delaware ground-water network observation wells and springs.

# WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2001

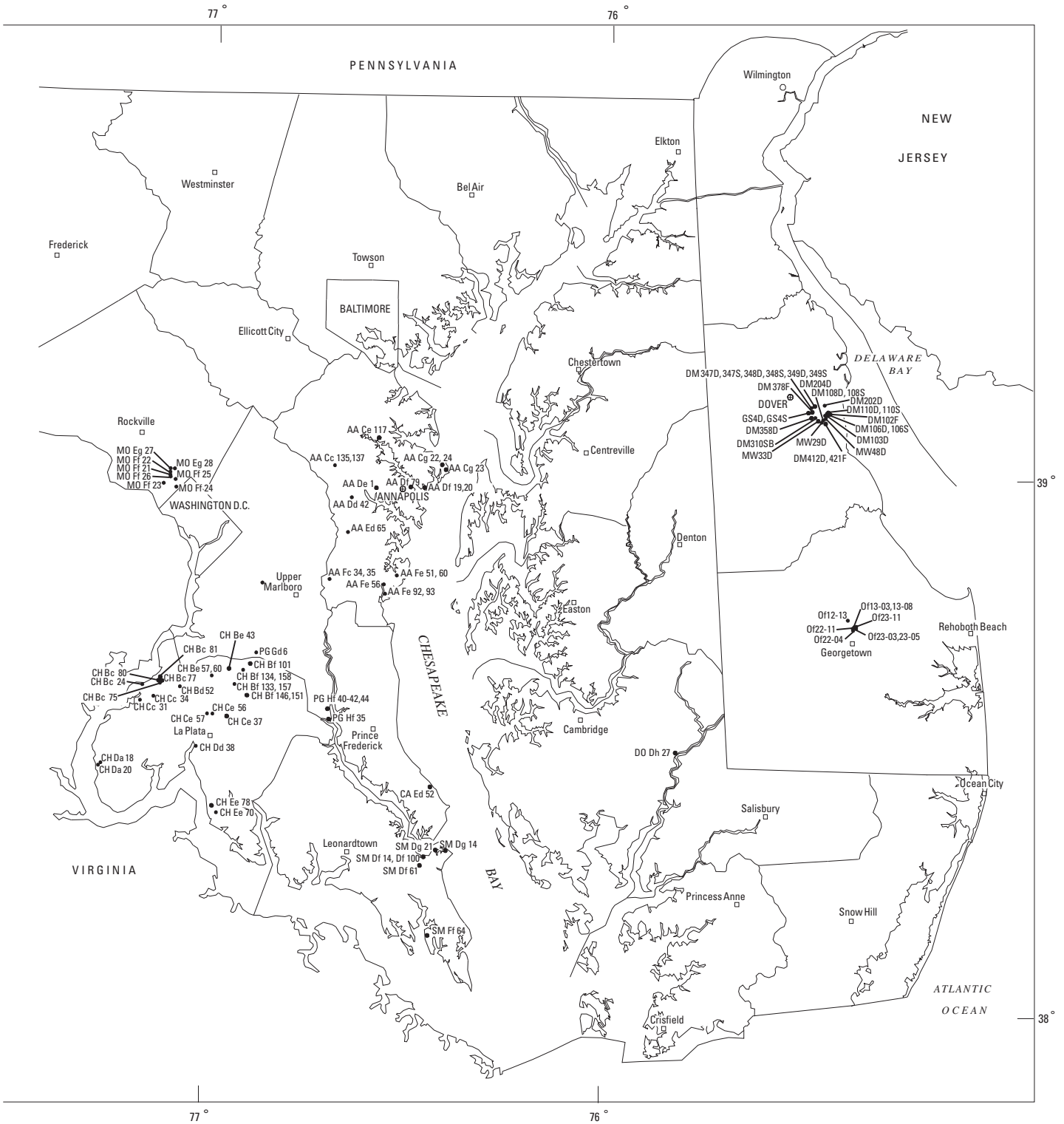


# WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2001

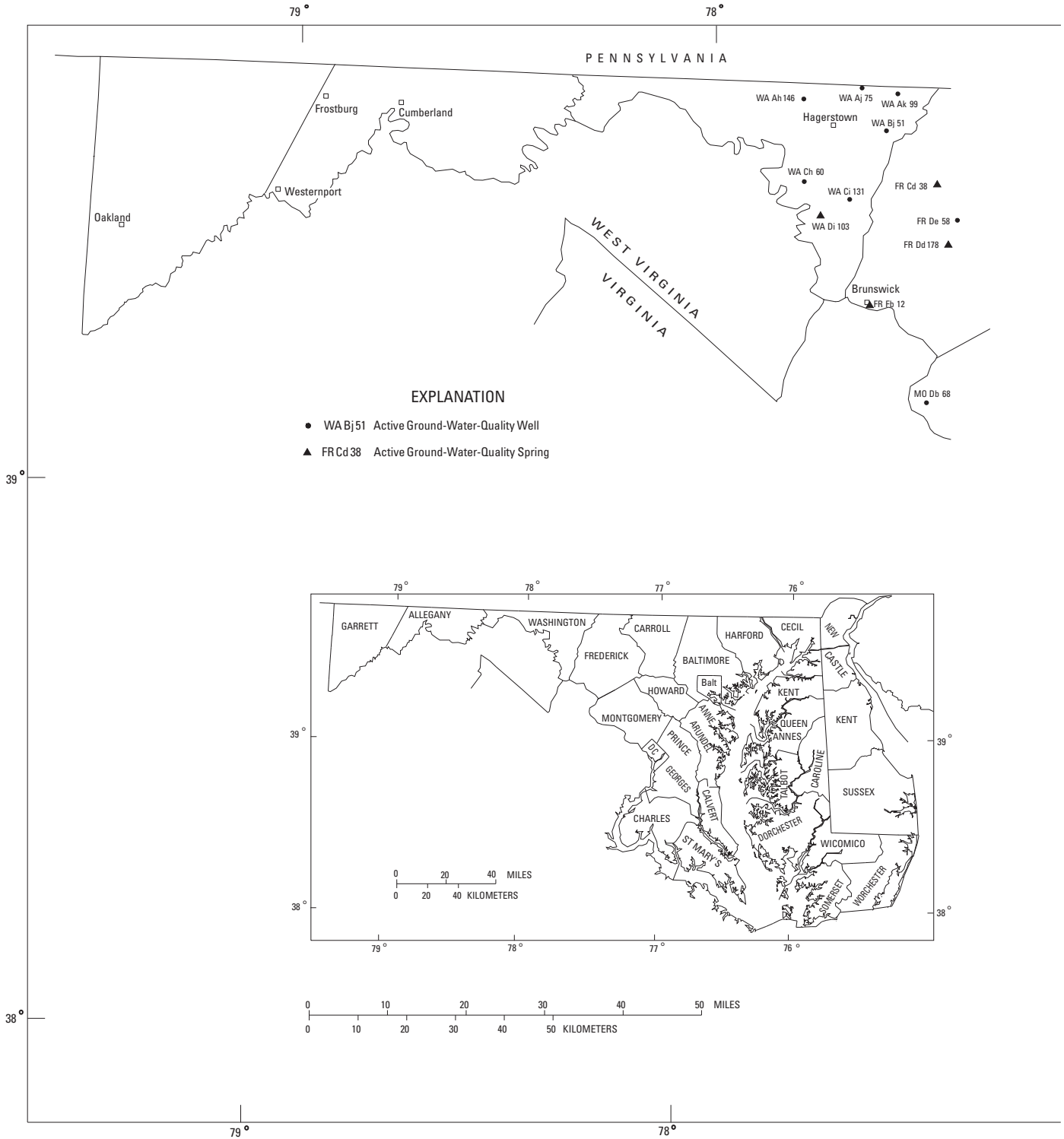


Base map modified from U.S. Geological Survey 1:100,000 DLG

Figure 6. Location of Maryland and Delaware ground-water project observation wells and springs.

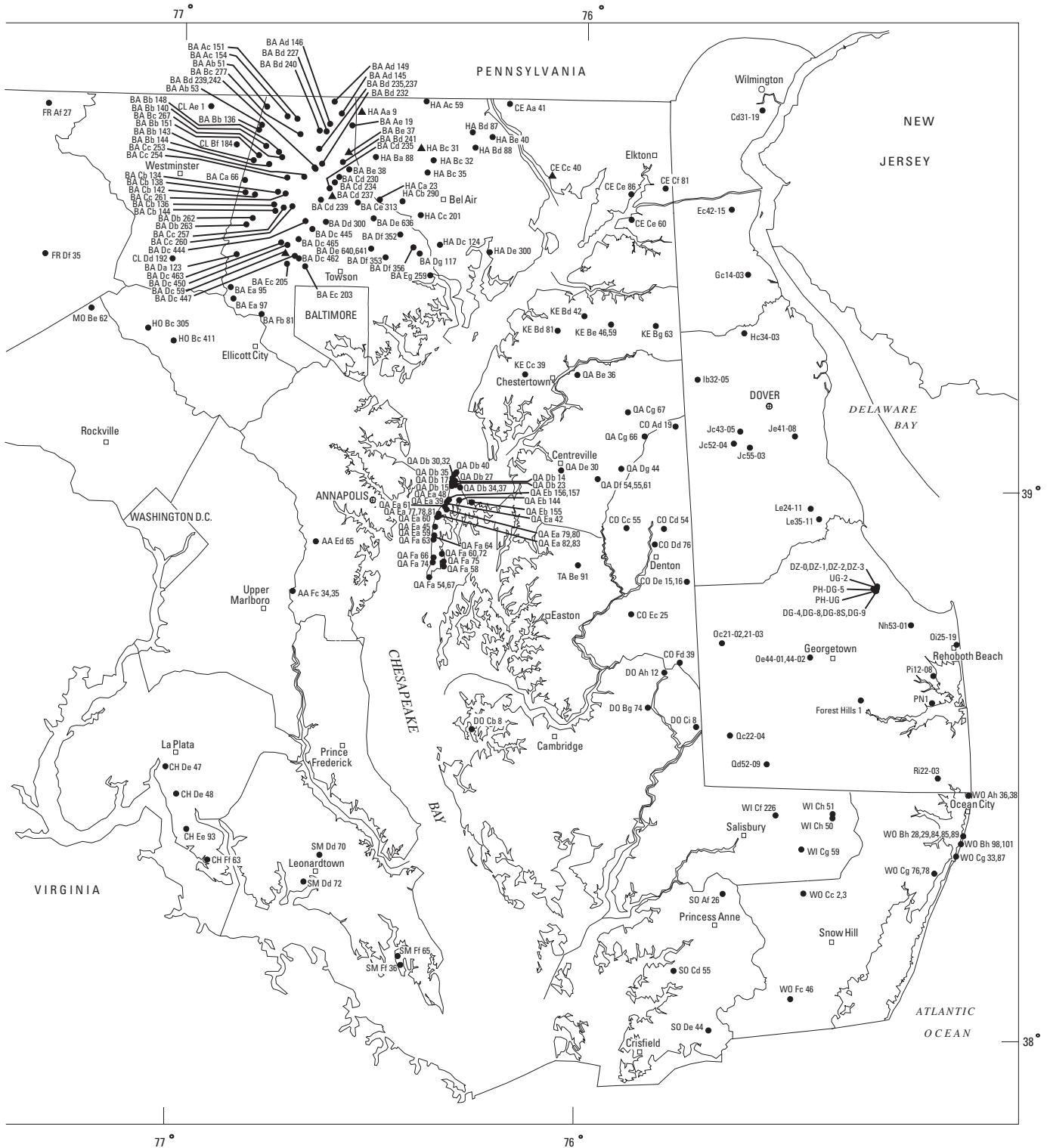


WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2001



Base map modified from U.S. Geological Survey 1:100,000 DLG

Figure 7. Location of Maryland and Delaware ground-water-quality springs and wells.



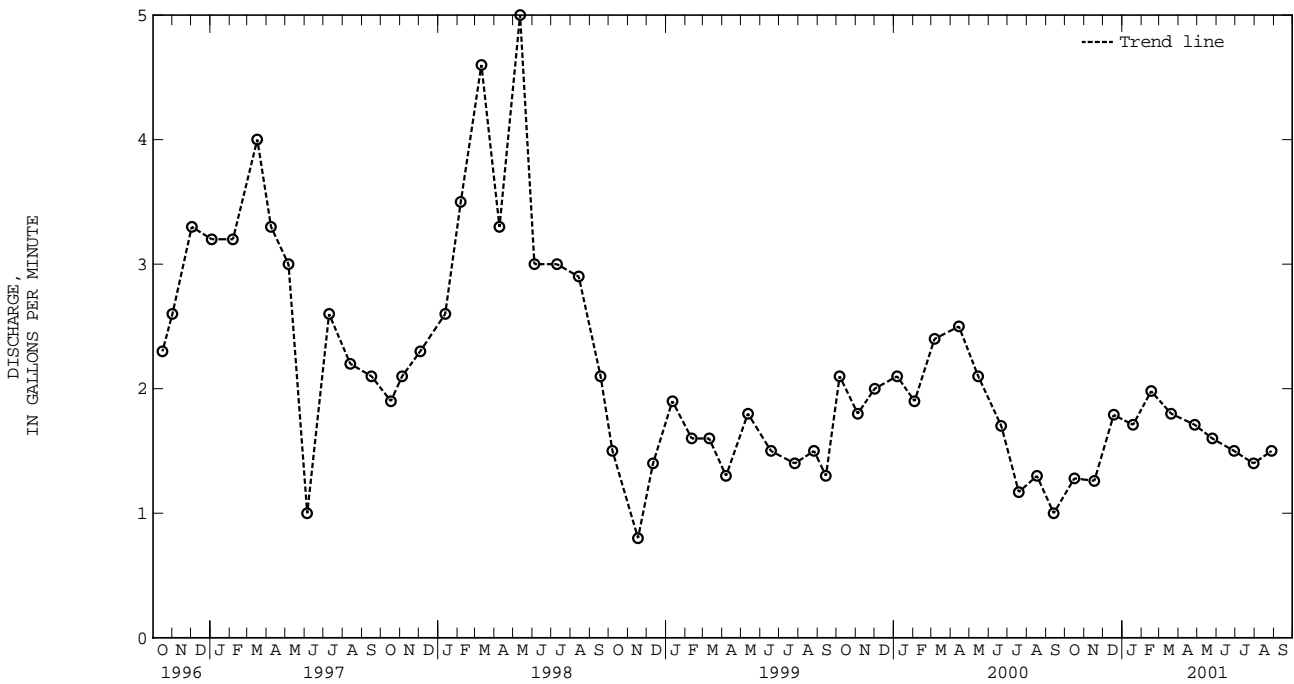
GROUND-WATER HYDROLOGIC DATA SITE RECORDS

GROUND-WATER SPRING DISCHARGE--IN MARYLAND--CECIL COUNTY

SPRING NUMBER.--CE Cc 40. SITE ID.--393459076045001.  
 LOCATION.--Lat 39°34'59", long 76°04'50", Hydrologic Unit 02050306, 0.1 mi north of intersection of Cokesbury, and St. Marks Church Roads, 0.8 mi northeast of Perryman.  
 Owner: John McMullen.  
 AQUIFER.--James Run Formation, Frenchtown Member of Paleozoic age. Aquifer code: 300JMSR.  
 SPRING IMPROVEMENTS.--2 in. outflow pipe.  
 INSTRUMENTATION.--Monthly volumetric measurements by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 180 ft above sea level, from topographic map.  
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.  
 PERIOD OF RECORD.--April 1981, August 1989 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 5.9 gal/min., June 7, 1990;  
 minimum discharge measured, 0.8 gal/min., Nov. 17, 1998.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 16, 2000	1.3	JAN 18, 2001	1.7	APR 27, 2001	1.7	JUL 30, 2001	1.4
NOV 17,	1.3	FEB 16,	2.0	MAY 25,	1.6	AUG 28,	1.5
DEC 18,	1.8	MAR 20,	1.8	JUN 29,	1.5		
WATER YEAR 2001	MAXIMUM	2.0	FEB 16, 2001	MINIMUM	1.3	OCT 16, AND	NOV 17, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

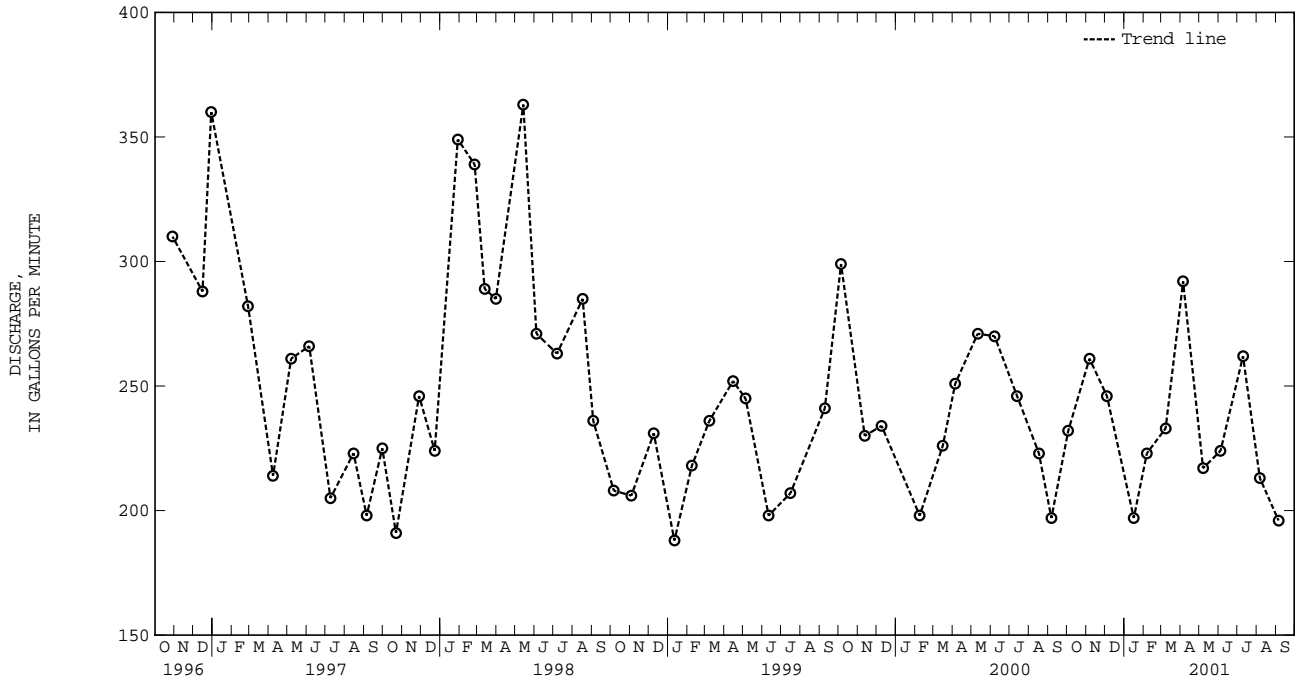


GROUND-WATER SPRING DISCHARGE--IN MARYLAND--CECIL COUNTY--Continued

SPRING NUMBER.--FR Dd 178. SITE ID.--392552077262201.  
 LOCATION.--Lat 39°25'52", long 77°26'22", Hydrologic Unit 02070009, at Frederick County Agricultural Extension Service (formerly Montview State Hospital).  
 Owner: Frederick County.  
 AQUIFER.--Frederick Limestone of Lower Cambrian age. Aquifer code: 377FDCK.  
 SPRING IMPROVEMENTS.--Springhouse with discharge pipe.  
 INSTRUMENTATION.--Monthly current meter discharge measurements by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 315 ft above sea level, from topographic map.  
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.  
 PERIOD OF RECORD.--April 1981, February 1989, September 1989, April 1991 and March 1992 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 904 gal/min., May 6, 1993;  
 minimum discharge measured, 180 gal/min., April 17, 1991.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 3, 2000	232	JAN 16, 2001	197	APR 5, 2001	292	JUL 10, 2001	262
NOV 6,	261	FEB 6,	223	MAY 7,	218	AUG 6,	215
DEC 4,	246	MAR 8,	233	JUN 4,	224	SEP 5,	196
WATER YEAR 2001		MAXIMUM	292	APR 5, 2001	MINIMUM	196	SEP 5, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER HYDROLOGIC DATA SITE RECORDS

GROUND-WATER SPRING DISCHARGE--IN MARYLAND--CECIL COUNTY--Continued

SPRING NUMBER.--FR Fb 12. SITE ID.--391846077370501.

LOCATION.--Lat 39°18'46", long 77°37'05", Hydrologic Unit 02070008, at Brunswick, off Park Ave., 300 ft north of intersection with Potomac St.

Owner: Town of Brunswick.

AQUIFER.--Precambrian Erathem of Precambrian age. Aquifer code: 400PCMB.

SPRING IMPROVEMENTS.--2 in. outflow pipe.

INSTRUMENTATION.--Monthly volumetric measurements by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 300 ft above sea level, from topographic map.

REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.

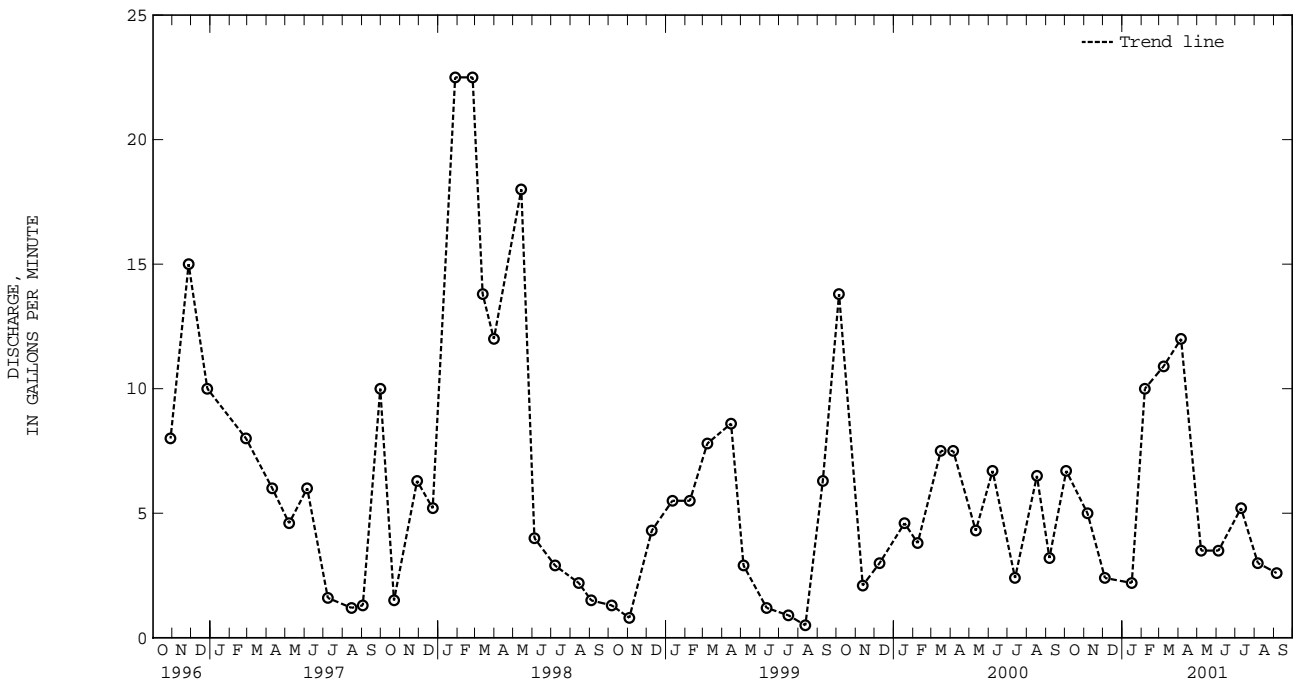
PERIOD OF RECORD.--January 1960 to April 1964, March 1965, August 1967, December 1968, July 1972, April 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 36.0 gal/min., April 30, 1964;

minimum discharge measured, 0.5 gal/min., Aug. 12, 1999.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 3, 2000	6.7	JAN 16, 2001	2.2	APR 5, 2001	12.0	JUL 10, 2001	5.2
NOV 6,	5.0	FEB 6,	10.0	MAY 7,	3.5	AUG 6,	3.0
DEC 4,	2.4	MAR 8,	10.9	JUN 4,	3.5	SEP 5,	3.0
WATER YEAR 2001		MAXIMUM 49.0	DEC 4, 2000	MINIMUM 2.2		JAN 16, 2001	



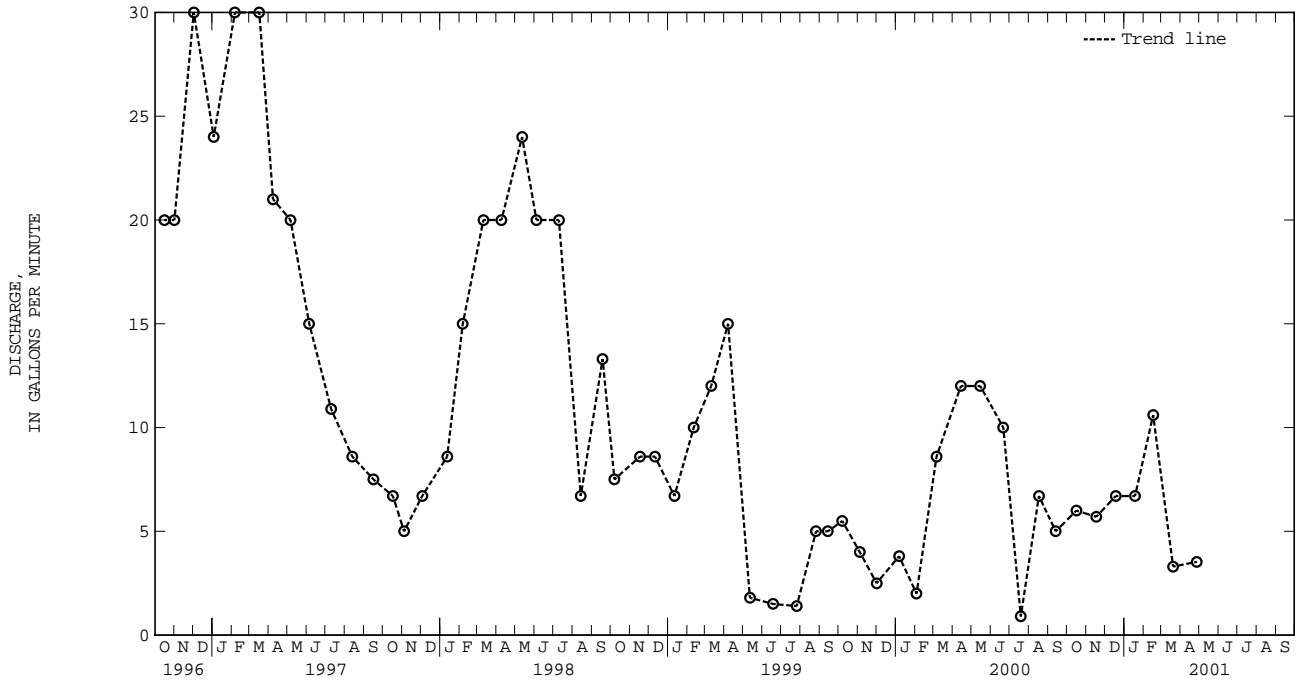
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER SPRING DISCHARGE--IN MARYLAND--CECIL COUNTY--Continued

SPRING NUMBER.--HA Aa 9. SITE ID.--394153076325701.  
 LOCATION.--Lat 39°41'53", long 76°32'57", Hydrologic Unit 02050306, 30 ft south of Church Lane, 0.5 mi west of Norrisville.  
 Owner: Milton Smith.  
 AQUIFER.--Prettyboy Schist of Paleozoic age. Aquifer code: 300PTRB.  
 SPRING IMPROVEMENTS.--4 in. plastic outflow pipe.  
 INSTRUMENTATION.--Monthly volumetric measurements by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 640 ft above sea level, from topographic map.  
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.  
 PERIOD OF RECORD.--October 1980, August 1989 to April 2001.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 60.0 gal/min., Jan. 24, 1996;  
 minimum discharge measured, 1.4 gal/min., July 26, 1999.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 16, 2000	6.0	JAN 18, 2001	6.7	MAR 20, 2001	3.3
NOV 17,	5.7	FEB 16,	10.6	APR 14,	3.5
DEC 18,	6.7				
WATER YEAR 2001	MAXIMUM	10.6	FEB 16,2001	MINIMUM	3.3
					MAR 20, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER HYDROLOGIC DATA SITE RECORDS

GROUND-WATER SPRING DISCHARGE--IN MARYLAND--CECIL COUNTY--Continued

SPRING NUMBER.--WA Di 103. SITE ID.--392836077442701.  
 LOCATION.--Lat 39°28'36", long 77°44'27", Hydrologic Unit 02070004, 0.2 mi southeast of Smoketown Road and Mummas Lane,  
 1.0 mi north of Sharpsburg.

Owner: National Park Service, Antietam National Battlefield.

AQUIFER.--Conococheague Limestone of Upper Cambrian age. Aquifer code: 371CCCG.

SPRING IMPROVEMENTS.--Springhouse with cement trough.

INSTRUMENTATION.--Monthly volumetric discharge measurements by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 475 ft above sea level, from topographic map.

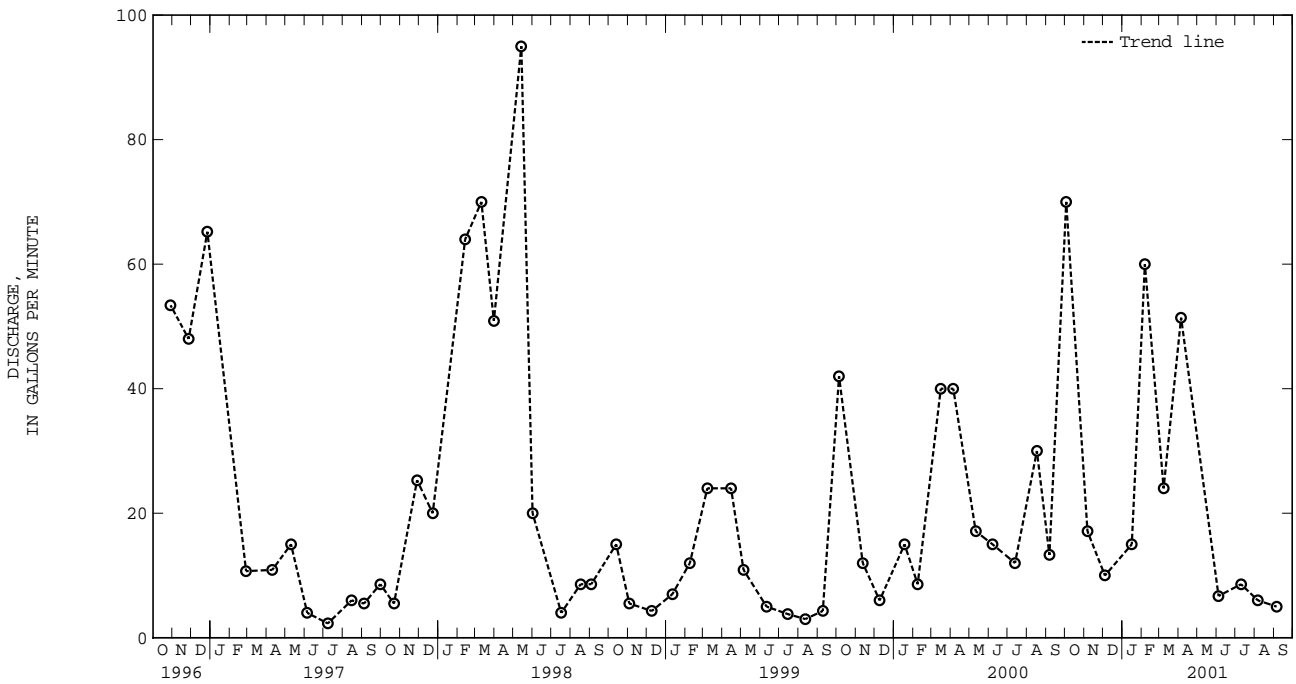
REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.

PERIOD OF RECORD.--May 1969, April 1987, and January 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 95.0 gal/min., May 14, 1998;  
 minimum discharge measured, 0.3 gal/min., Oct. 4, 1991 and Nov. 7, 1991.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 3, 2000	54.0	JAN 16, 2001	15.0	APR 5, 2001	51.0	AUG 6, 2001	6.0
NOV 6,	17.0	FEB 6,	60.0	JUN 4,	6.7	SEP 5,	5.0
DEC 4,	20.0	MAR 8,	24.0	JUL 10,	8.6		
WATER YEAR 2001	MAXIMUM	60.0	FEB 6, 2001	MINIMUM	5.0	SEP 5, 2001	

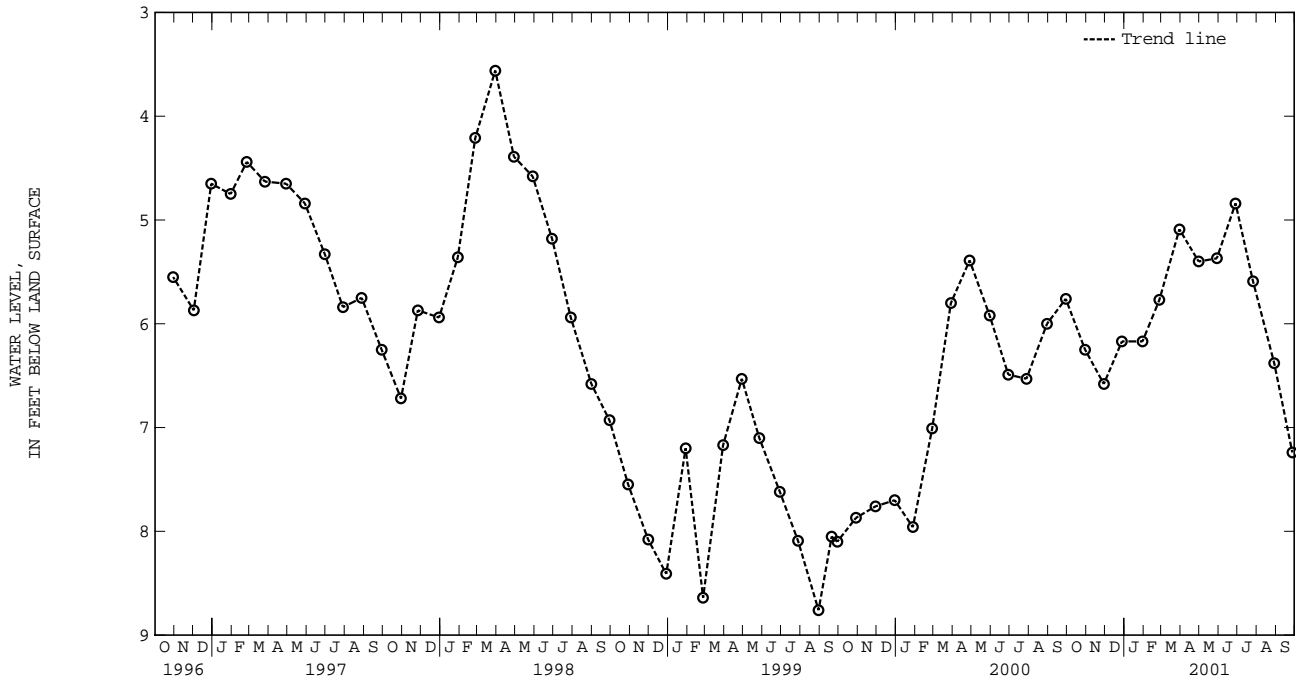


KENT COUNTY

WELL NUMBER.--Jd42-03. SITE ID.--390607075331501. PERMIT NUMBER.--10230.  
 LOCATION.--Lat 39°06'07", long 75°33'15", Hydrologic Unit 02040207, 1 mi south of Camden.  
 Owner: Delaware Department of Transportation.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 11 ft; casing diameter 1.25 in., to 8.5 ft; well point from 8.5 to 11 ft.  
 INSTRUMENTATION.--Monthly measurements with electric or chalked steel tape by Delaware Geological Survey or U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 44 ft above sea level, from topographic map.  
 Measuring point: Top of casing at land surface.  
 PERIOD OF RECORD.--October 1950 to December 1961, August 1971 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.69 ft below land surface, July 18, 1975; lowest measured, 10.10 ft below land surface, Nov. 28, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	6.25	JAN 30, 2001	6.17	APR 30, 2001	5.40	JUL 26, 2001	5.59
NOV 29	6.58	FEB 26	5.77	MAY 29	5.37	AUG 29	6.38
DEC 28	6.17	MAR 30	5.09	JUN 28	4.84	SEP 27	7.24
WATER YEAR 2001 HIGHEST 4.84 JUN 28, 2001		LOWEST 7.24		SEP 27, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

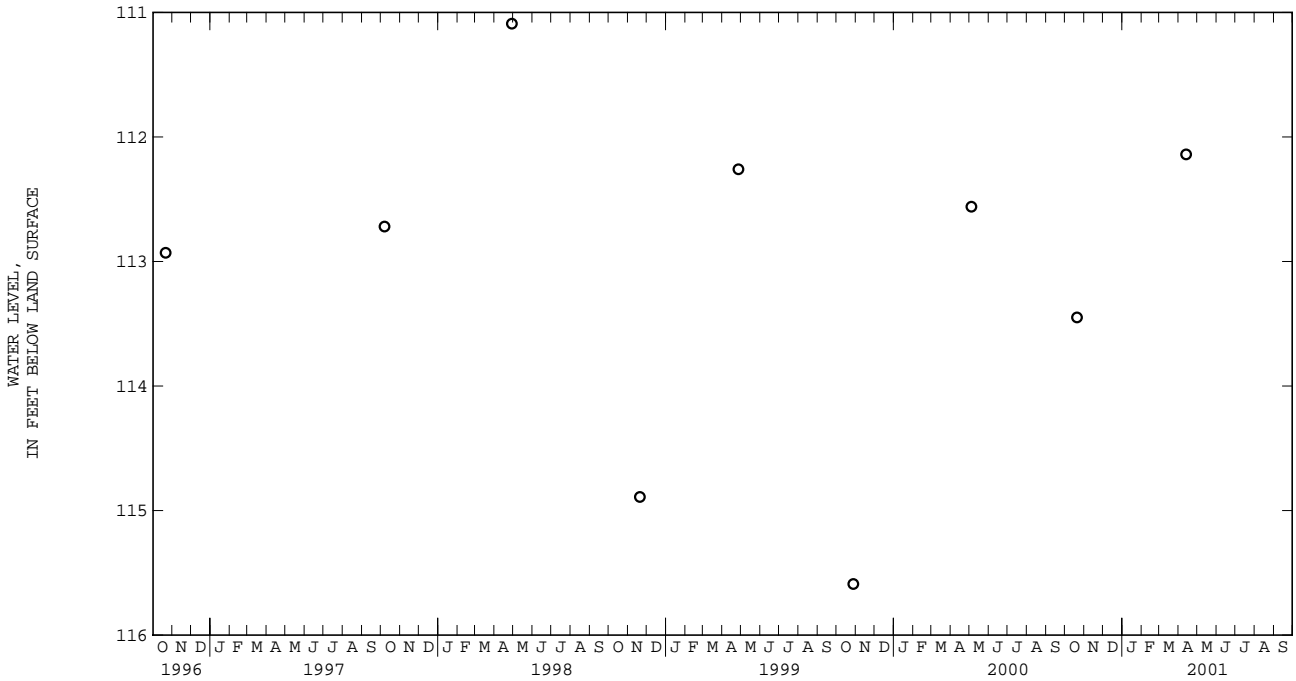
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--Kc31-01. SITE ID.--390224075391601. PERMIT NUMBER.--33610.  
 LOCATION.--Lat 39°02'24", long 75°39'16", Hydrologic Unit 02060005, 1.1 mi southwest of Petersburg, off Ironmine Rd.,  
 at Norman G. Wilder State Wildlife Area.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 380 ft; casing diameter 2 in., to 370 ft;  
 screen diameter 2 in. from 370 to 380 ft.  
 INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by Delaware Geological Survey or  
 U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 55 ft above sea level, from topographic map.  
 Measuring point: Top of casing, .20 ft above land surface.  
 REMARKS.--No Spring 1997, water-level measurement.  
 PERIOD OF RECORD.--February 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.99 ft below land surface, Feb. 20, 1975;  
 lowest measured, 116.77 ft below land surface, Oct. 29, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 2000	113.45	APR 13, 2001	112.14
WATER YEAR 2001 HIGHEST 112.14 APR 13, 2001		LOWEST 113.45 OCT 20, 2000	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--Mc51-01. SITE ID.--385041075395601.  
 LOCATION.--Lat 38°50'41", long 75°39'56", Hydrologic Unit 02060008, 1.3 mi northeast of Adamsville.  
 Owner: Delaware Department of Transportation.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 2 in., to 15 ft; well point from 15 to 19 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware and U.S. Geological Survey personnel. Equipped with digital water-level recorder--60 minute recorder interval from October 22, 1999 to July 10, 2001. U.S. Geological Survey water-level telemetry at location.  
 DATUM.--Elevation of land surface is 55 ft above sea level, from topographic map.  
 Measuring point: Top of recorder platform, 4.09 ft above land surface.  
 REMARKS.--Delaware Water-Level Network observation well. U.S. Geological Survey water-level telemeter at well. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--September 1958 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.28 ft below land surface, May 31, 1984; lowest measured, 16.29 ft below land surface, Jan. 19, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.71	12.63	13.10	13.07	13.68	13.65	---	---	13.24	13.24	12.50	12.48
2	12.63	12.59	13.12	13.10	13.68	13.68	---	---	13.24	13.21	12.48	12.45
3	---	---	13.14	13.12	13.69	13.68	13.67	13.67	13.21	13.21	12.46	12.46
4	---	---	13.14	13.14	13.69	13.69	13.67	13.67	13.21	13.19	12.47	12.42
5	---	---	13.18	13.14	13.71	13.68	13.67	13.67	13.19	13.15	12.42	12.41
6	---	---	13.21	13.18	13.72	13.71	13.68	13.67	13.15	13.11	12.42	12.40
7	---	---	13.23	13.21	13.73	13.72	13.68	13.68	13.11	13.09	12.43	12.42
8	---	---	13.25	13.23	13.74	13.73	13.68	13.68	13.09	13.03	12.43	12.41
9	---	---	13.25	13.25	13.80	13.74	13.69	13.68	13.03	12.96	12.41	12.39
10	---	---	13.27	13.24	13.80	13.80	13.70	13.68	12.96	12.94	12.40	12.39
11	---	---	13.31	13.27	13.81	13.80	13.70	13.69	12.95	12.94	12.40	12.38
12	---	---	13.34	13.31	13.85	13.80	13.71	13.69	12.94	12.88	12.40	12.36
13	---	---	13.36	13.34	13.85	13.84	13.72	13.70	12.88	12.85	12.36	12.34
14	---	---	13.37	13.36	13.87	13.83	13.72	13.72	12.85	12.79	12.37	12.36
15	---	---	13.40	13.37	13.88	13.87	13.72	13.71	12.79	12.77	12.37	12.34
16	---	---	13.41	13.40	13.89	13.88	13.74	13.71	12.78	12.73	12.34	12.34
17	12.71	12.69	13.43	13.41	13.88	13.82	13.74	13.73	12.73	12.72	12.34	12.34
18	12.71	12.70	13.45	13.43	13.85	13.81	13.75	13.73	12.73	12.72	12.34	12.34
19	12.78	12.71	13.47	13.45	13.81	13.76	13.75	13.74	---	---	12.34	12.34
20	12.81	12.78	13.49	13.47	13.79	13.76	13.74	13.68	---	---	12.34	12.32
21	12.84	12.81	13.50	13.49	13.79	13.77	13.69	13.68	---	---	12.32	11.92
22	12.90	12.84	13.53	13.50	13.77	13.75	13.68	13.66	---	---	11.92	11.75
23	12.93	12.90	13.56	13.53	13.76	13.76	13.66	13.58	---	---	11.75	11.64
24	12.93	12.93	13.58	13.56	13.76	13.74	13.58	13.51	---	---	11.65	11.61
25	12.94	12.93	13.59	13.58	13.74	13.74	13.51	13.48	---	---	---	---
26	12.96	12.94	13.59	13.57	13.74	13.72	13.48	13.40	---	---	---	---
27	12.96	12.96	13.60	13.58	13.72	13.70	13.40	13.36	---	---	---	---
28	13.02	12.96	13.63	13.60	---	---	13.36	13.35	12.52	12.50	---	---
29	13.02	13.02	13.65	13.63	---	---	13.35	13.29	---	---	11.32	11.18
30	13.05	13.02	13.66	13.65	---	---	13.29	13.22	---	---	11.18	11.06
31	13.07	13.05	---	---	---	---	13.24	13.24	---	---	11.06	10.95
MONTH	13.07	12.59	13.66	13.07	13.89	13.65	13.75	13.22	13.24	12.50	12.50	10.95

GROUND-WATER LEVELS IN DELAWARE

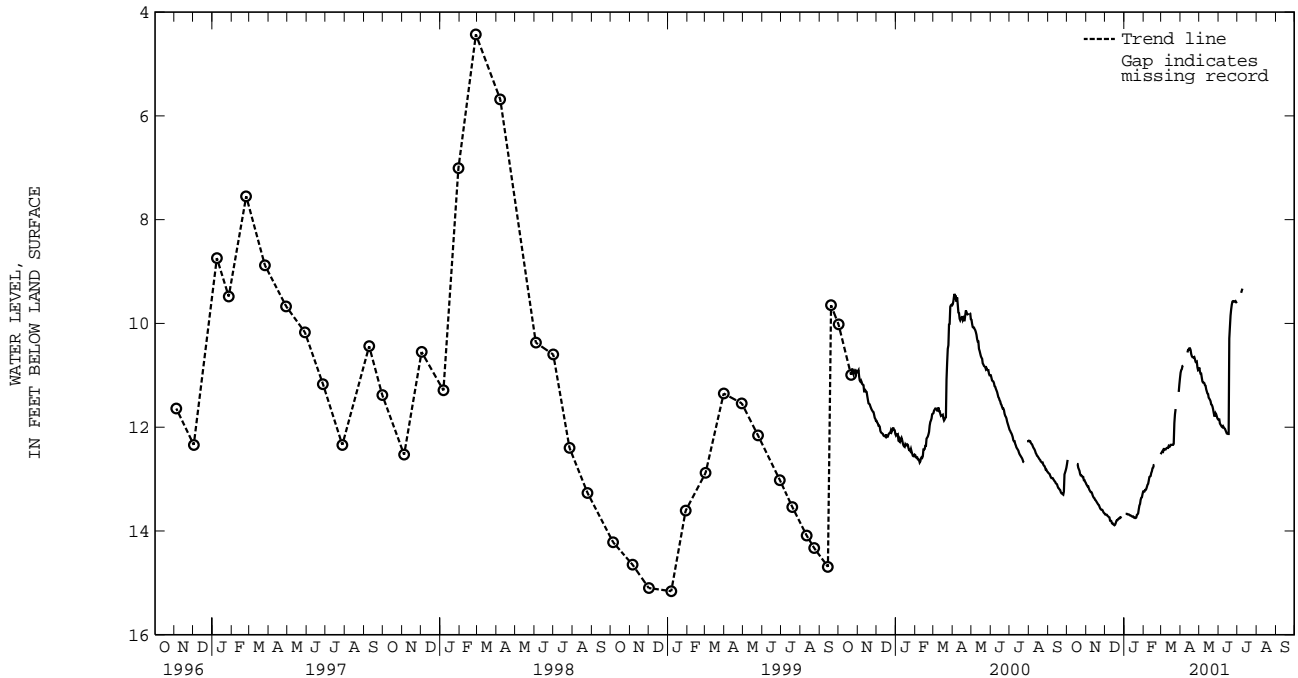
KENT COUNTY--Continued

Mc51-01--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.95	10.89	10.85	10.84	11.85	11.81	---	---	---	---	---	---
2	10.90	10.88	10.93	10.85	11.85	11.81	---	---	---	---	---	---
3	10.88	10.80	10.97	10.93	11.93	11.85	---	---	---	---	---	---
4	10.82	10.80	10.97	10.97	11.95	11.93	---	---	---	---	---	---
5	10.81	10.75	11.05	10.97	11.97	11.95	---	---	---	---	---	---
6	---	---	11.12	11.05	11.99	11.97	---	---	---	---	---	---
7	---	---	11.14	11.12	12.00	11.98	9.41	9.37	---	---	---	---
8	---	---	11.14	11.12	11.98	11.98	9.37	9.31	---	---	---	---
9	---	---	11.15	11.13	12.00	11.98	9.33	9.31	---	---	---	---
10	---	---	11.19	11.15	12.02	12.00	---	---	---	---	---	---
11	---	---	11.20	11.19	12.03	12.02	---	---	---	---	---	---
12	10.56	10.51	11.27	11.20	12.06	12.03	---	---	---	---	---	---
13	10.51	10.45	11.31	11.27	12.09	12.06	---	---	---	---	---	---
14	10.51	10.48	11.35	11.31	12.12	12.09	---	---	---	---	---	---
15	10.48	10.42	11.36	11.33	12.12	12.12	---	---	---	---	---	---
16	10.48	10.42	11.43	11.36	12.13	12.12	---	---	---	---	---	---
17	10.51	10.47	11.45	11.43	12.13	10.22	---	---	---	---	---	---
18	10.59	10.47	11.47	11.45	10.29	10.07	---	---	---	---	---	---
19	10.63	10.59	11.50	11.47	10.07	9.85	---	---	---	---	---	---
20	10.65	10.62	11.56	11.50	9.85	9.73	---	---	---	---	---	---
21	10.65	10.62	11.57	11.56	9.73	9.64	---	---	---	---	---	---
22	10.66	10.64	11.60	11.56	9.64	9.58	---	---	---	---	---	---
23	10.65	10.62	11.65	11.60	9.58	9.57	---	---	---	---	---	---
24	10.69	10.60	11.72	11.65	9.57	9.56	---	---	---	---	---	---
25	10.74	10.69	11.78	11.72	9.57	9.56	---	---	---	---	---	---
26	10.75	10.74	11.78	11.73	9.58	9.57	---	---	---	---	---	---
27	10.74	10.70	11.73	11.71	9.58	9.56	---	---	---	---	---	---
28	10.85	10.73	11.75	11.71	9.57	9.56	---	---	---	---	---	---
29	10.90	10.85	11.79	11.75	9.59	9.57	---	---	---	---	---	---
30	10.89	10.84	11.83	11.79	9.61	9.59	---	---	---	---	---	---
31	---	---	11.85	11.83	---	---	---	---	---	---	---	---
MONTH	10.95	10.42	11.85	10.84	12.13	9.56	9.41	9.31	---	---	---	---
YEAR	13.89	9.31										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

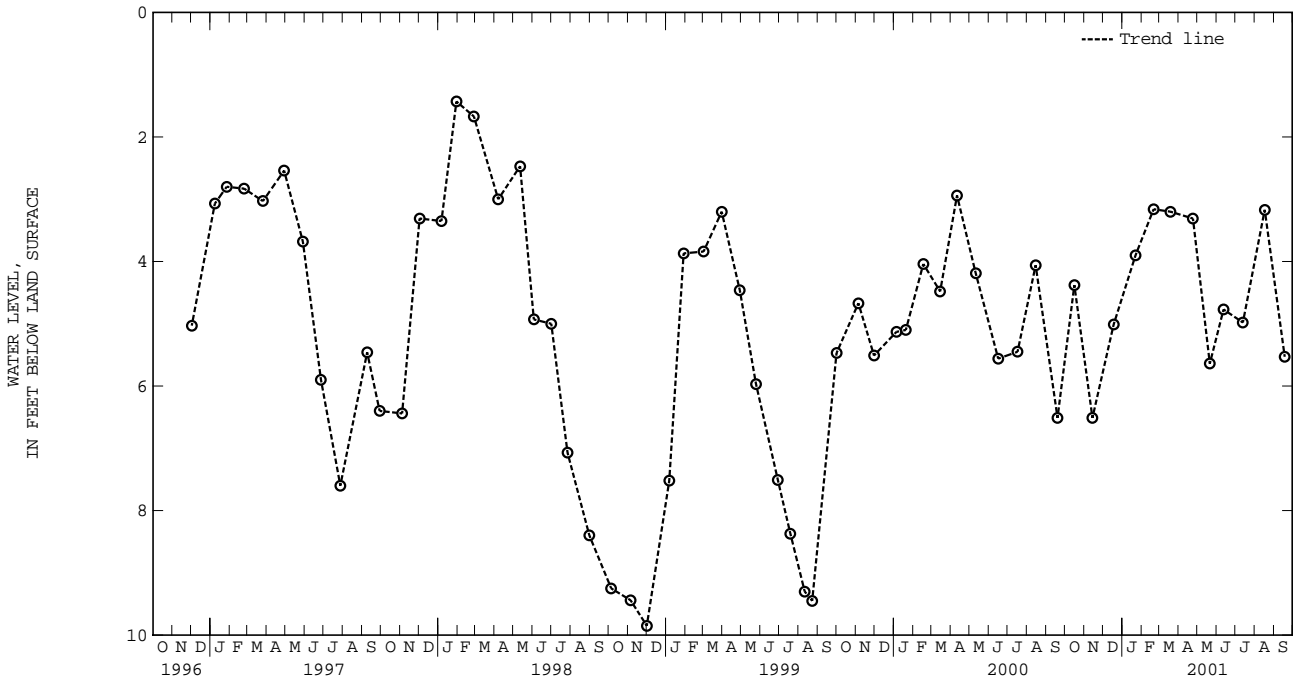


KENT COUNTY--Continued

WELL NUMBER.--MG22-01. SITE ID.--385310075331301. PERMIT NUMBER.--10221.  
 LOCATION.--Lat 38°53'10", long 75°33'13", Hydrologic Unit 02040207, 2.4 mi west of Williamsville.  
 Owner: Delaware Department of Transportation.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 17 ft; casing diameter 1 in., to 14 ft;  
 well point from 14 to 17 ft.  
 INSTRUMENTATION.--Monthly measurements with electric or chalked steel tape by Delaware Geological Survey personnel.  
 DATUM.--Elevation of land surface is 58 ft above sea level, from topographic map.  
 Measuring point: Top of casing at land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.--September 1958 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.07 ft below land surface, July 14, 1975;  
 lowest measured, 11.14 ft below land surface, Jan. 6, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	4.38	JAN 22, 2001	3.90	APR 24, 2001	3.31	JUL 13, 2001	4.98
NOV 14	6.51	FEB 20	3.16	MAY 21	5.64	AUG 17	3.17
DEC 18	5.01	MAR 19	3.20	JUN 12	4.77	SEP 18	5.53
WATER YEAR 2001		HIGHEST	3.16	FEB 20, 2001	LOWEST	6.51	NOV 14, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN DELAWARE

## KENT COUNTY--Continued

WELL NUMBER.--DM102F. SITE ID.--390733075264801. PERMIT NUMBER.--96950.

LOCATION.--Lat 39°07'33", long 75°26'48", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Frederica aquifer of the Calvert Formation of Lower Miocene age. Aquifer code: 122FRDC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 112.5 ft; casing diameter 3 in., to 102.5 ft; screen diameter 2 in. from 102.5 to 112.5 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1, 1995, to current year.

DATUM.--Elevation of land surface is 18.54 ft above sea level.

Measuring Point: Top of recorder platform 2.32 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors. Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.24 ft above sea level, June 28 and 29, 2001; lowest measured, 5.49 ft below sea level, July 29, 1999.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.15	4.09	4.17	4.17	4.13	4.13	4.58	4.57	5.08	5.06	5.79	5.75
2	4.20	4.15	4.17	4.15	4.13	4.10	4.57	4.56	5.10	5.06	5.81	5.79
3	4.22	4.20	4.15	4.14	4.10	4.10	4.56	4.56	5.09	5.07	5.81	5.80
4	4.25	4.22	4.14	4.14	4.10	4.10	4.57	4.56	5.09	5.07	5.87	5.80
5	4.28	4.25	4.14	4.14	4.18	4.10	4.62	4.57	5.25	5.09	5.89	5.87
6	4.31	4.28	4.14	4.12	4.18	4.17	4.62	4.59	5.24	5.23	5.91	5.89
7	4.31	4.31	4.12	4.12	4.18	4.17	4.59	4.59	5.23	5.22	5.90	5.88
8	4.31	4.31	4.12	4.11	4.18	4.17	---	---	5.25	5.22	5.88	5.88
9	4.31	4.31	4.16	4.11	4.17	4.14	4.61	4.60	5.34	5.25	5.91	5.88
10	4.33	4.31	4.20	4.16	4.14	4.14	4.60	4.58	5.36	5.34	5.91	5.91
11	4.33	4.33	4.17	4.14	4.18	4.14	4.58	4.57	5.35	5.34	5.91	5.91
12	4.33	4.33	4.14	4.13	4.21	4.13	4.57	4.55	5.37	5.34	5.95	5.90
13	4.33	4.33	4.13	4.12	4.13	4.12	4.55	4.53	5.40	5.37	6.00	5.95
14	4.34	4.33	4.13	4.12	4.20	4.12	4.54	4.53	5.47	5.40	6.00	5.97
15	4.34	4.34	4.13	4.12	4.19	4.17	4.56	4.54	5.48	5.47	5.99	5.97
16	4.34	4.34	4.12	4.11	4.23	4.17	4.57	4.56	5.54	5.48	5.99	5.99
17	4.34	4.33	4.12	4.11	4.43	4.23	4.56	4.54	5.57	5.52	5.99	5.99
18	4.33	4.33	4.11	4.09	4.35	4.31	4.54	4.54	5.52	5.52	5.99	5.97
19	4.33	4.30	4.09	4.08	4.36	4.31	4.63	4.54	5.55	5.52	5.97	5.96
20	4.30	4.29	4.08	4.08	4.37	4.34	4.69	4.63	5.60	5.55	5.96	5.96
21	4.29	4.28	4.08	4.08	4.35	4.34	4.70	4.66	5.62	5.60	6.15	5.96
22	4.28	4.23	4.08	4.06	4.41	4.35	4.67	4.66	5.68	5.60	6.15	6.14
23	4.23	4.21	4.06	4.03	4.40	4.40	4.75	4.67	5.68	5.68	6.14	6.14
24	4.21	4.21	4.03	4.02	4.45	4.40	4.81	4.75	5.68	5.66	6.16	6.14
25	4.21	4.21	4.04	4.02	4.45	4.45	4.83	4.81	5.74	5.66	6.17	6.15
26	4.21	4.18	4.16	4.04	4.48	4.45	4.90	4.83	5.74	5.73	6.19	6.17
27	4.18	4.18	4.16	4.15	4.53	4.48	4.93	4.90	5.73	5.73	6.19	6.19
28	4.19	4.18	4.15	4.13	4.54	4.53	4.93	4.93	5.75	5.73	6.20	6.19
29	4.18	4.18	4.13	4.13	4.55	4.54	4.98	4.93	---	---	6.30	6.20
30	4.18	4.17	4.13	4.13	4.61	4.55	5.09	4.98	---	---	6.34	6.30
31	4.17	4.17	---	---	4.61	4.58	5.09	5.08	---	---	6.34	6.33
MONTH	4.34	4.09	4.20	4.02	4.61	4.10	5.09	4.53	5.75	5.06	6.34	5.75

GROUND-WATER LEVELS IN DELAWARE

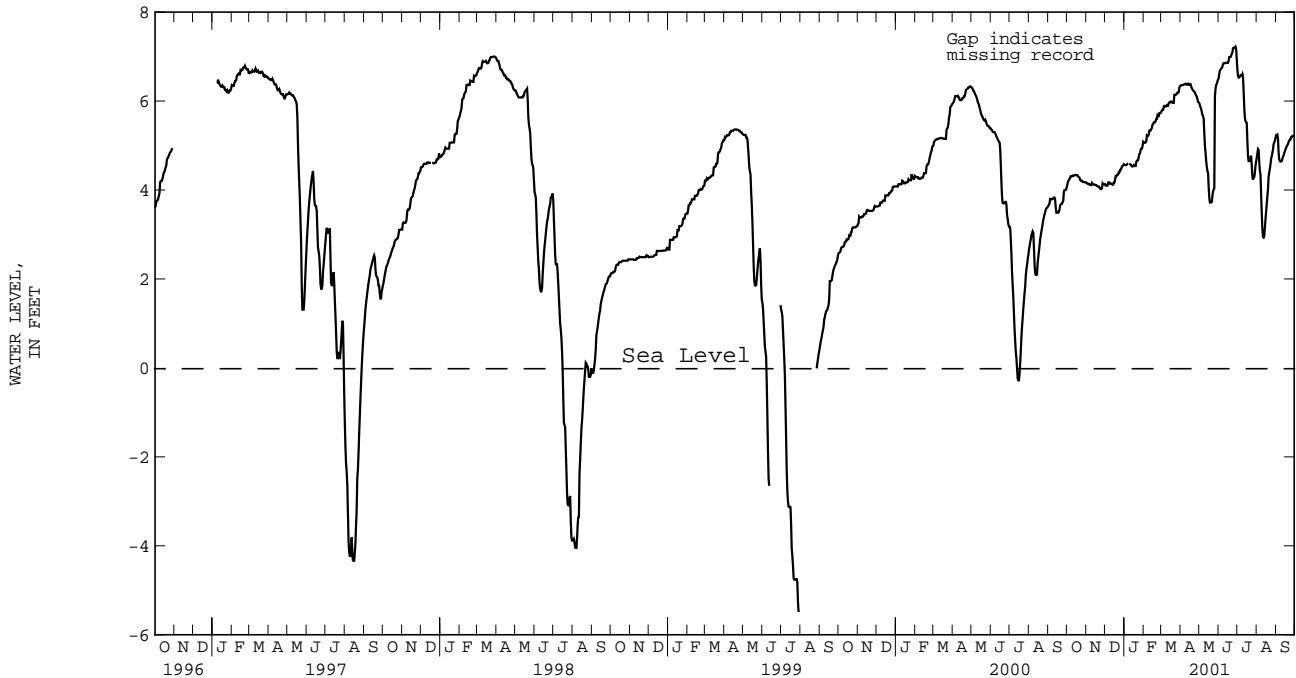
KENT COUNTY--Continued

DML102F--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.36	6.34	5.97	5.95	6.62	6.52	6.93	6.71	4.82	4.73	5.24	5.23
2	6.36	6.36	5.95	5.90	6.69	6.62	6.71	6.55	4.92	4.82	5.25	5.24
3	6.37	6.36	5.90	5.86	6.71	6.69	6.55	6.53	5.00	4.92	5.25	5.25
4	6.37	6.36	5.86	5.82	6.72	6.71	6.55	6.53	5.00	4.90	5.25	5.16
5	6.37	6.36	5.82	5.75	6.75	6.72	6.58	6.55	4.90	4.63	5.16	4.85
6	6.41	6.37	5.75	5.69	6.77	6.75	6.58	6.58	4.63	4.43	4.85	4.69
7	6.41	6.38	5.69	5.66	6.84	6.77	6.58	6.58	4.43	4.35	4.69	4.65
8	6.39	6.38	5.66	5.60	6.85	6.84	6.61	6.58	4.35	3.91	4.65	4.64
9	6.41	6.39	5.60	5.27	6.85	6.85	6.61	6.61	3.91	3.49	4.65	4.64
10	6.41	6.37	5.27	4.99	6.85	6.85	6.61	6.53	3.49	3.13	4.70	4.65
11	6.37	6.37	4.99	4.83	6.86	6.85	6.53	6.22	3.13	2.94	4.74	4.70
12	6.39	6.37	4.83	4.65	6.86	6.86	6.22	5.85	2.97	2.93	4.78	4.74
13	6.39	6.39	4.65	4.52	6.86	6.86	5.85	5.62	3.15	2.97	4.83	4.78
14	6.39	6.37	4.52	4.43	6.86	6.86	5.62	5.55	3.34	3.15	4.87	4.83
15	6.39	6.37	4.43	4.38	6.86	6.86	5.55	5.52	3.51	3.34	4.91	4.87
16	6.40	6.38	4.38	4.07	6.91	6.86	5.52	5.51	3.68	3.51	4.95	4.91
17	6.38	6.38	4.07	3.82	7.06	6.91	5.51	5.08	3.86	3.68	4.98	4.95
18	6.38	6.32	3.82	3.72	7.01	6.99	5.08	4.75	4.02	3.86	5.01	4.98
19	6.32	6.29	3.72	3.72	6.99	6.99	4.75	4.65	4.30	4.02	5.03	5.01
20	6.29	6.26	3.73	3.72	7.02	6.99	4.65	4.65	4.39	4.30	5.08	5.03
21	6.26	6.24	3.87	3.73	7.06	7.02	4.74	4.65	4.48	4.39	5.11	5.08
22	6.24	6.22	3.97	3.87	7.10	7.06	4.82	4.74	4.57	4.48	5.13	5.11
23	6.22	6.21	4.01	3.97	7.20	7.10	4.82	4.77	4.70	4.57	5.13	5.13
24	6.21	6.19	4.04	4.01	7.20	7.19	4.77	4.55	4.76	4.70	5.19	5.13
25	6.19	6.15	6.10	4.04	7.20	7.20	4.55	4.31	4.83	4.76	5.20	5.19
26	6.15	6.12	6.28	6.10	7.20	7.20	4.31	4.23	4.91	4.83	5.20	5.20
27	6.12	6.10	6.36	6.28	7.22	7.20	4.29	4.28	5.03	4.91	5.22	5.20
28	6.10	6.04	6.39	6.36	7.24	7.22	4.38	4.29	5.07	5.03	5.22	5.22
29	6.04	5.98	6.44	6.39	7.24	7.17	4.55	4.38	5.10	5.07	5.23	5.22
30	5.98	5.97	6.48	6.44	7.17	6.93	4.64	4.55	5.17	5.10	5.29	5.22
31	---	---	6.52	6.48	---	---	4.73	4.64	5.23	5.17	---	---
MONTH	6.41	5.97	6.52	3.72	7.24	6.52	6.93	4.23	5.23	2.93	5.29	4.64
YEAR	7.24	2.93										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM103D. SITE ID.--390723075270901. PERMIT NUMBER.--95533.

LOCATION.--Lat 39°07'23", long 75°27'09", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 75 ft; protective casing diameter 6 in. from +2.5 to 6 ft, casing diameter 2 in., to 66 ft; screen diameter 2.5 in. from 66 to 75 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 23.82 ft above sea level.

Measuring Point: Top of PVC casing 2.98 ft above land surface.

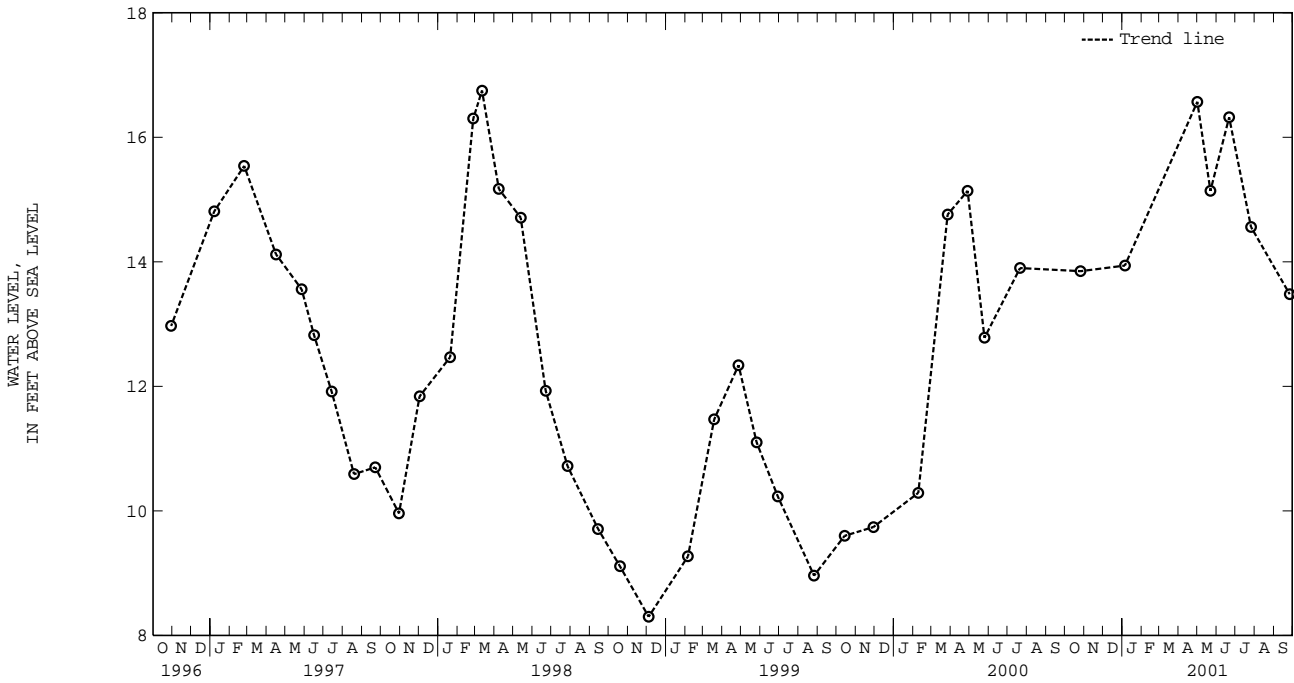
REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

PERIOD OF RECORD.--January 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.75 ft above sea level, March 12, 1998;  
lowest measured, 8.30 ft above sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	13.85	MAY 01, 2001	16.57	JUN 21, 2001	16.32	SEP 26, 2001	13.48
JAN 05, 2001	13.94	22	15.14	JUL 26	14.56		
WATER YEAR 2001		HIGHEST	16.57	MAY 01, 2001	LOWEST	13.48	SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN DELAWARE

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## KENT COUNTY--Continued

WELL NUMBER.--DM106D. SITE ID.--390734075271402. PERMIT NUMBER.--96636.

LOCATION.--Lat 39°07'34", long 75°27'14", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 82.4 ft; casing diameter 2 in., to 72.4 ft; screen diameter 2 in. from 72.4 to 82.4 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1996, to current year.

DATUM.--Elevation of land surface is 23.51 ft above sea level.

Measuring Point: Top of recorder platform 3.60 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--December 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.42 ft above sea level, March 22, 1998; lowest measured, 7.97 ft above sea level, Jan. 1, 2, 1999.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.36	11.29	10.56	10.56	10.08	10.07	10.59	10.54	11.64	11.56	13.30	13.26
2	11.39	11.36	10.56	10.53	10.07	10.05	10.54	10.54	11.79	11.56	13.31	13.25
3	11.39	11.35	10.53	10.50	10.05	10.05	10.63	10.54	11.64	11.54	13.25	13.04
4	11.35	11.34	10.50	10.50	10.06	10.05	10.66	10.63	11.69	11.55	13.22	13.02
5	11.34	11.28	10.50	10.45	10.13	10.06	10.79	10.64	12.02	11.69	13.40	13.22
6	11.34	11.27	10.45	10.43	10.10	10.05	10.76	10.60	12.24	12.02	13.56	13.40
7	11.27	11.21	10.43	10.41	10.09	10.06	10.60	10.60	12.28	12.23	13.45	13.32
8	11.21	11.19	10.41	10.41	10.06	10.05	10.61	10.60	12.49	12.28	13.36	13.31
9	11.19	11.19	10.47	10.41	10.05	9.98	10.60	10.54	12.75	12.49	13.45	13.36
10	11.19	11.19	10.52	10.42	9.99	9.98	10.54	10.46	12.78	12.37	13.42	13.32
11	11.19	11.13	10.42	10.35	10.09	9.99	10.49	10.46	12.37	12.27	13.36	13.26
12	11.13	11.07	10.35	10.35	10.17	9.88	10.49	10.46	12.48	12.28	13.45	13.18
13	11.07	11.07	10.35	10.35	9.94	9.88	10.46	10.42	12.52	12.48	13.67	13.45
14	11.08	11.07	10.35	10.35	10.08	9.94	10.45	10.42	12.73	12.51	13.60	13.47
15	11.07	11.06	10.35	10.27	9.96	9.90	10.48	10.45	12.75	12.44	13.54	13.47
16	11.06	10.96	10.28	10.27	10.11	9.91	10.48	10.41	12.68	12.44	13.64	13.54
17	10.96	10.94	10.30	10.22	10.38	10.11	10.41	10.41	12.77	12.68	13.64	13.63
18	10.95	10.94	10.22	10.16	10.27	10.12	10.42	10.41	12.87	12.70	13.63	13.50
19	10.95	10.85	10.16	10.16	10.49	10.27	10.59	10.42	13.05	12.87	13.50	13.49
20	10.85	10.79	10.21	10.16	10.49	10.33	10.90	10.58	13.14	13.05	13.53	13.49
21	10.82	10.79	10.18	10.15	10.49	10.34	10.91	10.80	13.14	12.86	14.40	13.53
22	10.81	10.69	10.15	10.14	10.56	10.47	11.19	10.89	13.10	12.86	14.61	14.40
23	10.69	10.67	10.14	10.10	10.51	10.47	11.48	11.19	13.10	12.84	14.63	14.57
24	10.73	10.67	10.10	10.09	10.66	10.51	11.54	11.48	12.84	12.73	14.61	14.47
25	10.73	10.72	10.13	10.09	10.62	10.53	11.54	11.48	13.26	12.82	14.47	14.40
26	10.72	10.63	10.26	10.13	10.67	10.53	11.70	11.48	13.26	13.09	14.41	14.32
27	10.73	10.65	10.24	10.14	10.73	10.67	11.75	11.54	13.23	13.09	14.32	14.25
28	10.73	10.57	10.14	10.09	10.73	10.71	11.54	11.50	13.26	13.23	14.25	14.21
29	10.63	10.57	10.12	10.09	10.72	10.71	11.67	11.54	---	---	14.36	14.19
30	10.62	10.58	10.13	10.08	10.79	10.71	11.96	11.67	---	---	14.88	14.36
31	10.58	10.56	---	---	10.73	10.59	11.87	11.64	---	---	14.94	14.88
MONTH	11.39	10.56	10.56	10.08	10.79	9.88	11.96	10.41	13.26	11.54	14.94	13.02

GROUND-WATER LEVELS IN DELAWARE

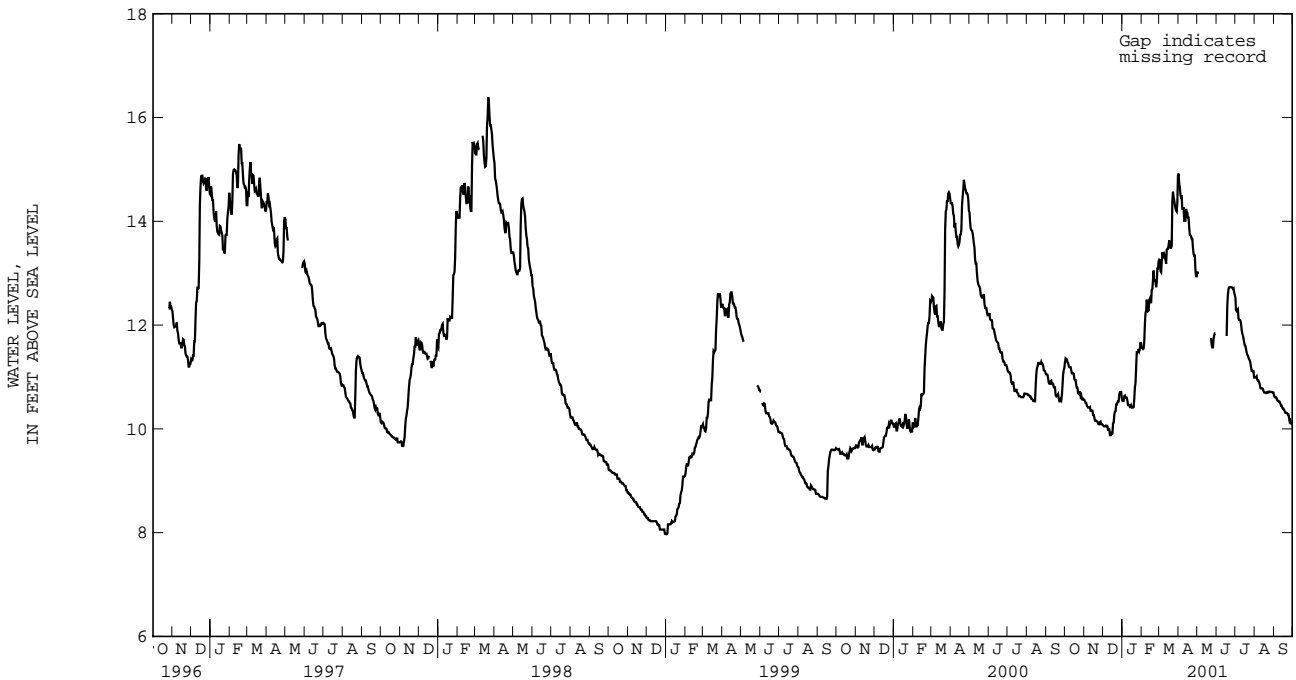
KENT COUNTY--Continued

DML106D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.98	14.92	13.03	13.03	---	---	12.59	12.53	10.99	10.99	10.70	10.64
2	14.92	14.72	13.03	12.98	---	---	12.54	12.29	10.99	10.99	10.64	10.61
3	14.72	14.66	---	---	---	---	12.29	12.27	11.01	10.99	10.61	10.61
4	14.66	14.51	---	---	---	---	12.34	12.28	11.01	11.01	10.61	10.61
5	14.51	14.46	---	---	---	---	12.34	12.30	11.01	10.95	10.61	10.59
6	14.57	14.47	---	---	---	---	12.30	12.12	10.95	10.93	10.59	10.55
7	14.56	14.24	---	---	---	---	12.12	12.10	10.93	10.93	10.55	10.54
8	14.29	14.24	---	---	---	---	12.16	12.10	10.93	10.90	10.54	10.54
9	14.31	14.27	---	---	---	---	12.16	12.09	10.90	10.86	10.54	10.52
10	14.27	14.01	---	---	---	---	12.09	12.03	10.86	10.79	10.52	10.52
11	14.01	14.01	---	---	---	---	12.03	11.91	10.79	10.78	10.52	10.49
12	14.24	14.01	---	---	---	---	11.91	11.84	10.78	10.78	10.49	10.45
13	14.24	14.24	---	---	---	---	11.84	11.80	10.78	10.78	10.45	10.45
14	14.24	14.16	---	---	---	---	11.80	11.74	10.78	10.77	10.45	10.41
15	14.19	14.16	---	---	---	---	11.74	11.67	10.77	10.73	10.41	10.39
16	14.19	14.07	---	---	---	---	11.67	11.61	10.73	10.70	10.39	10.39
17	14.07	14.07	---	---	12.37	11.79	11.61	11.60	10.70	10.70	10.39	10.36
18	14.07	13.88	---	---	12.59	12.37	11.60	11.54	10.70	10.70	10.36	10.34
19	13.88	13.74	---	---	12.70	12.59	11.54	11.47	10.70	10.69	10.34	10.31
20	13.74	13.73	---	---	12.73	12.70	11.47	11.43	10.71	10.70	10.31	10.31
21	13.73	13.71	---	---	12.74	12.73	11.43	11.41	10.71	10.71	10.31	10.31
22	13.71	13.66	---	---	12.74	12.73	11.41	11.37	10.71	10.70	10.31	10.30
23	13.66	13.66	11.81	11.75	12.73	12.73	11.37	11.34	10.72	10.70	10.30	10.28
24	13.66	13.49	11.75	11.62	12.73	12.73	11.34	11.32	10.72	10.72	10.28	10.28
25	13.49	13.37	11.62	11.57	12.73	12.73	11.32	11.27	10.72	10.72	10.28	10.21
26	13.37	13.34	11.73	11.57	12.73	12.72	11.27	11.19	10.72	10.71	10.21	10.14
27	13.34	13.34	11.80	11.73	12.72	12.70	11.19	11.12	10.72	10.71	10.18	10.16
28	13.34	13.06	11.84	11.80	12.71	12.71	11.12	11.12	10.72	10.71	10.16	10.12
29	13.06	12.94	11.84	11.84	12.71	12.63	11.12	11.11	10.71	10.71	10.12	10.09
30	13.03	12.94	11.84	11.84	12.63	12.58	11.12	11.11	10.71	10.70	10.14	10.09
31	---	---	---	---	---	---	11.11	10.99	10.70	10.70	---	---
MONTH	14.98	12.94	13.03	11.57	12.74	11.79	12.59	10.99	11.01	10.69	10.70	10.09
YEAR	14.98	9.88										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN DELAWARE

69

## KENT COUNTY--Continued

WELL NUMBER.--DM106S. SITE ID.--390734075271401. PERMIT NUMBER.--95513.

LOCATION.--Lat 39°07'34", long 75°27'14", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 17.4 ft; casing diameter 2 in., to 7.4 ft; screen diameter 2 in. from 7.4 to 17.4 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 8, 1995, to current year.

DATUM.--Elevation of land surface is 23.31 ft above sea level.

Measuring Point: Top of recorder platform 2.73 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--December 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.40 ft above sea level, March 22, 2001;

lowest measured, 13.30 ft above sea level, Jan. 2, 2000.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.91	19.82	16.93	16.88	16.59	16.59	18.82	18.69	22.66	22.51	23.89	23.89
2	19.82	19.65	16.90	16.84	16.59	16.53	18.69	18.58	22.78	22.51	23.89	23.72
3	19.65	19.33	16.85	16.78	16.58	16.53	18.70	18.58	22.52	22.36	23.72	23.47
4	19.33	19.17	16.88	16.83	16.73	16.58	18.77	18.70	22.47	22.33	23.88	23.47
5	19.17	19.05	16.86	16.69	16.85	16.71	19.98	18.71	23.31	22.47	24.09	23.88
6	19.11	18.84	16.70	16.64	16.76	16.65	19.94	19.55	23.58	23.31	24.18	23.98
7	18.84	18.57	16.67	16.63	16.83	16.73	19.55	19.47	23.58	23.46	23.98	23.80
8	18.57	18.50	16.66	16.63	16.73	16.60	19.54	19.47	23.56	23.46	23.80	23.76
9	18.50	18.46	16.86	16.64	16.60	16.48	19.49	19.29	23.77	23.56	23.87	23.77
10	18.46	18.34	16.93	16.67	16.62	16.48	19.30	19.11	23.80	23.27	23.83	23.72
11	18.34	18.14	16.67	16.55	16.84	16.62	19.23	19.12	23.27	23.17	23.72	23.54
12	18.14	18.02	16.55	16.55	16.95	16.34	19.17	19.02	23.32	23.17	23.79	23.44
13	18.02	17.95	16.60	16.55	16.59	16.30	19.02	18.94	23.47	23.32	24.17	23.79
14	17.96	17.93	16.72	16.60	16.75	16.59	19.12	18.97	23.69	23.47	24.07	23.84
15	17.93	17.80	16.65	16.49	16.74	16.58	19.22	19.12	23.71	23.43	23.94	23.83
16	17.80	17.63	16.68	16.49	17.18	16.74	19.23	19.13	23.81	23.43	24.06	23.94
17	17.63	17.54	16.71	16.46	18.38	17.18	19.18	19.13	23.92	23.78	24.06	23.98
18	17.67	17.55	16.48	16.40	19.46	18.38	19.41	19.18	23.80	23.76	23.98	23.73
19	17.64	17.41	16.50	16.46	20.07	19.46	20.58	19.41	23.87	23.78	23.73	23.69
20	17.41	17.33	16.61	16.50	20.06	19.72	22.26	20.58	23.87	23.85	23.71	23.67
21	17.39	17.34	16.56	16.43	19.91	19.72	22.39	22.26	23.86	23.45	24.38	23.71
22	17.35	17.10	16.46	16.42	20.00	19.71	22.72	22.39	23.71	23.45	24.40	24.21
23	17.11	17.05	16.45	16.34	19.71	19.62	22.95	22.72	23.71	23.46	24.21	24.01
24	17.22	17.11	16.34	16.33	19.87	19.66	22.95	22.94	23.62	23.42	24.07	23.84
25	17.22	17.18	16.55	16.34	19.76	19.44	22.94	22.63	24.16	23.62	23.84	23.79
26	17.18	17.11	16.79	16.55	19.56	19.44	22.83	22.60	24.16	23.88	23.80	23.79
27	17.29	17.15	16.73	16.65	19.63	19.55	22.90	22.50	23.96	23.88	23.79	23.78
28	17.29	16.94	16.65	16.57	19.62	19.43	22.50	22.42	23.95	23.89	23.78	23.70
29	17.09	16.94	16.75	16.57	19.43	19.30	22.52	22.39	---	---	24.00	23.68
30	17.02	16.96	16.76	16.59	19.45	19.27	22.95	22.52	---	---	24.34	24.00
31	16.96	16.92	---	---	19.27	18.82	22.94	22.66	---	---	24.22	24.20
MONTH	19.91	16.92	16.93	16.33	20.07	16.30	22.95	18.58	24.16	22.33	24.40	23.44

GROUND-WATER LEVELS IN DELAWARE

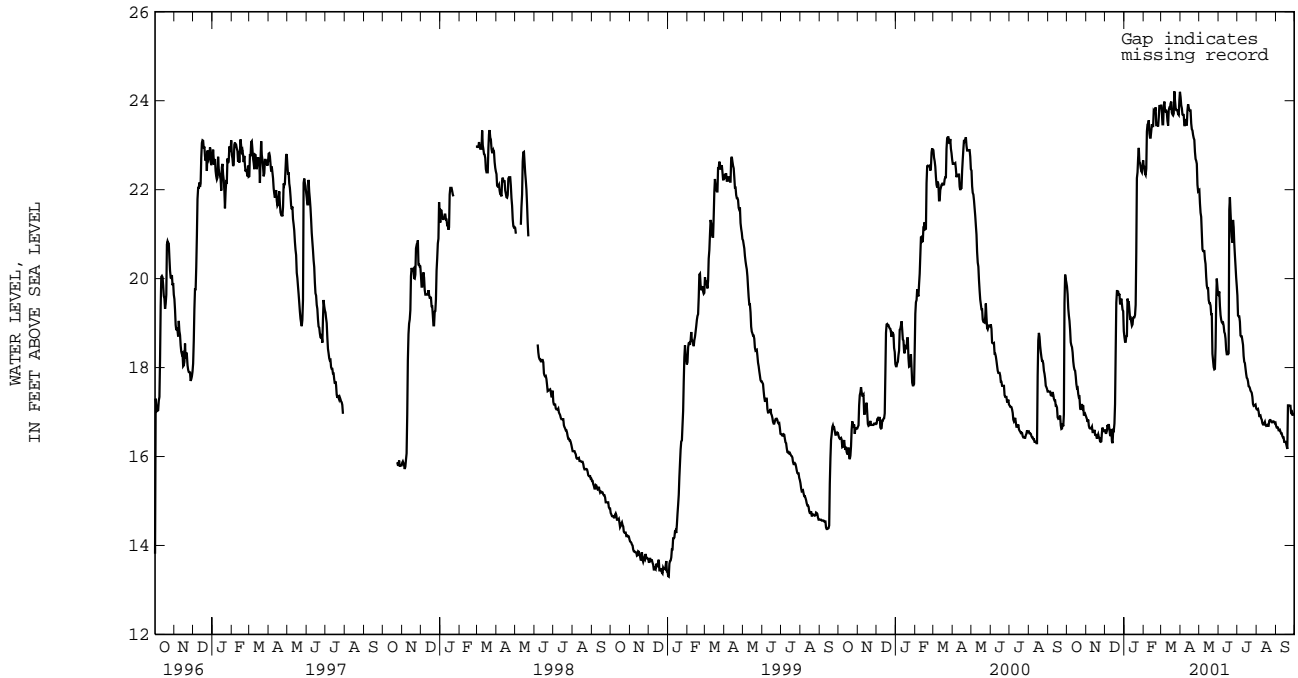
KENT COUNTY--Continued

DML06S--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN									
	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN				
1	24.20	24.08	22.07	22.00	19.75	19.63	19.83	19.62	17.09	17.06	16.83	16.69												
2	24.08	23.90	22.00	21.69	19.75	19.71	19.62	19.17	17.07	17.06	16.69	16.65												
3	23.90	23.83	21.69	21.48	19.71	19.38	19.17	19.15	17.16	17.07	16.65	16.65												
4	23.83	23.69	21.48	21.39	19.38	19.18	19.21	19.15	17.14	17.01	16.68	16.65												
5	23.69	23.68	21.39	21.02	19.18	19.08	19.21	19.03	17.01	16.91	16.67	16.59												
6	23.80	23.68	21.02	20.66	19.08	19.02	19.03	18.72	16.92	16.91	16.60	16.59												
7	23.76	23.45	20.66	20.62	19.02	19.00	18.72	18.70	16.93	16.92	16.60	16.60												
8	23.62	23.45	20.63	20.62	19.04	19.01	18.77	18.70	16.93	16.86	16.60	16.56												
9	23.68	23.59	20.63	20.62	19.03	18.94	18.77	18.61	16.86	16.83	16.56	16.52												
10	23.59	23.46	20.62	20.43	18.94	18.80	18.61	18.51	16.83	16.75	16.54	16.52												
11	23.78	23.46	20.43	20.33	18.80	18.76	18.51	18.26	16.75	16.72	16.52	16.46												
12	24.06	23.78	20.33	20.04	18.76	18.65	18.26	18.13	16.75	16.72	16.46	16.43												
13	24.06	23.92	20.04	19.84	18.65	18.40	18.13	18.10	16.80	16.75	16.45	16.43												
14	23.92	23.85	19.84	19.78	18.40	18.30	18.10	17.98	16.82	16.78	16.45	16.33												
15	23.85	23.79	19.84	19.78	18.30	18.30	17.98	17.86	16.78	16.71	16.34	16.33												
16	23.82	23.78	19.80	19.52	18.32	18.30	17.86	17.77	16.71	16.69	16.34	16.33												
17	23.86	23.78	19.52	19.45	21.55	18.32	17.77	17.75	16.73	16.70	16.34	16.29												
18	23.85	23.49	19.46	19.45	21.94	21.55	17.75	17.69	16.71	16.71	16.29	16.23												
19	23.49	23.36	19.47	19.39	21.96	21.83	17.69	17.58	16.71	16.69	17.15	16.17												
20	23.36	23.33	19.39	19.20	21.83	21.48	17.58	17.57	16.80	16.69	17.16	17.15												
21	23.33	23.23	19.31	19.20	21.48	21.18	17.57	17.54	16.83	16.80	17.16	17.15												
22	23.23	23.16	19.36	18.31	21.18	20.94	17.54	17.48	16.82	16.82	17.15	17.15												
23	23.16	23.12	18.31	18.16	21.32	20.81	17.48	17.46	16.87	16.82	17.15	17.14												
24	23.12	22.85	18.16	18.01	21.53	21.32	17.46	17.43	16.87	16.79	17.16	17.14												
25	22.85	22.69	18.01	17.96	21.50	21.16	17.43	17.34	16.79	16.77	17.16	16.98												
26	22.69	22.65	18.45	17.97	21.16	20.79	17.34	17.18	16.80	16.77	17.00	16.96												
27	22.65	22.58	19.46	18.45	20.79	20.53	17.18	17.14	16.82	16.79	17.00	16.99												
28	22.58	22.11	20.00	19.46	20.53	20.28	17.16	17.15	16.81	16.79	16.99	16.94												
29	22.11	21.97	20.10	20.00	20.28	20.03	17.28	17.16	16.79	16.77	16.94	16.94												
30	22.07	21.99	20.08	19.81	20.03	19.83	17.28	17.17	16.77	16.75	16.94	16.94												
31	---	---	19.81	19.64	---	---	17.17	17.09	16.83	16.76	---	---												
MONTH	24.20	21.97	22.07	17.96	21.96	18.30	19.83	17.09	17.16	16.69	17.16	16.17												
YEAR	24.40	16.17																						

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

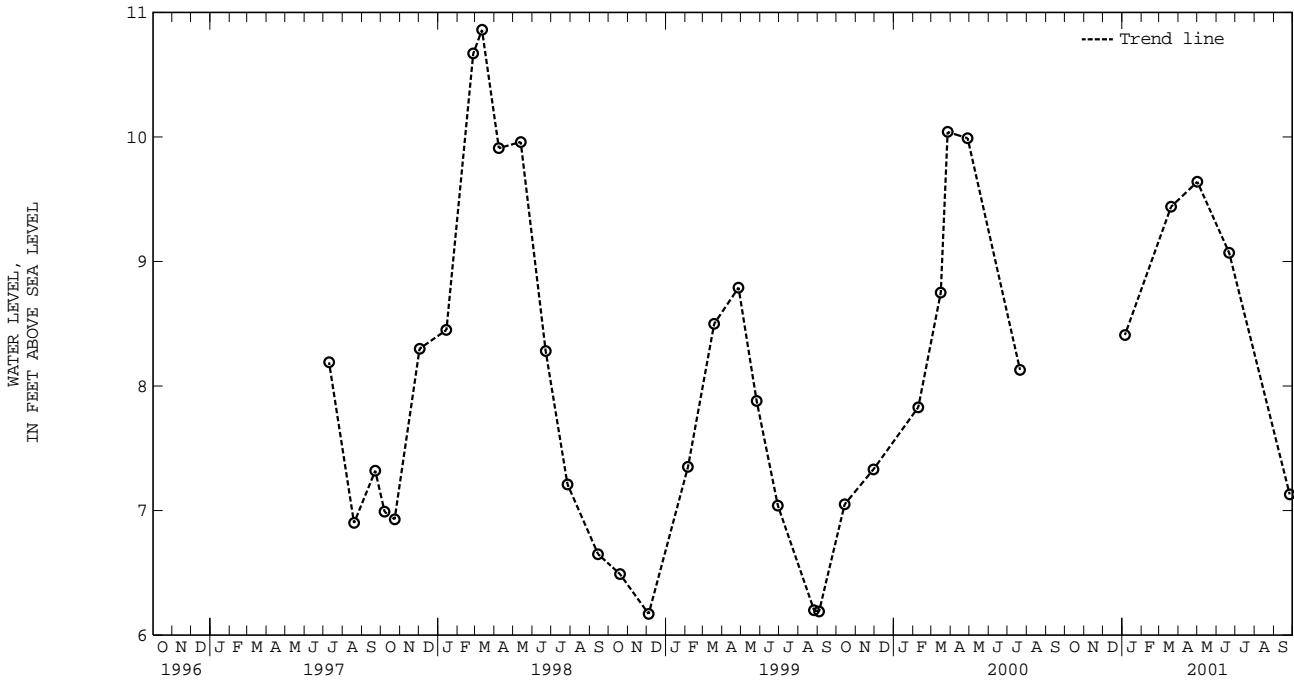


KENT COUNTY--Continued

WELL NUMBER.--DM108D. SITE ID.--390801075272302. PERMIT NUMBER.--95551.  
 LOCATION.--Lat 39°08'01", long 75°27'23", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 32.8 ft; protective casing from +2 to 2.5 ft, casing diameter 2 in., to 22.8 ft; screen diameter 2 in. from 22.8 to 32.8 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 10, 1997, to March 16, 2000.  
 DATUM.--Elevation of land surface is 11.46 ft above sea level.  
 Measuring Point: Top of PVC casing 2.85 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.86 ft above sea level, March 12, 1998;  
 lowest measured, 6.17 ft above sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05, 2001	8.41	MAY 01, 2001	9.64	SEP 26, 2001	7.13
MAR 20	9.44	JUN 21	9.07		
WATER YEAR 2001 HIGHEST 9.64		MAY 01, 2001		LOWEST 7.13 SEP 26, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM108S. SITE ID.--390801075272301. PERMIT NUMBER.--95525.

LOCATION.--Lat 39°08'01", long 75°27'23", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 16.9 ft; protective casing diameter 6 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 6.9 ft; screen diameter 2 in. from 6.9 to 16.9 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 10, 1997, to current year.

DATUM.--Elevation of land surface is 11.66 ft above sea level.

Measuring Point: Top of recorder platform 2.84 ft above land surface.

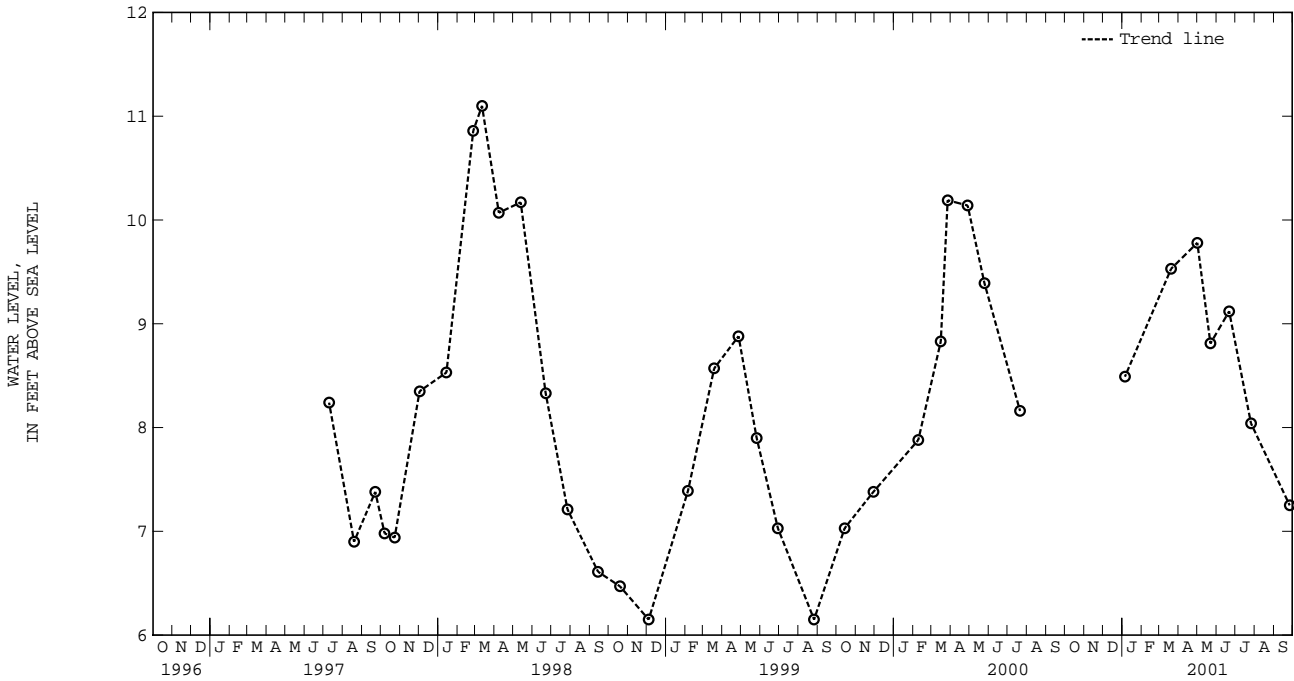
REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

PERIOD OF RECORD.--July 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.10 ft above sea level, March 12, 1998;  
lowest measured, 6.15 ft above sea level, Dec. 4, 1998, and Aug. 26, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05, 2001	8.49	MAY 01, 2001	9.78	JUN 21, 2001	9.12	SEP 26, 2001	7.25
MAR 20	9.53	22	8.81	JUL 26	8.04		
WATER YEAR 2001		HIGHEST	9.78	MAY 01, 2001	LOWEST	7.25	SEP 26, 2001



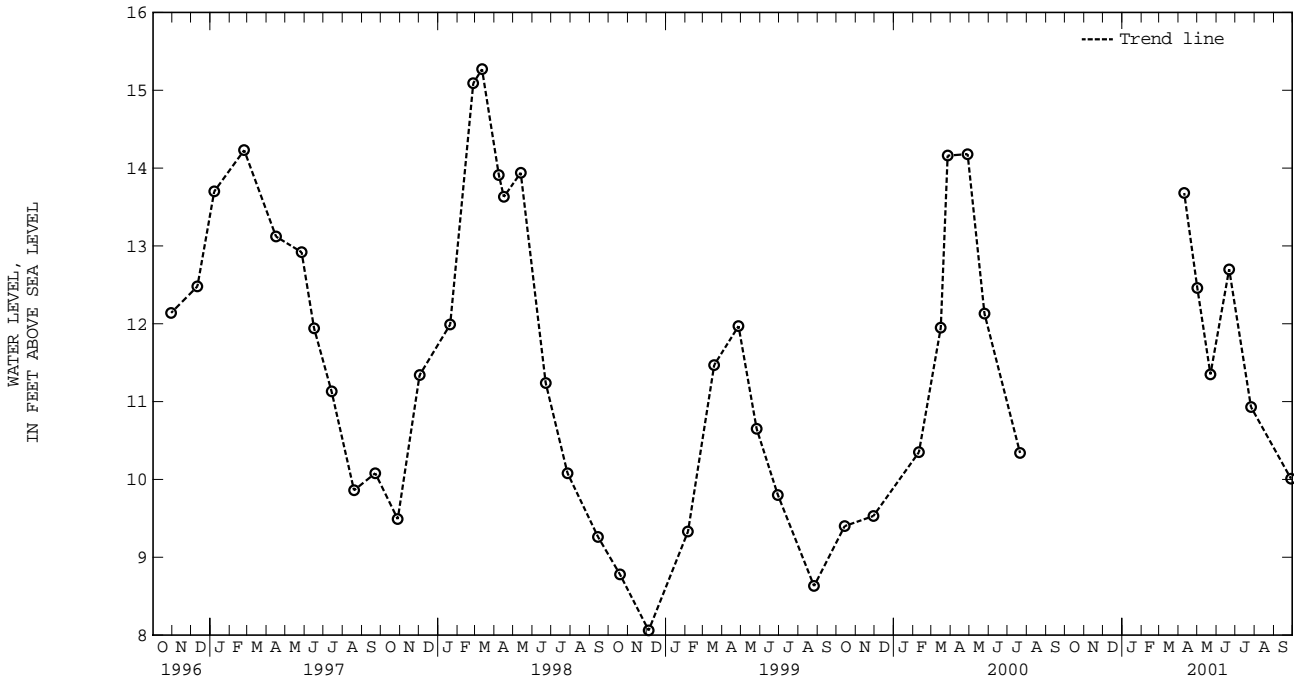
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--DM110D. SITE ID.--390744075270402. PERMIT NUMBER.--95553.  
 LOCATION.--Lat 39°07'44", long 75°27'04", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 73.4 ft; casing diameter 2 in., to 63.4 ft; screen diameter 2 in. from 63.4 to 73.4 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 15, 2000.  
 DATUM.--Elevation of land surface is 25.66 ft above sea level.  
 Measuring Point: Top of casing 4.06 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.12 ft above sea level, March 9, 1998;  
 lowest measured, 7.84 ft above sea level, Jan. 2, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 10, 2001	13.68	MAY 22, 2001	11.35	JUL 26, 2001	10.93
MAY 01	12.46	JUN 21	12.70	SEP 28	10.01
WATER YEAR 2001 HIGHEST 13.68 APR 10, 2001		LOWEST 10.01		SEP 28, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE

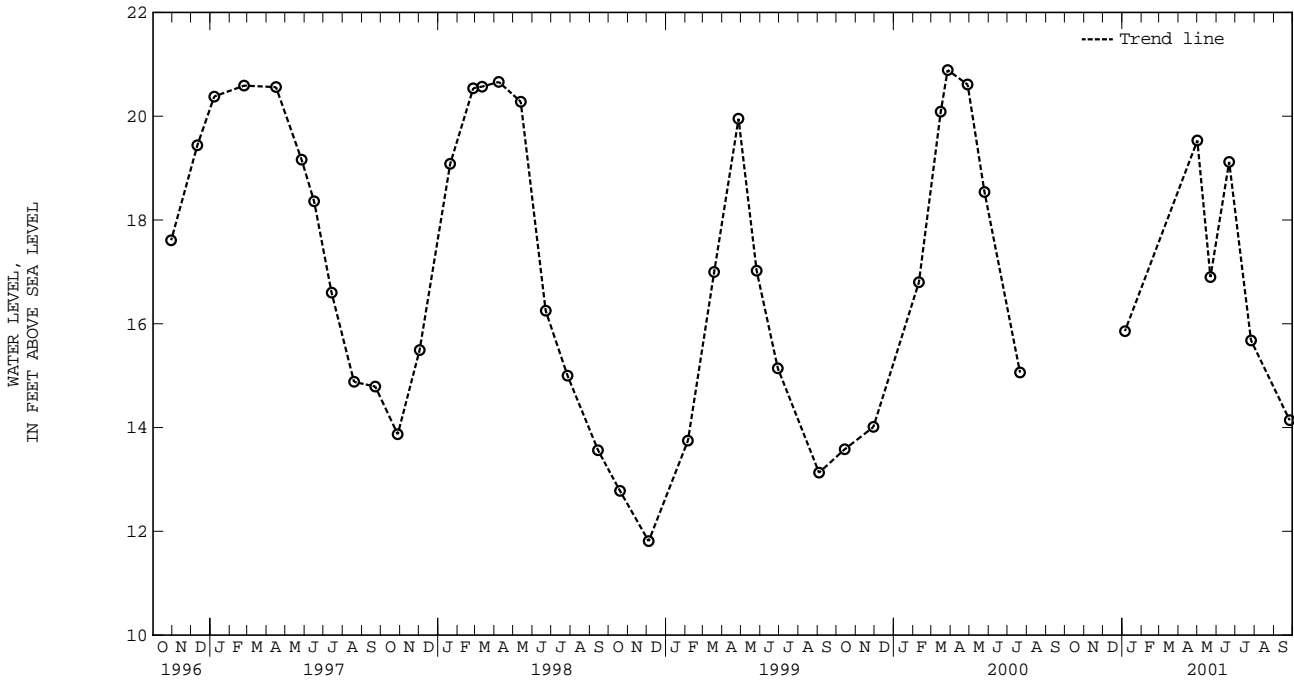
KENT COUNTY--Continued

WELL NUMBER.--DM110S. SITE ID.--390744075270401. PERMIT NUMBER.--95528.  
 LOCATION.--Lat 39°07'44", long 75°27'04", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20.3 ft; casing diameter 2 in., to 10.3 ft; screen diameter 2 in. from 10.3 to 20.3 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 16, 2000.  
 DATUM.--Elevation of land surface is 25.66 ft above sea level.  
 Measuring Point: Top of recorder platform 3.70 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.32 ft above sea level, March 17, 2000; lowest measured, 11.81 ft above sea level, Dec. 1-2, and 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05, 2001	15.86	MAY 22, 2001	16.90	JUL 26, 2001	15.68
MAY 01	19.53	JUN 21	19.12	SEP 26	14.14

WATER YEAR 2001      HIGHEST    19.53    MAY 01, 2001      LOWEST    14.14    SEP 26, 2001



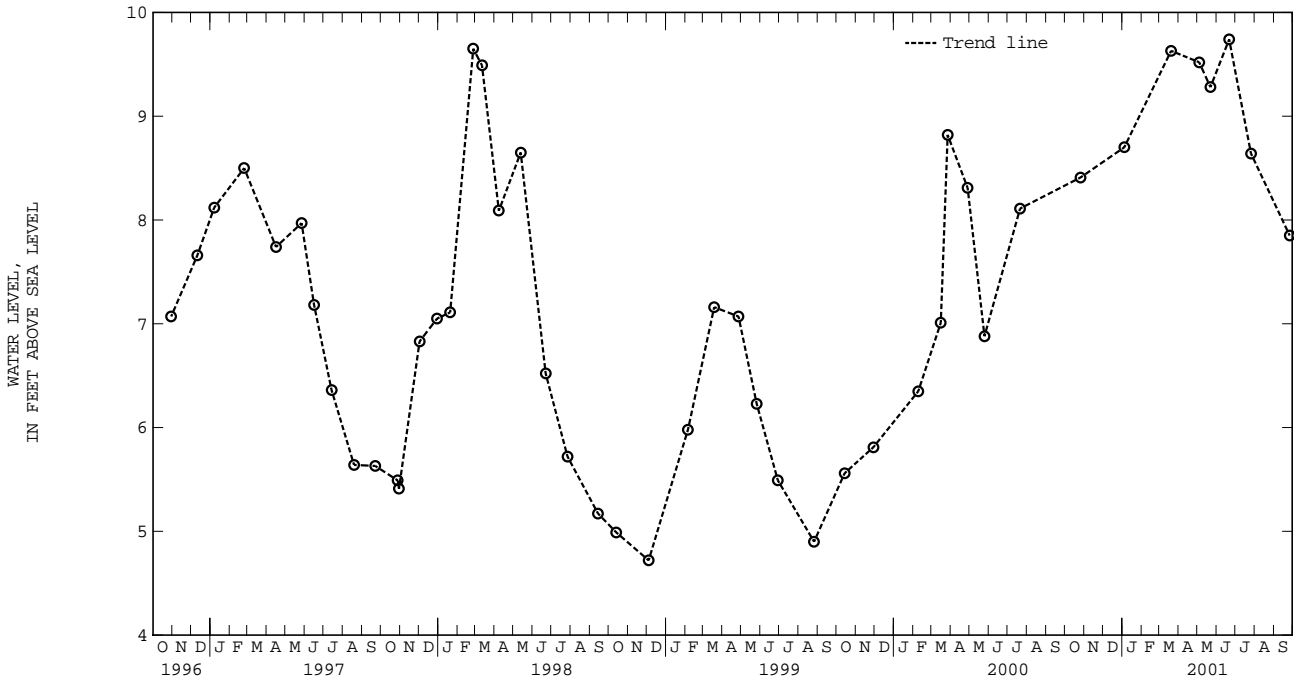
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--DM202D. SITE ID.--390833075273601. PERMIT NUMBER.--95544.  
 LOCATION.--Lat 39°08'33", long 75°27'36", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 27.6ft; casing diameter 2 in., to 17.6 ft; screen diameter 2 in. from 17.6 to 27.6 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 15, 2000.  
 DATUM.--Elevation of land surface is 13.74 ft above sea level.  
 Measuring Point: Top of casing 2.23 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.00 ft above sea level, March 9, 1998;  
 lowest measured, 4.71 ft above sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	8.41	MAR 20, 2001	9.63	MAY 22, 2001	9.28	JUL 26, 2001	8.64
JAN 04, 2001	8.70	MAY 04	9.52	JUN 21	9.74	SEP 26	7.85
WATER YEAR 2001		HIGHEST	9.74	JUN 21, 2001	LOWEST	7.85	SEP 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

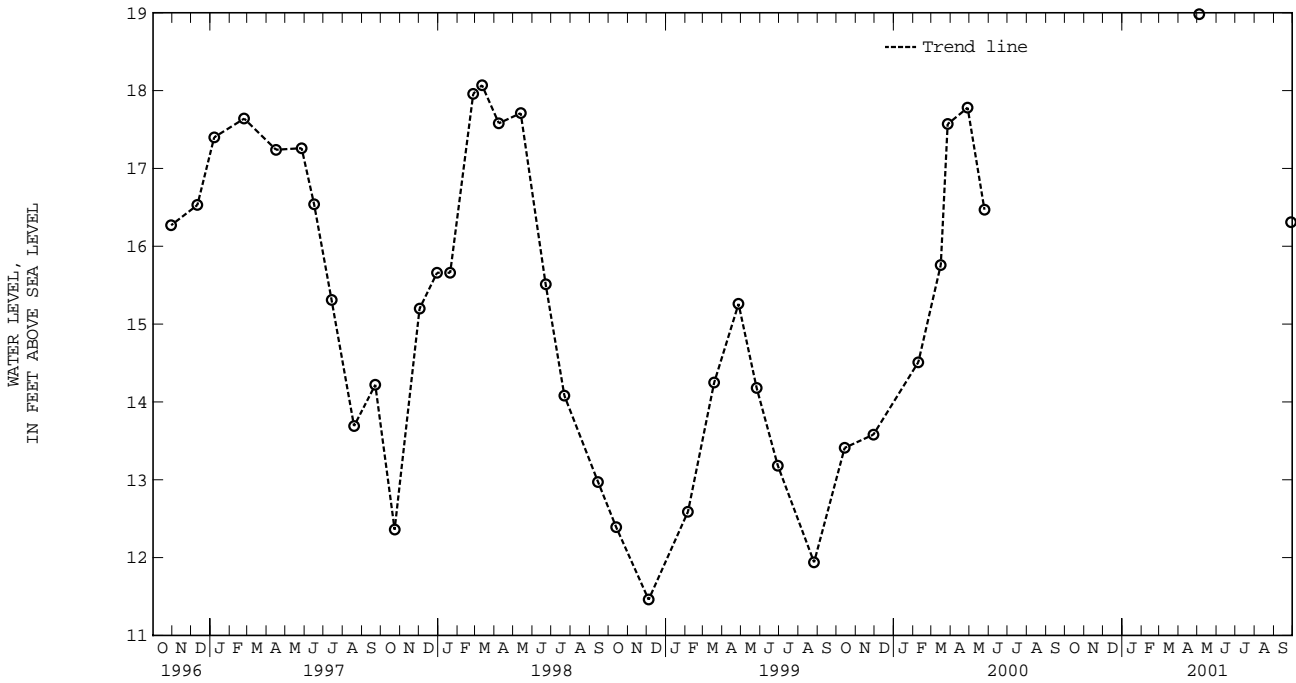
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM204D. SITE ID.--390827075290401. PERMIT NUMBER.--95546.  
 LOCATION.--Lat 39°08'27", long 75°29'04", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 34.7 ft; casing diameter 2 in., to 24.7 ft; screen diameter 2 in. from 24.7 to 34.7 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 16, 2000.  
 DATUM.--Elevation of land surface is 22.28 ft above sea level.  
 Measuring Point: Top of casing 2.48 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.98 ft above sea level, May 4, 2001; lowest measured, 11.46 ft above sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 04, 2001	18.98	SEP 28, 2001	16.31
WATER YEAR 2001 HIGHEST 18.98 MAY 04, 2001		LOWEST 16.31 SEP 28, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

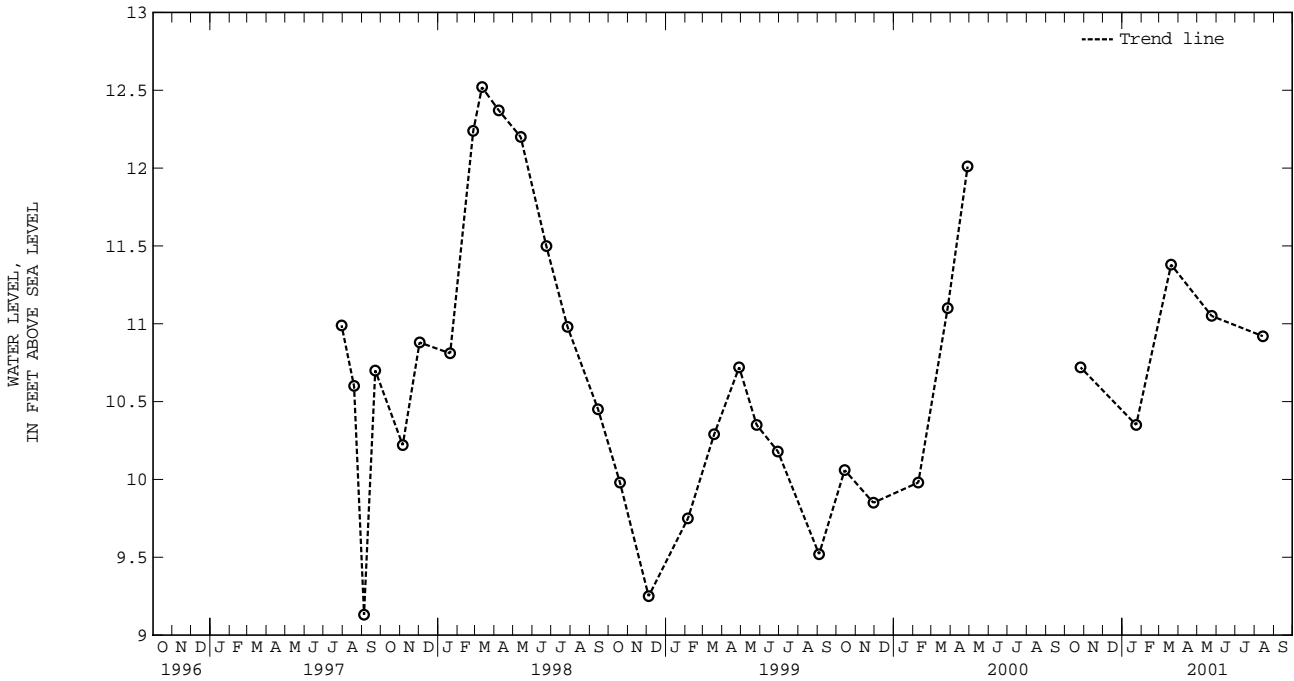
KENT COUNTY--Continued

WELL NUMBER.--DM310SB. SITE ID.--390729075283701. PERMIT NUMBER.--96051.  
 LOCATION.--Lat 39°07'29", long 75°28'37", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 10 ft; screen diameter 2 in. from 10 to 20 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Feb 26, 1998, to Oct. 26, 2000.  
 DATUM.--Elevation of land surface is 20.38 ft above sea level.  
 Measuring Point: Top of PVC 0.28 ft below land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--July 1997 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.52 ft above sea level, March 12, 1998;  
 lowest measured, 9.13 ft above sea level, Sept. 4, 1997.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	10.72	MAR 20, 2001	11.38	AUG 14, 2001	10.92
JAN 23, 2001	10.35	MAY 24	11.05		

WATER YEAR 2001      HIGHEST    11.38    MAR 20, 2001      LOWEST    10.35    JAN 23, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM347D. SITE ID.--390819075292902. PERMIT NUMBER.--96044.

LOCATION.--Lat 39°08'19", long 75°29'29", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 41.1 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 31.1 ft; screen diameter 2 in. from 31.1 to 41.1 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 25.90 ft above sea level.

Measuring Point: Top of PVC casing 2.84 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

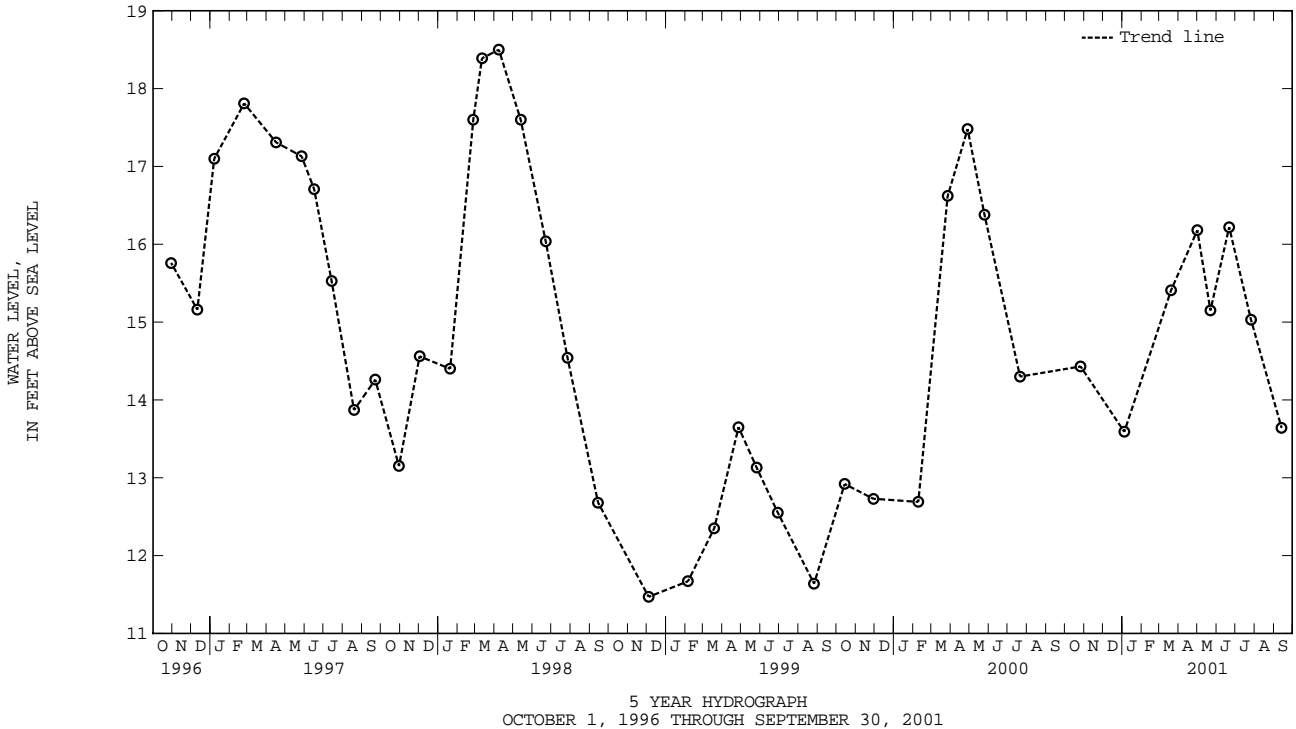
PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.50 ft above sea level, April 8, 1998;

lowest measured, 11.47 ft below sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	14.43	MAR 20, 2001	15.41	MAY 22, 2001	15.15	JUL 26, 2001	15.03
JAN 04, 2001	13.59	MAY 01	16.18	JUN 21	16.22	SEP 13	13.64
WATER YEAR 2001 HIGHEST 16.22 JUN 21, 2001		LOWEST 13.59		JAN 04, 2001			





KENT COUNTY--Continued

WELL NUMBER.--DM347S. SITE ID.--390819075292901. PERMIT NUMBER.--95919.

LOCATION.--Lat 39°08'19", long 75°29'29", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20.3 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 10.3 ft; screen diameter 2 in. from 10.3 to 20.3 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 25.89 ft above sea level.

Measuring Point: Top of PVC casing 2.84 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

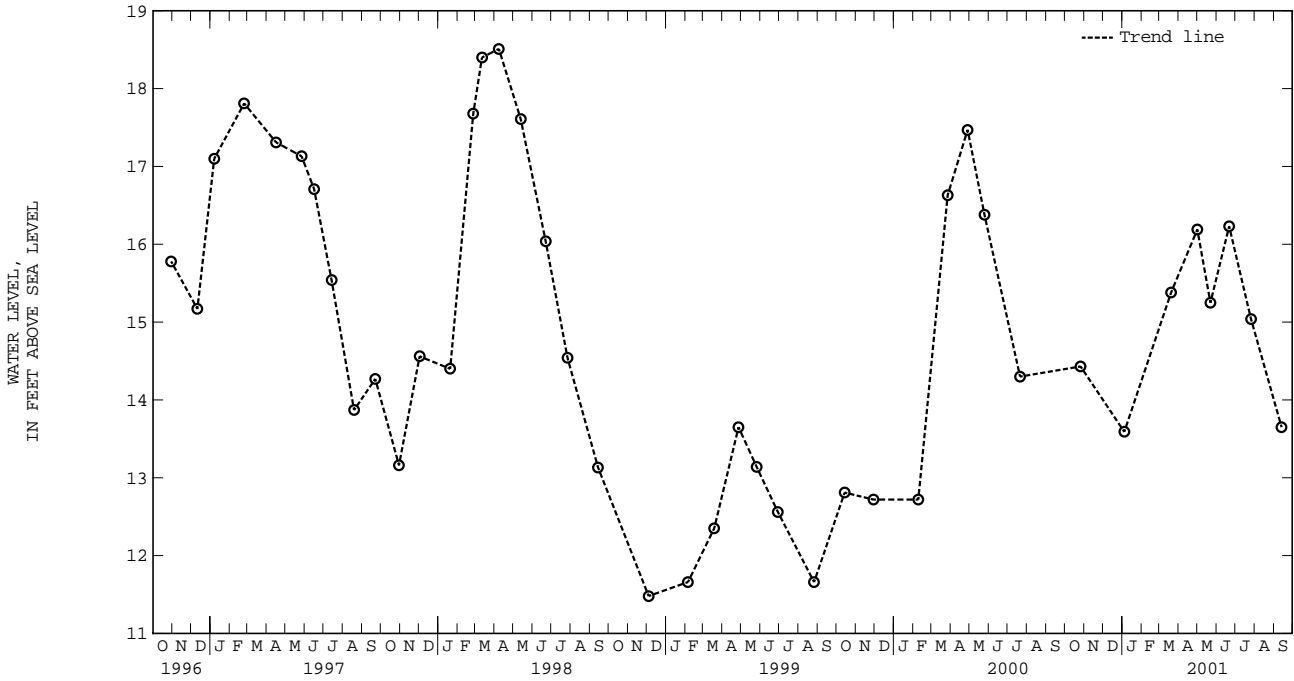
PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.51 ft above sea level, April 8, 1998;

lowest measured, 11.48 ft above sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	14.43	MAR 20, 2001	15.38	MAY 22, 2001	15.25	JUL 26, 2001	15.04
JAN 04, 2001	13.59	MAY 01	16.19	JUN 21	16.23	SEP 13	13.65
WATER YEAR 2001 HIGHEST 16.23 JUN 21, 2001		LOWEST 13.59 JAN 04, 2001					



GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM348D. SITE ID.--390815075293402. PERMIT NUMBER.--96041.

LOCATION.--Lat 39°08'15", long 75°29'34", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 34 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 24 ft; screen diameter 2 in. from 24 to 34 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Jan. 7, 1997, to Nov. 27, 2000.

DATUM.--Elevation of land surface is 26.09 ft above sea level.

Measuring Point: Top of PVC casing 3.04 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

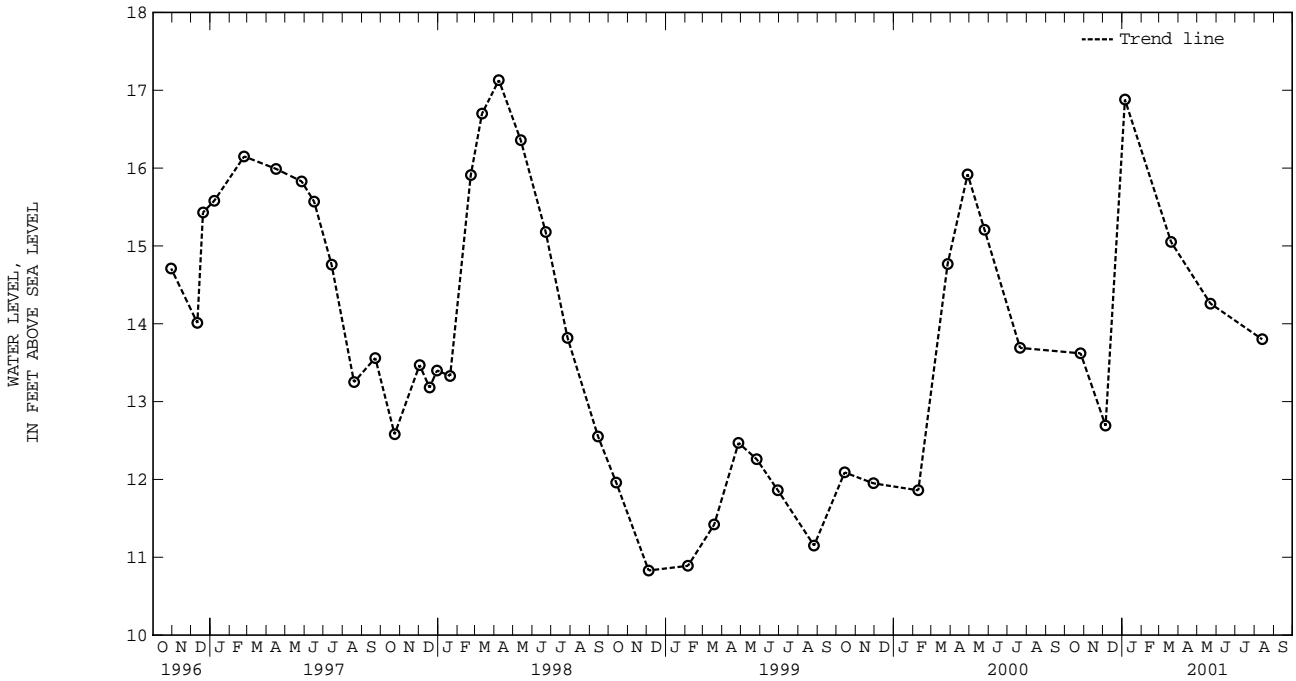
PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.43 ft above sea level, April 9, 1998; lowest measured, 10.83 ft below sea level, Dec. 4, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	13.62	JAN 05, 2001	16.88	MAY 22, 2001	14.26
DEC 05	12.69	MAR 20	15.05	AUG 13	13.80

WATER YEAR 2001 HIGHEST 16.88 JAN 05, 2001 LOWEST 12.69 DEC 05, 2000



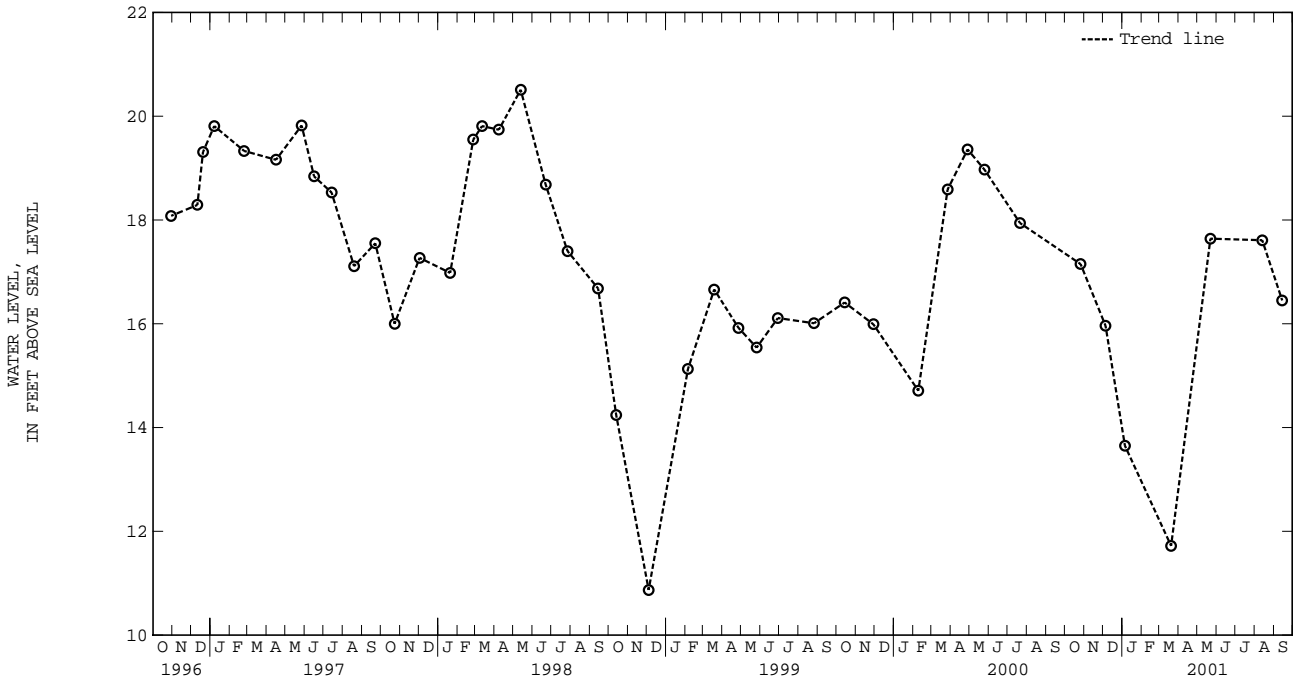
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--DM348S. SITE ID.--390815075293401. PERMIT NUMBER.--95916.  
 LOCATION.--Lat 39°08'15", long 75°29'34", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 21.2 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 11.2 ft; screen diameter 2 in. from 11.2 to 21.2 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec 20, 1996, to Nov. 27, 2000.  
 DATUM.--Elevation of land surface is 26.09 ft above sea level.  
 Measuring Point: Top of PVC casing 3.12 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--October 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.57 ft above sea level, May 13, 1998;  
 lowest measured, 10.57 ft above sea level, Dec. 2, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	17.15	JAN 05, 2001	13.65	MAY 22, 2001	17.64	SEP 14, 2001	16.45
DEC 05	15.96	MAR 20	11.72	AUG 13	17.61		
WATER YEAR 2001		HIGHEST	17.64	MAY 22, 2001	LOWEST	11.72	MAR 20, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

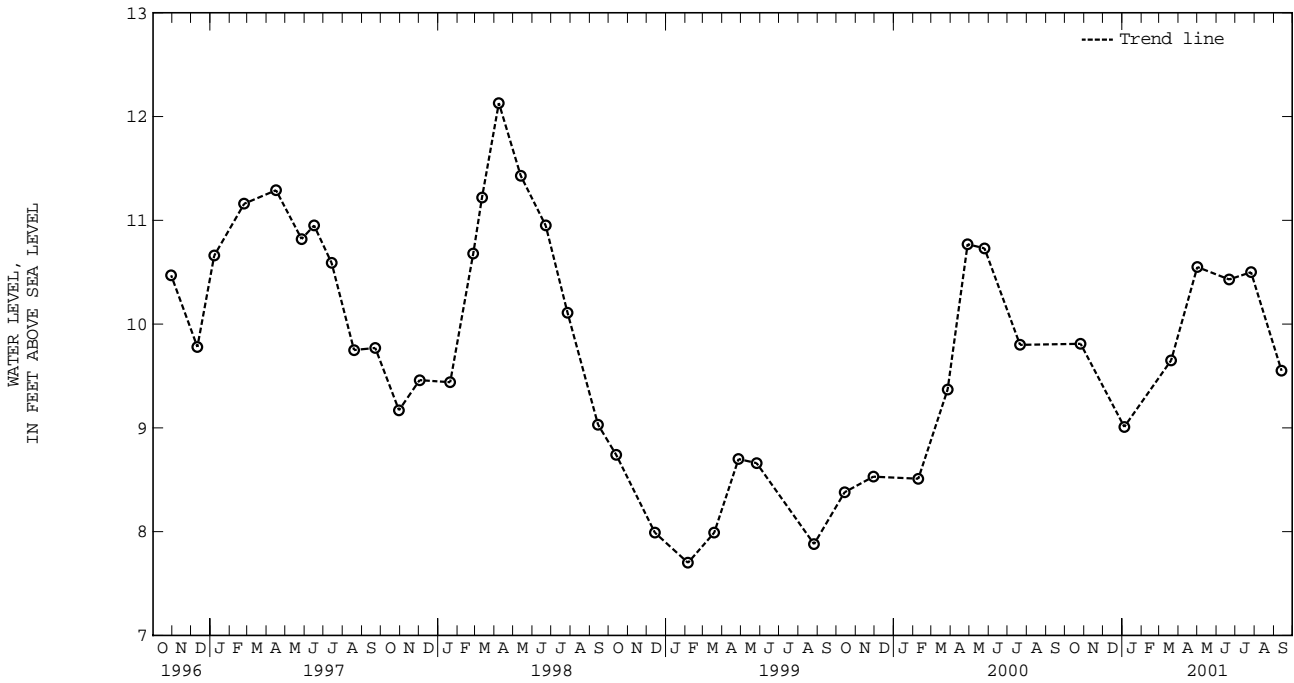
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM349D. SITE ID.--390811075293802. PERMIT NUMBER.--96042.  
 LOCATION.--Lat 39°08'11", long 75°29'38", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 34.4 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 24.4 ft; screen diameter 2 in. from 24.4 to 34.4 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 29.40 ft above sea level.  
 Measuring Point: Top of PVC casing 2.60 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--October 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.13 ft above sea level, April 8, 1998;  
 lowest measured, 7.70 ft above sea level, Feb. 5, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	9.81	MAR 20, 2001	9.65	JUN 21, 2001	10.43	SEP 13, 2001	9.55
JAN 04, 2001	9.01	MAY 01	10.55	JUL 26	10.50		
WATER YEAR 2001 HIGHEST 10.55		MAY 01, 2001		LOWEST 9.01		JAN 04, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--DM349S. SITE ID.--390811075293801. PERMIT NUMBER.--95917.

LOCATION.--Lat 39°08'11", long 75°29'38", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 27.9 ft; protective casing diameter 4 in. from +2.5 to 2.5 ft, casing diameter 2 in., to 17.9 ft; screen diameter 2 in. from 17.9 to 27.9 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 29.72 ft above sea level.

Measuring Point: Top of PVC casing 2.71 ft above land surface.

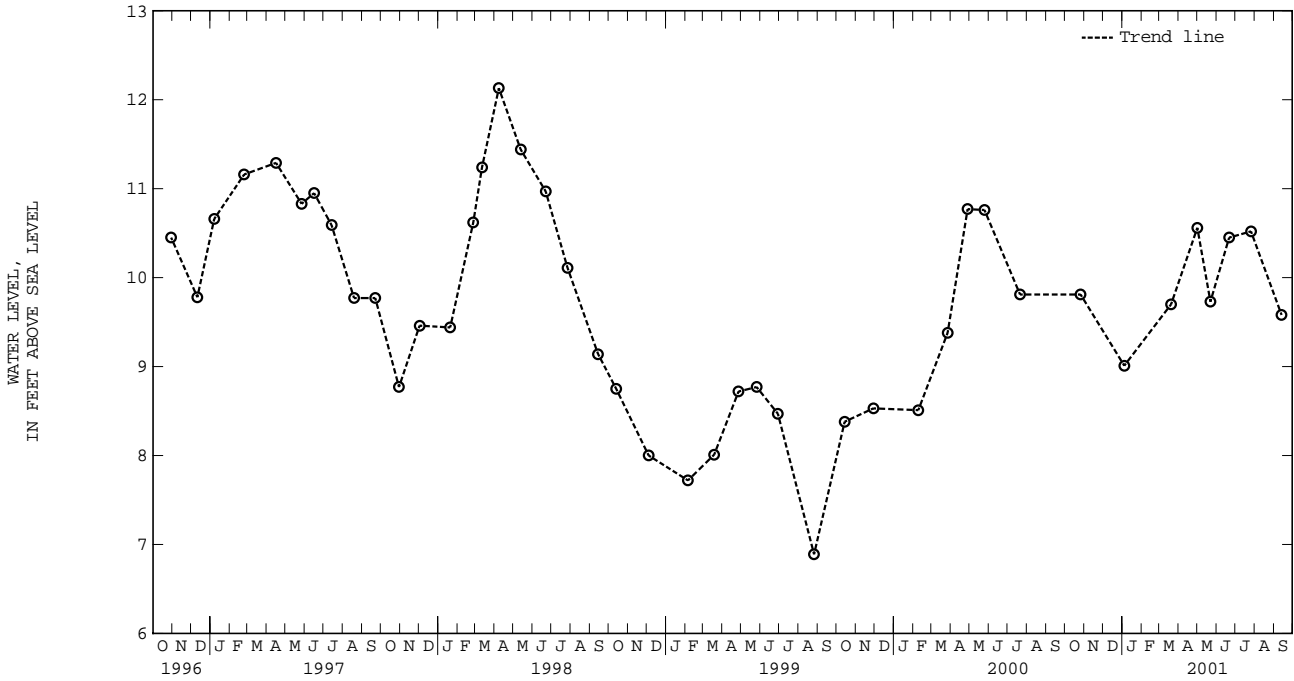
REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.13 ft above sea level, April 8, 1998;  
lowest measured, 6.89 ft above sea level, Aug. 26, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	9.81	MAR 20, 2001	9.70	MAY 22, 2001	9.73	JUL 26, 2001	10.52
JAN 04, 2001	9.01	MAY 01	10.56	JUN 21	10.45	SEP 13	9.58
WATER YEAR 2001 HIGHEST 10.56		MAY 01, 2001		LOWEST 9.01		JAN 04, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

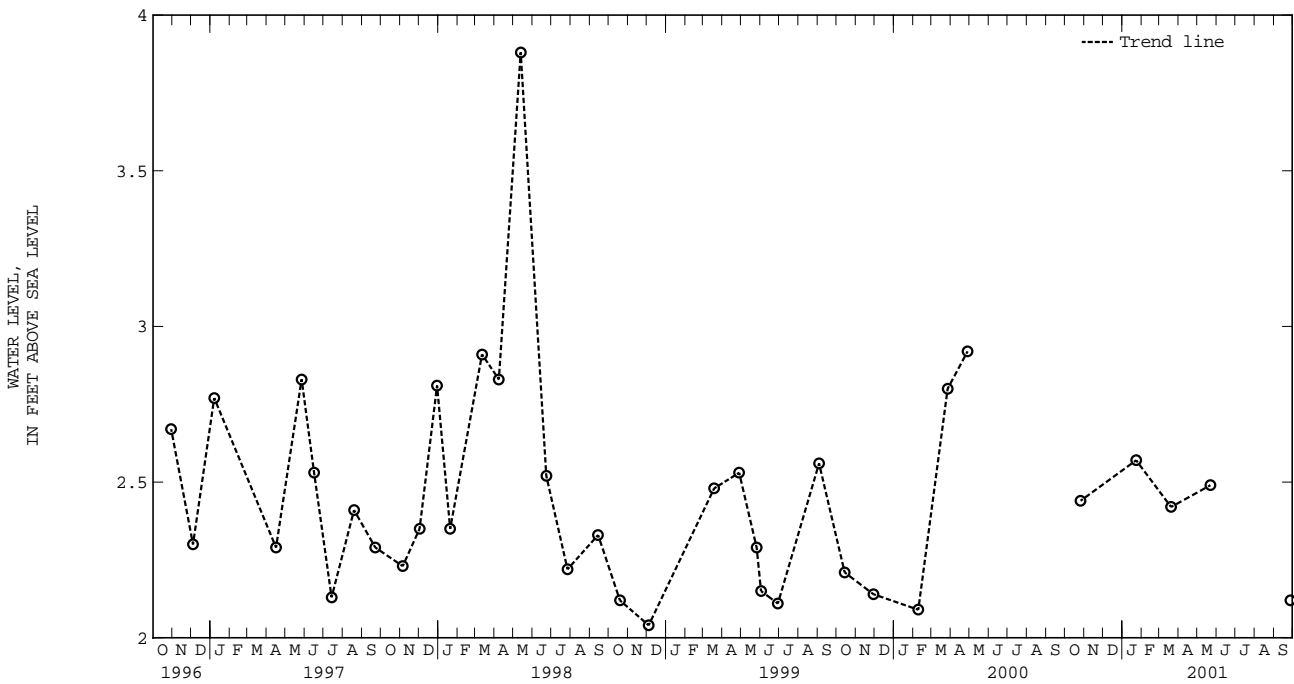
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM358D. SITE ID.--390707075293401. PERMIT NUMBER.--96066.  
 LOCATION.--Lat 39°07'07", long 75°29'34", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 21.7 ft; casing diameter 2 in., to 6.7 ft; screen diameter 2 in. from 6.7 to 21.7 ft.  
 INSTRUMENTATION.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with pressure transducer water-level recorder--60-minute recorder interval from Oct. 30, 1995, to December 3, 1998.  
 DATUM.--Elevation of land surface is 12.32 ft above sea level.  
 Measuring Point: Top of casing 2.85 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.88 ft above sea level, May 13, 1998;  
 lowest measured, 1.83 ft above sea level, Nov. 28, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 26, 2000	2.44	MAR 20, 2001	2.42	SEP 27, 2001	2.12	
JAN 23, 2001	2.57	MAY 22	2.49			
WATER YEAR 2001		HIGHEST	2.57	JAN 23, 2001	LOWEST	2.12
				SEP 27, 2001		



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--DM378F. SITE ID.--390747075292601. PERMIT NUMBER.--96947.

LOCATION.--Lat 39°07'47", long 75°29'26", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Frederica aquifer of the Calvert Formation of Lower Miocene age. Aquifer code: 122FRDC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 79.2 ft; casing diameter 8 in. to 50 ft, and casing diameter 3 in. from +1.49 to 69.2 ft; screen diameter 3 in. from 69.2 to 79.2 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with pressure transducer water-level recorder--60-minute recorder interval from Oct. 30, 1995, to May 24, 2001.

DATUM.--Elevation of land surface is 32.40 ft above sea level.

Measuring Point: Top of PVC casing 1.49 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well.

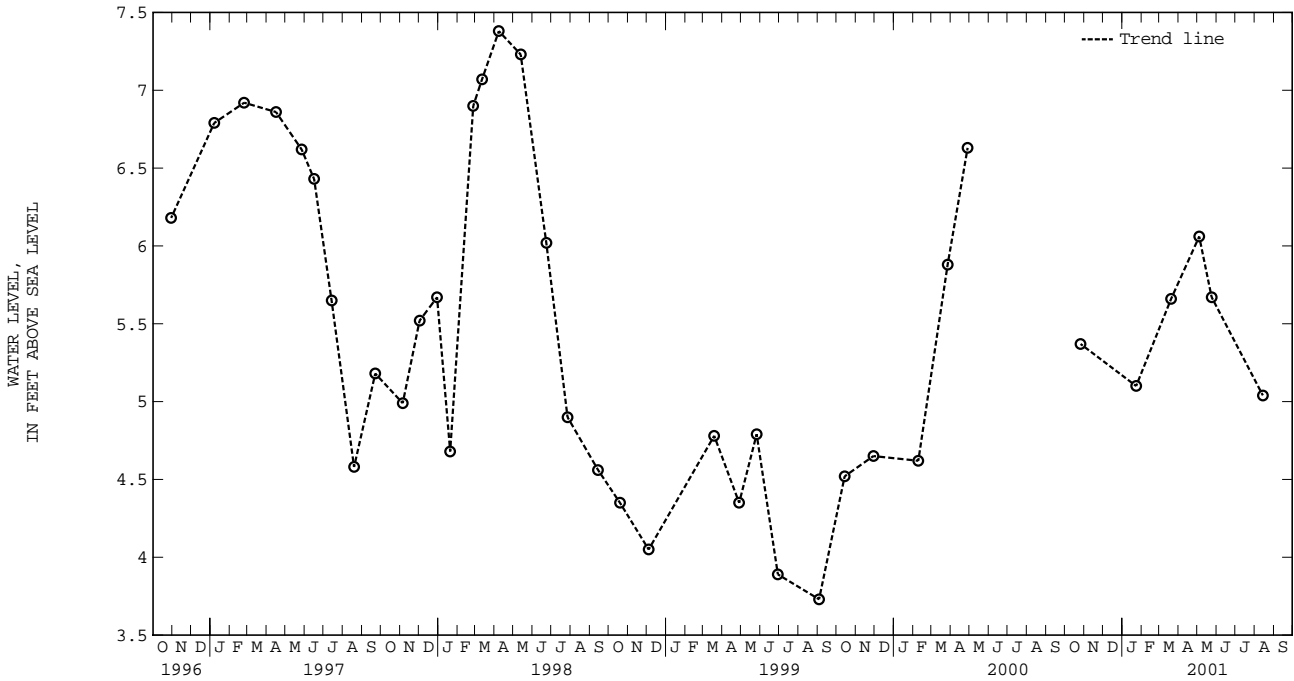
PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.59 ft above sea level, March 22, 1998;  
lowest measured, 3.07 ft above sea level, Aug. 16, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	5.37	MAR 20, 2001	5.66	MAY 24, 2001	5.67
JAN 23, 2001	5.10	MAY 04	6.06	AUG 14	5.04

WATER YEAR 2001      HIGHEST      6.06      MAY 04, 2001      LOWEST      5.04      AUG 14, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN DELAWARE

## KENT COUNTY--Continued

WELL NUMBER.--DM412D. SITE ID.--390629075272701. PERMIT NUMBER.--95941.

LOCATION.--Lat 39°06'29", long 75°27'27", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 69.6 ft; casing diameter 2 in., to 59.6 ft; screen diameter 2 in. from 59.6 to 69.6 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to current year.

DATUM.--Elevation of land surface is 21.19 ft above sea level.

Measuring Point: Top of casing 2.86 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other construction factors.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.77 ft above sea level, Feb. 21, 1997;

lowest measured, 1.30 ft above sea level, Dec. 6-9, 1998.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.78	4.77	4.12	4.05	3.54	3.50	4.19	4.14	4.65	4.58	4.92	4.85
2	4.77	4.75	4.05	3.97	3.50	3.46	4.23	4.19	4.59	4.53	4.97	4.92
3	4.75	4.70	3.97	3.89	3.46	3.44	4.31	4.23	4.53	4.47	5.01	4.97
4	4.70	4.64	3.89	3.85	3.47	3.44	4.36	4.31	4.47	4.45	5.11	5.01
5	4.64	4.63	3.85	3.81	3.50	3.47	4.43	4.36	4.60	4.47	5.16	5.11
6	4.63	4.61	3.81	3.78	3.48	3.45	4.46	4.43	4.56	4.55	5.22	5.16
7	4.61	4.61	3.78	3.74	3.46	3.41	4.51	4.46	4.55	4.48	5.23	5.21
8	4.62	4.61	3.74	3.69	3.41	3.35	4.57	4.51	4.48	4.46	5.27	5.22
9	4.65	4.62	3.69	3.64	3.35	3.32	4.62	4.57	4.46	4.45	5.28	5.27
10	4.67	4.65	3.64	3.59	3.34	3.32	4.65	4.62	4.46	4.37	5.28	5.27
11	4.70	4.67	3.59	3.56	3.40	3.34	4.67	4.65	4.37	4.34	5.29	5.27
12	4.69	4.69	3.56	3.55	3.42	3.40	4.67	4.65	4.35	4.33	5.37	5.29
13	4.74	4.69	3.55	3.52	3.41	3.40	4.65	4.64	4.36	4.32	5.41	5.37
14	4.80	4.74	3.52	3.48	3.43	3.40	4.68	4.65	4.32	4.30	5.42	5.38
15	4.87	4.80	3.48	3.42	3.40	3.36	4.68	4.67	4.30	4.21	5.43	5.40
16	4.91	4.87	3.42	3.39	3.36	3.35	4.68	4.66	4.23	4.21	5.43	5.42
17	4.93	4.91	3.39	3.32	3.51	3.36	4.66	4.63	4.25	4.21	5.42	5.40
18	4.94	4.93	3.32	3.26	3.50	3.39	4.63	4.60	4.27	4.22	5.40	5.40
19	4.93	4.83	3.26	3.23	3.59	3.50	4.66	4.61	4.34	4.27	5.41	5.40
20	4.83	4.76	3.23	3.19	3.59	3.56	4.73	4.63	4.40	4.34	5.49	5.41
21	4.76	4.69	3.19	3.17	3.63	3.59	4.72	4.67	4.43	4.40	5.70	5.49
22	4.69	4.60	3.17	3.17	3.65	3.63	4.72	4.69	4.50	4.42	5.76	5.67
23	4.60	4.58	3.21	3.17	3.66	3.64	4.75	4.72	4.51	4.49	5.83	5.76
24	4.58	4.55	3.26	3.21	3.72	3.66	4.74	4.74	4.58	4.51	5.93	5.83
25	4.55	4.49	3.35	3.26	3.77	3.72	4.74	4.72	4.67	4.58	6.04	5.93
26	4.49	4.42	3.44	3.35	3.85	3.77	4.76	4.72	4.70	4.67	6.11	6.04
27	4.42	4.35	3.51	3.44	3.92	3.85	4.76	4.70	4.78	4.70	6.17	6.11
28	4.35	4.25	3.53	3.51	3.98	3.92	4.70	4.69	4.85	4.78	6.22	6.17
29	4.25	4.21	3.56	3.53	4.04	3.98	4.72	4.70	---	---	6.36	6.22
30	4.21	4.17	3.56	3.54	4.10	4.04	4.77	4.72	---	---	6.43	6.36
31	4.18	4.12	---	---	4.14	4.10	4.74	4.65	---	---	6.46	6.42
MONTH	4.94	4.12	4.12	3.17	4.14	3.32	4.77	4.14	4.85	4.21	6.46	4.85



GROUND-WATER LEVELS IN DELAWARE

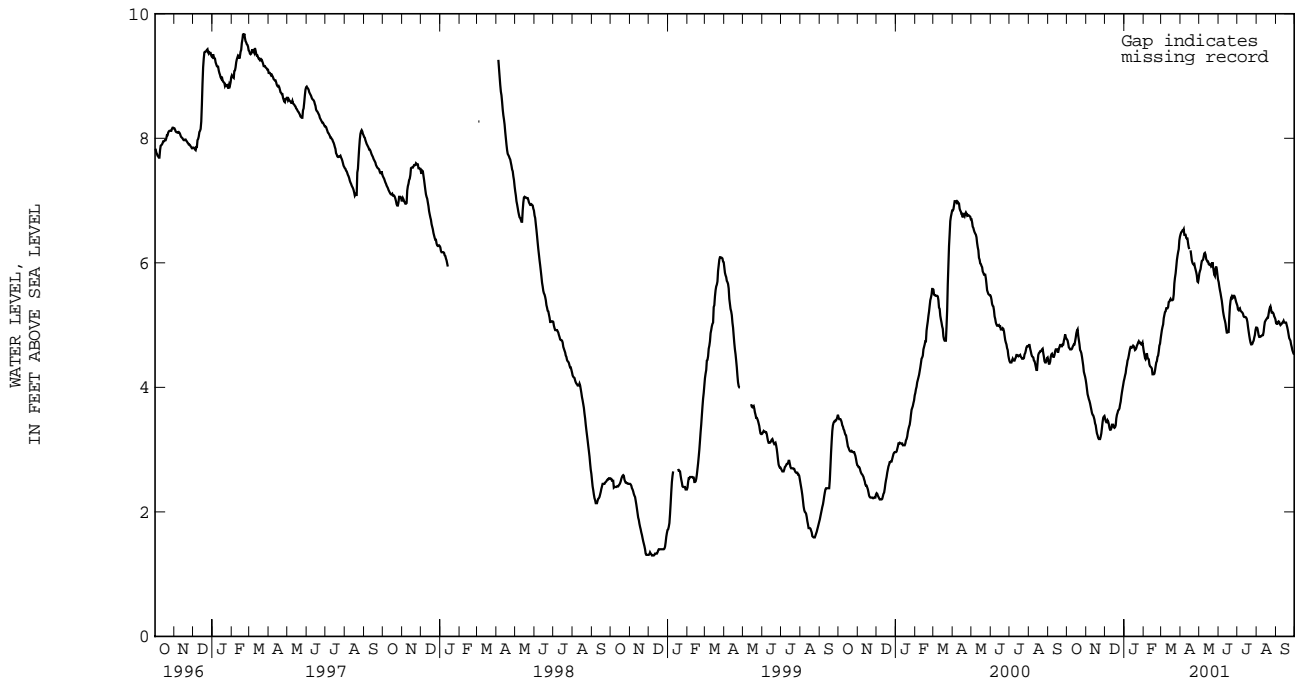
KENT COUNTY--Continued

DM412D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.49	6.46	5.87	5.83	5.73	5.69	5.34	5.31	4.97	4.96	5.09	5.03
2	6.50	6.49	5.90	5.87	5.69	5.62	5.31	5.25	4.96	4.95	5.03	5.02
3	6.53	6.50	5.97	5.90	5.62	5.56	5.26	5.24	4.95	4.90	5.05	5.02
4	6.52	6.52	6.03	5.97	5.56	5.51	5.29	5.26	4.90	4.84	5.07	5.05
5	6.55	6.52	6.04	6.03	5.51	5.45	5.29	5.27	4.84	4.81	5.07	5.06
6	6.58	6.54	6.05	6.04	5.45	5.39	5.28	5.23	4.82	4.81	5.06	5.05
7	6.54	6.45	6.10	6.05	5.39	5.31	5.23	5.22	4.84	4.82	5.05	5.02
8	6.51	6.45	6.15	6.10	5.31	5.22	5.22	5.21	4.84	4.82	5.02	5.00
9	6.54	6.45	6.17	6.15	5.22	5.16	5.22	5.20	4.84	4.83	5.02	5.01
10	6.50	6.40	6.17	6.16	5.16	5.11	5.20	5.18	4.85	4.84	5.06	5.02
11	6.43	6.39	6.16	6.13	5.11	5.07	5.18	5.14	4.89	4.84	5.05	5.04
12	6.41	6.39	6.13	6.06	5.07	5.02	5.14	5.13	4.98	4.89	5.07	5.05
13	6.40	6.31	6.06	6.04	5.02	4.94	5.13	5.13	5.05	4.98	5.10	5.07
14	6.31	6.25	6.04	6.02	4.94	4.88	5.13	5.13	5.07	5.05	5.10	5.04
15	6.25	6.22	6.04	6.02	4.89	4.88	5.13	5.12	5.10	5.07	5.04	5.04
16	---	---	6.02	5.98	4.89	4.89	5.12	5.10	5.10	5.09	5.04	5.04
17	6.24	6.20	5.98	5.97	5.13	4.89	5.10	5.05	5.13	5.10	5.04	5.04
18	6.20	6.12	5.99	5.98	5.30	5.13	5.05	4.97	5.13	5.12	5.04	5.00
19	6.12	6.04	5.99	5.97	5.39	5.30	4.97	4.90	5.18	5.12	5.00	4.96
20	6.04	6.00	5.97	5.94	5.44	5.39	4.90	4.83	5.24	5.18	4.96	4.91
21	6.00	5.98	6.01	5.95	5.47	5.44	4.83	4.77	5.28	5.24	4.91	4.85
22	5.98	5.97	6.03	6.01	5.47	5.46	4.77	4.72	5.30	5.28	4.85	4.79
23	5.99	5.98	6.02	5.94	5.46	5.43	4.72	4.69	5.31	5.30	4.79	4.77
24	5.99	5.93	5.94	5.87	5.47	5.44	4.70	4.69	5.30	5.25	4.77	4.75
25	5.93	5.89	5.87	5.81	5.49	5.47	4.73	4.70	5.25	5.20	4.75	4.69
26	5.89	5.85	5.90	5.79	5.48	5.47	4.75	4.73	5.22	5.20	4.69	4.65
27	5.85	5.80	5.95	5.90	5.47	5.45	4.80	4.75	5.23	5.20	4.65	4.60
28	5.80	5.70	5.94	5.94	5.45	5.41	4.84	4.80	5.20	5.18	4.60	4.57
29	5.75	5.69	5.94	5.90	5.41	5.37	4.92	4.84	5.18	5.14	4.57	4.54
30	5.83	5.75	5.90	5.81	5.37	5.34	4.96	4.92	5.14	5.12	4.54	4.53
31	---	---	5.81	5.73	---	---	4.97	4.96	5.12	5.09	---	---
MONTH	6.58	5.69	6.17	5.73	5.73	4.88	5.34	4.69	5.31	4.81	5.10	4.53
YEAR	6.58	3.17										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN DELAWARE

## KENT COUNTY--Continued

WELL NUMBER.--DM421F. SITE ID.--390655075273701. PERMIT NUMBER.--96951.

LOCATION.--Lat 39°06'55", long 75°27'37", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Frederica aquifer of the Calvert Formation of Lower Miocene age. Aquifer code: 122FRDC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 98.7 ft; protective casing diameter 8 in.

from +2.5 to 57 ft; casing diameter 3 in. from +2.76 to 88.7 ft, screen diameter 3 in. from 88.7 to 98.7 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 30, 1997, to current year.

DATUM.--Elevation of land surface is 23.46 ft above sea level.

Measuring Point: Top of recorder platform 2.76 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors. Missing data due to recorder malfunction

PERIOD OF RECORD.--July 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.20 ft above sea level, April 3, 1998;

lowest measured, 3.78 ft below sea level, Aug. 19, 1997.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.73	3.66	3.37	3.35	3.47	3.45	3.79	3.78	---	---	---	---
2	3.77	3.73	3.38	3.37	3.46	3.41	3.80	3.79	---	---	---	---
3	3.79	3.77	3.43	3.38	3.42	3.40	3.81	3.80	---	---	---	---
4	3.82	3.79	3.45	3.43	3.41	3.40	3.83	3.81	---	---	---	---
5	3.85	3.82	3.45	3.44	3.43	3.41	3.85	3.83	---	---	---	---
6	3.86	3.85	3.44	3.42	3.42	3.42	3.86	3.85	---	---	---	---
7	3.86	3.82	3.43	3.40	3.44	3.42	3.89	3.86	---	---	---	---
8	3.82	3.81	3.41	3.39	3.45	3.43	---	---	---	---	---	---
9	3.82	3.80	3.44	3.40	3.45	3.42	---	---	---	---	---	---
10	3.81	3.80	3.48	3.44	3.46	3.42	---	---	---	---	---	---
11	3.81	3.79	3.45	3.42	3.48	3.46	---	---	---	---	---	---
12	3.80	3.78	3.42	3.40	3.50	3.48	---	---	---	---	---	---
13	3.81	3.79	3.40	3.38	3.50	3.49	---	---	---	---	---	---
14	3.81	3.79	3.40	3.38	3.52	3.50	---	---	---	---	1.79	1.76
15	3.81	3.78	3.38	3.37	3.53	3.50	---	---	---	---	1.78	1.76
16	3.79	3.78	3.38	3.37	3.53	3.53	---	---	---	---	1.79	1.78
17	3.78	3.76	3.40	3.38	3.68	3.53	---	---	---	---	1.79	1.78
18	3.77	3.75	3.38	3.36	3.68	3.67	---	---	---	---	1.78	1.75
19	3.75	3.63	3.37	3.36	3.70	3.68	---	---	---	---	1.75	1.74
20	3.63	3.57	3.39	3.37	3.70	3.68	---	---	---	---	1.76	1.74
21	3.58	3.55	3.38	3.37	3.70	3.69	---	---	---	---	1.94	1.76
22	3.56	3.50	3.37	3.36	3.72	3.70	---	---	---	---	1.94	1.93
23	3.50	3.45	3.36	3.35	3.72	3.70	---	---	---	---	1.93	1.91
24	3.46	3.43	3.35	3.33	3.72	3.71	---	---	---	---	1.93	1.91
25	3.45	3.43	3.39	3.33	3.72	3.71	---	---	---	---	1.92	1.92
26	3.45	3.44	3.52	3.39	3.72	3.71	---	---	---	---	1.94	1.92
27	3.45	3.43	3.52	3.52	3.74	3.72	---	---	---	---	1.93	1.92
28	3.45	3.36	3.52	3.49	3.75	3.73	---	---	---	---	1.95	1.93
29	3.36	3.34	3.49	3.46	3.76	3.74	---	---	---	---	2.06	1.95
30	3.35	3.34	3.50	3.47	3.78	3.76	---	---	---	---	2.12	2.06
31	3.36	3.34	---	---	3.78	3.78	---	---	---	---	2.12	2.11
MONTH	3.86	3.34	3.52	3.33	3.78	3.40	3.89	3.78	---	---	2.12	1.74

GROUND-WATER LEVELS IN DELAWARE

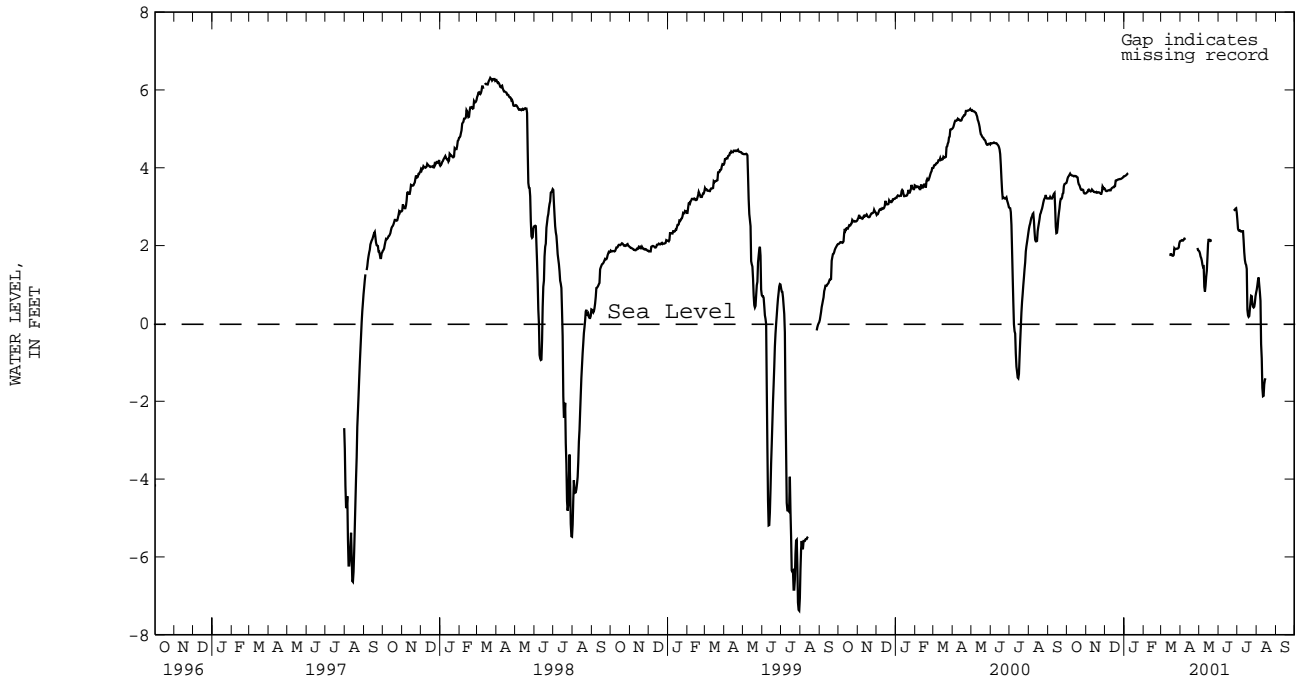
KENT COUNTY--Continued

DM421F--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.13	2.12	1.88	1.85	---	---	2.84	2.65	.98	.87	---	---
2	2.14	2.13	1.86	1.80	---	---	2.65	2.43	1.11	.98	---	---
3	2.16	2.14	1.80	1.72	---	---	2.43	2.39	1.18	1.11	---	---
4	2.16	2.13	1.72	1.68	---	---	2.41	2.38	1.21	1.18	---	---
5	2.15	2.13	1.68	1.61	---	---	2.41	2.39	1.20	.99	---	---
6	2.18	2.15	1.61	1.51	---	---	2.41	2.37	.99	.80	---	---
7	2.19	2.18	1.51	1.45	---	---	2.39	2.36	.81	.58	---	---
8	2.20	2.18	1.59	1.46	---	---	2.39	2.37	.58	-.53	---	---
9	2.22	2.19	1.51	.94	---	---	2.41	2.37	-.53	-.90	---	---
10	---	---	.97	.82	---	---	2.39	2.37	-.90	-1.66	---	---
11	---	---	1.20	.97	---	---	2.37	2.12	-1.66	-1.87	---	---
12	---	---	1.35	1.20	---	---	2.12	1.83	-1.57	-1.86	---	---
13	---	---	1.68	1.35	---	---	1.83	1.63	-1.44	-1.57	---	---
14	---	---	2.05	1.68	---	---	1.63	1.54	-1.41	-1.45	---	---
15	---	---	2.49	2.05	---	---	1.54	1.50	-1.38	-1.41	---	---
16	---	---	2.53	2.17	---	---	1.51	1.40	---	---	---	---
17	---	---	2.17	2.13	---	---	1.40	.35	---	---	---	---
18	---	---	2.15	2.14	---	---	.35	.21	---	---	---	---
19	---	---	2.15	2.12	---	---	.21	.17	---	---	---	---
20	---	---	2.13	2.13	---	---	.37	.19	---	---	---	---
21	---	---	2.14	2.13	---	---	.55	.37	---	---	---	---
22	---	---	---	---	---	---	.71	.55	---	---	---	---
23	---	---	---	---	---	---	.75	.71	---	---	---	---
24	---	---	---	---	---	---	.76	.70	---	---	---	---
25	---	---	---	---	2.93	2.90	.70	.51	---	---	---	---
26	---	---	---	---	2.93	2.91	.51	.43	---	---	---	---
27	---	---	---	---	2.95	2.92	.44	.41	---	---	---	---
28	2.00	1.94	---	---	2.97	2.95	.53	.43	---	---	---	---
29	1.94	1.88	---	---	2.97	2.96	.70	.53	---	---	---	---
30	1.90	1.87	---	---	2.97	2.84	.79	.70	---	---	---	---
31	---	---	---	---	---	---	.87	.79	---	---	---	---
MONTH	2.22	1.87	2.53	.82	2.97	2.84	2.84	.17	1.21	-1.87	---	---
YEAR	3.89	-1.87										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

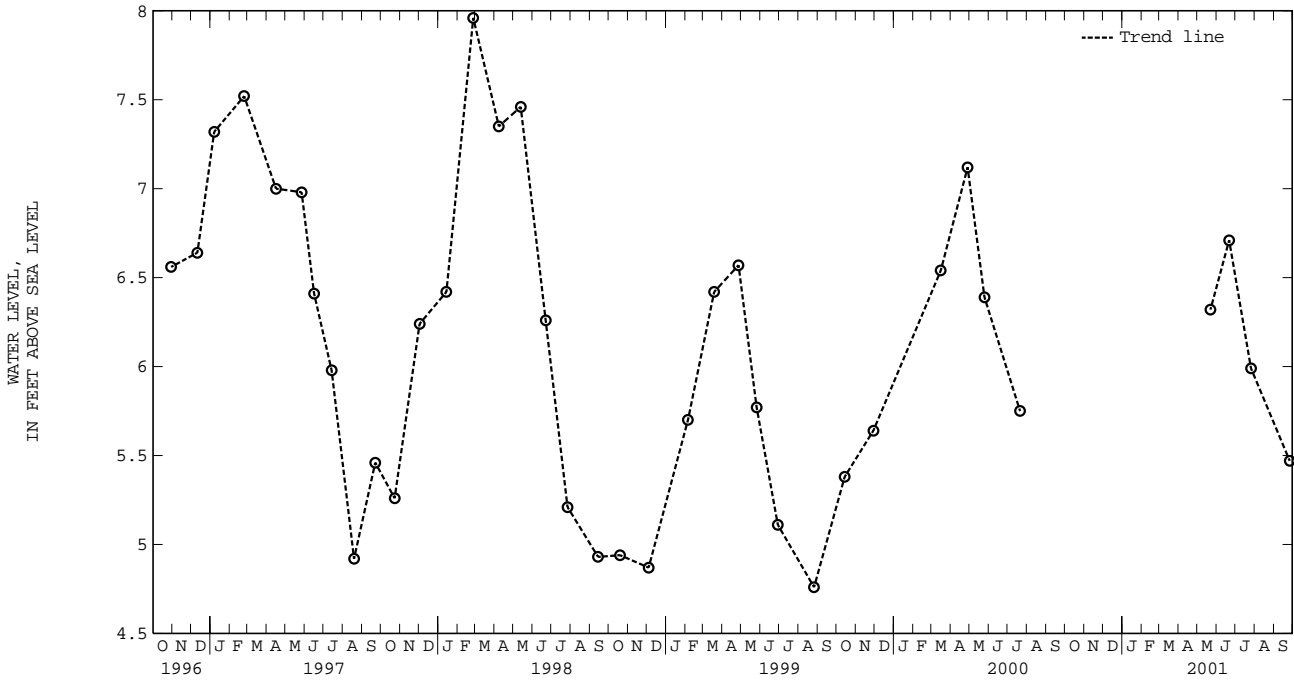
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--GS4D. SITE ID.--390742075300102. PERMIT NUMBER.--104544.  
 LOCATION.--Lat 39°07'42", long 75°30'01", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 21.2 ft; casing diameter 2 in., to 18.2 ft; screen diameter 2 in. from 18.2 to 21.2 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1, 1995, to March 16, 2000.  
 DATUM.--Elevation of land surface is 4.50 ft above sea level.  
 Measuring Point: Top of recorder platform 7.55 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well.  
 PERIOD OF RECORD.--September 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft above sea level, March 8, 9, and 21, 1998; lowest measured, 4.35 ft above sea level, Aug. 13, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 22, 2001	6.32	JUN 21, 2001	6.71	JUL 26, 2001	5.99	SEP 26, 2001	5.47
WATER YEAR 2001 HIGHEST		6.71 JUN 21, 2001	LOWEST		5.47	SEP 26, 2001	



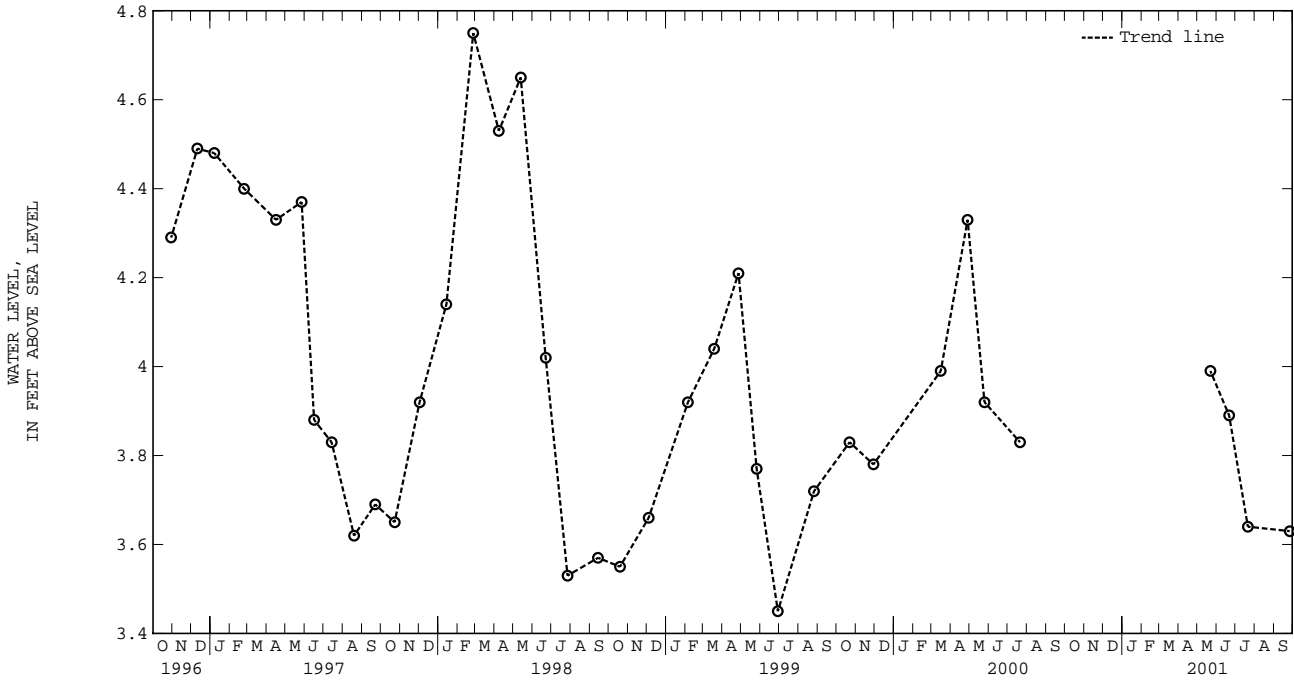
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--GS4S. SITE ID.--390742075300101. PERMIT NUMBER.--104542.  
 LOCATION.--Lat 39°07'42", long 75°30'01", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 5.8 ft; casing diameter 2 in., to 5.3 ft; screen diameter 2 in. from 5.3 to 5.8 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1, 1995, to Feb. 9, 2000.  
 DATUM.--Elevation of land surface is 3.27 ft above sea level.  
 Measuring Point: Top of casing 7.20 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--September 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.87 ft above sea level, Sept. 16, 1999;  
 lowest measured, 3.16 ft above sea level, Aug. 6, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 22, 2001	3.99	JUN 21, 2001	3.89	JUL 21, 2001	3.64	SEP 26, 2001	3.63
WATER YEAR 2001 HIGHEST 3.99		MAY 22, 2001		LOWEST 3.63		SEP 26, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

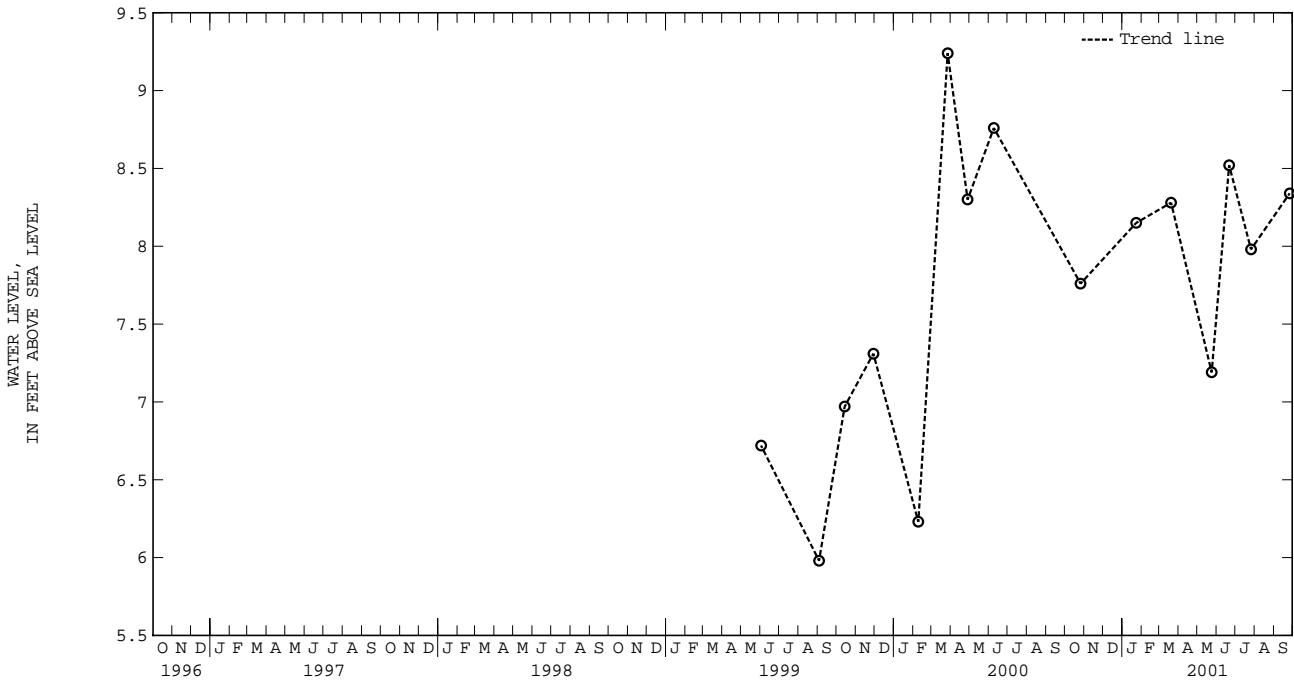
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--MW29D. SITE ID.--390654075282202. PERMIT NUMBER.--73705.  
 LOCATION.--Lat 39°06'54", long 75°28'22", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55.4 ft; casing diameter 2 in., to 50.4 ft; screen diameter 2 in. from 50.4 to 55.4 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 17.60 ft above sea level.  
 Measuring Point: Top of PVC casing, 2.60 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.  
 PERIOD OF RECORD.--June 1999 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.24 ft above sea level, March 27, 2000;  
 lowest measured, 5.98 ft above sea level, Sept. 3, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	7.76	MAR 20, 2001	8.28	JUN 21, 2001	8.52	SEP 26, 2001	8.34
JAN 23, 2001	8.15	MAY 24	7.19	JUL 26	7.98		
WATER YEAR 2001 HIGHEST 8.52		JUN 21, 2001		LOWEST 7.19		MAY 24, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--MW33D. SITE ID.--390647075283301. PERMIT NUMBER.--73713.  
 LOCATION.--Lat 39°06'47", long 75°28'33", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.  
 Owner: U.S. Air Force.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55.1 ft; casing diameter 2 in., to 50.1 ft; screen diameter 2 in. from 50.1 to 55.1 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with pressure transducer water-level recorder--60-minute recorder interval from June 19, 1996, to current year.  
 DATUM.--Elevation of land surface is 8.92 ft above sea level.  
 Measuring Point: Top of PVC casing 1.77 ft above land surface.  
 REMARKS.--Dover Air Force Base Project observation well. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--June 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft above sea level, March 8, 9, and 21, 1998; lowest measured, 1.60 ft above sea level, May 25, 1997.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.85	5.79	4.93	4.86	4.97	4.93	4.85	4.81	---	---	---	---
2	5.81	5.74	4.94	4.87	4.97	4.94	4.82	4.77	---	---	---	---
3	5.75	5.66	4.97	4.91	4.99	4.95	4.81	4.77	---	---	---	---
4	5.69	5.62	4.94	4.91	4.99	4.97	4.80	4.74	---	---	---	---
5	5.64	5.61	4.91	4.84	4.99	4.91	4.82	4.74	---	---	---	---
6	5.63	5.53	4.86	4.83	4.99	4.91	4.74	4.67	---	---	---	---
7	5.54	5.46	4.86	4.82	5.00	4.94	4.69	4.66	---	---	---	---
8	5.46	5.40	4.84	4.80	4.99	4.93	4.72	4.66	---	---	---	---
9	5.41	5.36	5.02	4.83	4.94	4.90	4.69	4.63	---	---	---	---
10	5.37	5.29	5.06	4.97	4.98	4.92	4.65	4.59	---	---	---	---
11	5.30	5.23	4.98	4.90	5.00	4.90	4.67	4.62	---	---	---	---
12	5.23	5.19	4.98	4.90	5.02	4.78	4.64	4.60	---	---	---	---
13	5.19	5.15	4.97	4.90	4.93	4.78	4.65	4.59	---	---	---	---
14	5.17	5.13	5.02	4.95	5.01	4.92	4.65	4.61	---	---	---	---
15	5.14	5.08	4.97	4.92	4.97	4.91	4.68	4.65	---	---	---	---
16	5.09	5.03	5.00	4.93	5.11	4.96	4.67	4.61	---	---	---	---
17	5.08	5.01	5.01	4.91	5.63	5.11	4.65	4.61	---	---	---	---
18	5.09	5.03	4.99	4.92	5.41	5.35	4.68	4.63	---	---	---	---
19	5.04	5.00	4.97	4.91	5.41	5.35	4.93	4.68	---	---	---	---
20	5.05	4.99	4.98	4.92	5.37	5.24	5.24	4.93	---	---	---	---
21	5.06	5.00	4.94	4.89	5.31	5.25	5.23	5.14	---	---	---	---
22	5.00	4.95	4.92	4.86	5.33	5.20	5.15	5.11	---	---	---	---
23	4.98	4.94	4.86	4.83	5.23	5.19	---	---	---	---	---	---
24	5.00	4.96	4.85	4.81	5.26	5.16	---	---	---	---	---	---
25	4.98	4.93	4.88	4.80	5.16	5.09	---	---	---	---	---	---
26	4.96	4.91	5.16	4.88	5.15	5.09	---	---	---	---	---	---
27	5.02	4.96	5.04	4.95	5.11	5.07	---	---	---	---	---	---
28	5.03	4.91	4.96	4.91	5.07	5.00	---	---	---	---	---	---
29	5.00	4.91	5.00	4.90	5.01	4.96	---	---	---	---	---	---
30	4.96	4.88	5.01	4.92	5.01	4.92	---	---	---	---	---	---
31	4.91	4.86	---	---	4.92	4.83	---	---	---	---	---	---
MONTH	5.85	4.86	5.16	4.80	5.63	4.78	5.24	4.59	---	---	---	---

GROUND-WATER LEVELS IN DELAWARE

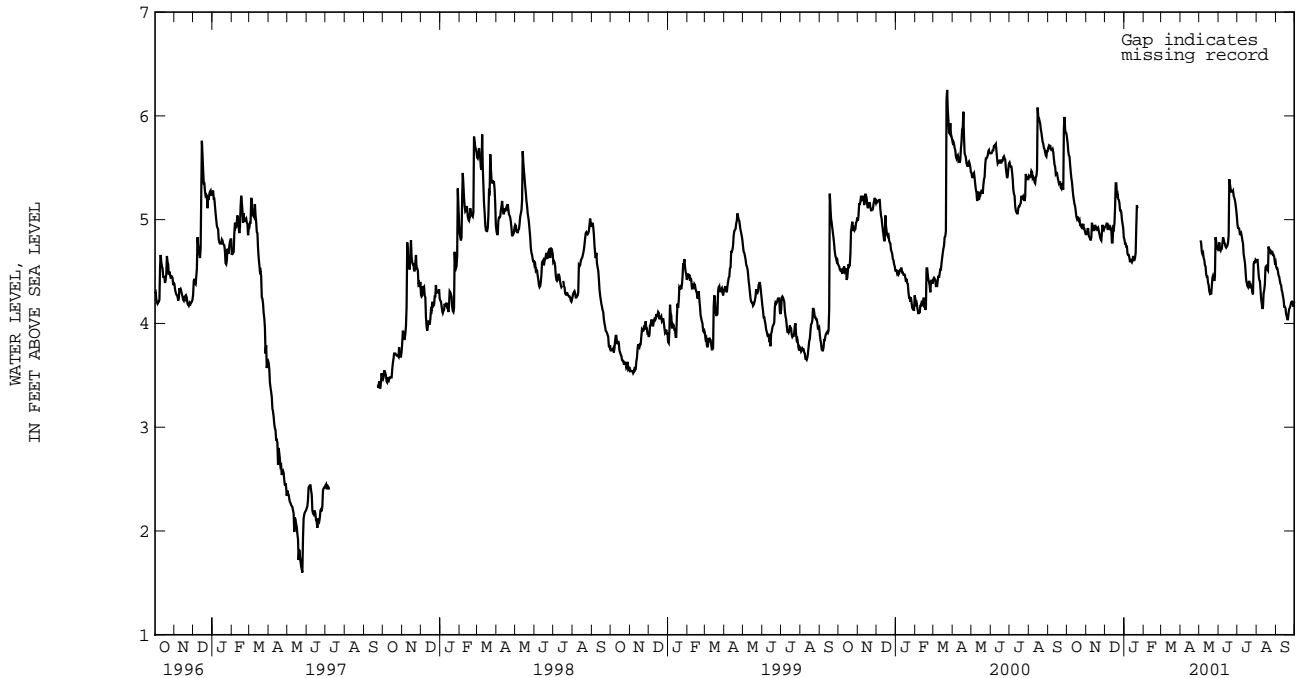
KENT COUNTY--Continued

MW33D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	4.82	4.72	5.05	4.96	4.64	4.60	4.64	4.55
2	---	---	---	---	4.83	4.78	4.99	4.92	4.64	4.62	4.57	4.53
3	---	---	4.82	4.80	4.83	4.71	4.96	4.92	4.64	4.56	4.57	4.53
4	---	---	4.80	4.77	4.74	4.70	4.95	4.91	4.57	4.47	4.56	4.50
5	---	---	4.78	4.69	4.76	4.72	4.94	4.86	4.49	4.42	4.56	4.46
6	---	---	4.73	4.67	4.77	4.72	4.94	4.86	4.46	4.41	4.49	4.45
7	---	---	4.73	4.68	4.87	4.77	4.90	4.87	4.42	4.33	4.47	4.41
8	---	---	4.71	4.63	4.88	4.83	4.92	4.84	4.33	4.24	4.42	4.38
9	---	---	4.67	4.61	4.86	4.81	4.88	4.80	4.25	4.19	4.40	4.37
10	---	---	4.62	4.56	4.84	4.78	4.83	4.77	4.20	4.14	4.37	4.32
11	---	---	4.59	4.55	4.81	4.77	4.78	4.67	4.29	4.16	4.33	4.30
12	---	---	4.57	4.47	4.79	4.74	4.68	4.63	4.33	4.29	4.30	4.26
13	---	---	4.48	4.45	4.77	4.73	4.64	4.59	4.39	4.32	4.26	4.23
14	---	---	4.49	4.45	4.76	4.74	4.60	4.51	4.56	4.38	4.24	4.16
15	---	---	4.46	4.39	4.79	4.75	4.51	4.42	4.57	4.54	4.22	4.16
16	---	---	4.40	4.37	4.85	4.78	4.42	4.39	4.58	4.55	4.22	4.15
17	---	---	4.37	4.31	5.66	4.85	4.40	4.36	4.58	4.53	4.20	4.09
18	---	---	4.32	4.29	5.49	5.39	4.41	4.35	4.56	4.52	4.12	4.07
19	---	---	4.33	4.30	5.40	5.35	4.47	4.39	4.81	4.51	4.10	4.04
20	---	---	4.36	4.28	5.36	5.30	4.47	4.41	4.81	4.74	4.11	4.04
21	---	---	4.49	4.36	5.33	5.27	4.47	4.37	4.78	4.70	4.16	4.10
22	---	---	4.51	4.44	5.32	5.27	4.42	4.34	4.72	4.69	4.18	4.14
23	---	---	4.52	4.46	5.40	5.27	4.39	4.36	4.72	4.70	4.18	4.15
24	---	---	4.50	4.44	5.40	5.28	4.40	4.34	4.72	4.68	4.23	4.17
25	---	---	4.48	4.41	5.31	5.23	4.36	4.30	4.73	4.69	4.23	4.20
26	---	---	4.89	4.45	5.25	5.21	4.57	4.28	4.71	4.69	4.24	4.21
27	---	---	4.93	4.83	5.22	5.19	4.62	4.57	4.69	4.66	4.24	4.21
28	---	---	4.89	4.79	5.20	5.15	4.61	4.60	4.70	4.66	4.22	4.19
29	---	---	4.81	4.75	5.15	5.10	4.64	4.58	4.67	4.64	4.23	4.16
30	---	---	4.76	4.72	5.11	5.04	4.64	4.61	4.65	4.59	4.31	4.21
31	---	---	4.74	4.71	---	---	4.63	4.60	4.63	4.60	---	---
MONTH	---	---	4.93	4.28	5.66	4.70	5.05	4.28	4.81	4.14	4.64	4.04
YEAR	5.85	4.04										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## GROUND-WATER LEVELS IN DELAWARE

95

## KENT COUNTY--Continued

WELL NUMBER.--MW48D. SITE ID.--390703075272601. PERMIT NUMBER.--73749.

LOCATION.--Lat 39°07'03", long 75°27'26", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 78.4 ft; casing diameter 2 in., to 73.4 ft; screen diameter 2 in. from 73.4 to 78.4 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from September 1995 to current year.

DATUM.--Elevation of land surface is 27.54 ft above sea level.

Measuring Point: Top of PVC casing, 1.57 ft above land surface.

REMARKS.--Dover Air Force Base Project. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.61 ft above sea level, March 23, 1998; lowest measured, 7.26 ft above sea level, Jan. 13, 14, 1999.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.72	10.65	10.29	10.24	9.61	9.59	9.75	9.71	10.46	10.41	12.21	12.13
2	10.76	10.72	10.25	10.23	9.59	9.56	9.76	9.73	10.62	10.46	12.25	12.19
3	10.75	10.71	10.23	10.21	9.59	9.55	9.83	9.74	10.50	10.46	12.19	12.12
4	10.78	10.71	10.23	10.22	9.59	9.57	9.85	9.81	10.61	10.48	12.31	12.12
5	10.79	10.72	10.22	10.15	9.65	9.55	9.97	9.82	10.80	10.61	12.35	12.30
6	10.80	10.70	10.15	10.12	9.59	9.53	9.89	9.79	10.76	10.67	12.45	12.30
7	10.71	10.68	10.13	10.10	9.61	9.53	9.81	9.79	10.80	10.72	12.31	12.27
8	10.70	10.68	10.11	10.09	9.55	9.48	9.91	9.80	10.97	10.77	12.41	12.27
9	10.74	10.69	10.18	10.10	9.48	9.46	9.87	9.82	11.20	10.97	12.49	12.41
10	10.73	10.70	10.21	10.06	9.52	9.46	9.84	9.75	11.22	10.98	12.45	12.42
11	10.70	10.65	10.06	9.99	9.58	9.48	9.85	9.79	11.04	10.96	12.53	12.40
12	10.66	10.63	9.99	9.99	9.63	9.36	9.80	9.76	11.21	11.03	12.70	12.37
13	10.67	10.63	10.00	9.97	9.50	9.36	9.76	9.73	11.25	11.21	12.78	12.66
14	10.67	10.65	10.04	9.97	9.58	9.39	9.81	9.76	11.43	11.23	12.66	12.55
15	10.67	10.63	9.97	9.90	9.40	9.36	9.83	9.81	11.45	11.25	12.72	12.55
16	10.63	10.57	9.98	9.90	9.52	9.40	9.83	9.75	11.45	11.26	12.75	12.67
17	10.57	10.55	9.98	9.84	9.70	9.40	9.76	9.73	11.46	11.30	12.77	12.73
18	10.61	10.57	9.88	9.83	9.49	9.38	9.79	9.73	11.47	11.31	12.77	12.69
19	10.57	10.49	9.87	9.82	9.64	9.49	9.89	9.79	11.64	11.47	12.76	12.69
20	10.49	10.46	9.90	9.82	9.63	9.48	9.94	9.80	11.76	11.64	12.89	12.73
21	10.50	10.46	9.83	9.78	9.63	9.50	9.93	9.77	11.76	11.60	13.41	12.89
22	10.46	10.37	9.81	9.77	9.68	9.54	9.99	9.82	11.89	11.61	13.61	13.41
23	10.38	10.36	9.77	9.72	9.63	9.54	10.14	9.99	11.89	11.71	13.74	13.59
24	10.43	10.38	9.72	9.70	9.74	9.63	10.17	10.14	11.82	11.67	13.86	13.65
25	10.42	10.38	9.79	9.69	9.67	9.63	10.20	10.16	12.10	11.82	13.81	13.67
26	10.38	10.35	9.86	9.76	9.77	9.64	10.37	10.16	12.06	11.88	13.84	13.73
27	10.41	10.37	9.76	9.68	9.81	9.75	10.38	10.26	12.07	11.92	13.78	13.71
28	10.41	10.27	9.68	9.65	9.80	9.76	10.34	10.26	12.13	12.06	13.82	13.73
29	10.37	10.27	9.71	9.64	9.82	9.77	10.44	10.33	---	---	14.08	13.78
30	10.32	10.27	9.71	9.60	9.88	9.81	10.64	10.44	---	---	14.34	14.08
31	10.29	10.26	---	---	9.81	9.72	10.53	10.42	---	---	14.47	14.26
MONTH	10.80	10.26	10.29	9.60	9.88	9.36	10.64	9.71	12.13	10.41	14.47	12.12

GROUND-WATER LEVELS IN DELAWARE

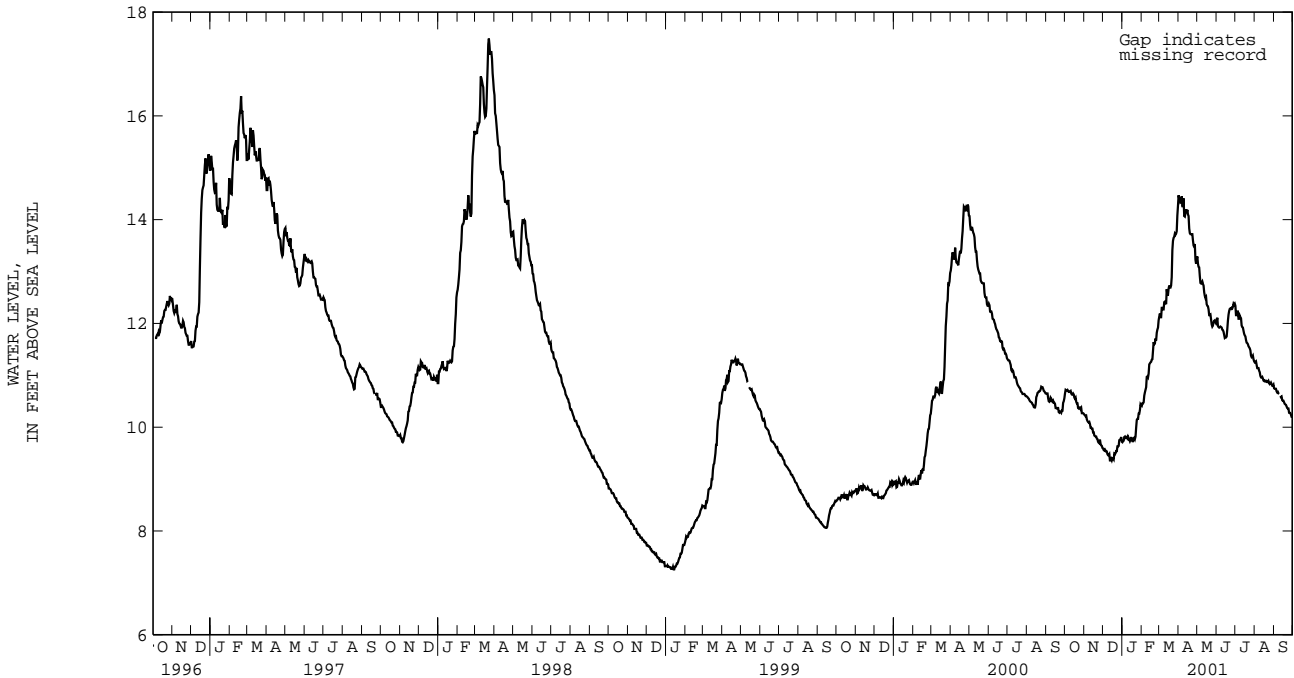
KENT COUNTY--Continued

MW48D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.60	14.47	13.34	13.29	12.17	12.03	12.41	12.34	11.27	11.25	10.86	10.75
2	14.51	14.40	13.29	13.15	12.17	12.11	12.34	12.16	11.28	11.26	10.75	10.74
3	14.51	14.40	13.15	13.09	12.11	11.95	12.25	12.16	11.30	11.27	10.77	10.74
4	14.43	14.33	13.13	13.08	11.95	11.93	12.31	12.23	11.28	11.20	10.78	10.74
5	14.46	14.34	13.11	12.91	11.94	11.92	12.29	12.23	11.20	11.14	10.74	10.69
6	14.66	14.45	12.91	12.78	11.95	11.93	12.23	12.09	11.16	11.14	10.70	10.67
7	14.58	14.26	12.80	12.77	11.95	11.94	12.15	12.09	11.15	11.14	10.70	10.68
8	14.46	14.26	12.86	12.79	11.95	11.93	12.20	12.15	11.14	11.09	10.68	10.65
9	14.55	14.41	12.85	12.81	11.94	11.92	12.18	12.12	11.09	11.06	10.66	10.64
10	14.42	14.07	12.82	12.76	11.92	11.88	12.12	12.10	11.06	10.99	---	---
11	14.13	14.06	12.76	12.73	11.92	11.87	12.10	11.96	11.00	10.96	10.63	10.60
12	14.35	14.13	12.74	12.60	11.90	11.84	11.96	11.93	10.98	10.96	10.60	10.58
13	14.35	14.20	12.60	12.53	11.84	11.78	11.93	11.92	10.99	10.97	10.61	10.59
14	14.21	14.13	12.54	12.49	11.78	11.72	11.92	11.86	10.99	10.94	10.60	10.52
15	14.35	14.19	12.60	12.51	11.76	11.73	11.86	11.80	10.94	10.90	10.53	10.51
16	14.34	14.10	12.52	12.37	11.76	11.73	11.80	11.77	10.92	10.89	10.53	10.51
17	14.14	14.07	12.37	12.34	11.89	11.75	11.77	11.75	10.93	10.90	10.51	10.48
18	14.15	13.83	12.37	12.33	12.05	11.89	11.75	11.68	10.91	10.88	10.49	10.45
19	13.83	13.74	12.36	12.27	12.17	12.05	11.68	11.63	10.93	10.88	10.45	10.44
20	13.81	13.72	12.27	12.16	12.26	12.17	11.63	11.62	10.90	10.89	10.45	10.43
21	13.79	13.72	12.22	12.16	12.29	12.24	11.62	11.60	10.89	10.87	10.43	10.40
22	13.77	13.72	12.26	12.17	12.34	12.28	11.60	11.56	10.90	10.87	10.41	10.37
23	13.81	13.72	12.18	12.08	12.34	12.29	11.56	11.54	10.94	10.89	10.37	10.36
24	13.84	13.60	12.08	11.98	12.31	12.28	11.54	11.52	10.93	10.85	10.41	10.36
25	13.61	13.50	11.99	11.94	12.33	12.30	11.52	11.48	10.85	10.83	10.41	10.28
26	13.53	13.48	12.02	11.96	12.33	12.29	11.48	11.38	10.89	10.84	10.31	10.28
27	13.60	13.53	12.10	12.02	12.39	12.32	11.38	11.35	10.90	10.86	10.30	10.27
28	13.54	13.23	12.09	12.05	12.41	12.38	11.39	11.36	10.86	10.83	10.27	10.24
29	13.23	13.15	12.09	12.06	12.39	12.36	11.41	11.38	10.83	10.80	10.24	10.20
30	13.35	13.23	12.07	12.02	12.40	12.38	11.39	11.31	10.84	10.80	10.23	10.20
31	---	---	12.05	12.00	---	---	11.32	11.27	10.87	10.82	---	---
MONTH	14.66	13.15	13.34	11.94	12.41	11.72	12.41	11.27	11.30	10.80	10.86	10.20
YEAR	14.66	9.36										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY

WELL NUMBER.--Db15-05. SITE ID.--393917075401601.

LOCATION.--Lat 39°39'17", long 75°40'16", Hydrologic Unit 02040205, Smalley's Dam, at the Wilmington Suburban Water Co. plant.

Owner: Wilmington Suburban Water Co.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 306 ft; casing diameter 12 in., to 215.5 ft, and 238.5 to 273.5 ft, screen diameter 12 in., from 215.5 to 238.5 ft and 273.5 to 306 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.

Equipped with graphic water-level recorder from March 1979 to November 1981.

DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.

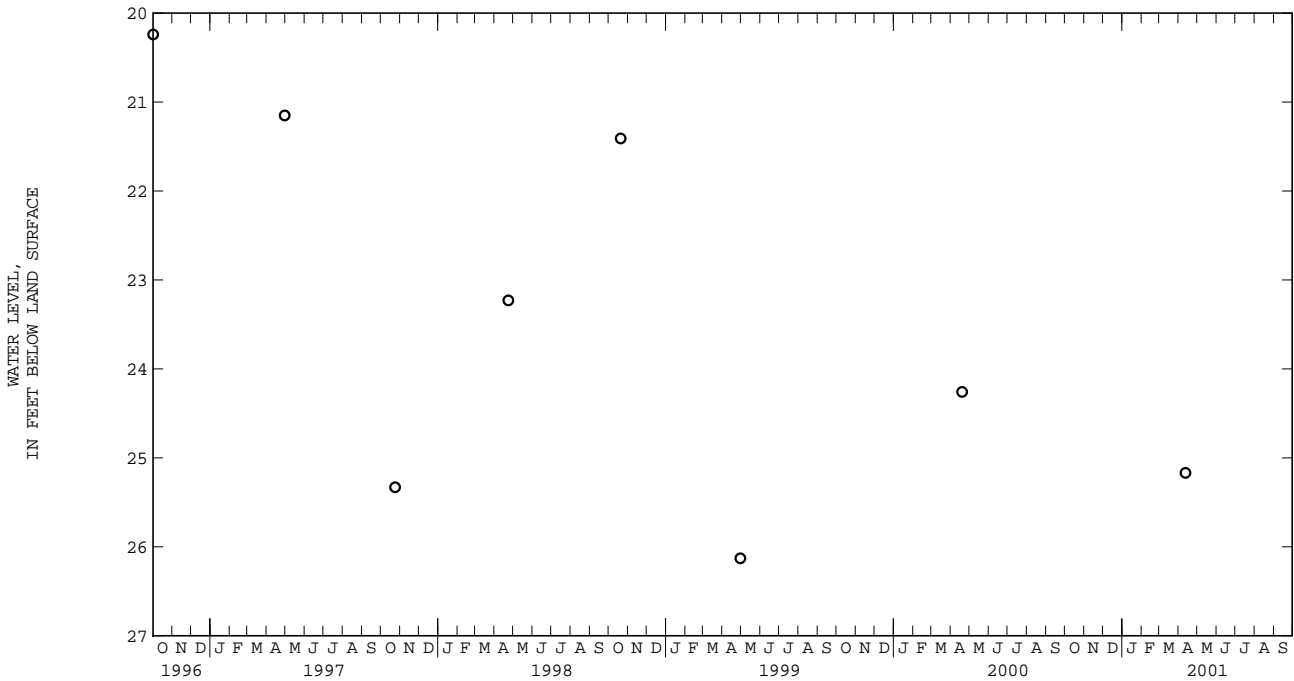
Measuring Point: Top of 12 in. casing, 2.27 ft above land surface.

PERIOD OF RECORD.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.24 ft below land surface, Oct. 1, 1996;  
lowest measured, 39.31 ft below land surface, Sept. 30, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
APR 12, 2001	25.17



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE--Continued

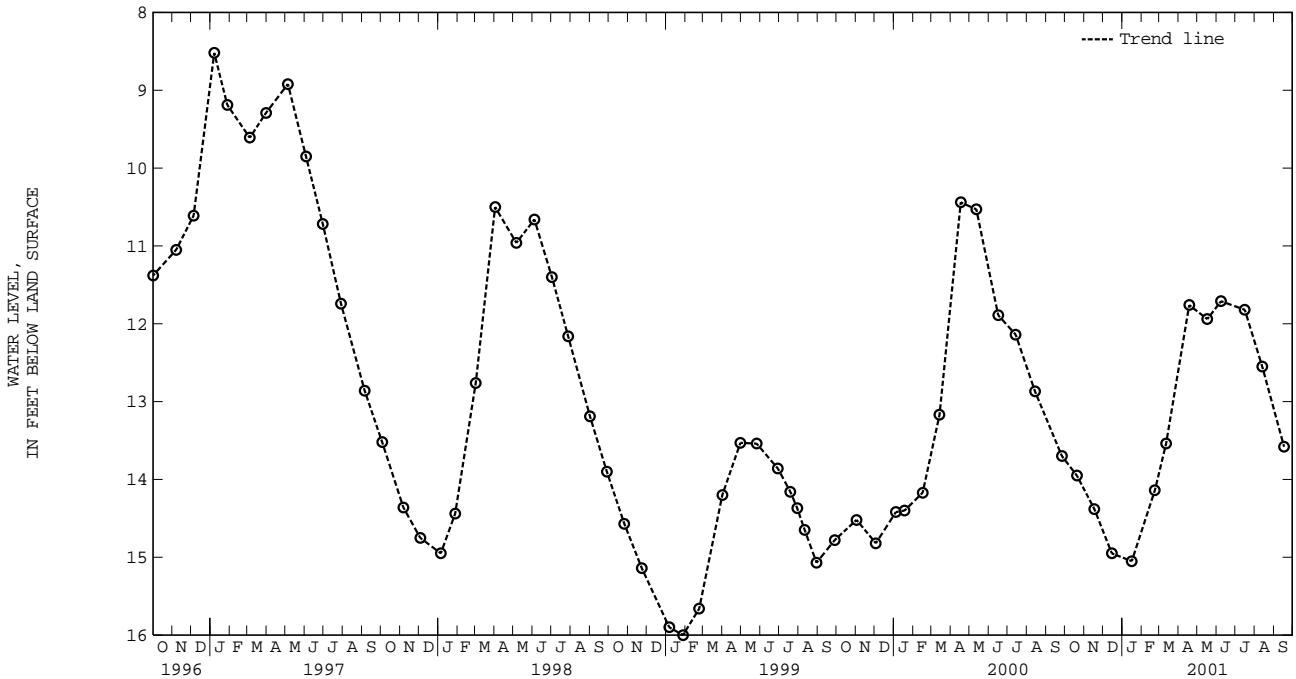
NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db24-17. SITE ID.--393856075415602. PERMIT NUMBER.--65430.  
 LOCATION.--Lat 39°38'55", long 75°41'54", Hydrologic Unit 02040205, 2 mi south of Ogetown.  
 Owner: Delaware Department of Transportation.  
 AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 22 ft; casing diameter 2 in., to 17 ft; screen diameter 2 in., from 17 to 22 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.  
 DATUM.--Elevation of land surface is 77 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 0.55 ft above land surface.  
 REMARKS.--Water-level measurements furnished by Delaware Geological Survey.  
 PERIOD OF RECORD.--June 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.42 ft below land surface, April 29, 1993;  
 lowest measured, 16.00 ft below land surface, Jan. 28, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 2000	13.95	JAN 16, 2001	15.05	APR 18, 2001	11.76	JUL 16, 2001	11.82
NOV 17	14.38	FEB 22	14.14	MAY 17	11.94	AUG 13	12.55
DEC 15	14.95	MAR 12	13.54	JUN 08	11.71	SEP 17	13.58

WATER YEAR 2001    HIGHEST    11.71    JUN 08, 2001    LOWEST    15.05    JAN 16, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db33-17. SITE ID.--393734075371103. PERMIT NUMBER--44612.

LOCATION.--Lat 39°37'34", long 75°37'11", Hydrologic Unit 02040205, off Salem Church Road, near Beck's Pond.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 189 ft; casing diameter 2 in., to 185 ft; screen diameter 2 in., from 185 to 189 ft. Installed in a 8 in. borehole with Db33-18, and Db33-19.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.

DATUM.--Elevation of land surface is 48 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 3.26 ft above land surface.

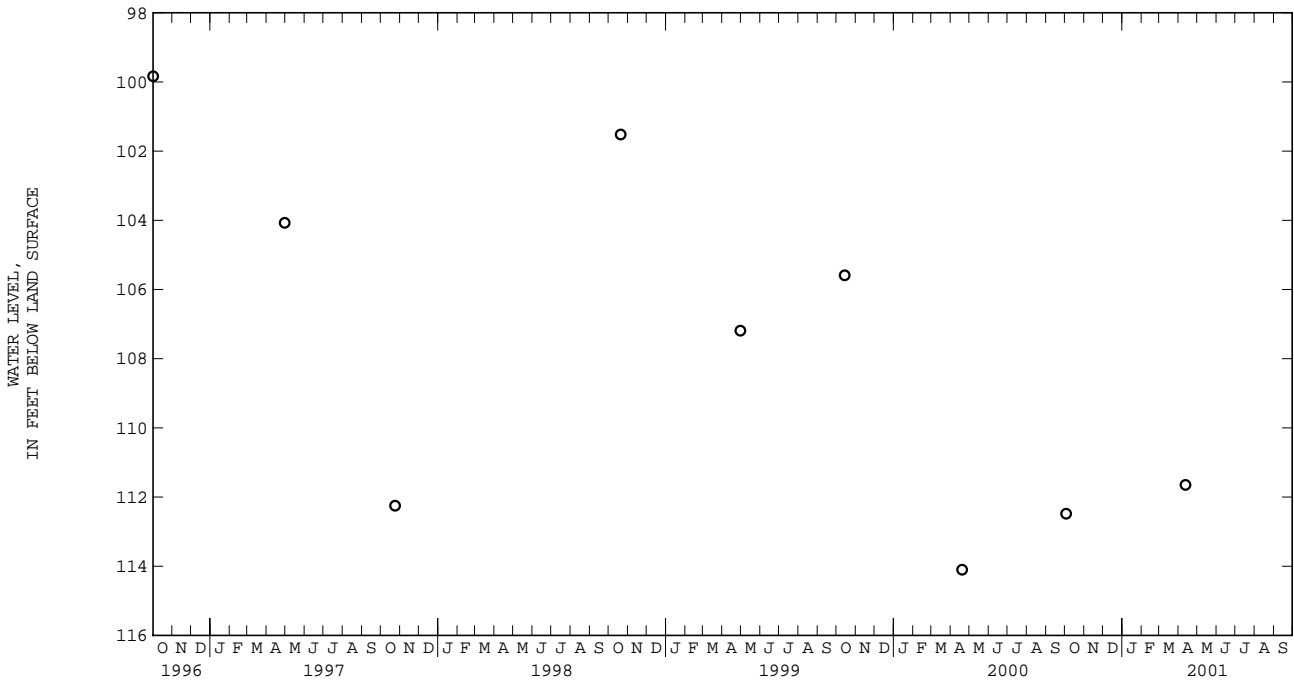
REMARKS.--Delaware Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 90.30 ft below land surface, Oct. 12, 1995; lowest measured, 115.82 ft below land surface, Oct. 15, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	112.48	APR 12, 2001	111.65
WATER YEAR 2001 HIGHEST 111.65 APR 12, 2001		LOWEST 112.48 OCT 03, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db33-18. SITE ID.--393734075371102. PERMIT NUMBER--44612.

LOCATION.--Lat 39°37'34", long 75°37'11", Hydrologic Unit 02040205, off Salem Church Road, near Beck's Pond.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 143 ft; casing diameter 2 in., to 139 ft; screen diameter 2 in., from 139 to 143 ft. Installed in a 8 in. borehole with Db33-17, and Db33-19.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.

DATUM.--Elevation of land surface is 48 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 3.24 ft above land surface.

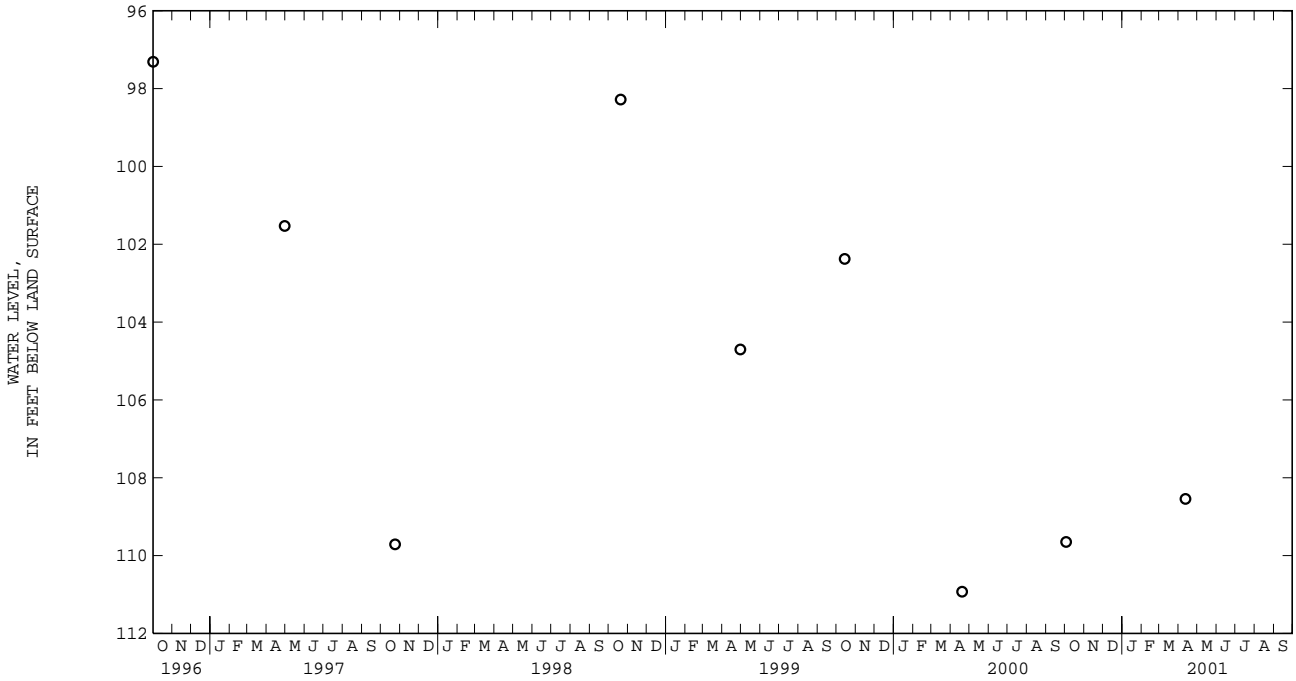
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.31 ft below land surface, Oct. 12, 1995; lowest measured, 113.44 ft below land surface, Oct. 15, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	109.65	APR 12, 2001	108.54
WATER YEAR 2001 HIGHEST 108.54 APR 12, 2001		LOWEST 109.65 OCT 03, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db33-19. SITE ID.--393734075371101. PERMIT NUMBER--44612.

LOCATION.--Lat 39°37'34", long 75°37'11", Hydrologic Unit 02040205, off Salem Church Road, near Beck's Pond.

Owner: U.S. Geological Survey.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 39 ft; casing diameter 2 in; to 35 ft; screen diameter 2 in., from 35 to 39 ft. Installed in a 8 in. borehole with Db33-17, and Db33-18.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.

DATUM.--Elevation of land surface is 48 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 3.29 ft above land surface.

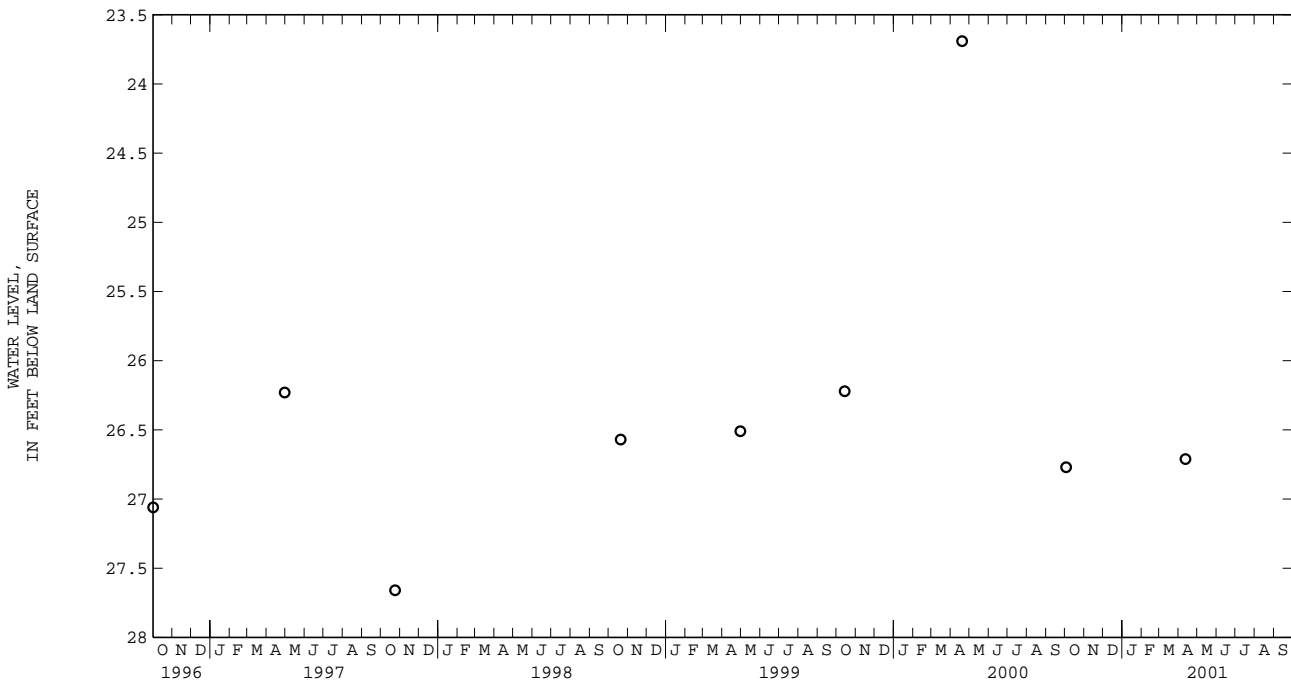
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.69 ft below land surface, April 19, 2000; lowest measured 28.23 ft below land surface, April 3, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	26.77	APR 12, 2001	26.71
WATER YEAR 2001 HIGHEST 26.71 APR 12, 2001		LOWEST 26.77 OCT 03, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Dc34-05. SITE ID.--393755075364801.

LOCATION.--Lat 39°37'55", long 75°36'48", Hydrologic Unit 02040205, east side of Rt. 9, at National Guard Rifle Range.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 579 ft; casing diameter 2 in., to 574 ft; screen diameter 2 in., from 574 to 579 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from November 1975 to November 1981.

DATUM.--Elevation of land surface is 28 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 2.10 ft above land surface.

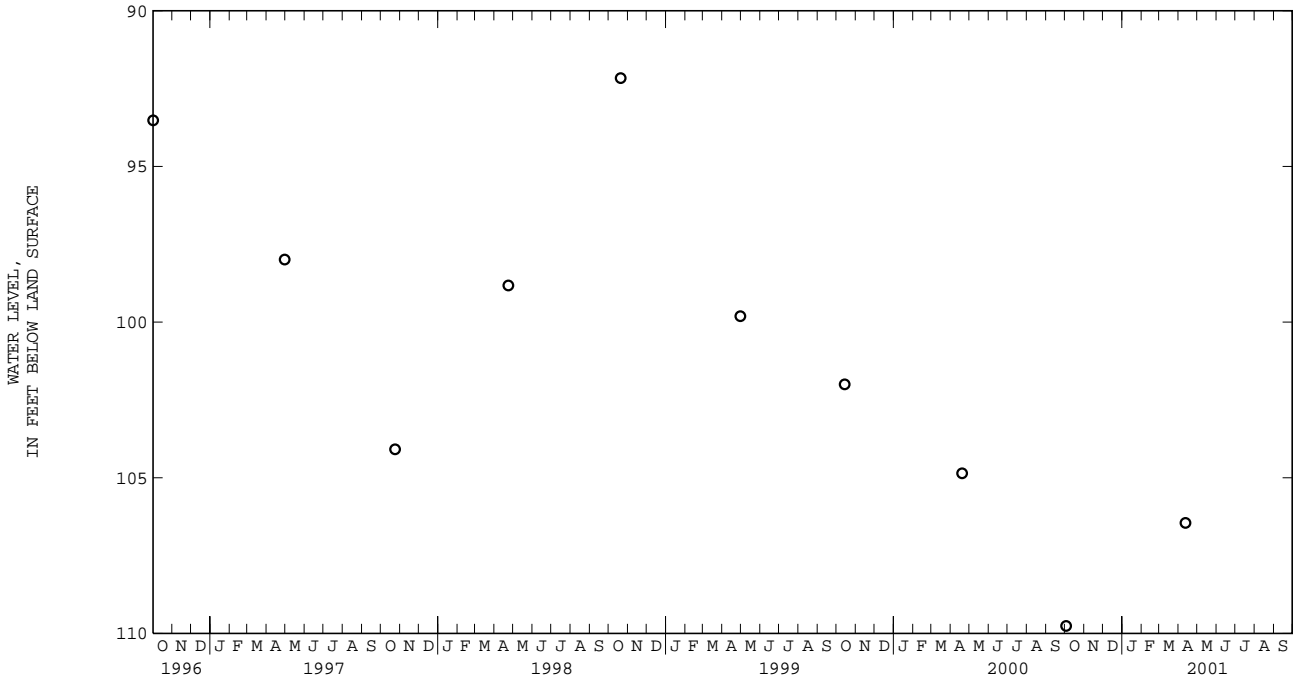
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.38 ft below land surface, Oct. 10, 1984; lowest measured, 130.62 ft below land surface, May 5, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	109.76	APR 12, 2001	106.45
WATER YEAR 2001 HIGHEST 106.45 APR 12, 2001		LOWEST 109.76 OCT 03, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



NEW CASTLE COUNTY--Continued

WELL NUMBER.--Dc34-06. SITE ID.--393755075364802.

LOCATION.--Lat 39°37'55", long 75°36'48", Hydrologic Unit 02040205, east side of Rt. 9, at National Guard Rifle Range.

Owner: U.S. Geological Survey

AQUIFER.--Upper Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 188 ft; casing diameter 2 in., to 183 ft; screened from 183 to 188 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from November 1975 to October 1982. Beginning March 1982, water-level measured twice yearly.

DATUM.--Elevation of land surface is 28 ft above sea level, from topographic map.

Measuring Point: Top of 6 in. casing, 2.00 ft above land surface.

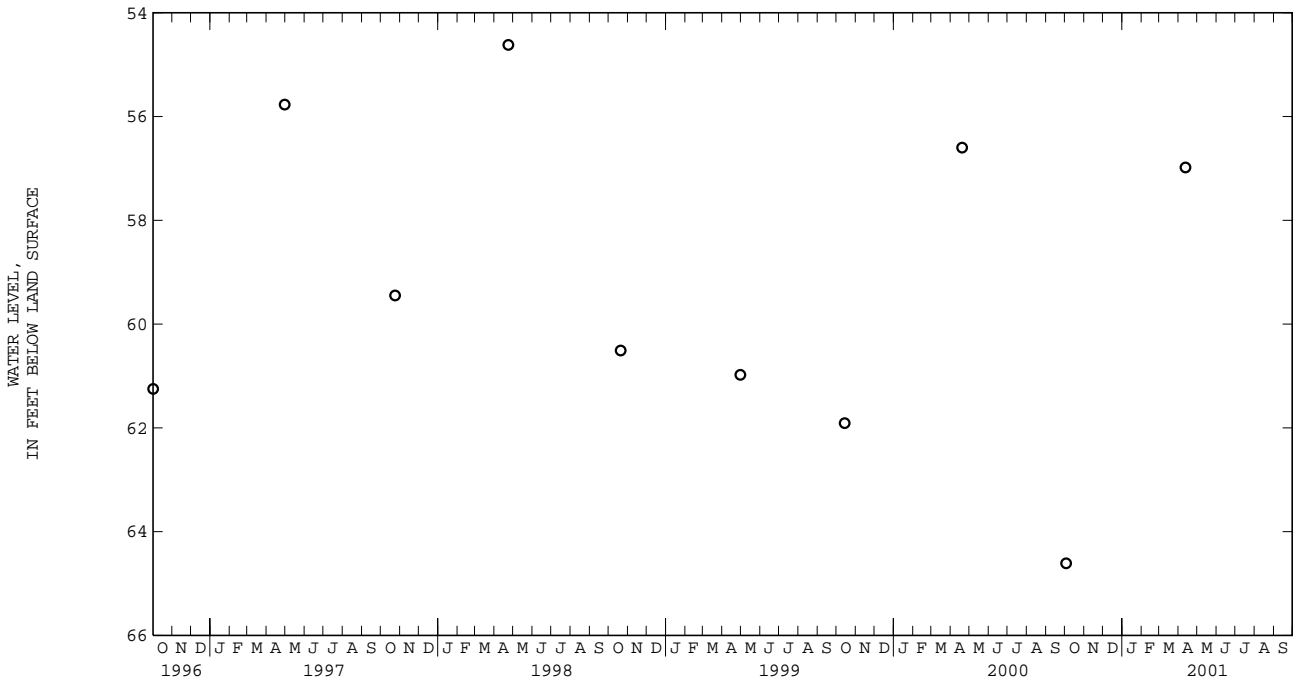
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.94 ft below land surface, Feb. 15, 1976; lowest measured, 64.61 ft below land surface, Oct. 3, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	64.61	APR 12, 2001	56.98
WATER YEAR 2001 HIGHEST 56.98 APR 12, 2001		LOWEST 64.61 OCT 03, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-22. SITE ID.--393316075421601.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code : 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 105 ft; casing diameter 2 in., to 101 ft, screened 2 in., from 101 to 105 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.50 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well.

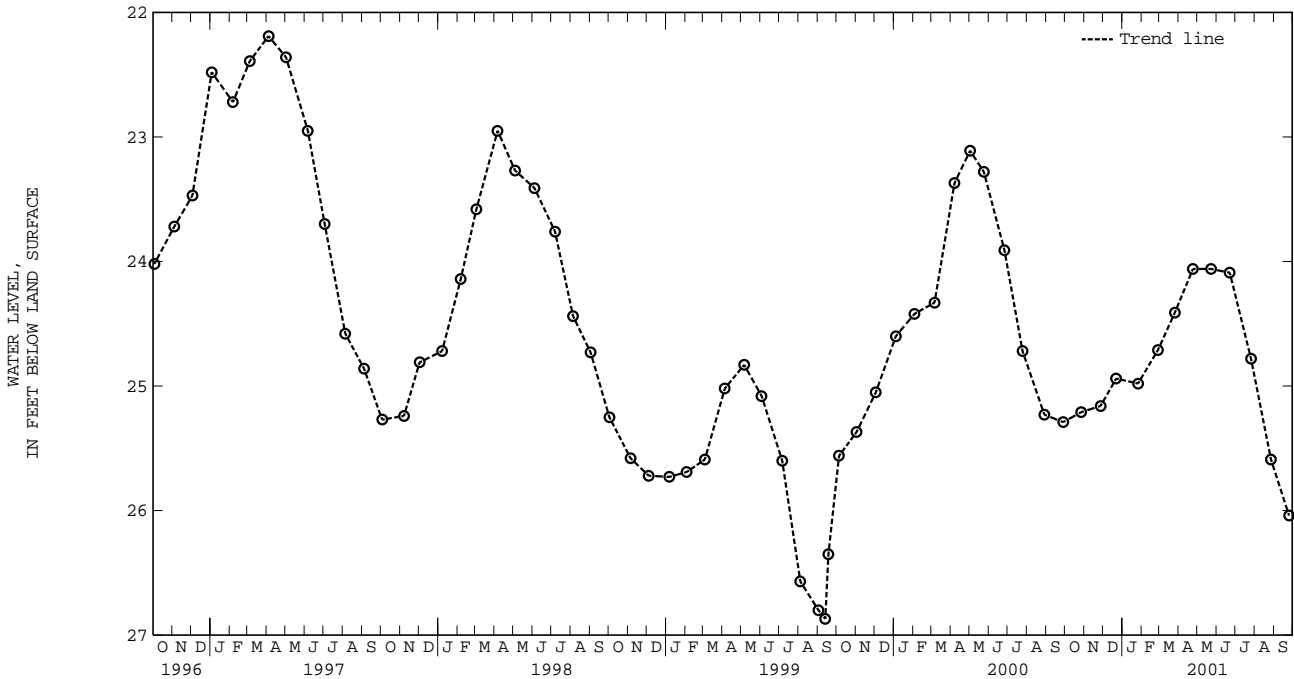
PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.19 ft below land surface, April 4, 1997;  
lowest measured, 27.42 ft below land surface, Oct. 2, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	25.21	JAN 26, 2001	24.98	APR 24, 2001	24.06	JUL 26, 2001	24.78
NOV 27	25.16	FEB 27	24.71	MAY 23	24.06	AUG 27	25.59
DEC 22	24.94	MAR 26	24.41	JUN 22	24.09	SEP 25	26.04

WATER YEAR 2001      HIGHEST    24.06 APR 24, 2001 MAY 23, 2001      LOWEST    26.04 SEP 25, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-23. SITE ID.--393316075421602.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 292 ft; casing diameter 2 in., to 288 ft, screened 2 in., from 288 to 292 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.35 ft above land surface.

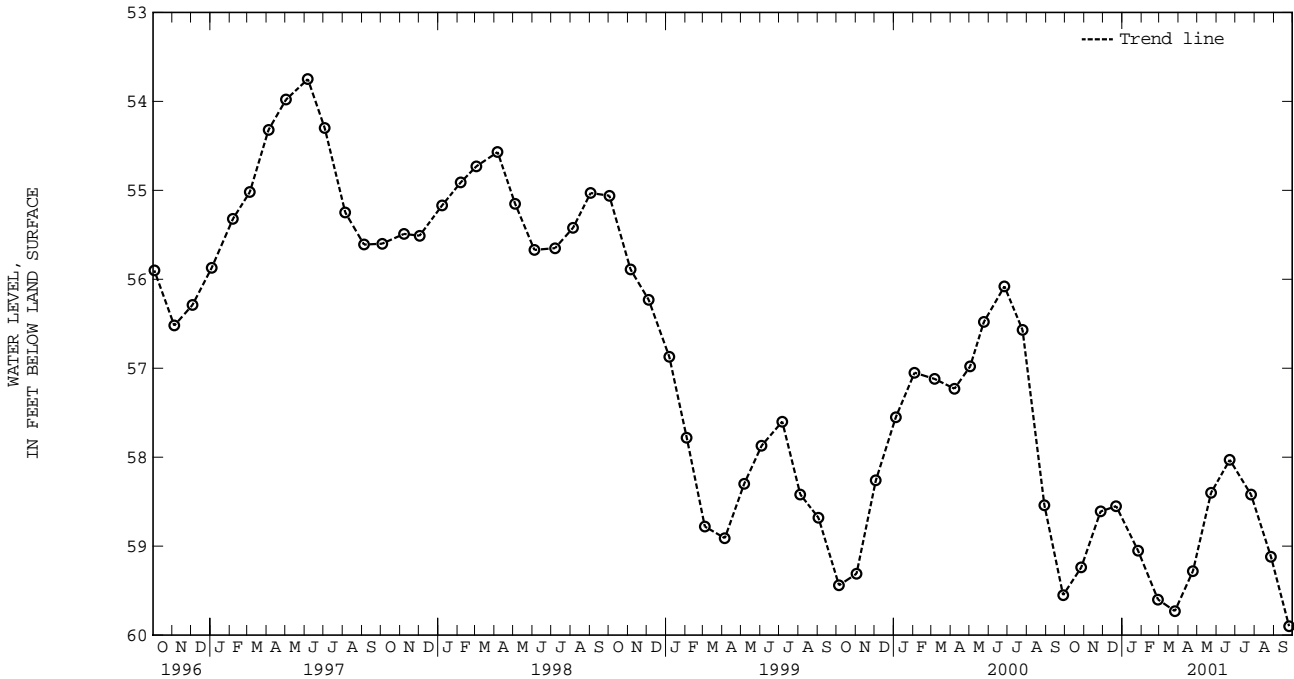
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.38 ft below land surface, Oct. 12, 1982; lowest measured, 60.60 ft below land surface, June 3, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	59.24	JAN 26, 2001	59.05	APR 24, 2001	59.28	JUL 26, 2001	58.42
NOV 27	58.61	FEB 27	59.60	MAY 23	58.40	AUG 27	59.12
DEC 22	58.55	MAR 26	59.73	JUN 22	58.03	SEP 25	59.90
WATER YEAR 2001		HIGHEST	58.03	JUN 22, 2001	LOWEST	59.90	SEP 25, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-24. SITE ID.--393316075421603.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 436 ft; casing diameter 2 in., to 432 ft, screened 2 in., from 432 to 436 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.38 ft above land surface.

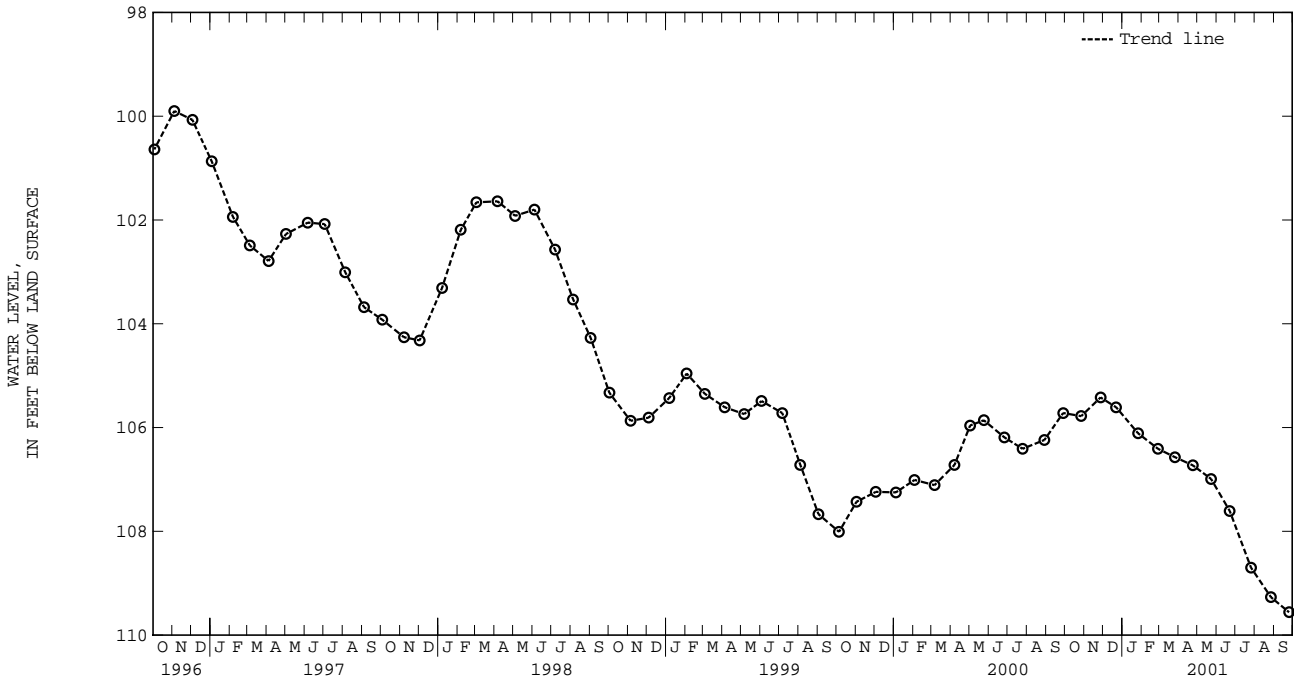
REMARKS.--Delaware Water-Level Network observation well. Water-levels are affected by regional ground-water withdraw.

PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.17 ft below land surface, Nov. 13, 1980; lowest measured, 109.56 ft below land surface, Sept. 25, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	105.78	JAN 26, 2001	106.11	APR 24, 2001	106.73	JUL 26, 2001	108.70
NOV 27	105.42	FEB 27	106.41	MAY 23	106.99	AUG 27	109.27
DEC 22	105.61	MAR 26	106.57	JUN 22	107.61	SEP 25	109.56
WATER YEAR 2001 HIGHEST 105.42 NOV 27, 2000		LOWEST 109.56		SEP 25, 2001			



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-25. SITE ID.--393316075421604.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 604 ft; casing diameter 2 in., to 600 ft, screened 2 in., from 600 to 604 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.00 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well. Water-levels are affected by regional ground-water withdrawal.

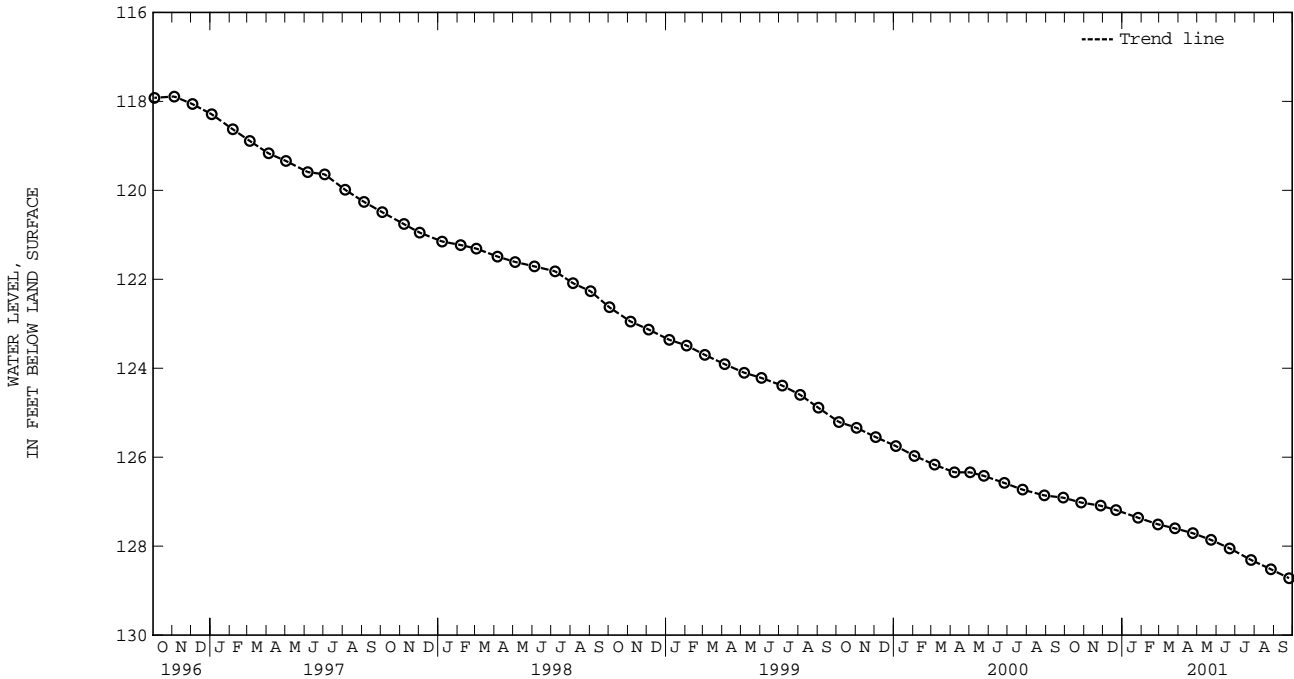
PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.07 ft below land surface, April 20, 1982; lowest measured, 128.72 ft below land surface, Sept. 25, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	127.02	JAN 26, 2001	127.36	APR 24, 2001	127.71	JUL 26, 2001	128.31
NOV 27	127.09	FEB 27	127.51	MAY 23	127.86	AUG 27	128.52
DEC 22	127.19	MAR 26	127.60	JUN 22	128.05	SEP 25	128.72

WATER YEAR 2001 HIGHEST 127.02 OCT 27, 2000 LOWEST 128.72 SEP 25, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Hbl4-01. SITE ID.--391949075410701.

LOCATION.--Lat 39°19'49", long 75°41'07", Hydrologic Unit 02040205, at Prices Corners.

Owner: Delaware Department of Transportation.

AQUIFER.--Columbia Formation of Pleistocene age. Aquifer code: 112CLMB

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 1 in., to 16 ft; well point from 16 to 19 ft.

INSTRUMENTATION.--Monthly measurements with electric or chalked steel tape by Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 72 ft above sea level, from topographic map.

Measuring point: Top of casing at land surface.

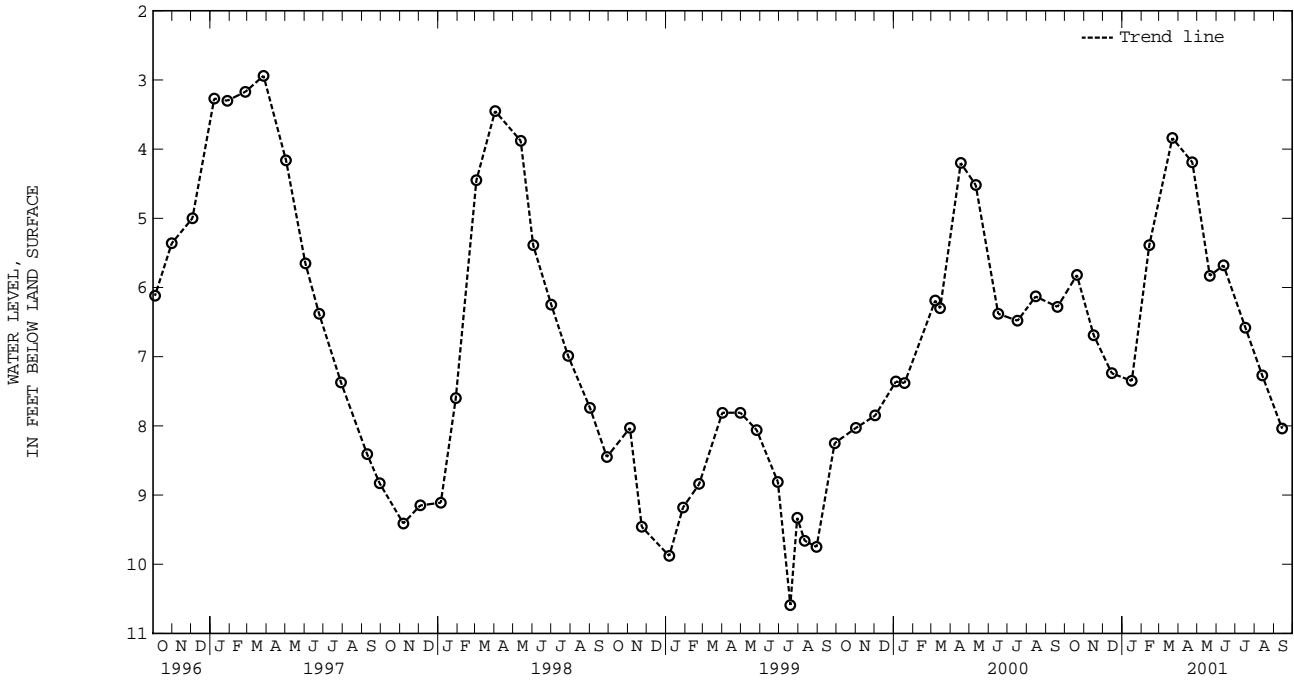
PERIOD OF RECORD.--October 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.49 ft below land surface, April 7, 1958;

lowest measured, 11.95 ft below land surface, Aug. 31, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 2000	5.82	JAN 16, 2001	7.35	APR 23, 2001	4.19	JUL 17, 2001	6.58
NOV 16	6.69	FEB 13	5.39	MAY 21	5.83	AUG 13	7.27
DEC 15	7.24	MAR 22	3.84	JUN 12	5.68	SEP 14	8.04
WATER YEAR 2001 HIGHEST 3.84		MAR 22, 2001		LOWEST 8.04		SEP 14, 2001	



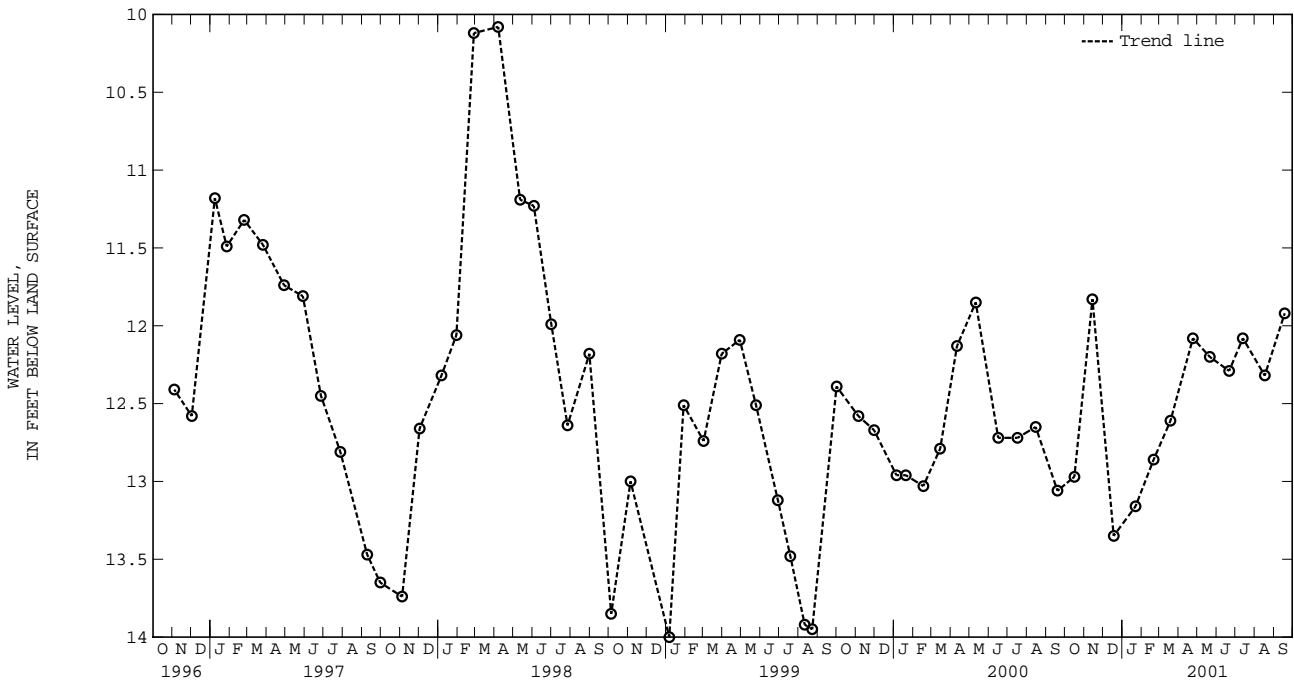
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY

WELL NUMBER.--Nc45-01. SITE ID.--384639075353101. PERMIT NUMBER.--10226.  
 LOCATION.--Lat 38°46'39", long 75°35'31", Hydrologic Unit 02060008, 2.0 mi south of Greenwood.  
 Owner: P. H. Cannon.  
 AQUIFER.--Columbia Formation (Staytonville unit) of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Driven, observation, water-table well, depth 15.45 ft; casing diameter 1 in., to 12.95 ft; screened from 12.95 to 15.45 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.  
 DATUM.--Elevation of land surface is 43 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.00 ft above land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.--January 1956 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.82 ft below land surface, April 9, 1958;  
 lowest measured, 14.66 ft below land surface, Dec. 11, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	12.97	JAN 22, 2001	13.16	APR 24, 2001	12.08	JUL 13, 2001	12.08
NOV 14	11.83	FEB 20	12.86	MAY 21	12.20	AUG 17	12.32
DEC 18	13.35	MAR 19	12.61	JUN 21	12.29	SEP 18	11.92
WATER YEAR 2001		HIGHEST	11.83	NOV 14, 2000	LOWEST	13.35	DEC 18, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE--Continued

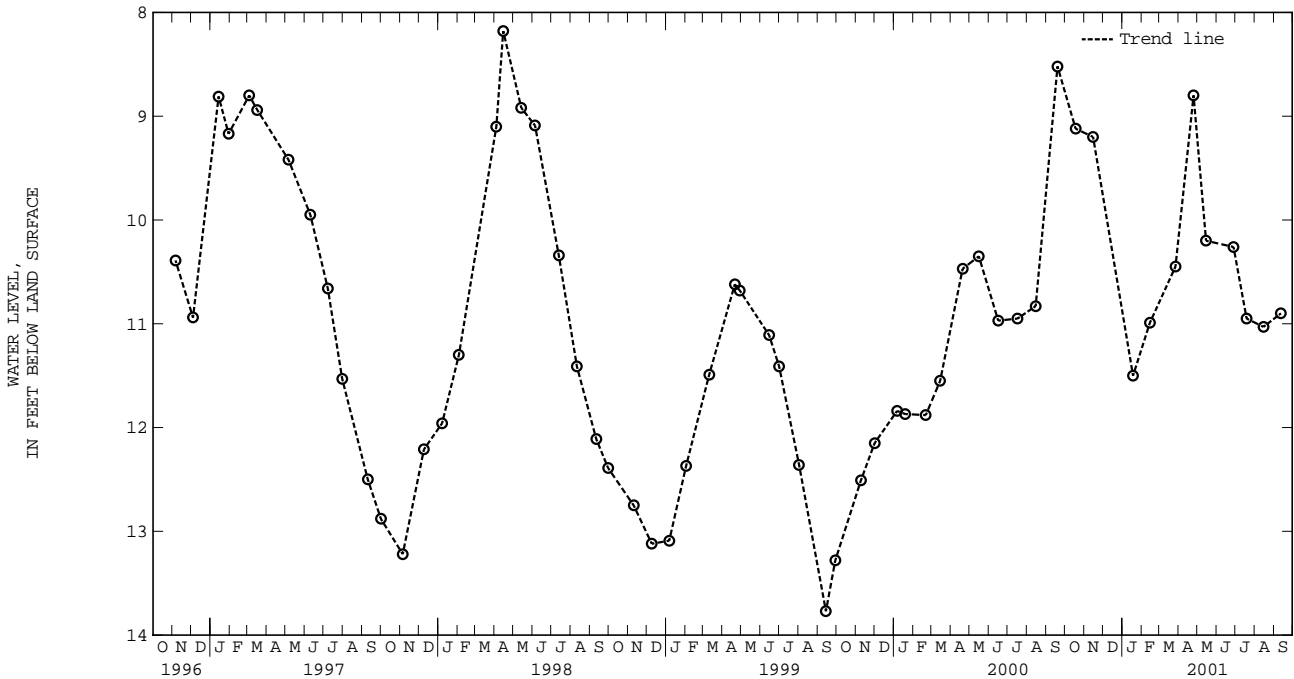
SUSSEX COUNTY--Continued

WELL NUMBER.--Ngll-01. SITE ID.--384955075192801. PERMIT NUMBER.--10227.  
 LOCATION.--Lat 38°49'55", long 75°19'28", Hydrologic Unit 02040207, 1.2 mi east of Jefferson Crossroads.  
 Owner: Delaware Department of Transportation.  
 AQUIFER.--Omar Formation of Pleistocene age. Aquifer code: 1120MAR.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 1 in., to 16 ft; well point from 16 to 19 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.  
 DATUM.--Elevation of land surface is 24 ft above sea level, from topographic map.  
 Measuring point: Top of casing at land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.--September 1959 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.91 ft below land surface, April 10, 1984; lowest measured, 14.64 ft below land surface, Jan. 7, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	9.12	FEB 14, 2001	10.99	MAY 15, 2001	10.20	AUG 15, 2001	11.03
NOV 15	9.20	MAR 27	10.45	JUN 28	10.26	SEP 12	10.90
JAN 18, 2001	11.50	APR 25	8.80	JUL 19	10.95		

WATER YEAR 2001 HIGHEST 8.80 APR 25, 2001 LOWEST 11.50 JAN 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



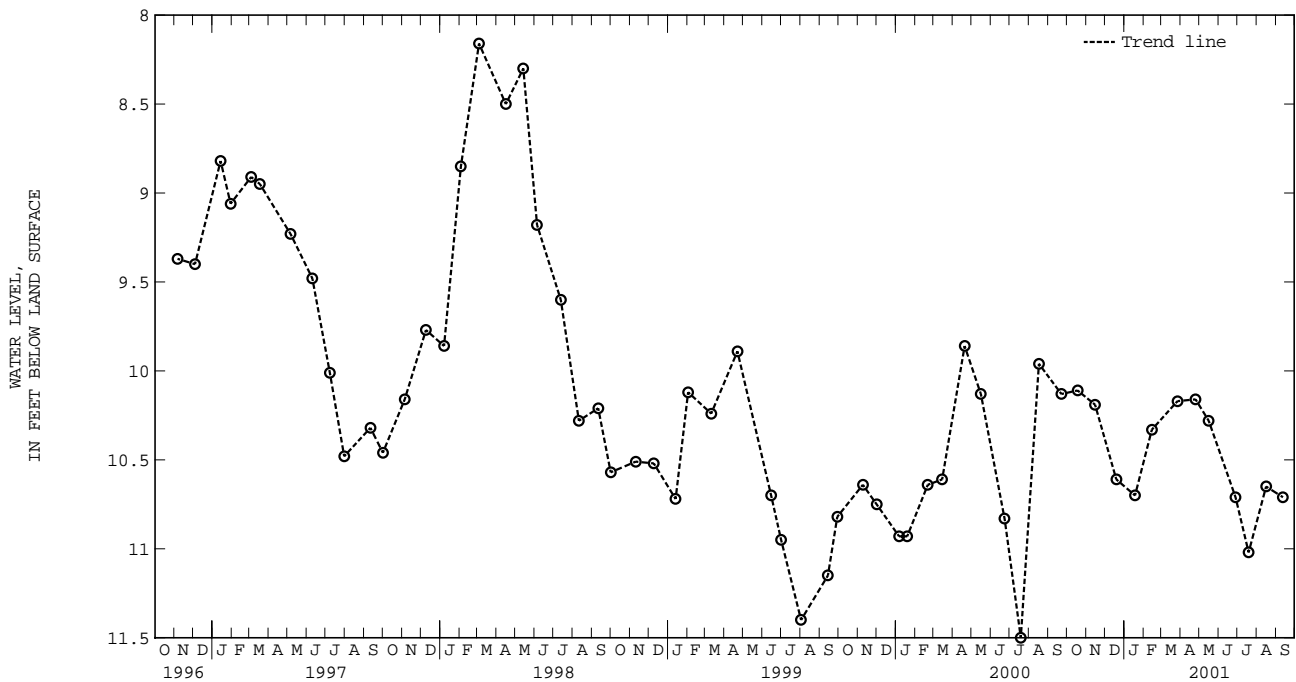
SUSSEX COUNTY--Continued

WELL NUMBER.--Ni52-11. SITE ID.--384558075083501. PERMIT NUMBER.--057363.  
 LOCATION.--Lat 38°45'58", long 75°08'35", Hydrologic Unit 02040207, in Lewes Library Park, nr railroad tracks.  
 Owner: Town of Lewes.  
 AQUIFER.--Pocomoke aquifer of Upper Miocene age. Aquifer code: 122PCMK.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 155 ft; casing diameter 4 in., to 145 ft; screened from 145 to 155 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Intermittent measurements from May 1985 to July 1987. Twice yearly measurements February 1988 to January 1992.  
 DATUM.--Elevation of land surface is 16 ft above sea level.  
 Measuring Point: Top of recorder platform, 0.5 ft above land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.-- May 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.16 ft below land surface, March 04, 1998;  
 lowest measured, 11.50 ft below land surface, July. 19, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	10.11	JAN 18, 2001	10.70	APR 25, 2001	10.16	JUL 19, 2001	11.02
NOV 15	10.19	FEB 14	10.33	MAY 16	10.28	AUG 16	10.65
DEC 19	10.61	MAR 27	10.17	JUN 28	10.71	SEP 12	10.71

WATER YEAR 2001    HIGHEST    10.11    OCT 18, 2000    LOWEST    11.02    JUL 19, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Ni52-12. SITE ID.--384558075083502. PERMIT NUMBER.--057365.  
 LOCATION.--Lat 38°45'58", long 75°08'35", Hydrologic Unit 02040207, in Lewes Library Park, nr railroad tracks.  
 Owner: Town of Lewes.

AQUIFER.--Columbia Formation (Delaware Bay deposits) of Pleistocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 80 ft; casing diameter 2 in., to 70 ft; screened from 70 to 80 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Intermittent measurements from July 1986 to July 1987. Twice yearly measurements from February 1988 to January 1992. Measurements from 1986 to 1992 taken by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 16 ft above sea level.

Measuring Point: Top of 6 in. casing.

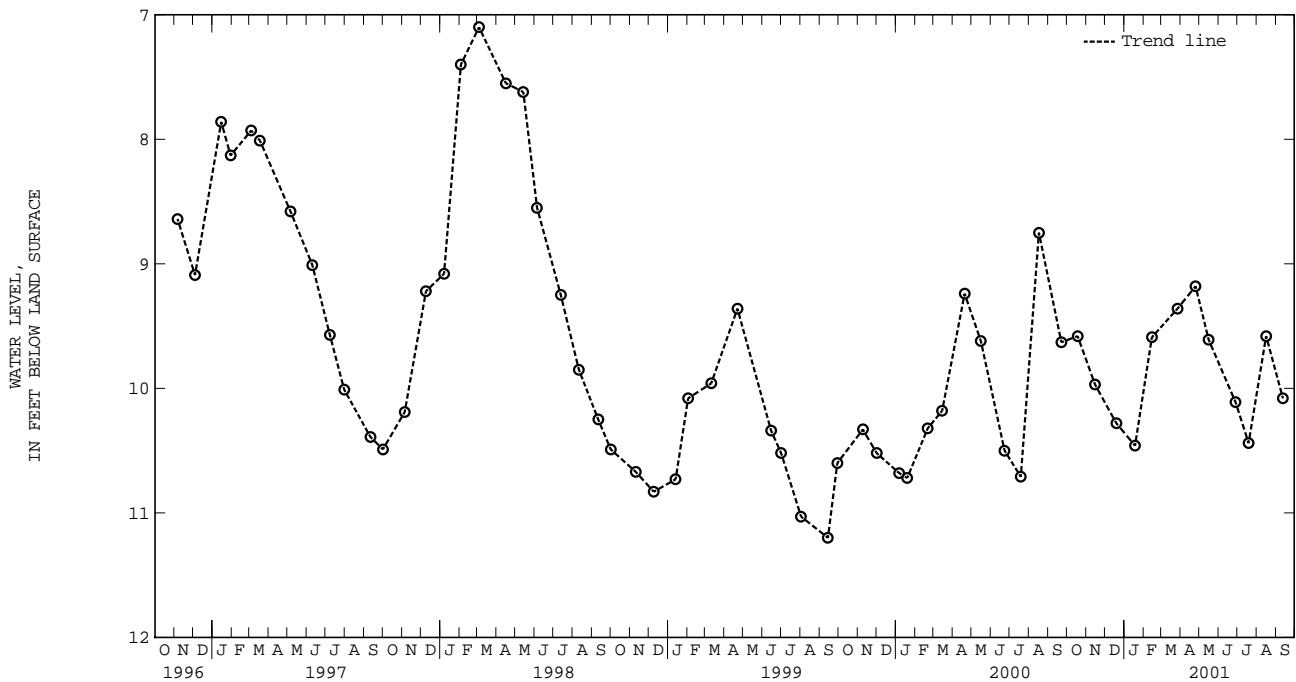
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.57 ft below land surface, March 31, 1994; lowest measured, 11.70 ft below land surface, Nov. 20, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	9.58	JAN 18, 2001	10.46	APR 25, 2001	9.18	JUL 19, 2001	10.44
NOV 15	9.97	FEB 14	9.59	MAY 16	9.61	AUG 16	9.58
DEC 19	10.28	MAR 27	9.36	JUN 28	10.11	SEP 12	10.08
WATER YEAR 2001		HIGHEST	9.18	APR 25, 2001	LOWEST	10.46	JAN 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-13. SITE ID.--384438075234801. PERMIT NUMBER.--07473.

LOCATION.--Lat 38°44'38", long 75°23'48", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 17 ft; casing diameter 2 in., to 14 ft; screen diameter 2 in. from 14 to 17 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993, to current year.

DATUM.--Altitude of land surface is 46.36 ft above sea level.

Measuring Point: Top of recorder platform, 2.58 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.06 ft below land surface, March 3, 1994;

lowest measured, 6.95 ft below land surface, Dec. 11, 1998.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	.99	.94	2.86	2.83	2.16	2.09	2.21	2.15	1.17	1.10	.90	.86
2	1.05	.99	2.91	2.86	2.23	2.16	2.25	2.21	1.25	1.15	.96	.90
3	1.15	1.05	2.94	2.91	2.26	2.23	2.28	2.25	1.27	1.25	1.01	.96
4	1.23	1.15	2.96	2.94	2.28	2.26	2.29	2.26	1.31	1.27	1.02	.67
5	1.25	1.23	3.02	2.96	2.33	2.28	2.29	2.24	1.29	.63	.72	.66
6	1.36	1.24	3.05	3.02	2.36	2.33	2.35	2.26	.77	.66	.81	.72
7	1.45	1.36	3.08	3.05	2.41	2.35	2.36	2.35	.85	.77	.86	.81
8	1.52	1.45	3.12	3.06	2.46	2.40	2.36	2.08	.87	.84	.88	.86
9	1.57	1.52	3.12	2.87	2.52	2.46	2.08	2.04	.87	.87	.88	.85
10	1.65	1.57	2.87	2.56	2.52	2.50	2.13	2.05	.96	.87	.93	.88
11	1.75	1.65	2.70	2.57	2.50	2.44	2.17	2.13	1.02	.96	1.00	.93
12	1.82	1.75	2.76	2.70	2.61	2.39	2.23	2.17	1.06	1.02	1.02	.93
13	1.90	1.82	2.80	2.76	2.64	2.56	2.30	2.23	1.04	.93	.93	.57
14	1.99	1.90	2.81	2.55	2.56	1.80	2.32	2.21	.95	.94	.75	.67
15	2.07	1.99	2.63	2.55	1.84	1.80	2.21	2.10	1.04	.94	.77	.60
16	2.16	2.07	2.64	2.63	1.85	1.53	2.16	2.10	1.04	.86	.66	.60
17	2.18	2.16	2.76	2.64	1.53	1.32	2.20	2.16	.86	.70	.73	.66
18	2.21	2.18	2.80	2.76	1.50	1.44	2.24	2.20	.87	.81	.78	.73
19	2.30	2.21	2.84	2.80	1.53	1.50	2.20	1.28	.89	.87	.85	.78
20	2.35	2.30	2.91	2.84	1.70	1.53	1.28	.78	.92	.89	.86	.85
21	2.42	2.35	2.96	2.91	1.72	1.70	.90	.79	.99	.92	.86	.31
22	2.50	2.42	3.00	2.96	1.82	1.72	.96	.90	1.03	.98	.47	.35
23	2.52	2.50	3.04	3.00	1.85	1.82	.97	.95	1.05	.99	.53	.46
24	2.53	2.52	3.08	3.04	1.88	1.84	1.00	.96	1.04	.99	.60	.53
25	2.60	2.53	3.10	3.04	1.96	1.88	1.06	1.00	.99	.63	.62	.60
26	2.63	2.60	3.04	1.80	1.99	1.96	1.10	1.06	.79	.65	.66	.62
27	2.63	2.63	1.93	1.82	1.99	1.97	1.16	1.08	.81	.79	.66	.62
28	2.70	2.63	2.04	1.93	2.03	1.98	1.20	1.16	.86	.81	.70	.66
29	2.75	2.70	2.08	2.02	2.06	2.03	1.23	1.20	---	---	.70	.47
30	2.80	2.75	2.09	2.00	2.09	2.04	1.22	.97	---	---	.47	.38
31	2.83	2.80	---	---	2.15	2.09	1.10	.98	---	---	.48	.45
MONTH	2.83	.94	3.12	1.80	2.64	1.32	2.36	.78	1.31	.63	1.02	.31

GROUND-WATER LEVELS IN DELAWARE--Continued

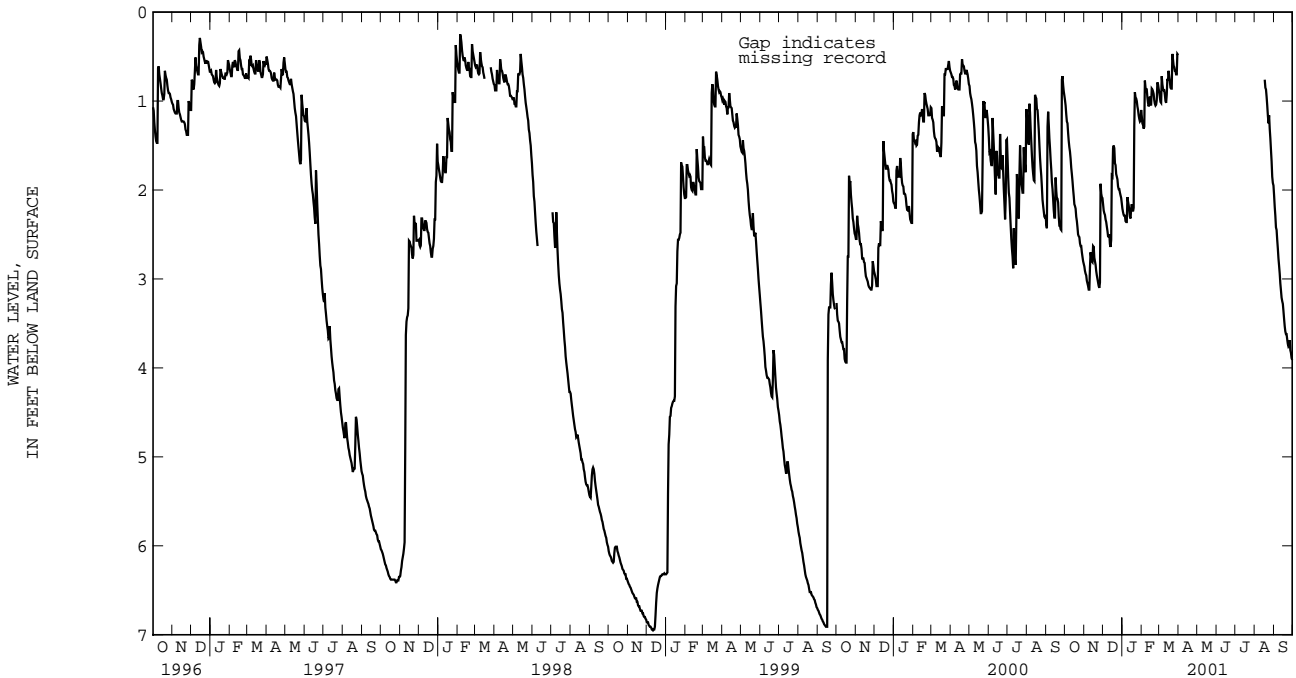
SUSSEX COUNTY--Continued

Of12-13--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	2.06	1.95
2	---	---	---	---	---	---	---	---	---	---	2.19	2.06
3	---	---	---	---	---	---	---	---	---	---	2.29	2.19
4	---	---	---	---	---	---	---	---	---	---	2.42	2.29
5	---	---	---	---	---	---	---	---	---	---	2.45	2.31
6	---	---	---	---	---	---	---	---	---	---	2.56	2.45
7	---	---	---	---	---	---	---	---	---	---	2.66	2.56
8	---	---	---	---	---	---	---	---	---	---	2.77	2.66
9	---	---	---	---	---	---	---	---	---	---	2.85	2.77
10	---	---	---	---	---	---	---	---	---	---	2.94	2.85
11	---	---	---	---	---	---	---	---	---	---	3.05	2.94
12	---	---	---	---	---	---	---	---	---	---	3.13	3.05
13	---	---	---	---	---	---	---	---	---	---	3.21	3.13
14	---	---	---	---	---	---	---	---	---	---	3.25	3.21
15	---	---	---	---	---	---	---	---	---	---	3.28	3.20
16	---	---	---	---	---	---	---	---	---	---	3.36	3.28
17	---	---	---	---	---	---	---	---	.76	.68	3.45	3.36
18	---	---	---	---	---	---	---	---	.85	.76	3.53	3.45
19	---	---	---	---	---	---	---	---	.87	.84	3.59	3.53
20	---	---	---	---	---	---	---	---	.95	.87	3.62	3.59
21	---	---	---	---	---	---	---	---	1.05	.95	3.62	3.60
22	---	---	---	---	---	---	---	---	1.16	1.05	3.68	3.62
23	---	---	---	---	---	---	---	---	1.25	1.15	3.73	3.68
24	---	---	---	---	---	---	---	---	1.16	1.04	3.76	3.73
25	---	---	---	---	---	---	---	---	1.31	1.16	3.75	3.63
26	---	---	---	---	---	---	---	---	1.42	1.31	3.69	3.62
27	---	---	---	---	---	---	---	---	1.55	1.42	3.80	3.69
28	---	---	---	---	---	---	---	---	1.68	1.55	3.83	3.80
29	---	---	---	---	---	---	---	---	1.85	1.68	3.89	3.83
30	---	---	---	---	---	---	---	---	1.92	1.81	3.91	3.89
31	---	---	---	---	---	---	---	---	1.95	1.81	---	---
MONTH	---	---	---	---	---	---	---	---	1.95	.68	3.91	1.95
YEAR	3.91	.31										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-03. SITE ID.--384401075224901. PERMIT NUMBER.--95801.

LOCATION.--Lat 38°44'01", long 75°22'49", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code:121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20 ft; casing diameter 2 in., to 17 ft; screen diameter 2 in. from 17 to 20 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 48.37 ft above sea level.

Measuring Point: Top of recorder platform, 3.28 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.06 ft above land surface, March 3, 1994;

lowest measured, 8.90 ft below land surface, Sept. 15, 1999.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.25	3.22	4.79	4.76	4.96	4.96	4.88	4.87	3.67	3.62	---	---
2	3.32	3.25	4.82	4.79	4.96	4.95	4.87	4.87	3.68	3.62	---	---
3	3.43	3.32	4.86	4.82	4.95	4.95	4.87	4.87	3.75	3.68	---	---
4	3.50	3.43	4.87	4.86	4.95	4.95	4.87	4.87	3.77	3.73	---	---
5	3.51	3.50	4.92	4.87	4.95	4.95	4.87	4.86	3.73	3.24	2.79	2.71
6	3.61	3.51	4.95	4.92	4.95	4.94	4.86	4.86	3.24	3.18	2.76	2.68
7	3.70	3.61	4.97	4.95	4.94	4.94	4.86	4.86	3.21	3.18	2.86	2.76
8	3.75	3.70	5.03	4.97	4.94	4.94	4.86	4.86	3.22	3.20	2.88	2.86
9	3.80	3.75	5.03	5.02	4.94	4.94	4.86	4.85	3.20	3.13	2.87	2.83
10	3.85	3.80	5.02	5.01	4.94	4.93	4.85	4.85	3.29	3.12	2.91	2.86
11	3.95	3.85	---	---	4.93	4.93	4.85	4.85	3.35	3.29	2.98	2.91
12	4.00	3.95	---	---	4.93	4.93	4.85	4.84	3.36	3.32	3.02	2.90
13	4.04	4.00	---	---	4.94	4.92	4.84	4.84	3.32	3.25	2.90	2.42
14	4.08	4.04	---	---	4.92	4.92	4.84	4.84	3.25	3.16	2.56	2.47
15	4.14	4.08	---	---	4.92	4.92	4.84	4.84	3.28	3.15	2.59	2.37
16	4.20	4.14	---	---	4.92	4.92	4.84	4.83	3.28	3.18	2.37	2.34
17	4.22	4.20	---	---	4.92	4.91	4.83	4.83	3.18	3.03	2.43	2.35
18	4.25	4.22	---	---	4.91	4.91	4.84	4.83	3.07	3.05	2.54	2.43
19	4.31	4.25	5.06	5.04	4.91	4.91	4.84	4.57	3.08	3.05	2.58	2.54
20	4.34	4.31	5.09	5.06	4.91	4.91	4.57	3.94	3.06	3.05	2.62	2.58
21	4.39	4.34	5.10	5.08	4.91	4.90	3.94	3.77	3.19	3.05	2.61	2.61
22	4.46	4.39	5.13	5.10	4.90	4.90	3.77	3.69	3.19	3.18	2.61	2.60
23	4.49	4.46	5.16	5.13	4.90	4.90	3.69	3.63	3.20	3.18	---	---
24	4.51	4.49	5.18	5.16	4.90	4.90	---	---	3.22	3.19	---	---
25	4.55	4.51	5.18	5.15	4.90	4.89	3.66	3.61	3.19	3.18	---	---
26	4.57	4.55	5.15	4.97	4.89	4.89	3.67	3.63	---	---	---	---
27	4.57	4.57	4.97	4.97	4.89	4.89	3.69	3.63	---	---	---	---
28	4.67	4.57	4.97	4.97	4.89	4.88	3.72	3.69	---	---	---	---
29	4.69	4.66	4.97	4.96	4.88	4.88	3.73	3.70	---	---	---	---
30	4.72	4.69	4.96	4.96	4.88	4.88	3.70	3.57	---	---	---	---
31	4.76	4.72	---	---	4.88	4.88	3.62	3.57	---	---	---	---
MONTH	4.76	3.22	5.18	4.76	4.96	4.88	4.88	3.57	3.77	3.03	3.02	2.34

GROUND-WATER LEVELS IN DELAWARE--Continued

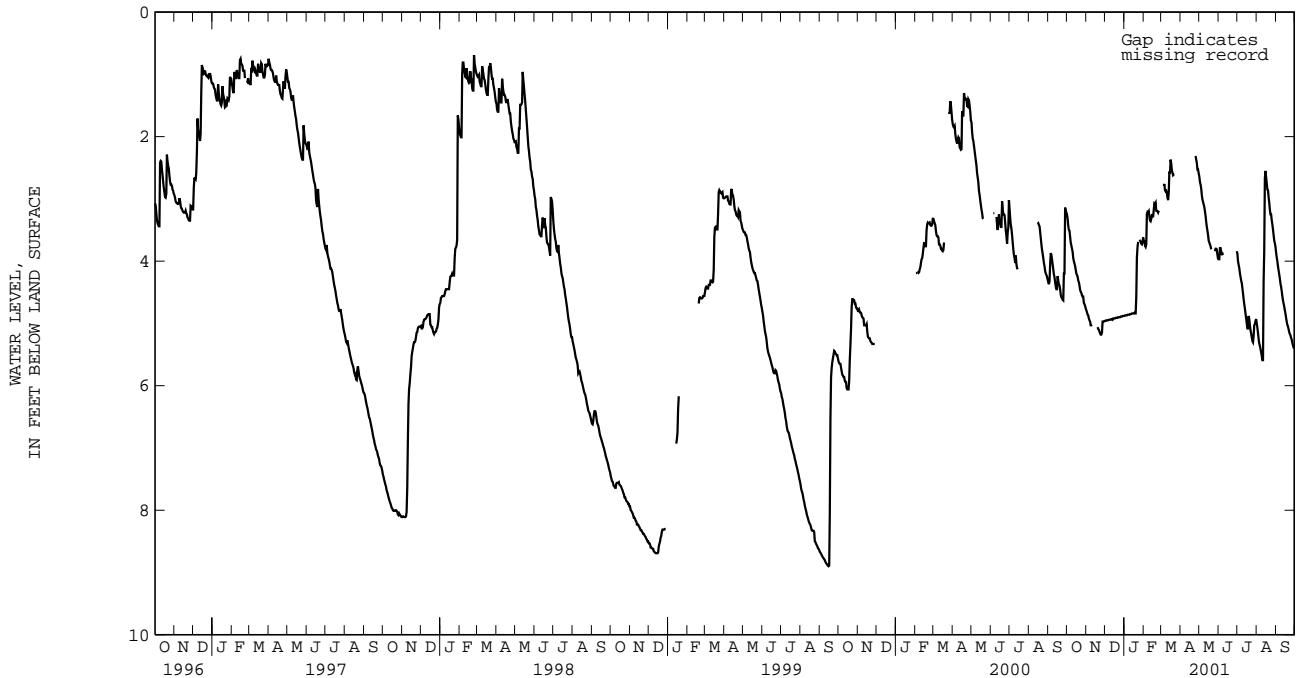
SUSSEX COUNTY--Continued

Of13-03--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	2.64	2.58	3.97	3.96	3.88	3.84	5.00	4.93	3.86	3.77
2	---	---	2.73	2.64	3.97	3.79	4.00	3.88	5.07	5.00	3.94	3.86
3	---	---	2.77	2.73	3.79	3.79	4.06	4.00	5.15	5.07	4.00	3.94
4	---	---	2.83	2.77	3.79	3.79	4.11	4.06	5.25	5.15	4.08	4.00
5	---	---	2.94	2.83	3.84	3.79	4.19	4.11	5.32	5.25	4.15	4.08
6	---	---	3.01	2.94	3.89	3.84	4.25	4.19	5.36	5.32	4.21	4.15
7	---	---	3.05	3.01	3.89	3.88	4.31	4.25	5.41	5.36	4.28	4.21
8	---	---	3.09	3.05	3.88	3.88	4.35	4.31	5.46	5.41	4.36	4.28
9	---	---	3.13	3.09	3.88	3.87	4.43	4.35	5.52	5.46	4.41	4.36
10	---	---	3.20	3.13	---	---	4.52	4.43	5.59	5.52	4.48	4.41
11	---	---	3.27	3.20	---	---	4.61	4.52	5.59	4.33	4.56	4.48
12	---	---	3.37	3.27	---	---	4.69	4.61	4.33	3.84	4.63	4.56
13	---	---	3.45	3.37	---	---	4.76	4.69	3.84	2.67	4.68	4.63
14	---	---	3.51	3.45	---	---	4.84	4.76	2.67	2.43	4.73	4.68
15	---	---	3.58	3.51	---	---	4.92	4.84	2.55	2.44	4.79	4.73
16	---	---	3.67	3.58	---	---	5.00	4.92	2.65	2.55	4.84	4.79
17	---	---	3.70	3.67	---	---	5.08	5.00	2.75	2.65	4.91	4.84
18	---	---	3.73	3.70	---	---	5.08	4.88	2.85	2.75	4.97	4.91
19	---	---	3.76	3.73	---	---	4.88	4.87	2.86	2.84	5.02	4.97
20	---	---	3.81	3.76	---	---	4.93	4.87	2.97	2.86	5.05	5.02
21	---	---	---	---	---	---	5.03	4.93	3.06	2.97	5.09	5.05
22	---	---	---	---	---	---	5.11	5.03	3.17	3.06	5.14	5.09
23	---	---	---	---	---	---	5.16	5.11	3.25	3.17	5.17	5.14
24	---	---	---	---	---	---	5.22	5.16	3.25	3.17	5.19	5.17
25	2.31	2.30	---	---	---	---	5.28	5.22	3.34	3.25	5.23	5.19
26	2.37	2.30	3.84	3.80	---	---	5.30	5.20	3.41	3.34	5.26	5.23
27	2.42	2.37	3.80	3.80	---	---	5.20	5.03	3.49	3.41	5.31	5.26
28	2.53	2.42	3.80	3.79	---	---	5.03	5.01	3.58	3.49	5.35	5.31
29	2.53	2.53	3.81	3.79	---	---	5.01	4.96	3.67	3.58	5.39	5.35
30	2.59	2.53	3.90	3.81	3.84	3.84	4.96	4.91	3.71	3.67	5.40	5.39
31	---	---	3.96	3.90	---	---	4.93	4.90	3.77	3.71	---	---
MONTH	2.59	2.30	3.96	2.58	3.97	3.79	5.30	3.84	5.59	2.43	5.40	3.77
YEAR	5.59	2.30										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## SUSSEX COUNTY---Continued

WELL NUMBER.--Of13-08. SITE ID.--384406075224601. PERMIT NUMBER.--97463.

LOCATION.--Lat 38°44'06", long 75°22'46", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 16 ft; casing diameter 2 in; to 13 ft; screen diameter 2 in. from 13 to 16 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 48.91 ft above sea level.

Measuring Point: Top of recorder platform, 2.63 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.40 ft below land surface, March 3, 1994;

lowest measured, 9.47 ft below land surface, Sept. 14-16, 1999.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.00	4.00	---	---	---	---	5.31	5.27	4.37	4.34	3.63	3.61
2	4.05	4.00	5.44	5.24	5.36	5.34	5.37	5.31	4.37	4.33	3.67	3.62
3	---	---	5.45	5.44	5.37	5.36	---	---	4.43	4.37	3.75	3.67
4	---	---	5.47	5.45	5.38	5.37	---	---	4.43	4.42	3.77	3.57
5	---	---	5.47	5.47	5.40	5.36	5.38	5.35	4.42	4.11	3.57	3.44
6	---	---	5.49	5.47	5.41	5.40	5.44	5.37	---	---	3.46	3.41
7	---	---	5.62	5.49	5.43	5.40	5.46	5.44	---	---	3.55	3.46
8	---	---	5.64	5.62	5.49	5.43	5.46	5.45	---	---	3.56	3.55
9	---	---	5.67	5.64	5.54	5.49	5.48	5.46	---	---	3.55	3.55
10	---	---	5.66	5.63	5.54	5.54	5.48	5.47	---	---	3.60	3.55
11	---	---	5.63	5.63	5.56	5.54	5.48	5.47	4.02	3.99	3.66	3.60
12	---	---	5.64	5.63	5.63	5.55	5.50	5.48	4.04	4.02	3.69	3.64
13	---	---	5.65	5.64	5.66	5.63	5.53	5.50	4.03	3.97	---	---
14	---	---	---	---	5.64	5.64	5.53	5.53	3.97	3.96	---	---
15	---	---	---	---	5.64	5.50	5.53	5.51	3.97	3.96	---	---
16	---	---	---	---	5.50	5.35	5.52	5.51	3.97	3.96	---	---
17	---	---	5.69	5.66	5.35	5.23	5.53	5.52	---	---	3.09	3.05
18	---	---	5.70	5.69	5.24	5.23	5.53	5.52	---	---	3.23	3.09
19	---	---	5.73	5.70	5.23	5.10	5.52	5.36	---	---	3.27	3.23
20	---	---	5.75	5.73	5.12	5.10	5.36	4.83	---	---	3.31	3.27
21	---	---	5.77	5.75	5.12	5.10	4.83	4.68	---	---	3.30	2.17
22	---	---	5.79	5.77	5.12	5.10	4.68	4.48	3.88	3.82	2.17	1.99
23	---	---	5.82	5.79	5.13	5.12	4.48	4.48	3.90	3.82	2.23	2.07
24	---	---	5.84	5.82	5.13	5.11	4.48	4.39	3.94	3.89	2.37	2.23
25	---	---	5.84	5.83	5.16	5.12	4.39	4.38	3.89	3.63	2.42	2.37
26	---	---	5.83	5.61	5.16	5.15	4.40	4.38	3.63	3.62	2.45	2.37
27	---	---	5.61	5.42	5.16	5.15	4.41	4.38	3.62	3.60	2.45	2.37
28	---	---	5.42	5.33	5.17	5.15	4.42	4.41	3.61	3.60	2.52	2.45
29	---	---	---	---	5.20	5.17	4.42	4.41	---	---	2.52	2.09
30	---	---	---	---	5.21	5.18	4.41	4.32	---	---	2.09	1.71
31	---	---	---	---	5.27	5.21	4.34	4.32	---	---	1.86	1.75
MONTH	4.05	4.00	5.84	5.24	5.66	5.10	5.53	4.32	4.43	3.60	3.77	1.71

GROUND-WATER LEVELS IN DELAWARE--Continued

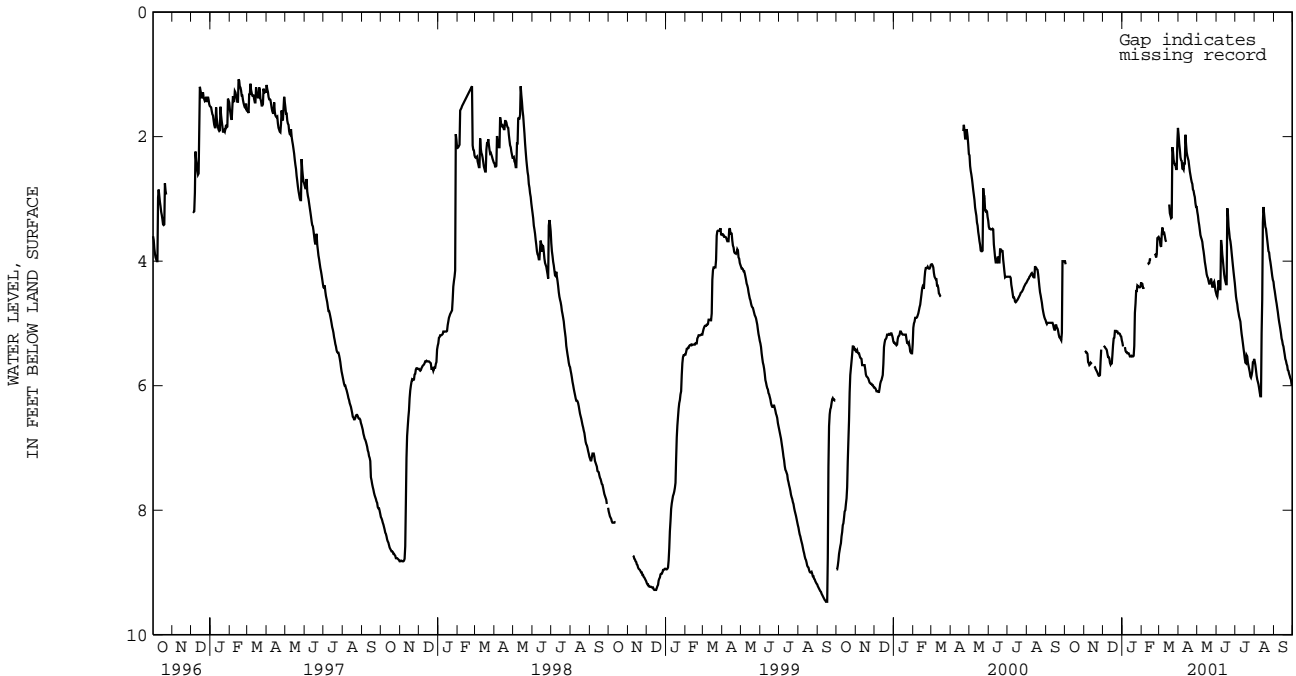
SUSSEX COUNTY---Continued

Of13-08--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.97	1.86	3.21	3.13	4.55	4.51	4.46	4.35	5.61	5.57	4.42	4.33
2	2.11	1.97	3.27	3.21	4.57	4.47	4.57	4.46	5.67	5.61	4.48	4.42
3	2.21	2.11	3.36	3.27	4.47	4.27	4.64	4.57	5.75	5.67	4.55	4.48
4	2.33	2.21	3.42	3.36	4.31	4.27	4.69	4.64	5.84	5.75	4.62	4.55
5	2.38	2.33	3.50	3.42	4.40	4.31	4.78	4.69	5.90	5.84	4.68	4.62
6	2.39	2.37	3.58	3.50	4.45	4.40	4.83	4.78	5.94	5.90	4.75	4.68
7	2.51	2.39	3.62	3.58	4.45	3.66	4.89	4.83	5.98	5.94	4.82	4.75
8	2.51	2.50	3.65	3.62	3.66	3.62	4.93	4.89	6.04	5.98	4.90	4.82
9	2.53	2.36	3.69	3.65	3.75	3.63	4.97	4.93	6.11	6.04	4.97	4.90
10	2.43	2.29	3.78	3.69	3.89	3.75	5.08	4.97	6.17	6.11	5.03	4.97
11	2.43	1.93	3.84	3.78	3.99	3.89	5.17	5.08	6.17	5.16	5.09	5.03
12	1.97	1.93	3.92	3.84	4.10	3.99	5.24	5.17	5.16	4.62	5.16	5.09
13	2.13	1.97	4.01	3.92	4.21	4.10	5.32	5.24	4.62	3.38	5.24	5.16
14	2.25	2.13	4.07	4.01	4.28	4.21	5.40	5.32	3.38	3.02	5.28	5.24
15	2.31	2.25	4.14	4.07	4.33	4.28	5.48	5.40	3.13	3.02	5.34	5.28
16	2.35	2.25	4.21	4.14	4.37	4.33	5.56	5.48	3.24	3.13	5.37	5.34
17	2.39	2.31	4.25	4.21	4.37	3.00	5.63	5.56	3.35	3.24	5.44	5.37
18	2.48	2.36	4.27	4.25	3.15	3.00	5.64	5.51	3.45	3.35	5.50	5.44
19	2.56	2.48	4.32	4.27	3.23	3.15	5.51	5.47	3.48	3.45	5.57	5.50
20	2.62	2.56	4.36	4.32	3.44	3.23	5.53	5.47	3.57	3.48	5.60	5.57
21	2.68	2.62	4.36	4.35	3.53	3.44	5.63	5.53	3.66	3.57	5.65	5.60
22	2.73	2.68	4.35	4.27	3.63	3.53	5.68	5.63	3.75	3.66	5.68	5.65
23	2.76	2.73	4.28	4.26	3.68	3.63	5.73	5.68	3.84	3.75	5.75	5.68
24	2.85	2.76	4.34	4.27	3.76	3.68	5.78	5.73	3.86	3.84	5.76	5.75
25	2.87	2.85	4.41	4.34	3.87	3.76	5.85	5.78	3.95	3.86	5.81	5.76
26	2.93	2.87	4.41	4.35	3.97	3.87	5.87	5.83	4.01	3.95	5.84	5.81
27	2.97	2.93	4.35	4.28	4.07	3.97	5.83	5.77	4.08	4.01	5.88	5.84
28	3.07	2.97	4.33	4.28	4.17	4.07	5.77	5.63	4.16	4.08	5.90	5.88
29	3.13	3.07	4.39	4.33	4.26	4.17	5.63	5.63	4.24	4.16	5.98	5.90
30	3.13	3.13	4.47	4.39	4.35	4.26	5.63	5.57	4.30	4.24	5.98	5.98
31	---	---	4.51	4.47	---	---	5.57	5.57	4.33	4.30	---	---
MONTH	3.13	1.86	4.51	3.13	4.57	3.00	5.87	4.35	6.17	3.02	5.98	4.33
YEAR	6.17	1.71										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## SUSSEX COUNTY---Continued

WELL NUMBER.--Of22-04. SITE ID.--384343075230401. PERMIT NUMBER.--95800.

LOCATION.--Lat 38°43'43", long 75°23'04", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 15 ft; casing diameter 2 in., to 12 ft; screen diameter 2 in. from 12 to 15 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 47.62 ft above sea level.

Measuring Point: Top of recorder platform, 2.68 ft above land surface.

REMARKS.--Delaware Department of Transportation wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.75 ft above land surface, March 3, 1994;

lowest measured, 7.31 ft below land surface, Dec. 11-13, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	3.42	3.39	3.05	3.02	3.09	3.06	2.05	1.97	1.26	1.22
2	---	---	3.45	3.42	3.09	3.05	3.12	3.09	2.09	2.00	1.35	1.26
3	---	---	3.48	3.45	3.12	3.09	3.14	3.12	2.16	2.09	1.46	1.35
4	---	---	3.50	3.48	3.12	3.12	3.16	3.14	2.19	2.16	1.49	.83
5	---	---	3.53	3.50	3.16	3.12	3.16	3.13	2.16	1.33	.83	.77
6	---	---	3.56	3.53	3.18	3.16	3.20	3.14	1.37	1.33	.95	.81
7	---	---	3.58	3.56	3.21	3.17	3.22	3.20	1.49	1.37	1.13	.95
8	---	---	3.61	3.58	3.26	3.21	3.22	3.14	1.52	1.49	1.19	1.13
9	---	---	3.61	3.59	3.31	3.26	3.14	3.13	1.50	1.45	1.19	1.08
10	---	---	3.59	3.33	3.31	3.31	3.14	3.13	1.64	1.43	1.28	1.15
11	---	---	3.37	3.33	3.33	3.30	3.15	3.14	1.72	1.64	1.37	1.28
12	2.65	2.60	3.41	3.37	3.40	3.27	3.20	3.15	1.76	1.71	1.42	1.24
13	2.70	2.65	3.45	3.41	3.42	3.38	3.24	3.20	1.71	1.52	1.24	.54
14	2.76	2.70	3.46	3.39	3.38	3.02	3.25	3.23	1.54	1.49	.75	.60
15	2.81	2.76	3.41	3.39	3.02	2.99	3.23	3.18	1.66	1.48	.79	.47
16	2.87	2.81	3.42	3.40	2.99	2.81	3.19	3.18	1.67	1.37	.51	.46
17	2.89	2.87	3.47	3.40	2.81	2.64	3.22	3.19	1.37	1.14	.61	.51
18	2.91	2.89	3.51	3.47	2.66	2.65	3.24	3.22	1.34	1.26	.77	.61
19	2.98	2.91	3.55	3.51	2.66	2.64	3.24	2.61	1.38	1.34	.90	.77
20	3.01	2.98	3.58	3.55	2.76	2.66	2.61	1.89	1.41	1.37	.95	.90
21	3.06	3.01	3.61	3.58	2.78	2.76	1.89	1.85	1.56	1.40	.94	.02
22	3.11	3.06	3.64	3.61	2.82	2.76	1.91	1.87	1.58	1.50	.02	+.03
23	3.14	3.11	3.68	3.64	2.84	2.82	1.91	1.87	1.60	1.51	.04	+.01
24	3.16	3.14	3.69	3.68	2.85	2.83	1.91	1.88	1.64	1.55	.10	.04
25	3.20	3.16	3.71	3.69	2.91	2.85	2.01	1.91	1.55	.92	.13	.10
26	3.22	3.20	3.69	2.97	2.92	2.91	2.04	1.98	1.11	.92	.15	.09
27	3.23	3.22	2.97	2.95	2.91	2.91	2.08	1.96	1.16	1.11	.15	.10
28	3.30	3.23	3.00	2.96	2.95	2.91	2.12	2.08	1.22	1.16	.18	.15
29	3.33	3.30	3.01	2.99	2.97	2.95	2.14	2.12	---	---	.20	.02
30	3.36	3.33	3.02	2.99	2.99	2.96	2.12	1.83	---	---	.02	+.14
31	3.39	3.36	---	---	3.06	2.99	1.97	1.83	---	---	+.10	+.12
MONTH	3.39	2.60	3.71	2.95	3.42	2.64	3.25	1.83	2.19	.92	1.49	+.14

GROUND-WATER LEVELS IN DELAWARE--Continued

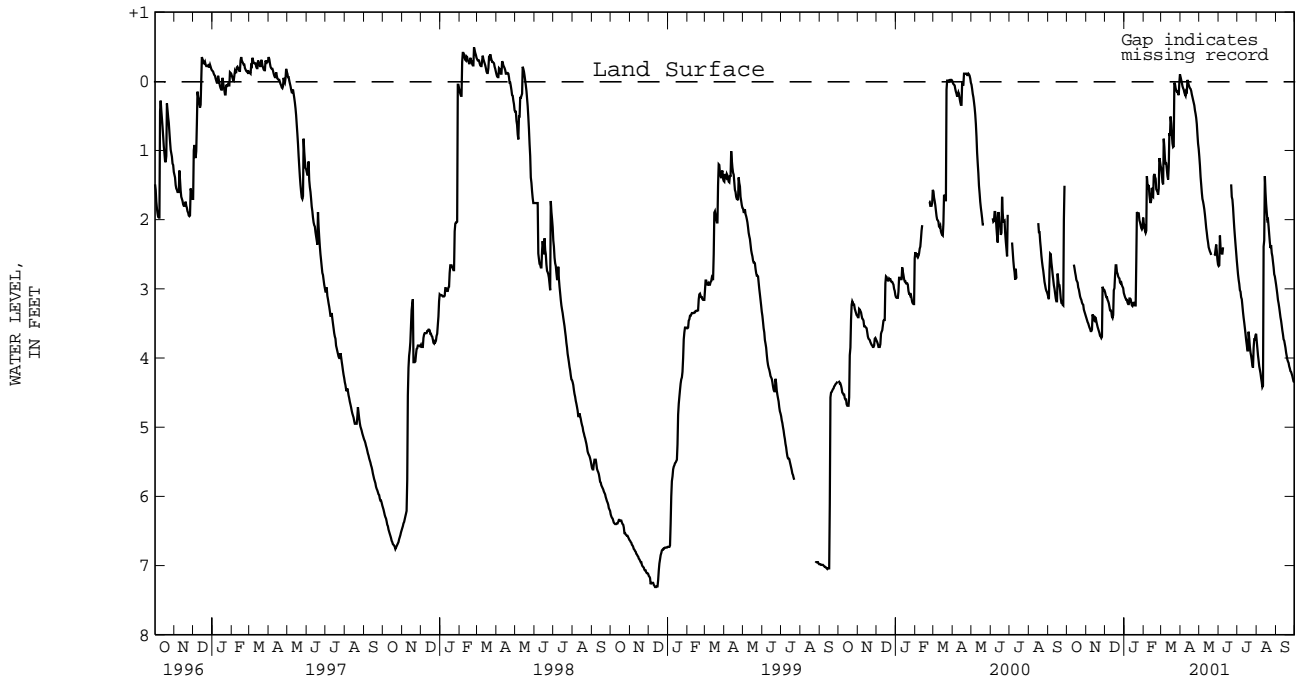
SUSSEX COUNTY---Continued

Of22-04--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	+0.06	+1.10	1.09	.98	2.67	2.64	2.69	2.59	3.76	3.65	2.94	2.87
2	+0.02	+0.06	1.22	1.09	2.66	2.14	2.79	2.68	3.86	3.76	3.01	2.94
3	.02	+0.02	1.38	1.22	2.23	2.10	2.87	2.79	3.96	3.86	3.08	3.01
4	.07	.02	1.49	1.38	2.40	2.23	2.93	2.87	4.04	3.96	3.16	3.08
5	.10	.07	1.61	1.49	2.46	2.36	3.02	2.93	4.12	4.04	3.21	3.15
6	.12	.10	1.70	1.61	2.49	2.41	3.04	2.90	4.17	4.12	3.27	3.21
7	.16	.12	1.74	1.70	2.49	2.39	3.12	3.04	4.22	4.17	3.34	3.27
8	.19	.16	1.79	1.74	2.40	2.39	3.15	3.12	4.29	4.22	3.41	3.34
9	.21	.10	1.85	1.79	---	---	3.24	3.14	4.35	4.29	3.46	3.41
10	.14	.09	1.93	1.85	---	---	3.34	3.24	4.42	4.35	3.53	3.46
11	.15	+0.02	2.02	1.93	---	---	3.42	3.33	4.40	2.39	3.60	3.53
12	+0.02	+0.02	2.12	2.02	---	---	3.49	3.42	2.39	2.30	3.66	3.60
13	.01	+0.02	2.19	2.12	---	---	3.57	3.49	2.30	1.22	3.73	3.66
14	.05	.01	2.27	2.19	---	---	3.65	3.57	1.37	1.19	3.75	3.73
15	.08	.05	2.33	2.27	---	---	3.74	3.65	1.60	1.37	3.80	3.75
16	.10	.05	2.40	2.33	---	---	3.81	3.74	1.77	1.60	3.85	3.80
17	.11	.08	2.43	2.40	---	---	3.89	3.81	1.89	1.76	3.92	3.85
18	.14	.10	2.46	2.43	---	---	3.89	3.62	2.01	1.88	3.97	3.92
19	.19	.14	2.48	2.45	---	---	3.62	3.60	2.00	1.91	4.02	3.97
20	.23	.19	2.51	2.48	---	---	3.72	3.61	2.10	1.99	4.05	4.02
21	.27	.23	---	---	1.49	1.34	3.84	3.72	2.22	2.10	4.07	4.05
22	.31	.27	---	---	1.67	1.48	3.92	3.84	2.33	2.21	4.12	4.07
23	.35	.31	---	---	1.71	1.65	3.97	3.92	2.41	2.30	4.15	4.12
24	.42	.35	---	---	1.82	1.68	4.03	3.97	2.37	2.20	4.19	4.15
25	.47	.40	2.52	2.45	1.98	1.82	4.11	4.03	2.48	2.37	4.20	4.19
26	.53	.47	2.51	2.43	2.12	1.98	4.14	3.85	2.53	2.47	4.23	4.20
27	.62	.53	2.43	2.15	2.24	2.12	3.85	3.69	2.61	2.52	4.26	4.23
28	.77	.62	2.36	2.24	2.36	2.23	3.73	3.69	2.69	2.60	4.30	4.26
29	.90	.77	2.45	2.36	2.47	2.35	3.73	3.67	2.79	2.69	4.34	4.30
30	.98	.90	2.58	2.45	2.59	2.47	3.67	3.59	2.82	2.78	4.35	4.34
31	---	---	2.65	2.58	---	---	3.65	3.59	2.88	2.81	---	---
MONTH	.98	+1.10	2.65	.98	2.67	1.34	4.14	2.59	4.42	1.19	4.35	2.87
YEAR	4.42	+1.14										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## SUSSEX COUNTY---Continued

WELL NUMBER.--Of22-11. SITE ID.--384341075230001. PERMIT NUMBER.--95795.

LOCATION.--Lat 38°43'44", long 75°23'01", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 16 ft; casing diameter 2 in., to 13 ft; screen diameter 2 in. from 13 to 16 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 47.92 ft above sea level.

Measuring Point: Top of recorder platform, 2.70 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.53 ft above land surface, March 3, 1994;

lowest measured, 7.52 ft below land surface, Sept. 15, 1999.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.54	3.54	3.74	3.71	3.86	3.86	3.75	3.75	---	---	1.68	1.68
2	3.54	3.54	3.77	3.74	3.86	3.85	3.75	3.74	---	---	1.77	1.68
3	3.54	3.54	3.81	3.77	3.85	3.85	3.74	3.74	---	---	1.87	1.77
4	3.55	3.54	3.82	3.81	3.85	3.85	3.74	3.74	---	---	1.91	1.26
5	3.55	3.55	3.85	3.82	3.85	3.84	3.74	3.73	---	---	1.27	1.21
6	3.64	3.55	3.88	3.85	3.84	3.84	3.73	3.73	---	---	1.41	1.26
7	3.73	3.64	3.92	3.88	3.84	3.84	3.73	3.73	---	---	1.59	1.41
8	3.79	3.73	3.97	3.92	3.84	3.83	3.73	3.72	---	---	1.62	1.59
9	3.82	3.79	3.97	3.96	3.83	3.83	3.72	3.72	---	---	1.62	1.52
10	3.87	3.82	3.96	3.95	3.83	3.83	3.72	3.72	---	---	1.71	1.60
11	3.90	2.88	3.95	3.95	3.83	3.82	3.72	3.71	---	---	1.79	1.69
12	2.97	2.92	3.95	3.94	3.82	3.82	3.71	3.71	---	---	1.82	1.69
13	3.01	2.97	3.94	3.94	3.82	3.81	3.71	3.71	---	---	1.69	.86
14	3.06	3.01	3.94	3.94	3.81	3.81	3.71	3.70	---	---	1.25	1.05
15	3.11	3.06	3.94	3.93	3.81	3.81	3.70	3.70	---	---	1.29	.80
16	3.17	3.11	3.93	3.93	3.81	3.80	3.70	3.69	---	---	.94	.80
17	3.19	3.17	3.93	3.93	3.80	3.80	3.69	3.69	---	---	1.09	.94
18	3.21	3.19	3.94	3.92	3.80	3.80	3.69	3.68	---	---	1.28	1.09
19	3.28	3.21	3.95	3.93	3.80	3.79	3.68	3.31	---	---	1.36	1.28
20	3.32	3.28	3.97	3.94	3.79	3.79	---	---	---	---	1.40	1.36
21	3.36	3.32	3.98	3.96	3.79	3.79	---	---	2.01	1.82	1.39	.00
22	3.42	3.36	4.00	3.98	3.79	3.78	---	---	2.01	2.01	.24	.07
23	3.44	3.42	4.04	4.00	3.78	3.78	---	---	2.02	1.98	.44	.24
24	3.46	3.44	4.06	4.04	3.78	3.78	---	---	2.05	1.98	.60	.44
25	3.50	3.46	4.07	4.06	3.78	3.77	---	---	2.00	1.69	.66	.60
26	3.54	3.50	4.06	3.87	3.77	3.77	---	---	1.69	1.69	.71	.41
27	3.54	3.54	3.87	3.87	3.77	3.77	---	---	1.69	1.69	.73	.57
28	3.61	3.54	3.87	3.87	3.77	3.76	---	---	1.69	1.68	.80	.73
29	3.64	3.61	3.87	3.86	3.76	3.76	---	---	---	---	.81	.60
30	3.66	3.64	3.86	3.86	3.76	3.75	---	---	---	---	.60	.60
31	3.71	3.66	---	---	3.75	3.75	---	---	---	---	.60	.60
MONTH	3.90	2.88	4.07	3.71	3.86	3.75	3.75	3.31	2.05	1.68	1.91	.00

GROUND-WATER LEVELS IN DELAWARE--Continued

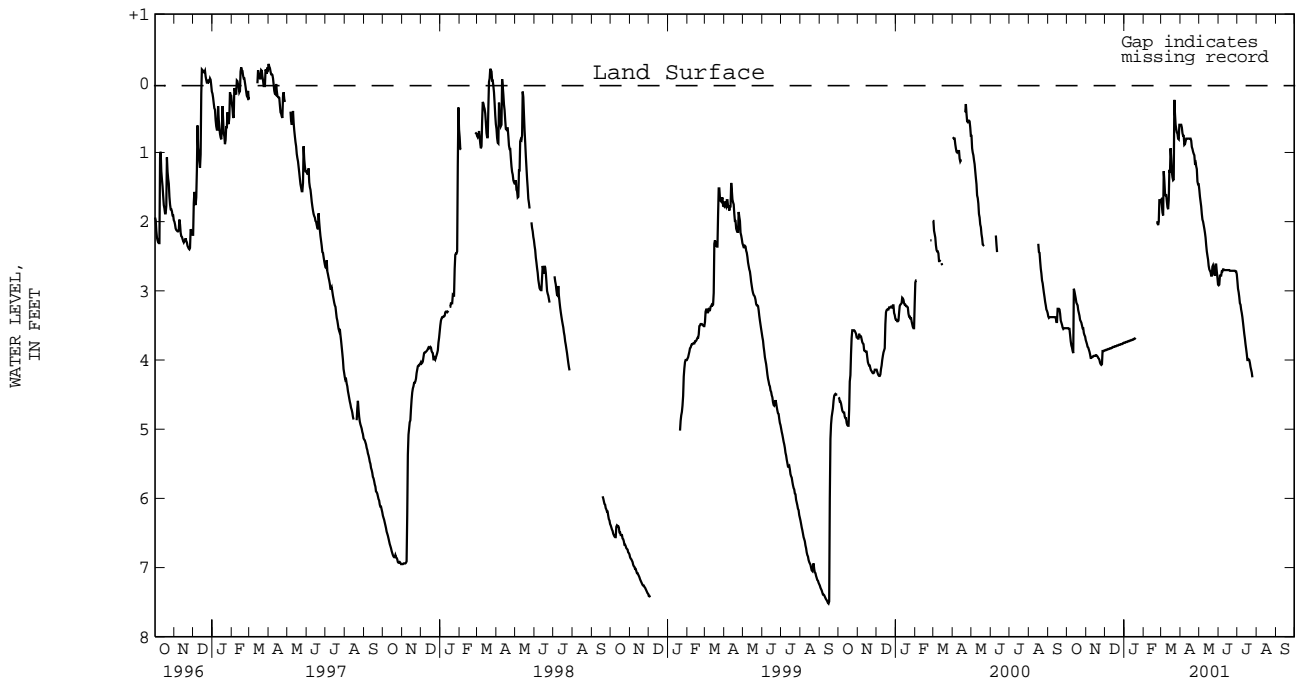
SUSSEX COUNTY---Continued

Of22-11--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	.60	.60	1.54	1.46	2.92	2.91	2.86	2.76	---	---	---	---
2	.60	.60	1.64	1.54	2.91	2.78	2.97	2.86	---	---	---	---
3	.64	.60	1.71	1.64	2.78	2.78	3.02	2.97	---	---	---	---
4	.72	.64	1.78	1.70	2.78	2.78	3.09	3.02	---	---	---	---
5	.76	.72	1.89	1.77	2.78	2.64	3.18	3.09	---	---	---	---
6	.76	.73	1.97	1.89	2.72	2.69	3.20	3.17	---	---	---	---
7	.89	.74	2.00	1.97	2.72	2.69	3.27	3.20	---	---	---	---
8	.88	.82	2.05	2.00	2.69	2.69	3.32	3.27	---	---	---	---
9	.84	.80	2.10	2.05	2.69	2.69	3.38	3.32	---	---	---	---
10	.80	.80	2.16	2.10	2.70	2.69	3.46	3.38	---	---	---	---
11	.80	.80	2.23	2.16	2.70	2.70	3.54	3.46	---	---	---	---
12	.80	.80	2.34	2.23	2.70	2.70	3.62	3.54	---	---	---	---
13	.80	.80	2.43	2.34	2.70	2.70	3.69	3.62	---	---	---	---
14	.80	.80	2.49	2.43	2.70	2.70	3.77	3.69	---	---	---	---
15	.80	.80	2.55	2.49	2.70	2.70	3.84	3.77	---	---	---	---
16	.80	.80	2.64	2.55	2.70	2.70	3.91	3.84	---	---	---	---
17	.80	.80	2.69	2.64	2.70	2.70	4.00	3.91	---	---	---	---
18	.83	.80	2.71	2.69	2.70	2.70	4.00	3.98	---	---	---	---
19	.92	.83	2.73	2.71	2.71	2.70	3.99	3.98	---	---	---	---
20	.95	.92	2.78	2.73	2.71	2.71	4.00	3.99	---	---	---	---
21	.99	.95	2.78	2.64	2.71	2.71	4.04	4.00	---	---	---	---
22	1.02	.99	2.65	2.63	2.71	2.71	4.10	4.04	---	---	---	---
23	1.04	1.02	2.63	2.63	2.71	2.71	4.14	4.10	---	---	---	---
24	1.15	1.03	2.67	2.63	2.71	2.71	4.18	4.14	---	---	---	---
25	1.14	1.04	2.76	2.67	2.71	2.71	4.25	4.18	---	---	---	---
26	1.20	1.14	2.78	2.62	2.71	2.71	---	---	---	---	---	---
27	1.24	1.20	2.62	2.62	2.71	2.71	---	---	---	---	---	---
28	1.42	1.24	2.62	2.62	2.72	2.71	---	---	---	---	---	---
29	1.46	1.42	2.72	2.62	2.72	2.72	---	---	---	---	---	---
30	1.46	1.46	2.81	2.72	2.76	2.72	---	---	---	---	---	---
31	---	---	2.91	2.81	---	---	---	---	---	---	---	---
MONTH	1.46	.60	2.91	1.46	2.92	2.64	4.25	2.76	---	---	---	---
YEAR	4.25	.00										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-03. SITE ID.--384333075222901. PERMIT NUMBER.--95793.  
 LOCATION.--Lat 38°43'33", long 75°22'29", Hydrologic Unit 02040207, near Redden State Forest.  
 Owner: Delaware Department of Transportation.  
 AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20 ft; casing diameter 2 in., to 17 ft; screen diameter 2 in. from 17 to 20 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.  
 DATUM.--Altitude of land surface is 51.40 ft above sea level.  
 Measuring Point: Top of recorder platform, 3.20 ft above land surface.  
 REMARKS.--Delaware Department of Transportation Wetlands Project observation well.  
 Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.  
 PERIOD OF RECORD.--September 1993 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.34 ft below land surface, April 1, 1994;  
 lowest measured, 12.31 ft below land surface, Sept. 14, 15, 1999.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.05	7.05	8.74	8.70	8.82	8.81	8.69	8.65	7.68	7.64	---	---
2	7.07	7.05	8.75	8.74	8.83	8.82	8.73	8.69	7.68	7.60	---	---
3	7.19	7.07	8.79	8.74	8.83	8.83	8.74	8.73	7.75	7.67	---	---
4	7.24	7.19	8.82	8.79	8.83	8.82	8.75	8.74	7.76	7.72	7.09	6.97
5	7.30	7.24	8.85	8.81	8.83	8.80	8.75	8.72	7.72	7.52	6.97	6.95
6	7.42	7.30	8.86	8.85	8.85	8.83	8.82	8.73	7.53	7.42	6.95	6.90
7	7.51	7.42	8.89	8.86	8.86	8.83	8.85	8.82	7.42	7.38	6.98	6.95
8	7.57	7.51	9.00	8.89	8.91	8.86	8.86	8.84	7.38	7.28	6.99	6.97
9	7.63	7.57	9.00	8.99	8.97	8.91	8.87	8.85	7.28	7.16	6.97	6.93
10	7.70	7.63	8.99	8.95	8.97	8.97	8.92	8.87	7.28	7.14	6.97	6.94
11	7.77	7.70	9.00	8.97	8.97	8.95	8.92	8.91	7.32	7.28	7.02	6.97
12	7.82	7.77	9.01	9.00	9.06	8.90	8.94	8.91	7.31	7.24	7.06	6.94
13	7.86	7.82	9.04	9.01	9.11	9.06	8.97	8.94	7.24	7.21	6.94	6.78
14	7.89	7.86	9.04	9.02	9.06	8.98	8.97	8.97	7.22	7.15	6.79	6.79
15	7.95	7.89	9.07	9.03	8.99	8.94	8.97	8.96	7.25	7.14	6.79	6.70
16	8.03	7.95	9.07	9.04	8.94	8.79	8.97	8.96	7.25	7.19	6.70	6.63
17	8.05	8.03	9.10	9.04	8.79	8.63	8.98	8.97	7.21	7.16	6.63	6.61
18	8.08	8.05	9.12	9.10	8.71	8.65	8.99	8.98	7.21	7.16	6.62	6.61
19	8.16	8.08	9.13	9.12	8.65	8.54	8.99	8.84	7.16	7.13	6.63	6.62
20	8.29	8.16	9.15	9.12	8.59	8.54	8.84	8.45	7.13	7.11	6.63	6.62
21	8.29	8.28	9.18	9.15	8.58	8.52	8.45	8.27	7.20	7.11	6.62	6.05
22	8.41	8.29	9.20	9.18	8.52	8.48	8.27	8.04	7.20	7.10	6.05	5.76
23	8.43	8.40	9.23	9.20	8.52	8.52	8.04	7.80	7.22	7.11	5.76	5.72
24	8.45	8.43	9.25	9.23	8.52	8.47	7.80	7.72	7.27	7.22	5.81	5.72
25	8.50	8.45	9.27	9.25	8.53	8.48	7.72	7.70	7.22	7.04	5.83	5.81
26	8.52	8.50	9.25	9.02	8.53	8.51	7.71	7.63	7.07	7.04	5.86	5.83
27	8.54	8.52	9.02	8.92	8.51	8.50	7.66	7.62	7.07	7.03	5.91	5.85
28	8.59	8.53	8.92	8.88	8.52	8.50	7.68	7.66	7.03	7.02	5.94	5.91
29	8.62	8.59	8.88	8.80	8.54	8.52	7.69	7.68	---	---	5.96	5.87
30	8.68	8.62	8.82	8.80	8.56	8.53	7.68	7.54	---	---	5.87	5.67
31	8.71	8.68	---	---	8.65	8.56	7.64	7.55	---	---	5.67	5.62
MONTH	8.71	7.05	9.27	8.70	9.11	8.47	8.99	7.54	7.76	7.02	7.09	5.62

GROUND-WATER LEVELS IN DELAWARE--Continued

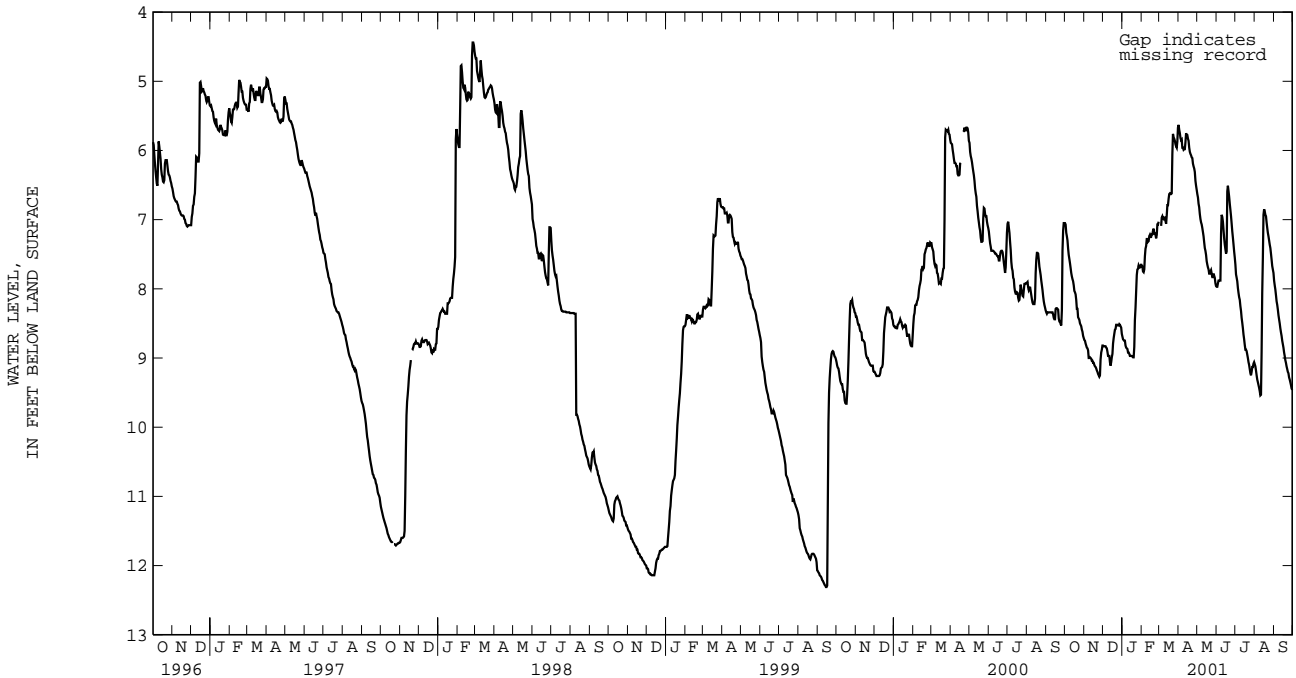
SUSSEX COUNTY--Continued

Of23-03--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.63	5.61	6.63	6.56	7.97	7.96	7.65	7.55	9.09	9.06	7.88	7.77
2	5.70	5.63	6.68	6.63	7.97	7.92	7.79	7.65	9.12	9.09	7.95	7.88
3	5.75	5.70	6.77	6.68	7.92	7.87	7.84	7.79	9.18	9.12	8.01	7.95
4	5.82	5.75	6.82	6.77	7.88	7.87	7.89	7.84	9.25	9.18	8.09	8.01
5	5.85	5.82	6.92	6.81	7.88	7.87	7.99	7.89	9.31	9.25	8.18	8.09
6	5.84	5.81	6.99	6.92	7.88	7.87	8.06	7.98	9.35	9.31	8.23	8.18
7	5.96	5.84	7.04	6.99	7.88	7.20	8.12	8.06	9.39	9.35	8.30	8.23
8	5.96	5.94	7.07	7.04	7.20	6.93	8.16	8.12	9.43	9.39	8.38	8.30
9	5.99	5.93	7.12	7.07	6.93	6.90	8.25	8.16	9.48	9.43	8.44	8.38
10	5.98	5.95	7.18	7.12	6.96	6.90	8.32	8.25	9.54	9.48	8.50	8.44
11	5.98	5.88	7.24	7.18	7.03	6.96	8.42	8.32	9.53	8.91	8.57	8.50
12	5.88	5.75	7.33	7.24	7.15	7.03	8.49	8.42	8.91	8.06	8.63	8.57
13	5.75	5.74	7.41	7.33	7.27	7.15	8.57	8.49	8.06	7.55	8.68	8.63
14	5.78	5.75	7.45	7.41	7.36	7.27	8.66	8.57	7.55	6.93	8.75	8.68
15	5.78	5.74	7.51	7.45	7.43	7.36	8.73	8.66	6.93	6.85	8.80	8.75
16	5.83	5.74	7.60	7.51	7.49	7.43	8.81	8.73	6.85	6.84	8.85	8.80
17	5.86	5.83	7.65	7.60	7.46	6.59	8.88	8.81	6.88	6.84	8.92	8.85
18	5.96	5.84	7.69	7.64	6.59	6.48	8.88	8.87	6.93	6.88	8.97	8.92
19	6.02	5.96	7.72	7.68	6.51	6.48	8.90	8.87	6.95	6.91	9.03	8.97
20	6.05	6.02	7.78	7.72	6.59	6.51	8.95	8.90	7.04	6.95	9.07	9.03
21	6.07	6.04	7.78	7.74	6.67	6.59	9.00	8.95	7.12	7.04	9.12	9.07
22	6.10	6.07	7.75	7.71	6.77	6.67	9.06	9.00	7.19	7.12	9.16	9.12
23	6.11	6.10	7.73	7.71	6.86	6.77	9.10	9.06	7.24	7.19	9.20	9.16
24	6.19	6.11	7.78	7.73	6.95	6.86	9.16	9.10	7.30	7.24	9.22	9.20
25	6.23	6.19	7.83	7.78	7.06	6.95	9.22	9.16	7.36	7.30	9.28	9.22
26	6.26	6.22	7.83	7.78	7.17	7.06	9.25	9.20	7.41	7.36	9.31	9.28
27	6.31	6.26	7.78	7.74	7.26	7.17	9.20	9.13	7.49	7.41	9.35	9.31
28	6.44	6.31	7.81	7.76	7.36	7.26	9.13	9.12	7.58	7.49	9.39	9.35
29	6.51	6.44	7.84	7.81	7.46	7.36	9.13	9.08	7.67	7.58	9.44	9.39
30	6.57	6.51	7.92	7.84	7.55	7.46	9.08	9.05	7.72	7.67	9.46	9.44
31	---	---	7.96	7.92	---	---	9.06	9.05	7.77	7.72	---	---
MONTH	6.57	5.61	7.96	6.56	7.97	6.48	9.25	7.55	9.54	6.84	9.46	7.77
YEAR	9.54	5.61										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## SUSSEX COUNTY--Continued

WELL NUMBER.-- Of23-05. SITE ID.--384341075223801. PERMIT NUMBER.--95794.

LOCATION.--Lat 38°43'41", long 75°22'38", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 18 ft; casing diameter 2 in., to 15 ft; screen diameter 2 in. from 15 to 18 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1998 to current year.

DATUM.--Elevation of land surface is 46.49 ft above sea level. Prior to July 2, 1998, (due to excavation of material during construction of artificial wetland), the elevation of land surface was 50.13 ft above sea level.

Measuring Point: Top of recorder platform, 3.30 ft above land surface. Prior to July 2, 1998, (due to excavation of material during construction of artificial wetland), the measuring point was 1.83 ft above land surface.

REMARKS.--Delaware Department of Transportation Project observation well.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.02 ft above land surface, March 28, 2000; lowest measured, 9.95 ft below land surface, Oct. 19, 1995.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.40	1.36	3.33	3.26	3.09	3.03	3.26	3.19	2.01	1.94	1.29	1.22
2	1.45	1.36	3.36	3.32	3.15	3.08	3.26	3.21	2.01	1.69	1.38	1.24
3	1.62	1.45	3.40	3.34	3.16	3.09	3.26	3.12	2.11	2.01	1.50	1.38
4	1.64	1.55	3.36	3.32	3.12	3.06	3.23	3.09	2.08	1.90	1.50	1.18
5	1.69	1.64	3.46	3.34	3.20	3.00	3.23	2.99	1.90	1.59	1.24	1.12
6	1.87	1.63	3.51	3.45	3.26	3.10	3.39	3.12	1.72	1.55	1.34	1.09
7	1.98	1.87	3.53	3.47	3.26	3.06	3.38	3.32	1.69	1.60	1.43	1.34
8	2.02	1.97	3.57	3.50	3.38	3.18	3.35	3.24	1.64	1.42	1.43	1.29
9	2.11	2.01	3.54	3.39	3.47	3.38	3.39	3.29	1.42	1.25	1.32	1.21
10	2.24	2.10	3.47	3.33	3.42	3.26	3.41	3.29	1.71	1.23	1.39	1.32
11	2.33	2.24	3.52	3.46	3.33	3.12	3.33	3.24	1.76	1.67	1.47	1.28
12	2.40	2.33	3.52	3.48	3.63	3.02	3.39	3.30	1.70	1.48	1.50	1.09
13	2.41	2.35	3.52	3.46	3.64	3.31	3.42	3.36	1.54	1.46	1.09	.91
14	2.42	2.38	3.50	3.40	3.31	3.17	3.37	3.26	1.53	1.28	1.18	1.07
15	2.50	2.41	3.59	3.50	3.29	3.05	3.26	3.16	1.65	1.28	1.16	.93
16	2.60	2.50	3.59	3.40	3.05	2.65	3.28	3.15	1.63	1.38	1.04	.89
17	2.64	2.57	3.66	3.40	2.82	2.37	3.28	3.21	1.63	1.36	1.00	.91
18	2.62	2.51	3.69	3.57	2.87	2.63	3.24	3.14	1.63	1.45	1.11	.99
19	2.79	2.62	3.67	3.57	2.63	2.42	3.14	2.83	1.48	1.32	1.12	1.04
20	2.86	2.77	3.67	3.51	2.86	2.45	2.83	2.27	1.39	1.32	1.08	.95
21	2.86	2.77	3.74	3.64	2.83	2.61	2.47	2.27	1.68	1.32	.95	.38
22	3.01	2.86	3.76	3.68	2.86	2.54	2.30	1.99	1.68	1.30	.38	.25
23	3.03	2.97	3.82	3.76	2.89	2.76	1.99	1.76	1.66	1.35	.36	.23
24	2.97	2.92	3.84	3.79	2.76	2.60	1.86	1.78	1.73	1.46	.47	.20
25	3.04	2.94	3.82	3.60	2.95	2.76	2.01	1.84	1.46	1.13	.48	.38
26	3.07	3.03	3.60	3.15	2.94	2.78	2.01	1.72	1.40	1.17	.50	.38
27	3.03	2.92	3.15	3.01	2.85	2.76	2.06	1.67	1.38	1.17	.52	.45
28	3.24	2.94	3.07	3.00	2.94	2.80	2.08	1.96	1.28	1.20	.54	.45
29	3.24	3.07	3.07	2.86	3.01	2.93	2.02	1.83	---	---	.53	.25
30	3.25	3.18	3.09	2.85	3.03	2.85	1.83	1.52	---	---	.25	.06
31	3.30	3.25	---	---	3.23	3.03	1.97	1.71	---	---	.19	.11
MONTH	3.30	1.36	3.84	2.85	3.64	2.37	3.42	1.52	2.11	1.13	1.50	.06

GROUND-WATER LEVELS IN DELAWARE--Continued

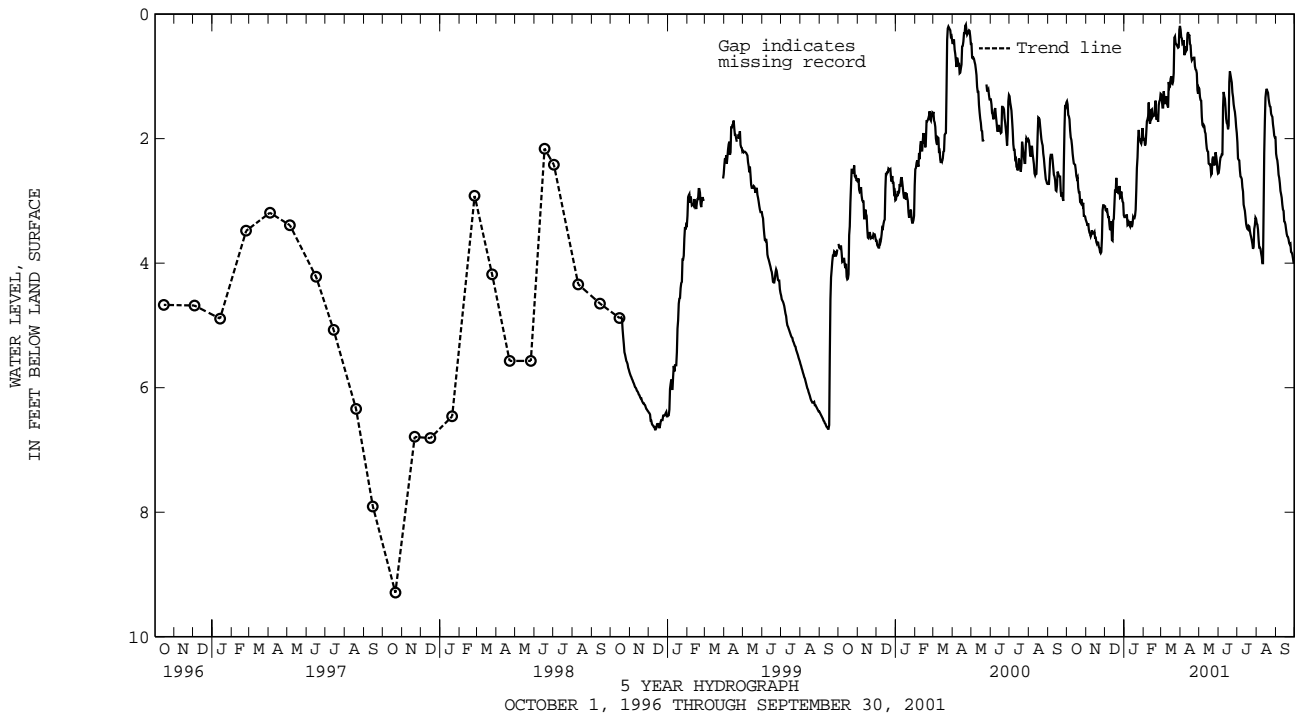
SUSSEX COUNTY--Continued

Of23-05--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	.25	.10	1.20	1.10	2.55	2.42	2.06	1.91	3.36	3.29	2.24	1.98
2	.37	.25	1.33	1.20	2.48	2.37	2.32	2.06	3.38	3.35	2.31	2.24
3	.39	.28	1.38	1.33	2.37	2.22	2.34	2.27	3.46	3.37	2.35	2.31
4	.48	.39	1.39	1.37	2.30	2.25	2.35	2.29	3.63	3.46	2.44	2.35
5	.47	.38	1.65	1.38	2.29	2.24	2.51	2.35	3.75	3.63	2.58	2.43
6	.42	.26	1.78	1.65	2.25	2.24	2.61	2.47	3.75	3.73	2.63	2.58
7	.66	.39	1.80	1.77	2.25	1.49	2.62	2.57	3.77	3.75	2.72	2.62
8	.59	.44	1.78	1.75	1.49	1.25	2.65	2.56	3.84	3.77	2.84	2.72
9	.52	.37	1.80	1.76	1.25	1.22	2.78	2.65	3.90	3.84	2.89	2.84
10	.59	.47	1.89	1.80	1.32	1.23	2.85	2.78	4.00	3.90	2.95	2.87
11	.57	.32	1.92	1.87	1.36	1.32	3.06	2.82	4.00	3.14	3.06	2.95
12	.32	.11	2.06	1.91	1.50	1.36	3.11	3.06	3.14	2.23	3.14	3.06
13	.29	.13	2.16	2.06	1.68	1.50	3.16	3.11	2.23	1.72	3.16	3.12
14	.36	.28	2.20	2.15	1.75	1.68	3.26	3.15	1.72	1.34	3.33	3.16
15	.33	.21	2.21	2.12	1.77	1.75	3.37	3.26	1.34	1.23	3.34	3.28
16	.48	.23	2.40	2.21	1.85	1.77	3.42	3.37	1.24	1.17	3.38	3.33
17	.50	.40	2.41	2.37	1.79	1.09	3.45	3.42	1.20	1.14	3.46	3.38
18	.68	.42	2.41	2.37	1.09	.90	3.46	3.40	1.24	1.18	3.53	3.45
19	.74	.65	2.45	2.37	.92	.85	3.40	3.37	1.26	1.19	3.57	3.53
20	.72	.64	2.58	2.45	.98	.87	3.41	3.39	1.36	1.25	3.58	3.56
21	.72	.66	2.56	2.33	1.04	.96	3.48	3.41	1.43	1.36	3.62	3.58
22	.70	.65	2.33	2.26	1.10	1.02	3.54	3.48	1.48	1.43	3.68	3.62
23	.70	.62	2.29	2.20	1.26	1.09	3.58	3.54	1.49	1.45	3.70	3.68
24	.84	.62	2.35	2.24	1.33	1.25	3.63	3.58	1.60	1.47	3.69	3.61
25	.89	.83	2.43	2.35	1.45	1.33	3.69	3.63	1.63	1.59	3.82	3.61
26	.90	.85	2.39	2.22	1.52	1.45	3.77	3.68	1.65	1.59	3.83	3.76
27	.95	.85	2.22	2.09	1.57	1.50	3.74	3.45	1.77	1.63	3.86	3.79
28	1.22	.95	2.28	2.16	1.67	1.56	3.45	3.38	1.85	1.75	3.92	3.86
29	1.28	1.15	2.36	2.28	1.81	1.67	3.39	3.27	1.95	1.85	3.99	3.92
30	1.18	1.07	2.50	2.36	1.91	1.80	3.27	3.20	1.98	1.93	3.99	3.95
31	---	---	2.56	2.50	---	---	3.29	3.22	1.98	1.93	---	---
MONTH	1.28	.10	2.58	1.10	2.55	.85	3.77	1.91	4.00	1.14	3.99	1.98
YEAR	4.00	.06										

Daily Low Water Levels





## SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-11. SITE ID.--384345075225101. PERMIT NUMBER.--159964.

LOCATION.--Lat 38°43'45", long 75°22'50", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 2 in., to 16 ft; screen diameter 2 in. from 16 to 19 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from October 15, 1998 to current year.

DATUM.--Altitude of land surface is 46.64 ft above sea level.

Measuring Point: Top of recorder platform, 3.60 ft above land surface.

REMARKS.--Delaware Department of Transportation wetlands project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.26 ft above land surface April 22, 2000;

lowest measured, 6.92 ft, Sept. 14, 15, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.51	1.51	3.13	3.10	2.96	2.96	3.01	2.99	1.99	1.92	1.23	1.19
2	1.58	1.51	3.18	3.13	2.96	2.96	3.06	3.01	2.00	1.89	1.25	1.20
3	1.71	1.58	3.17	3.17	2.97	2.96	3.06	3.02	2.04	2.00	1.36	1.25
4	1.74	1.71	3.17	3.17	2.97	2.96	3.03	3.02	2.03	2.02	1.41	1.14
5	1.74	1.74	3.26	3.17	3.06	2.96	3.03	2.95	2.02	1.64	1.14	1.03
6	1.87	1.74	3.29	3.26	3.10	3.05	3.16	2.97	1.64	1.50	1.14	.99
7	1.97	1.87	3.30	3.29	3.08	3.05	3.16	3.16	1.51	1.50	1.20	1.14
8	2.01	1.97	3.37	3.30	3.15	3.07	3.16	3.13	1.51	1.48	1.21	1.19
9	2.09	2.01	3.37	3.37	3.26	3.15	3.18	3.14	1.48	1.37	1.19	1.15
10	2.13	2.09	3.37	3.36	3.25	3.19	3.20	3.14	1.61	1.35	1.25	1.19
11	2.25	2.13	3.36	3.35	3.20	3.19	3.19	3.12	1.67	1.61	1.34	1.24
12	2.25	2.24	3.35	3.35	3.38	3.04	3.20	3.13	1.65	1.64	1.38	1.21
13	2.25	2.25	3.35	3.35	3.41	3.26	3.22	3.20	1.64	1.64	1.21	.79
14	2.36	2.25	3.35	3.35	3.26	3.17	3.22	3.21	1.64	1.62	.91	.85
15	2.43	2.36	3.35	3.33	3.18	3.18	---	---	1.62	1.39	.91	.79
16	2.47	2.43	3.34	3.28	3.18	2.81	---	---	1.58	1.50	.79	.71
17	2.52	2.47	3.34	3.27	2.83	2.66	3.17	3.15	1.50	1.36	.80	.71
18	2.53	2.52	3.35	3.34	2.83	2.76	3.15	3.15	---	---	.91	.80
19	2.60	2.53	3.35	3.34	2.76	2.60	3.15	3.15	---	---	---	---
20	2.66	2.60	3.47	3.35	2.77	2.61	3.15	2.30	1.36	1.32	---	---
21	2.70	2.66	3.54	3.47	2.77	2.77	2.30	2.19	1.52	1.32	.87	.02
22	2.76	2.70	3.55	3.51	2.79	2.65	2.19	2.18	1.52	1.36	.02	+.14
23	2.82	2.76	3.57	3.52	2.81	2.77	2.18	2.17	1.51	1.38	.04	+.06
24	2.82	2.81	3.57	3.57	2.77	2.67	---	---	1.59	1.51	---	---
25	---	---	3.57	3.51	2.83	2.74	---	---	1.55	1.15	---	---
26	---	---	3.51	3.16	2.83	2.77	1.98	1.96	1.24	1.15	---	---
27	2.88	2.87	3.16	3.00	2.77	2.75	2.00	1.88	1.24	1.17	---	---
28	3.03	2.87	3.00	2.97	2.83	2.76	2.03	1.99	1.22	1.18	---	---
29	3.03	2.97	2.97	2.91	2.83	2.83	1.99	1.99	---	---	---	---
30	3.04	2.98	2.96	2.90	2.89	2.79	1.99	1.76	---	---	---	---
31	3.10	3.04	---	---	2.99	2.89	1.92	1.78	---	---	---	---
MONTH	3.10	1.51	3.57	2.90	3.41	2.60	3.22	1.76	2.04	1.15	1.41	+.14

GROUND-WATER LEVELS IN DELAWARE--Continued

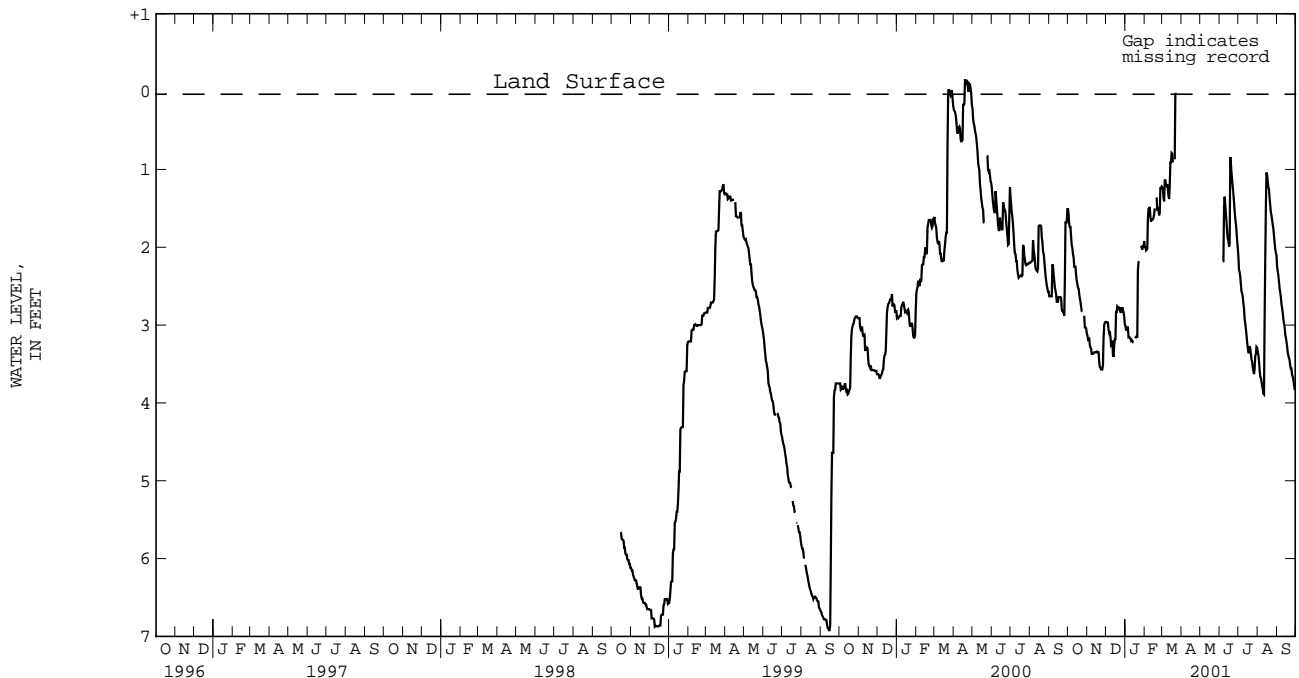
SUSSEX COUNTY--Continued

Of23-11--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	2.12	2.01	3.34	3.29	2.25	2.10
2	---	---	---	---	---	---	2.29	2.12	3.38	3.34	2.31	2.25
3	---	---	---	---	---	---	2.32	2.29	3.46	3.38	2.36	2.31
4	---	---	---	---	---	---	2.38	2.32	3.58	3.46	2.44	2.36
5	---	---	---	---	---	---	2.48	2.38	3.66	3.58	2.53	2.44
6	---	---	---	---	2.18	2.17	2.57	2.47	3.68	3.66	2.58	2.53
7	---	---	---	---	2.18	1.48	2.59	2.57	3.72	3.68	2.64	2.58
8	---	---	---	---	1.48	1.29	2.64	2.58	3.78	3.72	2.73	2.64
9	---	---	---	---	1.35	1.29	2.72	2.64	3.82	3.78	2.78	2.73
10	---	---	---	---	1.46	1.35	2.79	2.72	3.88	3.82	2.84	2.78
11	---	---	---	---	1.57	1.46	2.92	2.79	3.89	2.93	2.92	2.84
12	---	---	---	---	1.68	1.57	2.98	2.92	2.93	2.18	2.98	2.92
13	---	---	---	---	1.81	1.68	3.05	2.98	2.18	1.49	3.02	2.98
14	---	---	---	---	1.89	1.81	3.13	3.05	1.49	1.02	3.12	3.02
15	---	---	---	---	1.92	1.89	3.22	3.13	1.04	1.00	3.16	3.12
16	---	---	---	---	1.99	1.92	3.29	3.22	1.07	1.04	3.21	3.16
17	---	---	---	---	1.96	.81	3.35	3.29	1.15	1.07	3.27	3.21
18	---	---	---	---	.84	.79	3.35	3.27	1.23	1.15	3.35	3.27
19	---	---	---	---	.93	.84	3.27	3.26	1.25	1.21	3.39	3.35
20	---	---	---	---	1.05	.93	3.30	3.26	1.37	1.25	3.42	3.39
21	---	---	---	---	1.14	1.05	3.37	3.30	1.46	1.37	3.45	3.42
22	---	---	---	---	1.23	1.13	3.44	3.37	1.55	1.46	3.52	3.45
23	---	---	---	---	1.32	1.23	3.47	3.44	1.59	1.55	3.56	3.52
24	---	---	---	---	1.42	1.32	3.54	3.47	1.65	1.59	3.56	3.55
25	---	---	---	---	1.54	1.42	3.59	3.54	1.71	1.65	3.64	3.55
26	---	---	---	---	1.63	1.54	3.63	3.56	1.76	1.71	3.66	3.64
27	---	---	---	---	1.70	1.63	3.56	3.40	1.85	1.76	3.70	3.66
28	---	---	---	---	1.80	1.70	3.40	3.37	1.94	1.85	3.76	3.70
29	---	---	---	---	1.91	1.80	3.37	3.28	2.02	1.94	3.82	3.76
30	---	---	---	---	2.01	1.91	3.28	3.25	2.07	2.02	3.82	3.81
31	---	---	---	---	---	---	3.29	3.25	2.10	2.07	---	---
MONTH	---	---	---	---	2.18	.79	3.63	2.01	3.89	1.00	3.82	2.10
YEAR	3.89	+1.14										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Oh54-01. SITE ID.--384038075110001.

LOCATION.--Lat 38°40'38", long 75°11'00", Hydrologic Unit 02060010, at intersection of DE Rts 24 and 277, near Angola.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 290 ft; casing diameter 2 in., to 280 ft; screen diameter 2 in., from 280 to 290 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1977 to December 1979; twice yearly from March 1980 to October 1984. Monthly measurements by U.S. Geological Survey and Delaware Geological Survey personnel from February 1985 to July 1987.

DATUM.--Elevation of land surface is 18 ft above sea level, from topographic map.

Measuring Point: Top of steel casing, 1.5 ft above land surface.

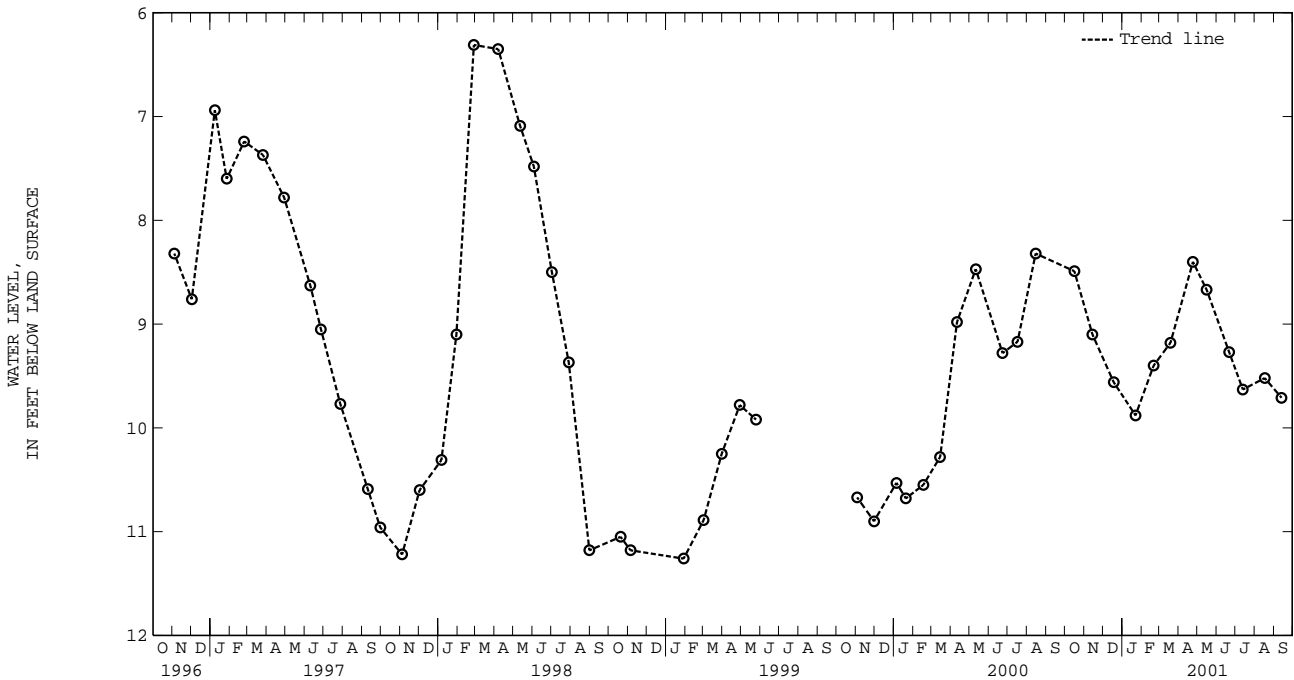
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.35 ft below land surface, April 4, 1984; lowest measured, 12.44 ft below land surface, Dec. 1, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		
OCT 16, 2000	8.49	JAN 22, 2001	9.88	APR 24, 2001	8.40	JUL 13, 2001	9.63		
NOV 14	9.10	FEB 20	9.40	MAY 16	8.67	AUG 17	9.52		
DEC 18	9.56	MAR 19	9.18	JUN 21	9.27	SEP 13	9.71		
WATER YEAR 2001 HIGHEST		8.40	APR 24, 2001		LOWEST		9.88	JAN 22, 2001	



SUSSEX COUNTY--Continued

WELL NUMBER.--Oh54-02. SITE ID.--384038075110002.

LOCATION.--Lat 38°40'38", long 75°11'00", Hydrologic Unit 02060010, at intersection of DE Rts. 24 and 277, near Angola.

Owner: U.S. Geological Survey.

AQUIFER.--Pocomoke aquifer of Upper Miocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 189 ft; casing diameter 2 in., to 179 ft; screen diameter 2 in., from 179 to 189 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1977 to December 1979; twice yearly from March 1980 to October 1984. Measured monthly by U.S. Geological Survey and Delaware Geological Survey personnel from February 1985 to July 1987.

DATUM.--Elevation of land surface is 18 ft above sea level, from topographic map.

Measuring Point: Top of steel casing, 1.5 ft above land surface.

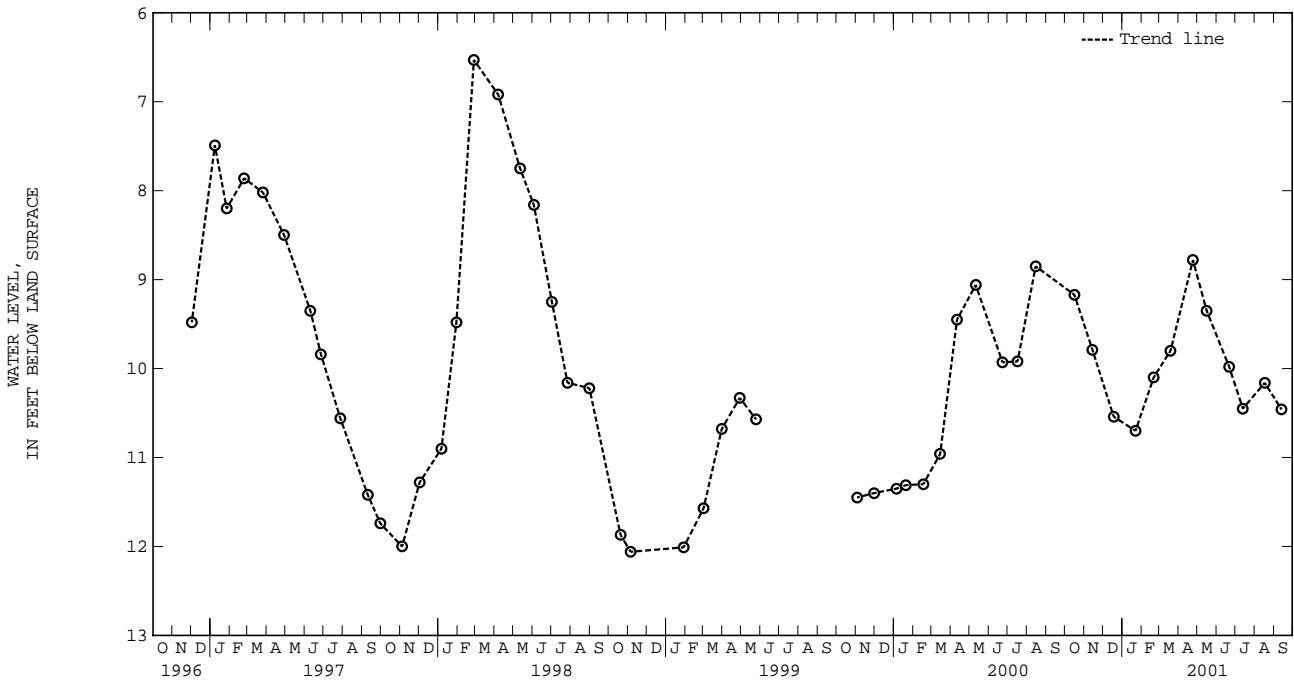
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.44 ft below land surface, April 2, 1979; lowest measured, 13.85 ft below land surface, Sept. 23, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	9.17	JAN 22, 2001	10.70	APR 24, 2001	8.78	JUL 13, 2001	10.45
NOV 14	9.79	FEB 20	10.10	MAY 16	9.35	AUG 17	10.16
DEC 18	10.54	MAR 19	9.80	JUN 21	9.98	SEP 13	10.46
WATER YEAR 2001 HIGHEST 8.78		APR 24, 2001		LOWEST 10.70		JAN 22, 2001	



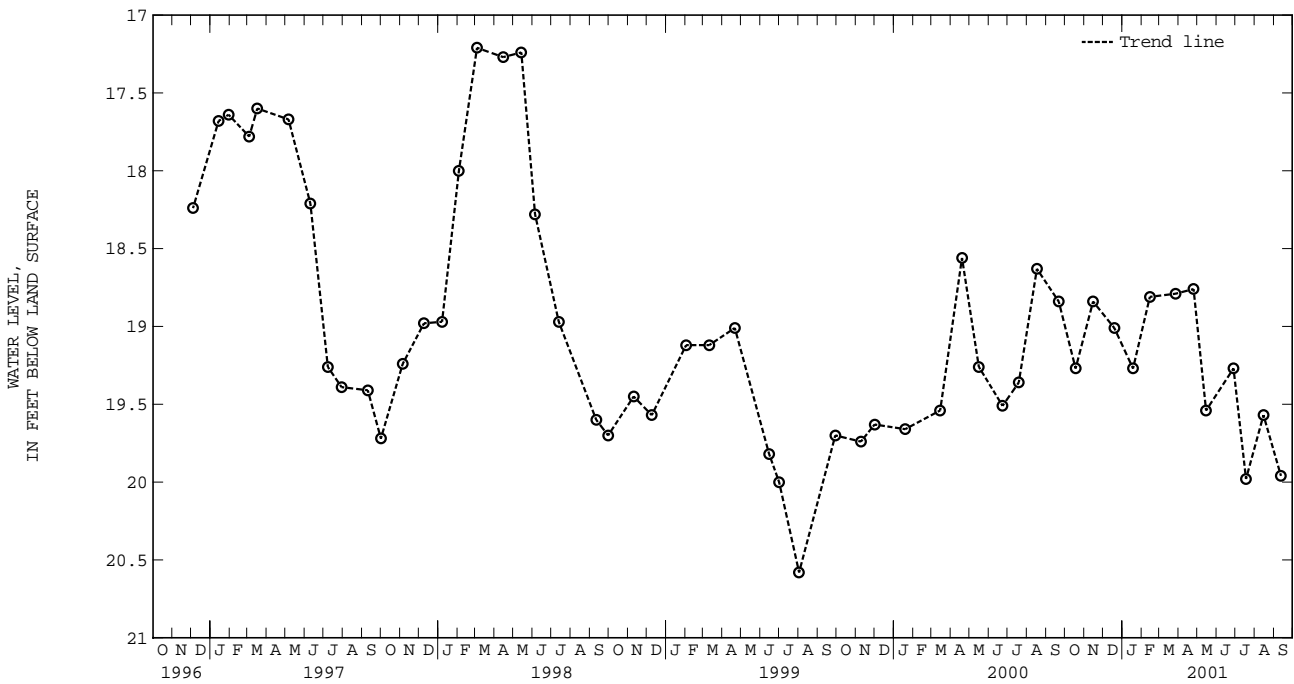
SUSSEX COUNTY--Continued

WELL NUMBER.--O124-06. SITE ID.--384258075063101. PERMIT NUMBER.--03489.  
 LOCATION.--Lat 38°42'58", long 75°06'31", Hydrologic Unit 02060010, nr DE Rt. 1, at Rehobeth Water Pumping Station.  
 Owner: City of Rehobeth.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 4 in., to 230 ft; screened 230 to 250 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Equipped with graphic water-level recorder from June 1976 to December 1979. Measured monthly January 1980 to December 1981.  
 DATUM.--Elevation of land surface is 25 ft above sea level.  
 Measuring Point: Top of casing, 0.70 ft above land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.--May 1976 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.90 ft below land surface, March 25, 1979.  
 lowest measured, 20.58 ft below land surface, August 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	19.27	JAN 18, 2001	19.27	APR 25, 2001	18.76	JUL 18, 2001	19.98
NOV 15	18.84	FEB 14	18.81	MAY 15	19.54	AUG 15	19.57
DEC 19	19.01	MAR 27	18.79	JUN 28	19.27	SEP 12	19.96

WATER YEAR 2001    HIGHEST 18.76 APR 25, 2001    LOWEST 19.98 JUL 18, 2001



SUSSEX COUNTY--Continued

WELL NUMBER.--Pf24-02. SITE ID.--383730075213501.

LOCATION.--Lat 38°37'30", long 75°21'35", Hydrologic Unit 02060010, nr DE Rt. 113, nr Stockley Hospital.

Owner: U.S. Geological Survey.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 49 ft; casing diameter 4 in., to 46 ft; screen diameter 4 in. from 46 to 49 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel from June 1998 to current year. Equipped with graphic water-level recorder from January 1970 to January 1982. Intermittent measurements from April 1982 to August 1987. Twice yearly measurements from February 1988 to April 1993.

DATUM.--Elevation of land surface is 50 ft above sea level.

Measuring Point: Top of casing, 3.00 ft above land surface.

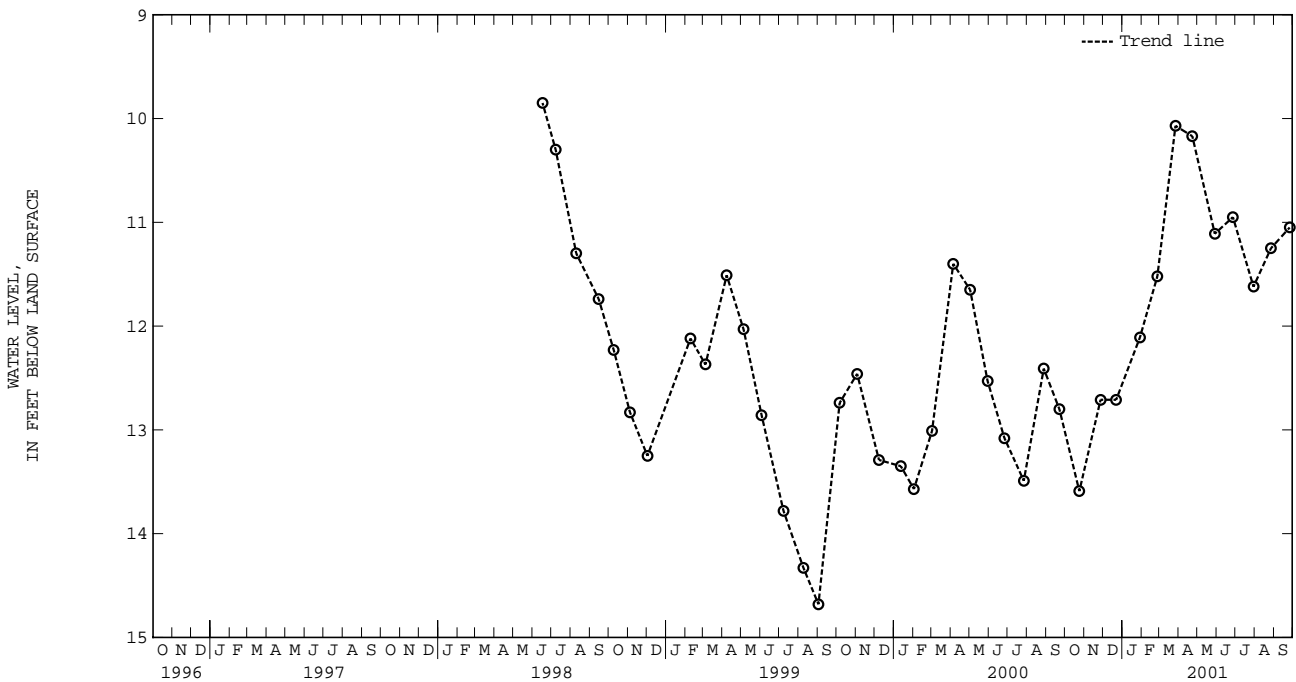
REMARKS.--Delaware Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

PERIOD OF RECORD.--January 1970 to April 1993, June 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.53 ft below land surface, March 10, 1979.  
lowest measured, 14.68 ft below land surface, September 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 2000	13.59	JAN 29, 2001	12.11	APR 23, 2001	10.17	JUL 30, 2001	11.62
NOV 27	12.71	FEB 26	11.52	MAY 29	11.11	AUG 27	11.25
DEC 22	12.71	MAR 27	10.07	JUN 27	10.95	SEP 26	11.05
WATER YEAR 2001 HIGHEST		10.07	MAR 27, 2001		LOWEST		13.59
						OCT 24, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Pf24-03. SITE ID.--383730075213502.

LOCATION.--Lat 38°37'30", long 75°21'35", Hydrologic Unit 02060010, nr DE Rt. 113, nr Stockley Hospital.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 178 ft; casing diameter 4 in., to 58 ft; casing diameter 2 in., to 168 ft; screen diameter 2 in., from 168 to 178 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from June 1998 to current year.

Weekly measurements from November 1976 to May 1977. Monthly measurements from June 1977 to December 1986. Intermittent measurements from February 1987 to November 1988. Twice yearly measurements from April 1989 to April 1993

DATUM.--Elevation of land surface is 50 ft above sea level.

Measuring Point: Top of casing, 1.70 ft above land surface.

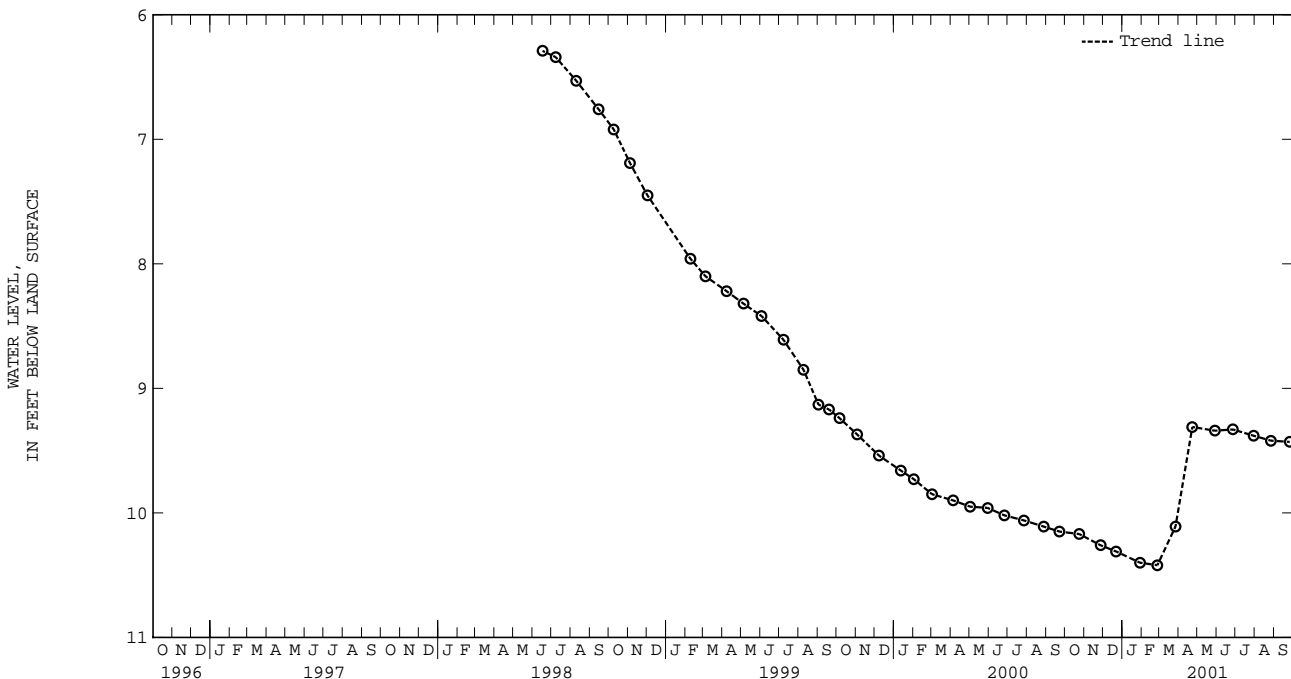
REMARKS.--Delaware Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--November 1976 to April 1993, June 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.67 ft below land surface, April 2, 1979. lowest measured, 12.72 ft below land surface, Aug. 28, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 2000	10.17	JAN 29, 2001	10.40	APR 23, 2001	9.31	JUL 30, 2001	9.38
NOV 27	10.26	FEB 26	10.42	MAY 29	9.34	AUG 27	9.42
DEC 22	10.31	MAR 27	10.11	JUN 27	9.33	SEP 26	9.43
WATER YEAR 2001 HIGHEST		9.31	APR 23, 2001		LOWEST		10.42
							FEB 26, 2001



SUSSEX COUNTY--Continued

WELL NUMBER.--Qe44-01. SITE ID.--383138075260201. PERMIT NUMBER.--49320.

LOCATION.--Lat 38°31'38", long 75°26'02", Hydrologic Unit 02060008, 1.0 mi east of Whaleys Crossroads.

Owner: Delaware Department of Transportation.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 25 ft; casing diameter 1 in., to 22 ft; well point from 22 to 25 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by and Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 50 ft above sea level, from topographic map.

Measuring point: Top of casing at land surface.

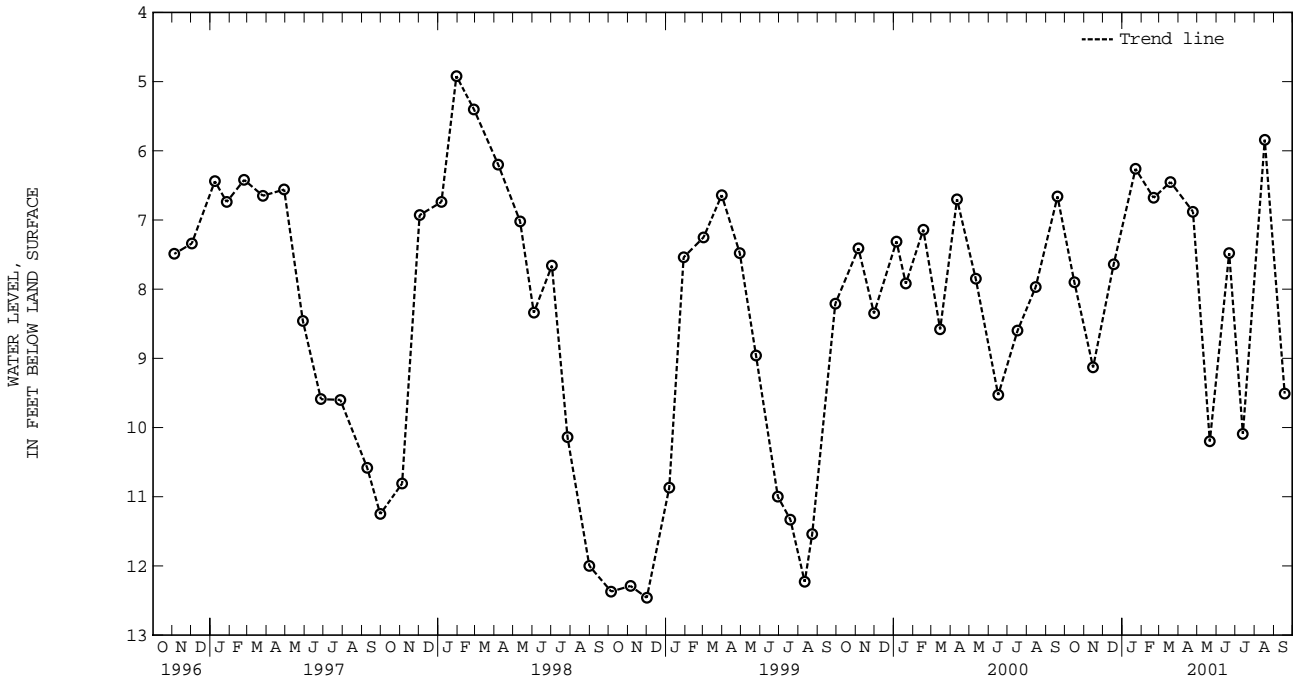
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--September 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.66 ft below land surface, Jan. 10, 1994; lowest measured, 12.46 ft below land surface, Dec. 1, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	7.90	JAN 22, 2001	6.26	APR 24, 2001	6.88	JUL 13, 2001	10.09
NOV 15	9.13	FEB 20	6.68	MAY 21	10.20	AUG 17	5.84
DEC 18	7.64	MAR 19	6.45	JUN 21	7.48	SEP 18	9.51
WATER YEAR 2001		HIGHEST	5.84	AUG 17, 2001	LOWEST	10.20	MAY 21, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

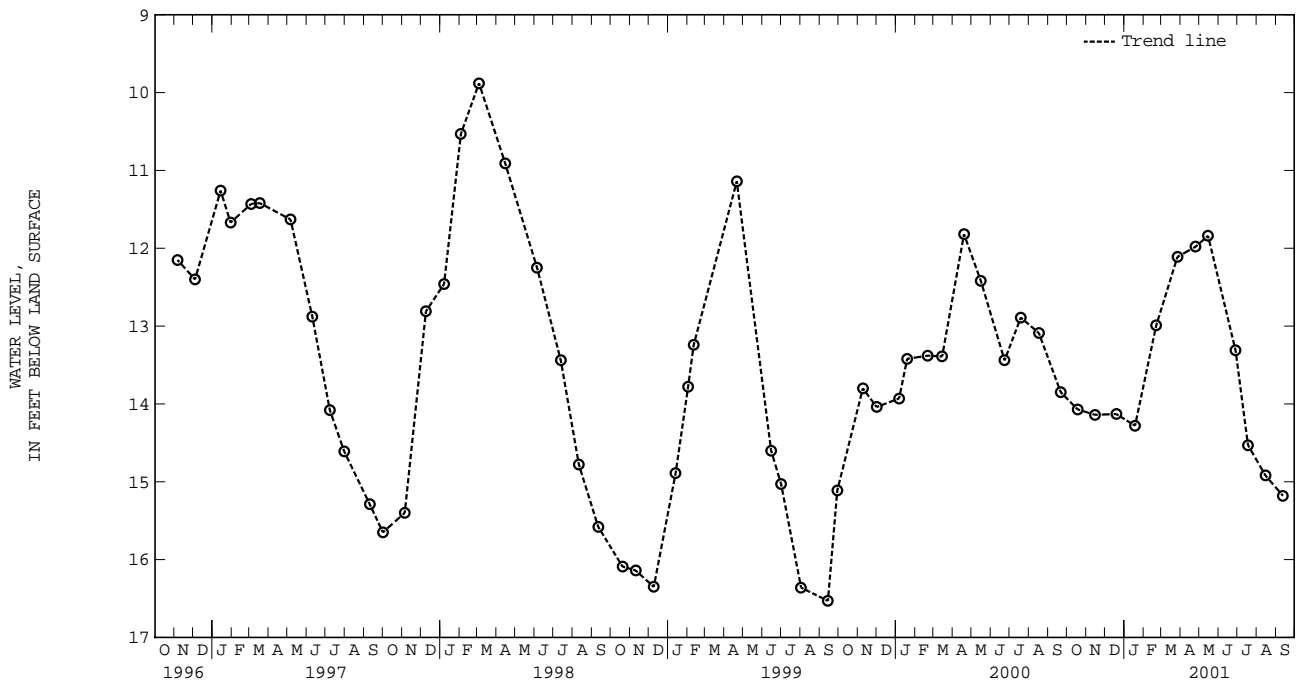


SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-04. SITE ID.--383050075105201.  
 LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010 , at Pyle Center, Omar.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 328 ft; casing diameter 2 in., to 324 ft; screen diameter 2 in., from 324 to 328 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.  
 Measured monthly from November 1978 to December 1979. Intermittent measurements March 1980 to February 1985.  
 Measured monthly from April 1985 to November 1988.  
 DATUM.--Elevation of land surface is 28 ft above sea level.  
 Measuring Point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.--November 1978 to present.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.07 ft below land surface, April 2, 1979;  
 lowest measured, 16.53 ft below land surface, Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	14.07	JAN 18, 2001	14.28	APR 25, 2001	11.98	JUL 18, 2001	14.53
NOV 15	14.14	FEB 21	12.99	MAY 15	11.84	AUG 15	14.92
DEC 19	14.13	MAR 27	12.11	JUN 28	13.31	SEP 12	15.18
WATER YEAR 2001 HIGHEST 11.84		MAY 15, 2001		LOWEST 15.18		SEP 12, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-05. SITE ID.--383050075105202.

LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010 , at Pyle Center, Omar.

Owner: U.S. Geological Survey.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 232 ft; casing diameter 2 in., to 229 ft; screen diameter 2 in., from 229 to 232 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1978 to December 1979 and April 1985 to November 1988. Intermittent measurements from March 1980 to February 1985.

DATUM.--Elevation of land surface is 28 ft above sea level.

Measuring Point: Top of casing, 2.00 ft above land surface.

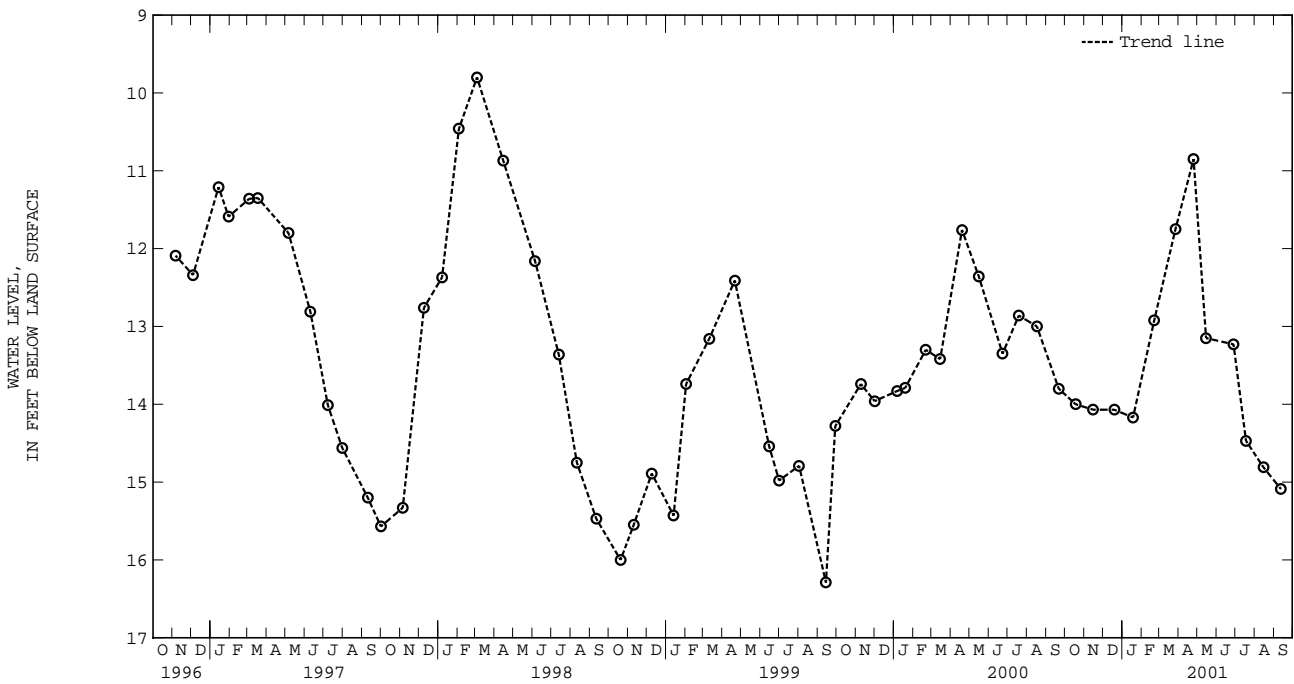
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1978 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.63 ft below land surface, March 1, 1979; lowest measured, 16.43 ft below land surface, Oct 21, 1987.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	14.00	JAN 18, 2001	14.17	APR 25, 2001	10.85	JUL 18, 2001	14.47
NOV 15	14.07	FEB 21	12.92	MAY 15	13.15	AUG 15	14.81
DEC 19	14.07	MAR 27	11.75	JUN 28	13.23	SEP 12	15.09
WATER YEAR 2001		HIGHEST	10.85	APR 25, 2001	LOWEST	15.09	SEP 12, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-06. SITE ID.--383050075105203.

LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010 , at Pyle Center, Omar.

Owner: U.S. Geological Survey.

AQUIFER.--Pocomoke aquifer of Upper Miocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 148 ft; casing diameter 2 in., to 144 ft; screen diameter 2 in., from 144 to 148 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.

Measured monthly from November 1978 to December 1979. Intermittent measurements March 1980 to February 1985.

Measured monthly from April 1985 to November 1988.

DATUM.--Elevation of land surface is 28 ft above sea level.

Measuring Point: Top of casing, 2.00 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well.

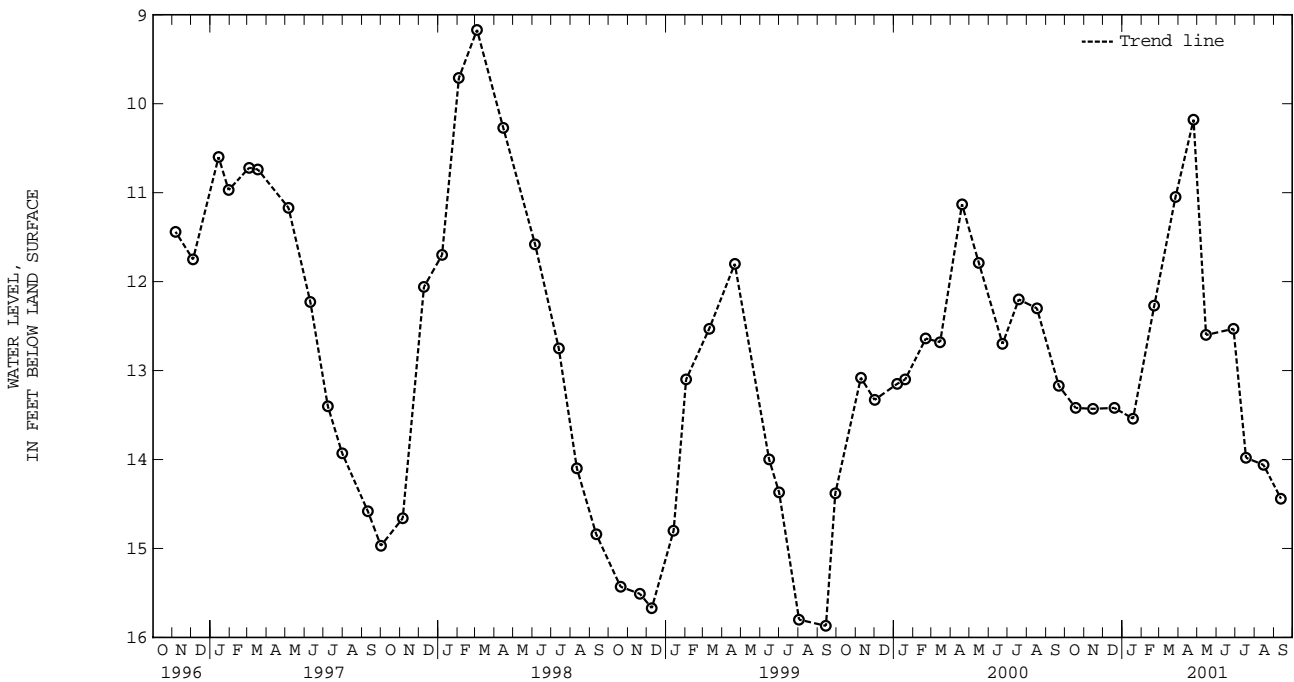
PERIOD OF RECORD.--November 1978 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.95 ft below land surface, March 1, 1979;  
lowest measured, 17.10 ft below land surface, July 24, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	13.42	JAN 18, 2001	13.54	APR 25, 2001	10.18	JUL 18, 2001	13.98
NOV 15	13.43	FEB 21	12.27	MAY 15	12.60	AUG 15	14.06
DEC 19	13.42	MAR 27	11.05	JUN 28	12.53	SEP 12	14.44

WATER YEAR 2001 HIGHEST 10.18 APR 25, 2001 LOWEST 14.44 SEP 12, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-07. SITE ID.--383050075105204.

LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010, at Pyle Center, Omar.

Owner: U.S. Geological Survey.

AQUIFER.--Omar Formation of Pleistocene age. Aquifer code: 112OMAR.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 108 ft; casing diameter 2 in., to 104 ft; screen diameter 2 in., from 104 to 108 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1978 to December 1979, and April 1985 to November 1988. Intermittent measurements from March 1980 to February 1985.

DATUM.--Elevation of land surface is 28 ft above sea level.

Measuring Point: Top of casing, 2.00 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well.

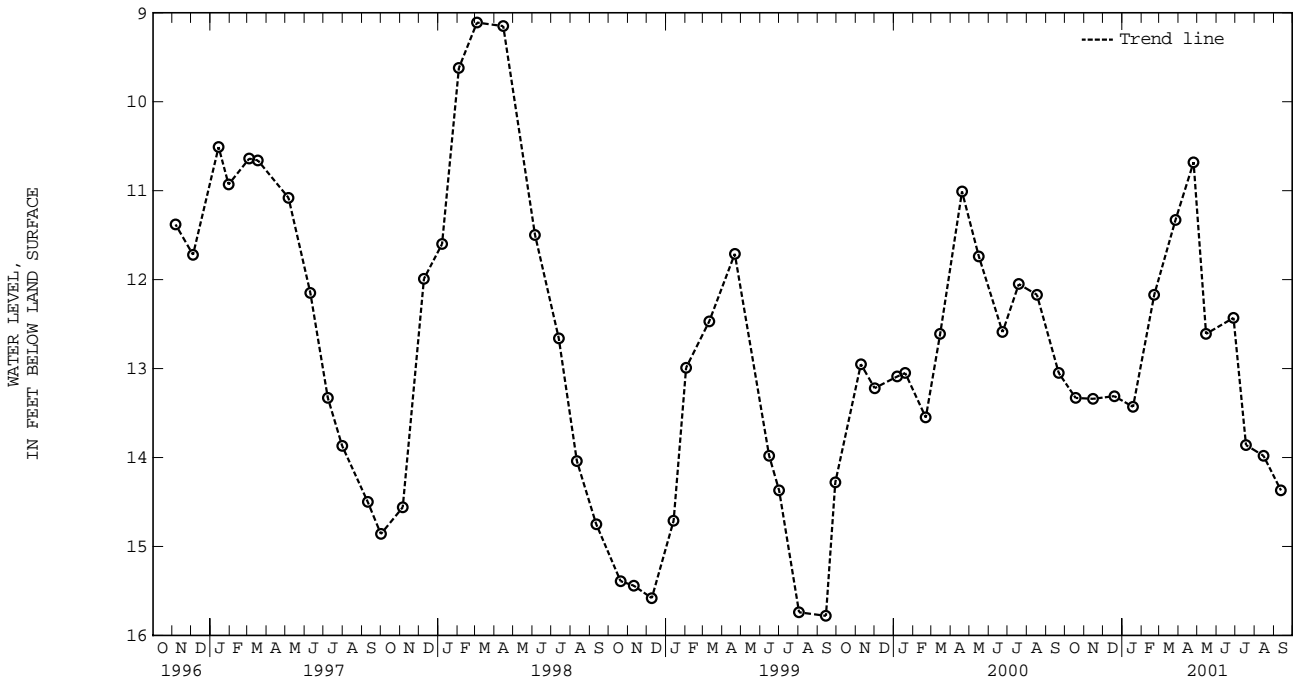
PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.83 ft below land surface, March 1, 1979; lowest measured, 15.78 ft below land surface, Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	13.33	JAN 18, 2001	13.43	APR 25, 2001	10.68	JUL 18, 2001	13.86
NOV 15	13.34	FEB 21	12.17	MAY 15	12.61	AUG 15	13.98
DEC 19	13.31	MAR 27	11.33	JUN 28	12.43	SEP 12	14.37

WATER YEAR 2001 HIGHEST 10.68 APR 25, 2001 LOWEST 14.37 SEP 12, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

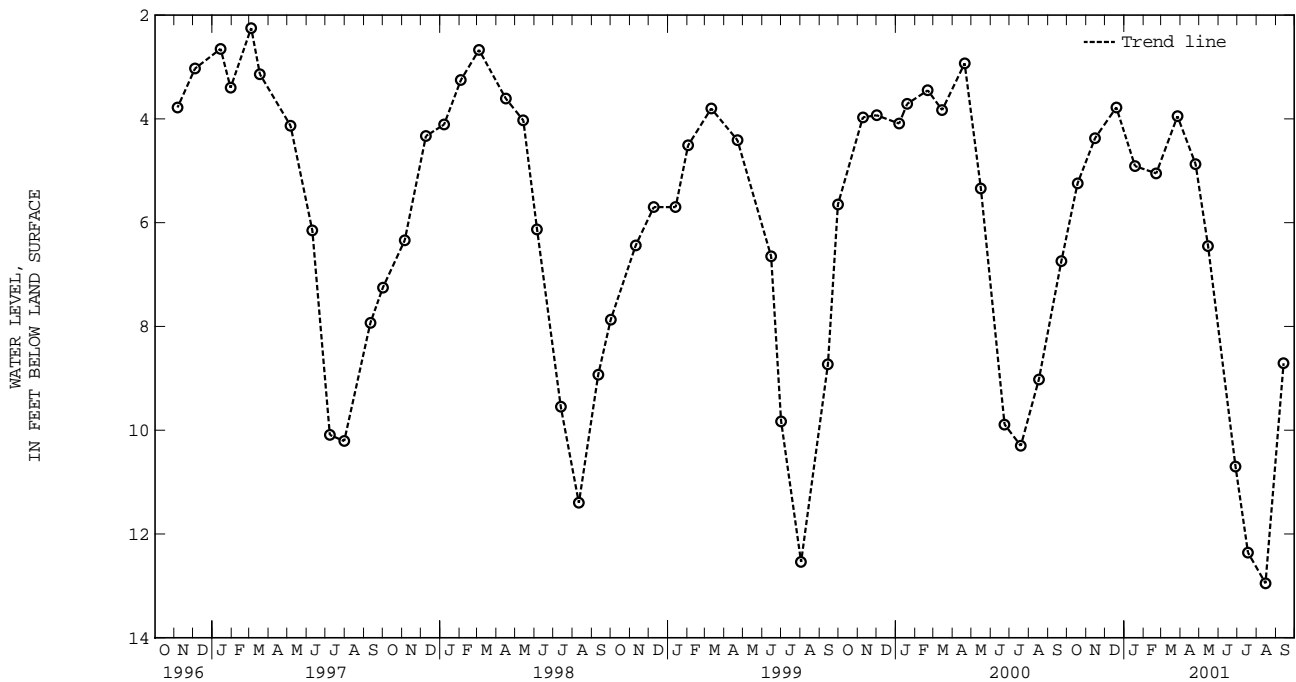
SUSSEX COUNTY--Continued

WELL NUMBER.--Qj32-17. SITE ID.--383210075035802. PERMIT NUMBER.--45428.  
 LOCATION.--Lat 38°32'10", long 75°03'58", Hydrologic Unit 02060010, 0.5 mi southwest of intersection of Del. Rts. 1 and 26, Bethany Beach.  
 Owner: Town of Bethany Beach.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 400 ft; casing diameter 4 in., to 335 ft; screen diameter 4 in. from 335 to 400 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.  
 DATUM.--Elevation of land surface is 7 ft. above sea level.  
 Measuring Point: Top of casing, at land surface.  
 REMARKS.--Delaware Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--February 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.12 ft below land surface, April 1, 1993; lowest measured, 12.95 ft below land surface, Aug. 15, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	5.24	JAN 18, 2001	4.91	APR 25, 2001	4.87	JUL 18, 2001	12.36
NOV 15	4.37	FEB 21	5.05	MAY 15	6.45	AUG 15	12.95
DEC 19	3.78	MAR 27	3.95	JUN 28	10.70	SEP 13	8.71

WATER YEAR 2001    HIGHEST    3.78    DEC 19, 2000    LOWEST    12.95    AUG 15, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Rj22-05. SITE ID.--382808075030501.

LOCATION.--Lat 38°28'08", long 75°03'05", Hydrologic Unit 02060010, at Fenwick Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 455 ft; casing diameter 1.25 in., to 450 ft; screen diameter 2 in., from 450 to 455 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.

Measured monthly from April 1977 to March 1980, and April 1985 to July 1987. Intermittent measurements from September 1980 to February 1985.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.00 ft above land surface.

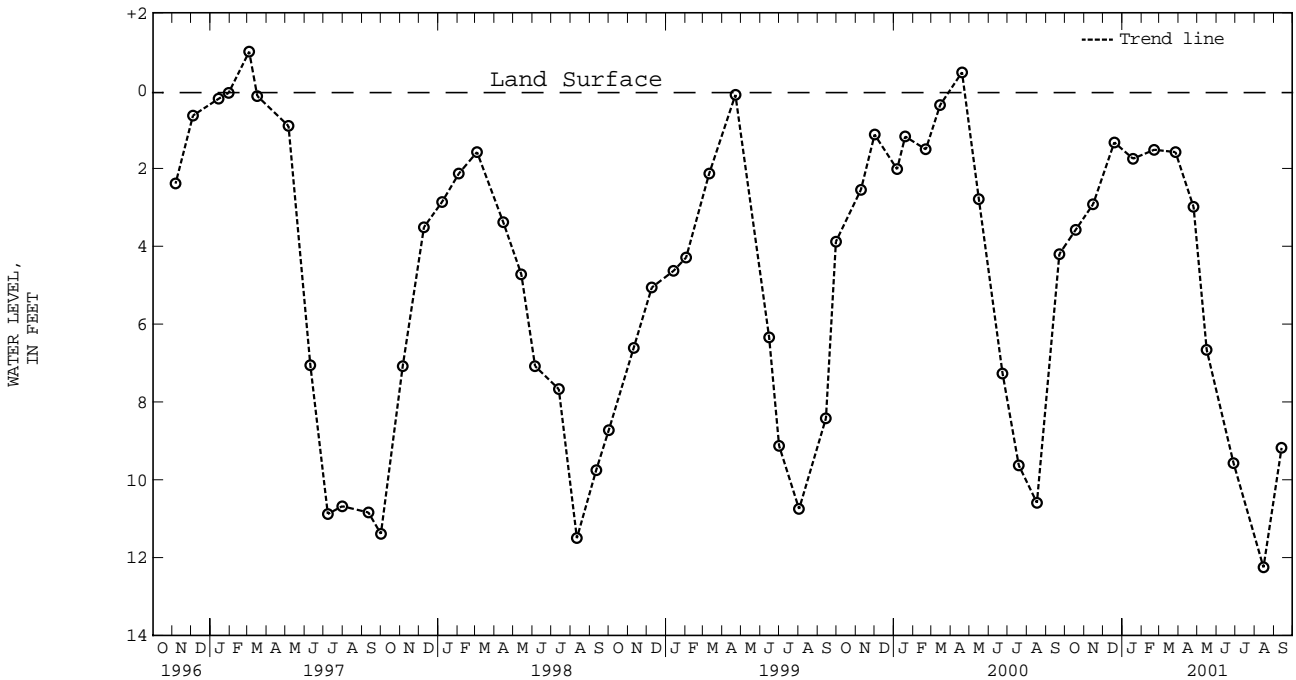
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft above land surface, March 4, 1997; lowest measured, 13.81 ft below land surface, July 30, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	3.58	JAN 18, 2001	1.75	APR 25, 2001	2.99	AUG 15, 2001	12.25
NOV 15	2.92	FEB 21	1.52	MAY 16	6.66	SEP 13	9.18
DEC 19	1.33	MAR 27	1.58	JUN 28	9.57		
WATER YEAR 2001 HIGHEST 1.33 DEC 19, 2000		LOWEST 12.25		AUG 15, 2001			



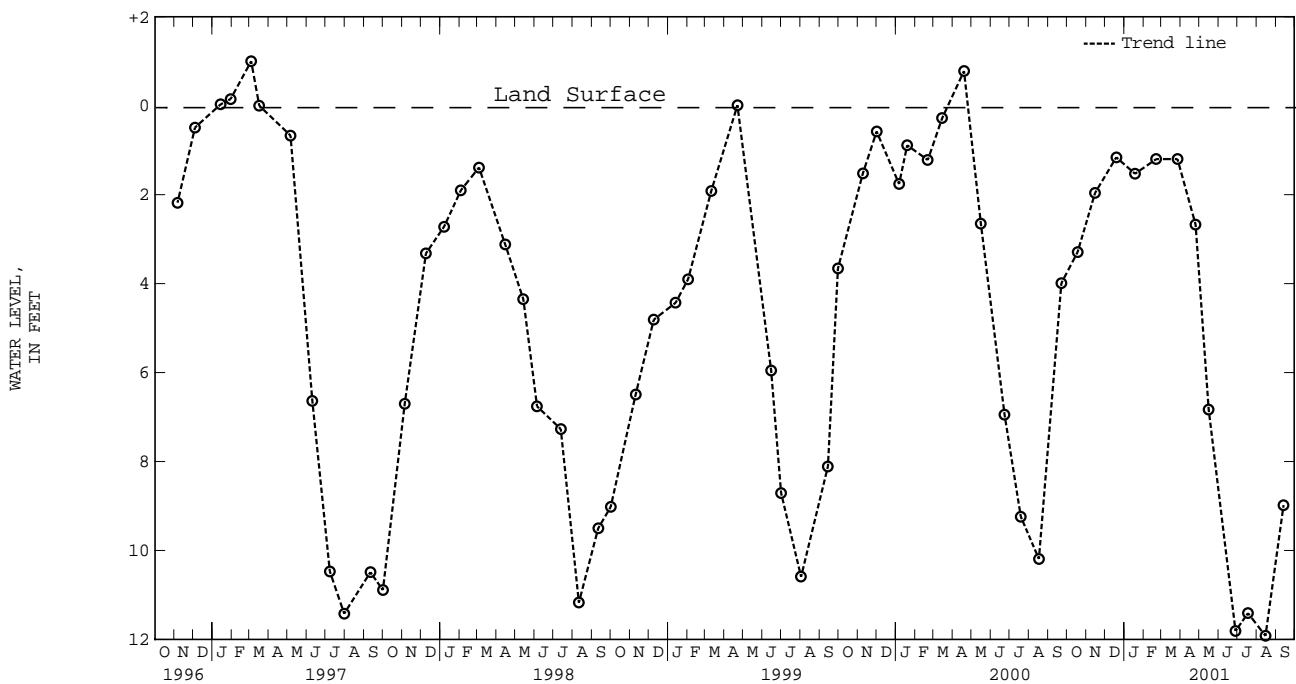
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SUSSEX COUNTY--Continued

WELL NUMBER.--Rj22-06. SITE ID.--382808075030502.  
 LOCATION.--Lat 38°28'08", long 75°03'05", Hydrologic Unit 02060010, at Fenwick Island State Park.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 295 ft; casing diameter 1.25 in., to 290 ft; screen diameter 2 in., from 290 to 295 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.  
 Measured monthly from April 1977 to March 1980, and April 1985 to July 1987. Intermittent measurements from September 1980 to February 1985.  
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.  
 Measuring Point: Top of casing, 1.00 ft above land surface.  
 REMARKS.--Delaware Water-Level Network observation well.  
 PERIOD OF RECORD.--April 1977 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft above land surface, April 2, 1979, April 4, 1984, and March 4, 1997; lowest measured, 12.86 ft below land surface, July 30, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	3.29	JAN 18, 2001	1.53	APR 25, 2001	2.67	JUL 18, 2001	11.41
NOV 15	1.96	FEB 21	1.20	MAY 16	6.83	AUG 15	11.92
DEC 19	1.16	MAR 27	1.20	JUN 28	11.81	SEP 13	8.98
WATER YEAR 2001 HIGHEST 1.16 DEC 19, 2000		LOWEST 11.92		AUG 15, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Rj22-07. SITE ID.--382808075030503.

LOCATION.--Lat 38°28'08", long 75°03'05", Hydrologic Unit 02060010, at Fenwick Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Pocomoke aquifer of Upper Miocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 185 ft; casing diameter 1.25 in., to 180 ft; screen diameter 2 in., from 180 to 185 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from April 1977 to March 1980 and April 1985 to July 1987. Intermittent measurements from September 1980 to February 1985.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.00 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well.

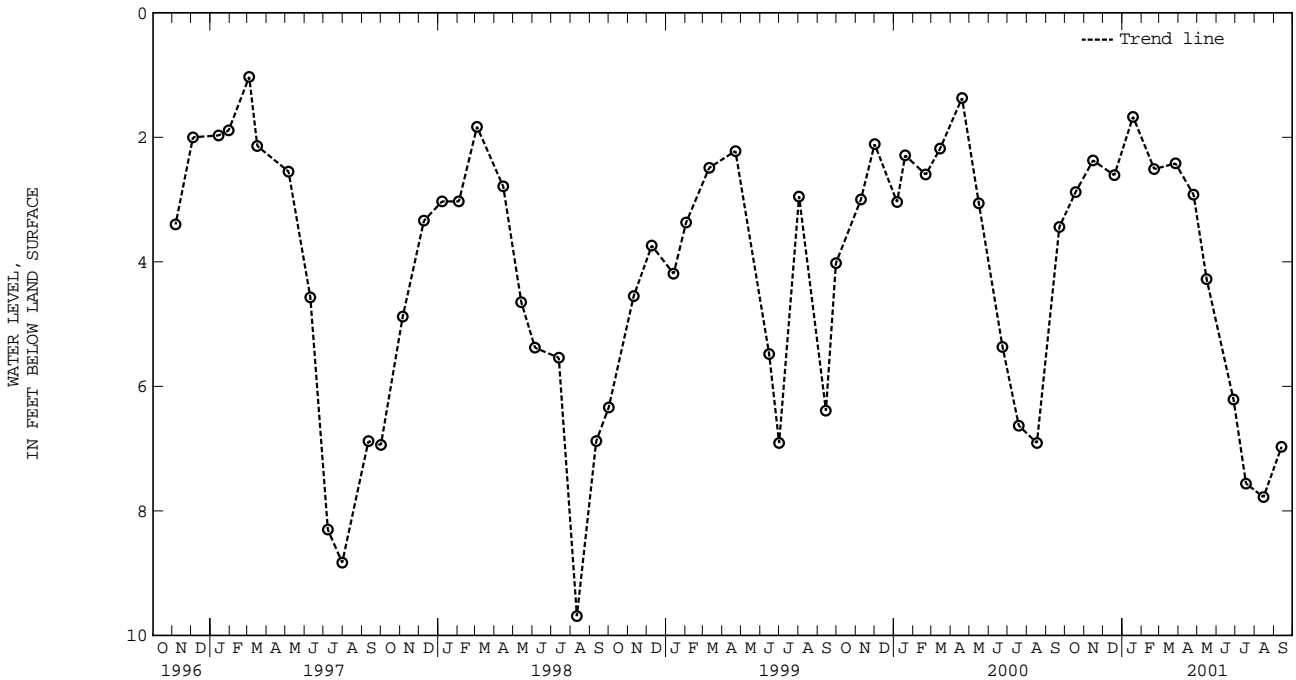
PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.33 ft above land surface, Feb. 20, 1986; lowest measured, 10.00 ft below land surface, Aug 4, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	2.88	JAN 18, 2001	1.67	APR 25, 2001	2.92	JUL 18, 2001	7.56
NOV 15	2.37	FEB 21	2.51	MAY 16	4.28	AUG 15	7.78
DEC 19	2.61	MAR 27	2.42	JUN 28	6.21	SEP 13	6.97

WATER YEAR 2001    HIGHEST    1.67    JAN 18, 2001    LOWEST    7.78    AUG 15, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



SUSSEX COUNTY--Continued

WELL NUMBER.--Rj22-08. SITE ID.--382808075030504.

LOCATION.--Lat 38°28'08", long 75°03'05", Hydrologic Unit 02060010, at Fenwick Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 115 ft; casing diameter 1.25 in., to 110 ft; screen diameter 2 in., from 110 to 115 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from April 1977 to March 1980, and April 1985 to July 1987. Intermittent measurements from September 1980 to February 1985.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.00 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well. The Aug. 2, 1999 record low measurement was probably due to the construction of a nearby pipeline.

PERIOD OF RECORD.--April 1977 to current year.

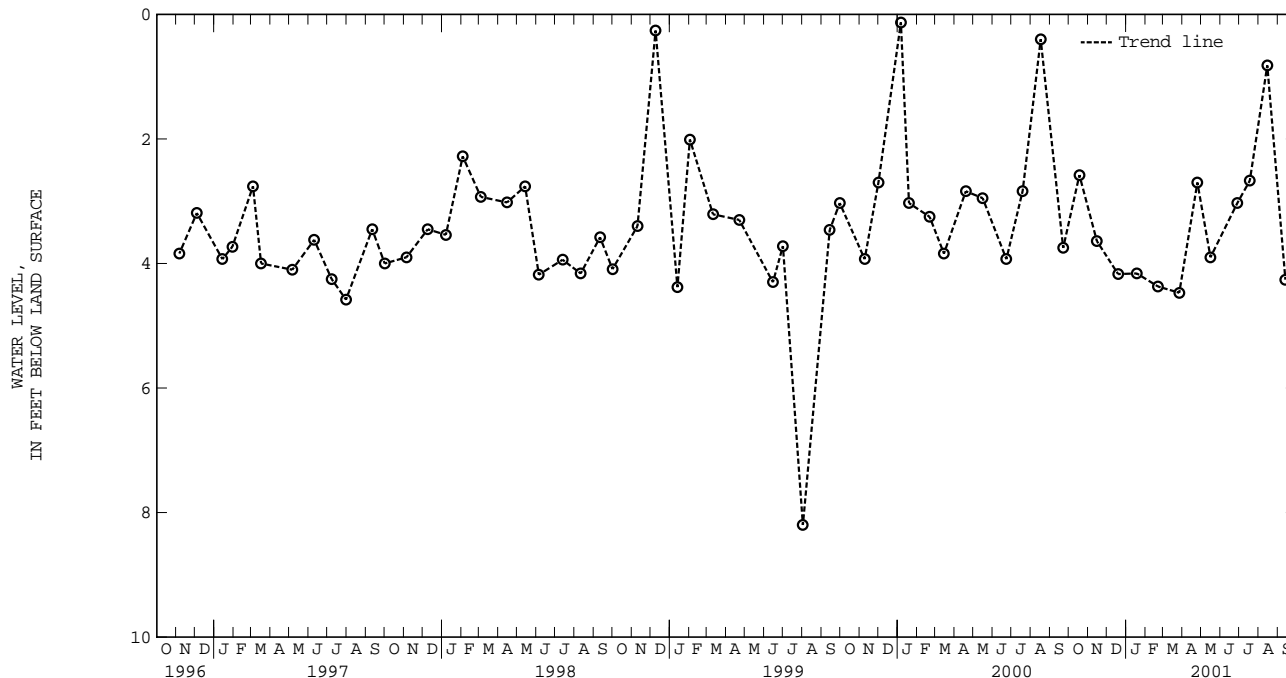
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.13 ft below land surface, Jan. 6, 2000;

lowest measured, 8.20 ft below land surface, Aug. 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	2.58	JAN 18, 2001	4.16	APR 25, 2001	2.70	JUL 18, 2001	2.67
NOV 15	3.64	FEB 21	4.37	MAY 16	3.90	AUG 15	.82
DEC 19	4.17	MAR 27	4.47	JUN 28	3.03	SEP 13	4.26

WATER YEAR 2001 HIGHEST .82 AUG 15, 2001 LOWEST 4.47 MAR 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND

ALLEGANY COUNTY

WELL NUMBER.--AL Ah 1. SITE ID.--394024078273401.

LOCATION.--Lat 39°40'24", long 78°27'34", Hydrologic Unit 02070003, near Fifteen Mile Creek, 2.8 mi southeast of Pratt.

Owner: Green Ridge State Forest.

AQUIFER.--Jennings Formation of Upper Devonian Age. Aquifer code: 341JNGS.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, reported depth 300 ft, measured depth 114.5 ft; casing diameter 8 in. to unknown depth; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 720 ft above sea level, from topographic map.

Measuring point: Top of sanitary seal in casing, 0.25 ft above land surface.

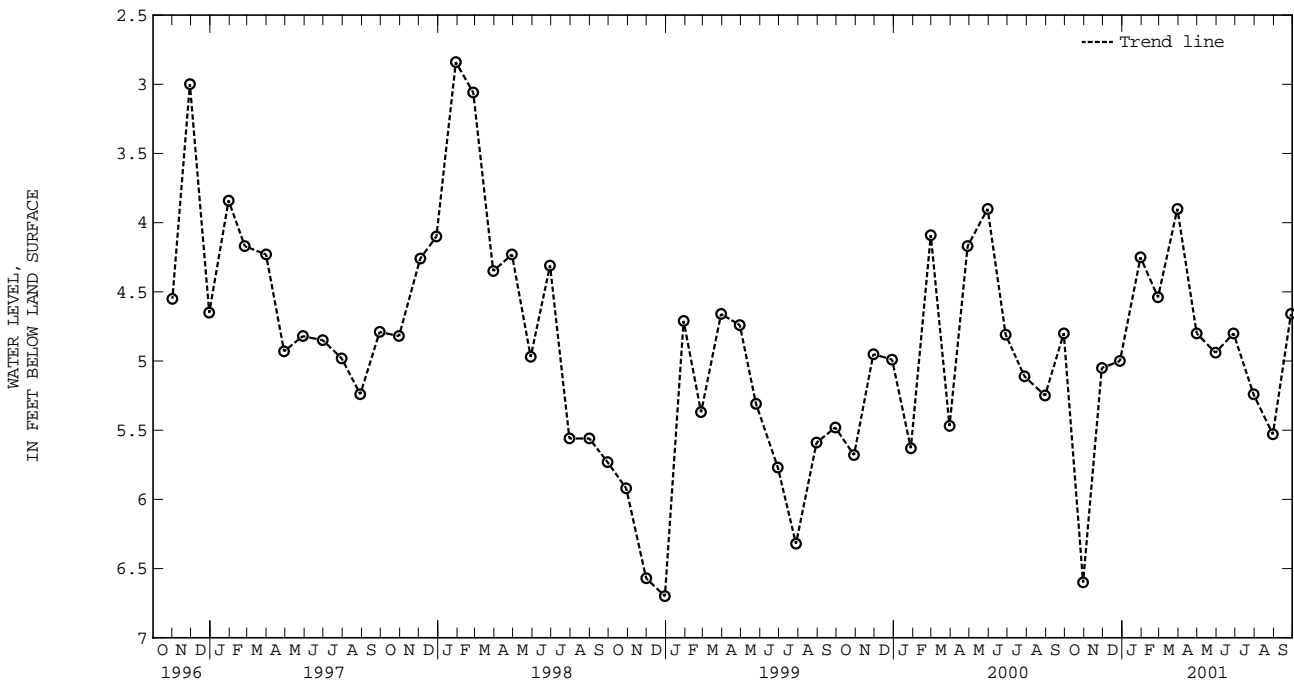
REMARKS.--Maryland Water-Level Network observation well. Water level was more than 40 ft below land surface on Nov. 19, 1969, and Feb. 12, 1970, when well was being pumped. Water levels may be affected by local ground-water withdrawal.

PERIOD OF RECORD.--December 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.80 ft below land surface, May 18, 1978; lowest measured 19.75 ft below land surface, July 17, 1968.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	6.60	JAN 30, 2001	4.25	APR 30, 2001	4.80	JUL 30, 2001	5.24
NOV 29	5.05	FEB 27	4.54	MAY 30	4.94	AUG 30	5.53
DEC 28	5.00	MAR 30	3.90	JUN 28	4.80	SEP 28	4.66
WATER YEAR 2001 HIGHEST 3.90		MAR 30, 2001		LOWEST 6.60		OCT 30, 2000	



ALLEGANY COUNTY--Continued

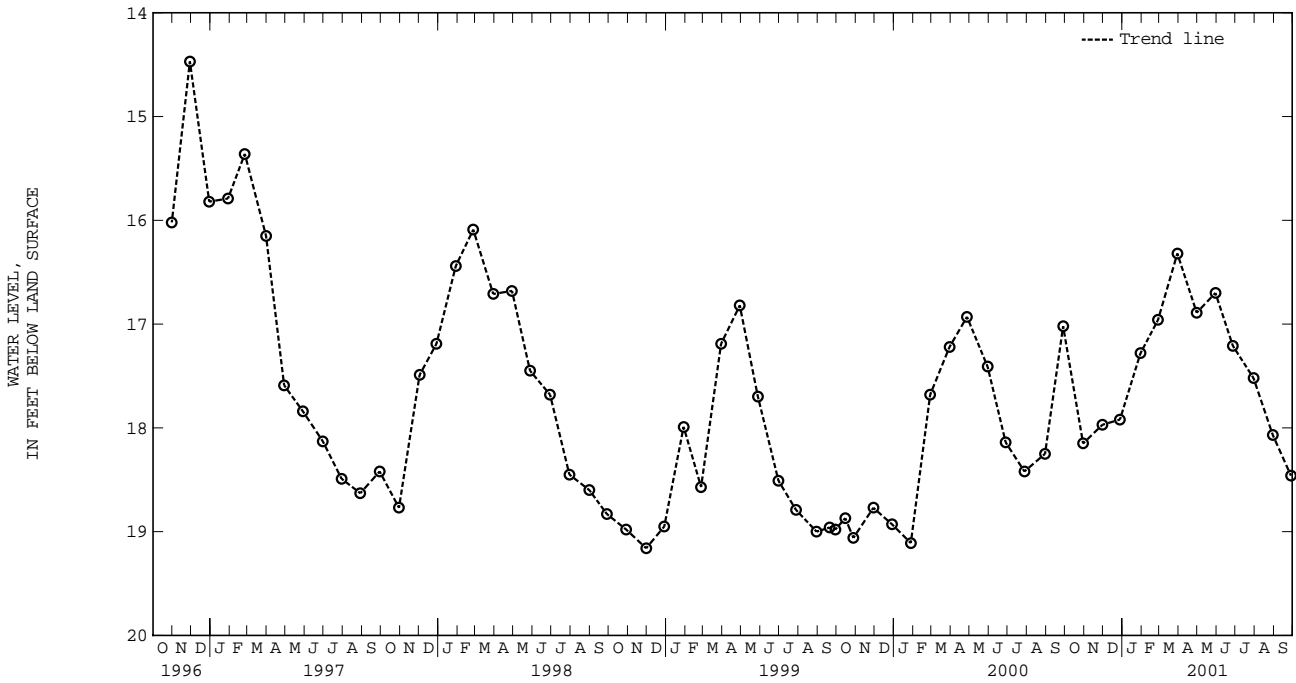
WELL NUMBER.--AL Ca 19. SITE ID.--393009079025201. PERMIT NUMBER.--AL-05-0057.  
 LOCATION.--Lat 39°30'09", long 79°02'52", Hydrologic Unit 02070002, north end of Franklin.  
 Owner: Carl W. Arthur.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.  
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, measured depth 86 ft; casing diameter 6 in., to 46 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 1,035 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--July 1974 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.88 ft below land surface, March 19, 1984;  
 lowest measured, 19.30 ft below land surface, Nov. 1, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	18.15	JAN 30, 2001	17.28	APR 30, 2001	16.89	JUL 30, 2001	17.52
NOV 30	17.97	FEB 27	16.96	MAY 30	16.70	AUG 30	18.07
DEC 28	17.92	MAR 30	16.32	JUN 27	17.21	SEP 28	18.46
WATER YEAR 2001 HIGHEST 16.32		MAR 30, 2001		LOWEST 18.46		SEP 28, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND

ALLEGANY COUNTY--Continued

WELL NUMBER.--AL Ca 20. SITE ID.--393148079010601. PERMIT NUMBER.--AL-81-0477.  
 LOCATION.--Lat 39°31'48", long 79°01'06", Hydrologic Unit 02070002, at Barton Municipal Park.  
 Owner: Town of Barton.

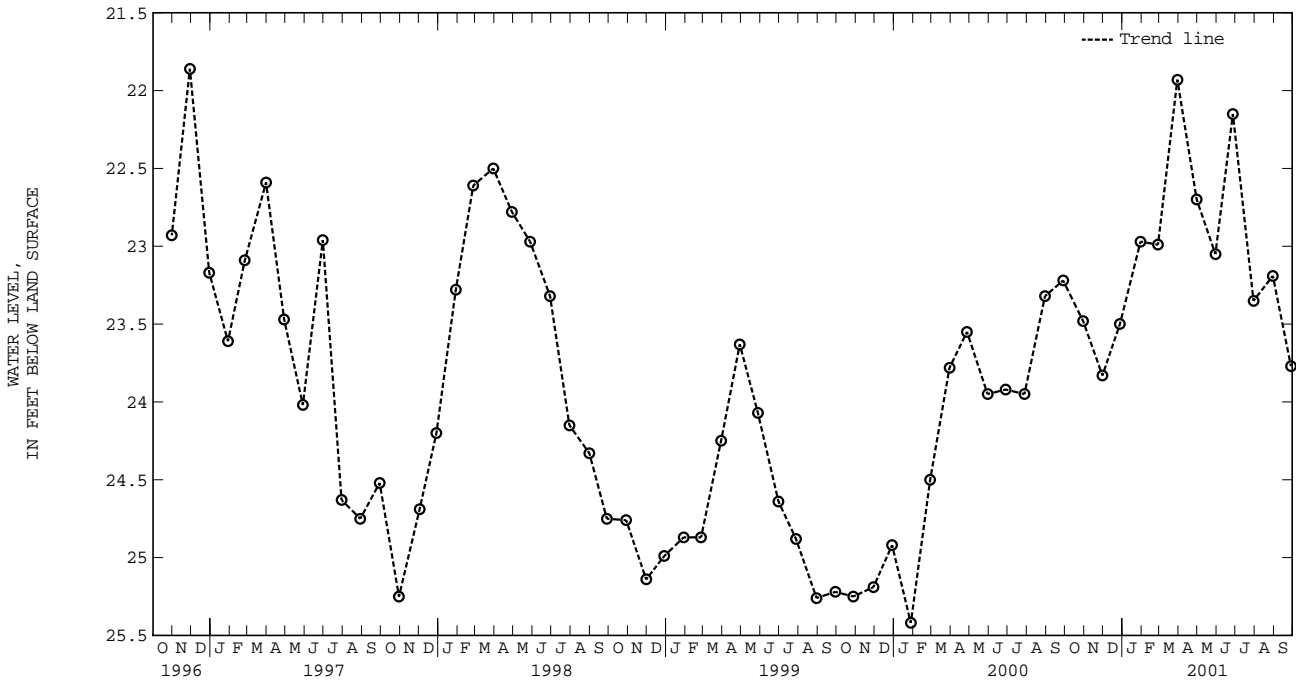
AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 71 ft; casing diameter 8 in., to 20 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 1,250 ft above sea level.  
 Measuring Point: Top of casing, 1.70 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--March 1992 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.57 ft below land surface, Feb. 27, 1996;  
 lowest measured, 26.00 ft below land surface, March 17, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	23.48	JAN 30, 2001	22.97	APR 30, 2001	22.70	JUL 30, 2001	23.35
NOV 30	23.83	FEB 27	22.99	MAY 30	23.05	AUG 30	23.19
DEC 28	23.50	MAR 30	21.93	JUN 27	22.15	SEP 28	23.77
WATER YEAR 2001		HIGHEST	21.93	MAR 30, 2001	LOWEST	23.83	NOV 30, 2000



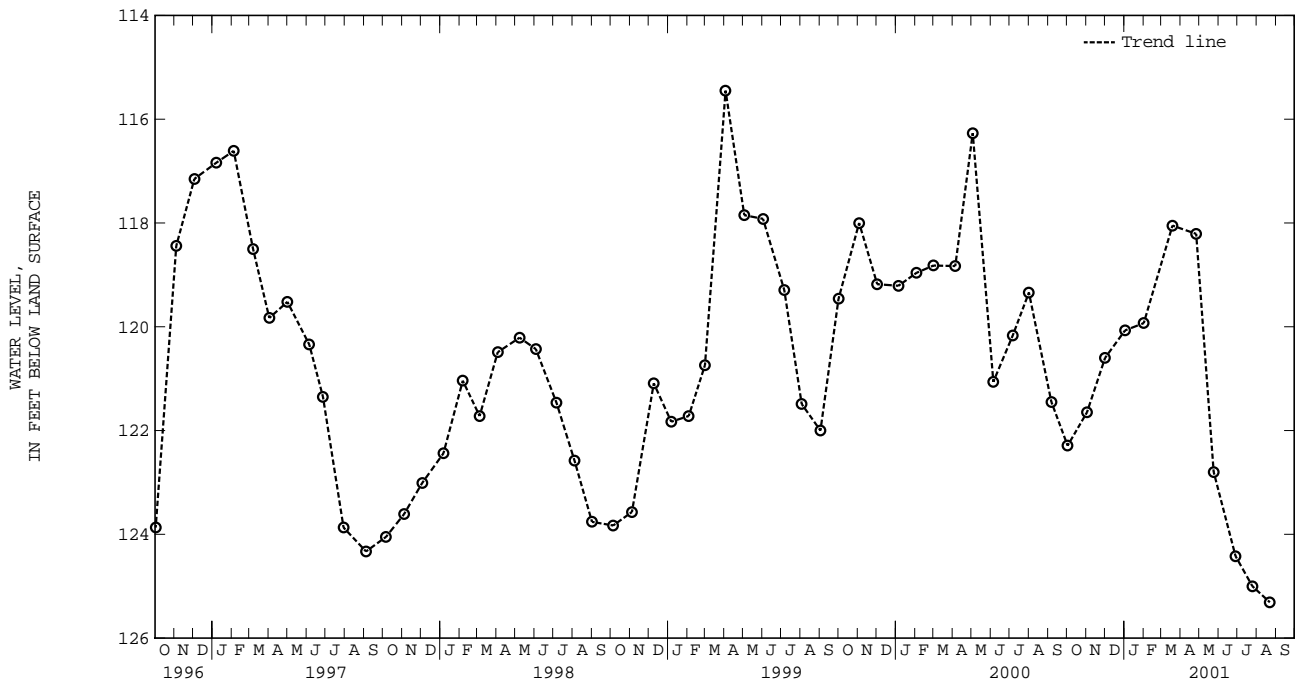
ANNE ARUNDEL COUNTY

WELL NUMBER.--AA Ac 11. SITE ID.--391101076404001. PERMIT NUMBER.--AA-00-2445.  
 LOCATION.--Lat 39°11'01", long 76°40'40", Hydrologic Unit 02060003, west end of runway 15,  
 Baltimore-Washington International Airport.  
 Owner: Maryland Department of Transportation.  
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 320 ft; casing diameter 6 in., to 312 ft;  
 screened from 312 to 320 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 136.9 ft above sea level.  
 Measuring point: Top of casing, 1.00 above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Well used during construction of airport. Water level  
 reported by driller as 90 ft below land surface, April 23, 1948. Water levels are affected by local ground-water  
 withdrawal.  
 PERIOD OF RECORD.--June 1959 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.60 ft below land surface, March 9, 1965;  
 lowest measured, 125.31 ft below land surface, Aug. 22, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	122.29	JAN 02, 2001	120.07	APR 26, 2001	118.21	JUL 25, 2001	125.00
NOV 02	121.65	FEB 01	119.93	MAY 24	122.80	AUG 22	125.31
DEC 01	120.60	MAR 19	118.05	JUN 28	124.42		

WATER YEAR 2001 HIGHEST 118.05 MAR 19, 2001 LOWEST 125.31 AUG 22, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 29. SITE ID.--391015076373501.

LOCATION.--Lat 39°10'15", long 76°37'35", Hydrologic Unit 02060003, near Linden Lane, Glen Burnie, near the Anne Arundel County Department of Public Works office.

Owner: Anne Arundel County Department of Public Works.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 500 ft; casing diameter 3 in., to 395 ft, and from 400 to 420 ft; casing diameter 2 in. from 420 to 460 ft; screened with 3 in. slotted pipe from 395 to 400 ft; screened with 2 in. slotted pipe from 460 to 500 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from July 19, 1948 to Jan. 18, 1968.

DATUM.--Elevation of land surface is 37.0 ft above sea level.

Measuring point: Top of casing, 1.85 ft above land surface. Prior to Dec. 5, 1972, measuring point was 16.3 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

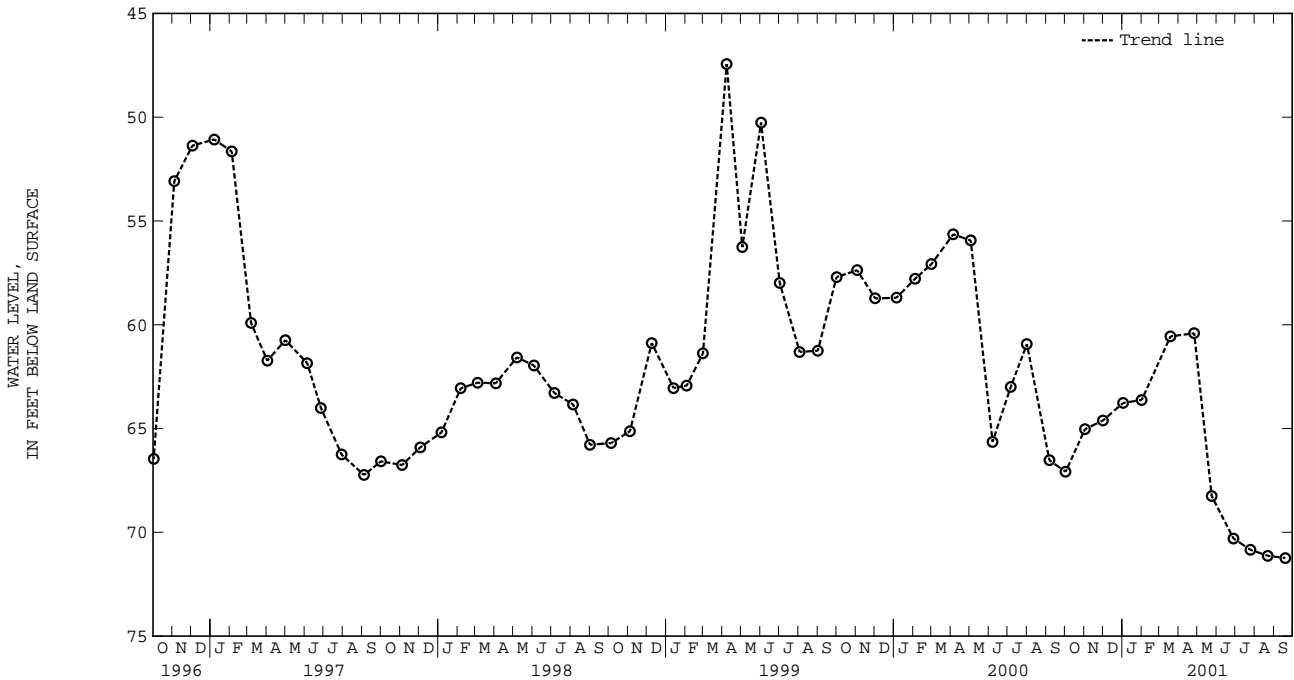
PERIOD OF RECORD.--June 1948 to February 1968, April 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.04 ft above land surface, Sept. 2, 1952; lowest measured, 71.24 ft below land surface, Sept. 19, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	67.08	JAN 02, 2001	63.77	APR 26, 2001	60.41	JUL 25, 2001	70.84
NOV 02	65.03	FEB 01	63.62	MAY 24	68.25	AUG 22	71.13
DEC 01	64.61	MAR 19	60.56	JUN 28	70.30	SEP 19	71.24

WATER YEAR 2001 HIGHEST 60.41 APR 26, 2001 LOWEST 71.24 SEP 19, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 90. SITE ID.--391032076385902. PERMIT NUMBER.--AA-04-0298.  
 LOCATION.--Lat 39°10'32", long 76°38'59", Hydrologic Unit 02060003, off Aviation Blvd., 0.5 mi north of Dorsey Road intersection.  
 Owner: Anne Arundel County Department of Public Works.  
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 453 ft; casing diameter 6 in., to 443 ft; screen diameter 6 in. from 443 to 453 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from Aug. 19, 1977 to Sept. 4, 1979. Periodic measurements from September 1979 to March 1980. Equipped with digital water-level recorder--30-minute recorder interval from March 1980 to Dec. 31, 1984, and August 1989 to current year.  
 DATUM.--Elevation of land surface is 77.85 ft above sea level.  
 Measuring Point: Top of shelter platform, 2.20 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--April 1977 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.87 ft above sea level, Nov. 20, 1978; lowest measured, 55.33 ft below sea level, July 7, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-48.22	-48.71	-48.74	-48.89	-43.30	-43.37	-42.24	-42.28	8.03	-42.12	-30.37	-32.37
2	-48.71	-49.23	-45.91	-48.92	-43.28	-43.31	-42.28	-42.33	-41.98	-42.11	-32.37	-33.73
3	-48.56	-49.34	-46.68	-47.71	-43.17	-43.28	-42.21	-42.33	-42.11	-42.20	---	---
4	-47.36	-48.56	-47.71	-48.26	-42.99	-43.17	-42.18	-42.21	-42.12	-42.19	---	---
5	-46.78	-47.36	-48.26	-48.62	-42.87	-42.99	-42.00	-42.18	-41.92	-42.12	---	---
6	-47.06	-48.01	-46.45	-48.62	-42.78	-42.92	-42.02	-42.13	-41.99	-42.07	---	---
7	-48.01	-48.63	-46.53	-47.81	-42.73	-42.78	-42.08	-42.13	-42.07	-42.18	---	---
8	-48.63	-48.96	-47.81	-48.53	-42.69	-42.77	-42.03	-42.13	-42.09	-42.19	---	---
9	-48.96	-49.20	-48.53	-48.68	-42.77	-42.82	-42.07	-42.11	-41.76	-42.09	---	---
10	-49.19	-49.37	-48.68	-49.11	-42.68	-42.82	-42.07	-42.13	-39.38	-41.76	---	---
11	-47.22	-49.40	-49.11	-49.48	-42.49	-42.69	-42.06	-42.13	-36.48	-39.38	---	---
12	-47.81	-48.77	-49.48	-49.69	-42.39	-42.73	-42.00	-42.06	-34.39	-36.48	---	---
13	-46.50	-48.88	-49.69	-49.81	-42.63	-42.75	-42.03	-42.05	-32.93	-34.39	---	---
14	-47.69	-48.65	-49.80	-49.89	-41.32	-42.63	-42.01	-42.06	-31.60	-32.93	---	---
15	-48.51	-48.77	-49.89	-50.04	-42.15	-42.49	-41.97	-42.01	-30.92	-31.60	---	---
16	-48.59	-48.89	-49.16	-50.06	-42.33	-42.51	-41.97	-42.09	-30.06	-30.92	---	---
17	-47.28	-48.59	-47.72	-49.16	-42.10	-42.34	-42.09	-42.13	-29.67	-30.06	---	---
18	-46.13	-47.28	-46.70	-47.72	-42.34	-42.44	-42.08	-42.13	-29.18	-29.67	---	---
19	-45.85	-46.13	-45.93	-46.70	-42.27	-42.40	-41.90	-42.08	-28.63	-29.18	---	---
20	-45.26	-45.99	-45.40	-45.93	-42.27	-42.47	-41.92	-41.99	-28.17	-28.63	-38.72	-38.74
21	-44.70	-45.26	-45.07	-45.40	-42.39	-42.47	-41.93	-42.17	-27.97	-28.17	-38.43	-38.72
22	-44.39	-44.70	-44.76	-45.07	-42.32	-42.46	-42.17	-42.20	-27.49	-27.97	-38.44	-38.56
23	-44.29	-44.59	-44.56	-44.76	-42.46	-42.47	-42.04	-42.19	-27.33	-27.49	-38.56	-38.65
24	-44.40	-45.75	-44.36	-44.56	-42.30	-42.46	-41.98	-42.05	-27.08	-27.35	-38.62	-38.72
25	-45.75	-47.07	-43.99	-44.36	-42.38	-42.47	-40.59	-42.03	-26.62	-27.08	-38.71	-38.73
26	-45.88	-46.73	-43.72	-43.99	-42.35	-42.47	-41.07	-41.48	-26.56	-26.62	-38.71	-38.78
27	-46.08	-46.95	-43.63	-43.72	-42.21	-42.35	-41.48	-41.84	-26.32	-27.14	-38.78	-38.81
28	-46.95	-47.81	-43.57	-43.64	-42.20	-42.22	-41.84	-42.01	-27.14	-30.37	-38.81	-38.84
29	-47.81	-48.21	-43.37	-43.60	-42.17	-42.22	-41.98	-42.05	---	---	-38.64	-38.83
30	-48.21	-48.52	-43.34	-43.37	-42.08	-42.17	-41.77	-41.98	---	---	-38.56	-38.65
31	-48.52	-48.74	---	---	-42.11	-42.24	-41.79	-41.97	---	---	-38.65	-38.67
MONTH	-44.29	-49.40	-43.34	-50.06	-41.32	-43.37	-40.59	-42.33	8.03	-42.20	-30.37	-38.84

GROUND-WATER LEVELS IN MARYLAND--Continued

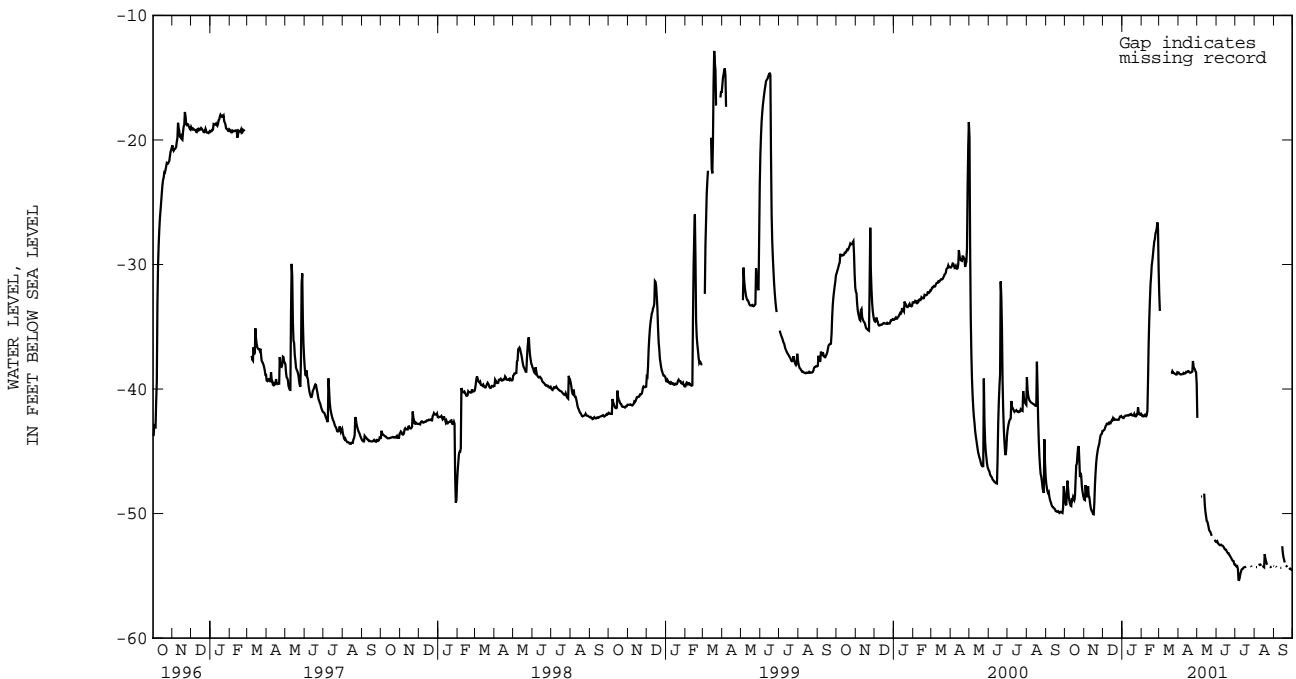
ANNE ARUNDEL COUNTY--Continued

AA Ad 90--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-38.63	-38.67	-39.60	-42.32	-52.23	-52.29	-54.01	-54.10	---	---	-54.14	-54.21
2	-38.67	-38.77	---	---	-52.21	-52.23	-54.01	-54.22	---	---	---	---
3	-38.75	-38.79	---	---	-52.22	-52.37	-54.22	-54.26	-54.21	-54.30	---	---
4	-38.79	-38.83	---	---	-52.37	-52.44	-54.08	-54.23	---	---	-54.21	-54.24
5	-38.80	-38.83	---	---	-52.44	-52.49	-54.06	-54.44	---	---	-54.21	-54.30
6	-38.66	-38.81	---	---	-52.49	-52.54	-54.44	-55.32	---	---	---	---
7	-38.68	-38.80	-48.22	-48.63	-52.47	-52.54	-55.14	-55.33	-54.11	-54.13	---	---
8	-38.70	-38.80	---	---	-52.47	-52.50	-54.82	-55.14	-54.01	-54.11	---	---
9	-38.60	-38.71	---	---	-52.50	-52.54	-54.66	-54.82	-53.71	-54.10	---	---
10	-38.63	-38.75	---	---	-52.54	-52.58	-54.50	-54.66	-53.88	-54.09	---	---
11	-38.72	-38.76	---	---	-52.58	-52.60	-54.45	-54.50	-54.09	-54.20	-54.33	-54.36
12	-38.60	-38.72	-46.72	-48.40	-52.60	-52.67	-54.43	-54.45	---	---	---	---
13	-38.60	-38.63	-48.40	-49.32	-52.67	-52.76	-54.35	-54.43	---	---	---	---
14	-38.61	-38.65	-49.32	-49.86	-52.76	-52.87	-54.31	-54.35	-54.01	-54.16	-51.50	-52.62
15	-38.49	-38.61	-49.86	-50.20	-52.87	-52.89	-54.30	-54.31	-54.16	-54.28	-52.62	-53.17
16	-38.49	-38.56	-50.20	-50.59	-52.89	-52.90	-54.29	-54.30	-52.25	-54.32	-53.17	-53.50
17	-38.53	-38.56	-50.46	-50.64	-52.90	-53.02	-54.25	-54.29	-52.54	-53.26	-53.50	-53.70
18	-38.51	-38.63	-50.55	-50.83	-53.02	-53.12	-54.16	-54.25	-53.26	-53.61	-53.70	-53.93
19	-38.63	-38.68	-50.83	-51.08	-53.12	-53.18	---	---	-53.61	-53.80	---	---
20	-38.64	-38.69	-51.08	-51.34	-53.09	-53.18	---	---	-53.80	-53.99	-54.12	-54.16
21	-38.63	-38.67	-51.34	-51.41	-53.17	-53.31	---	---	-53.99	-54.11	-54.16	-54.22
22	-38.60	-38.64	-51.39	-51.49	-53.31	-53.36	---	---	---	---	-54.22	-54.30
23	-36.46	-38.60	-51.46	-51.63	-53.36	-53.46	---	---	---	---	---	---
24	-36.95	-37.75	-51.63	-51.79	-53.46	-53.55	---	---	---	---	---	---
25	-37.75	-38.19	---	---	-53.55	-53.64	---	---	-54.24	-54.29	-54.28	-54.38
26	-38.19	-38.33	---	---	-53.64	-53.75	-54.05	-54.19	-54.28	-54.30	-54.38	-54.43
27	-38.32	-38.41	---	---	-53.75	-53.79	-54.19	-54.28	-54.23	-54.28	-54.40	-54.42
28	-38.41	-38.58	---	---	-53.79	-53.81	---	---	-54.23	-54.26	-54.41	-54.47
29	-38.58	-38.64	-52.01	-52.10	-53.81	-54.04	---	---	---	---	-54.47	-54.54
30	-38.59	-39.60	-52.10	-52.22	-54.04	-54.10	---	---	---	---	-54.54	-54.57
31	---	---	-52.22	-52.28	---	---	---	---	-54.15	-54.20	---	---
MONTH	-36.46	-39.60	-39.60	-52.28	-52.21	-54.10	-54.01	-55.33	-52.25	-54.32	-51.50	-54.57
YEAR	8.03	-55.33										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 102. SITE ID.--391032076385904. PERMIT NUMBER.--AA-81-2641.  
 LOCATION.--Lat 39°10'32", long 76°38'59", Hydrologic Unit 02060003, off Aviation Blvd., 0.5 mi north of Dorsey Road intersection.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 95; casing diameter 6 in., to 80 ft; screen diameter 6 in. from 80 to 90 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recorder interval from Dec. 1983 to Oct. 2, 1990.

DATUM.--Elevation of land surface is 76.72 ft above sea level.

Measuring Point: Top of casing, 5.27 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

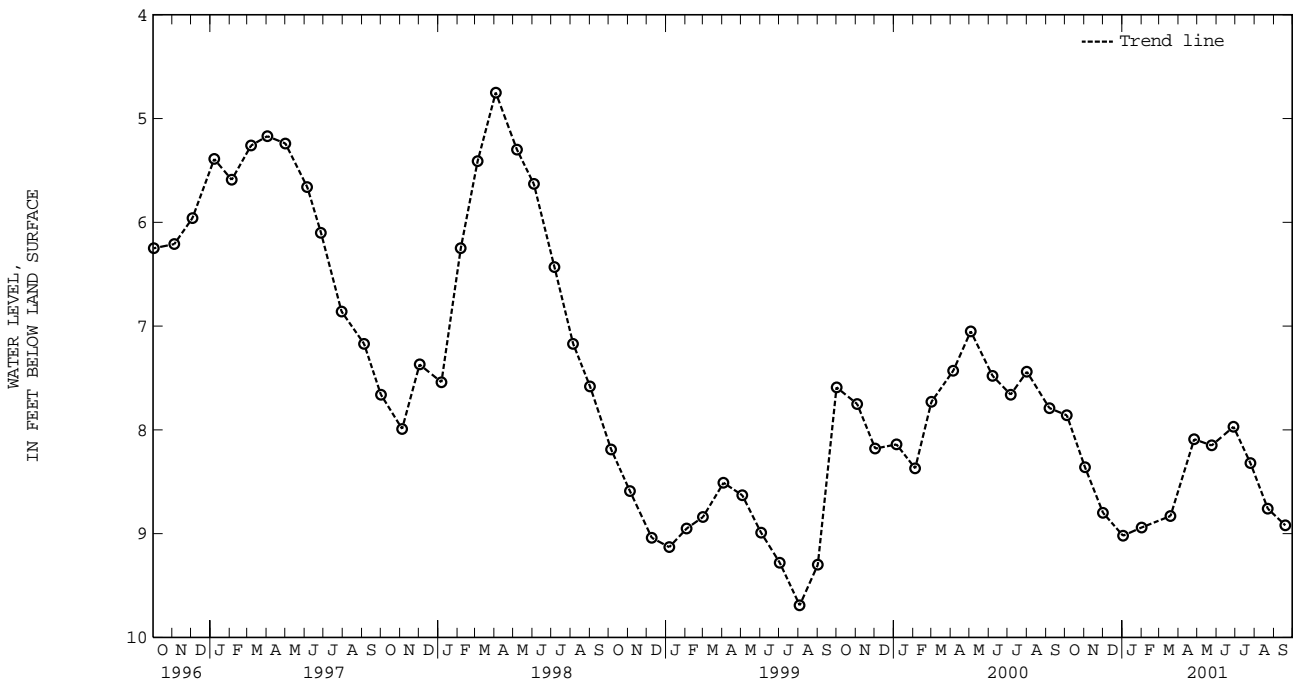
PERIOD OF RECORD.--December 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.75 ft below land surface, April 3, 1998;  
 lowest measured, 14.74 ft below land surface, Oct. 31, 1986, and Nov. 1, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	7.86	JAN 02, 2001	9.02	APR 26, 2001	8.09	JUL 25, 2001	8.32
NOV 02	8.36	FEB 01	8.94	MAY 24	8.15	AUG 22	8.76
DEC 01	8.80	MAR 19	8.83	JUN 28	7.97	SEP 19	8.92

WATER YEAR 2001    HIGHEST    7.86    OCT 04, 2000    LOWEST    9.02    JAN 02, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 108. SITE ID.--391032076385906. PERMIT NUMBER.--AA-81-3475.

LOCATION.--Lat 39°10'32", long 76°38'59", Hydrologic Unit 02060003, off Aviation Blvd., 0.5 mi north of Dorsey Road intersection.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 11 ft; casing diameter 4 in., to 6 ft and casing diameter 6 in. to 3 ft; screen diameter 4 in. from 6 to 11 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recorder interval from Feb. 23, 1986, to Sept. 30, 1990.

DATUM.--Elevation of land surface is 78.31 ft above sea level.

Measuring Point: Top of casing, 5.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Glen Burnie Project observation well.

PERIOD OF RECORD.--August 1984 to current year.

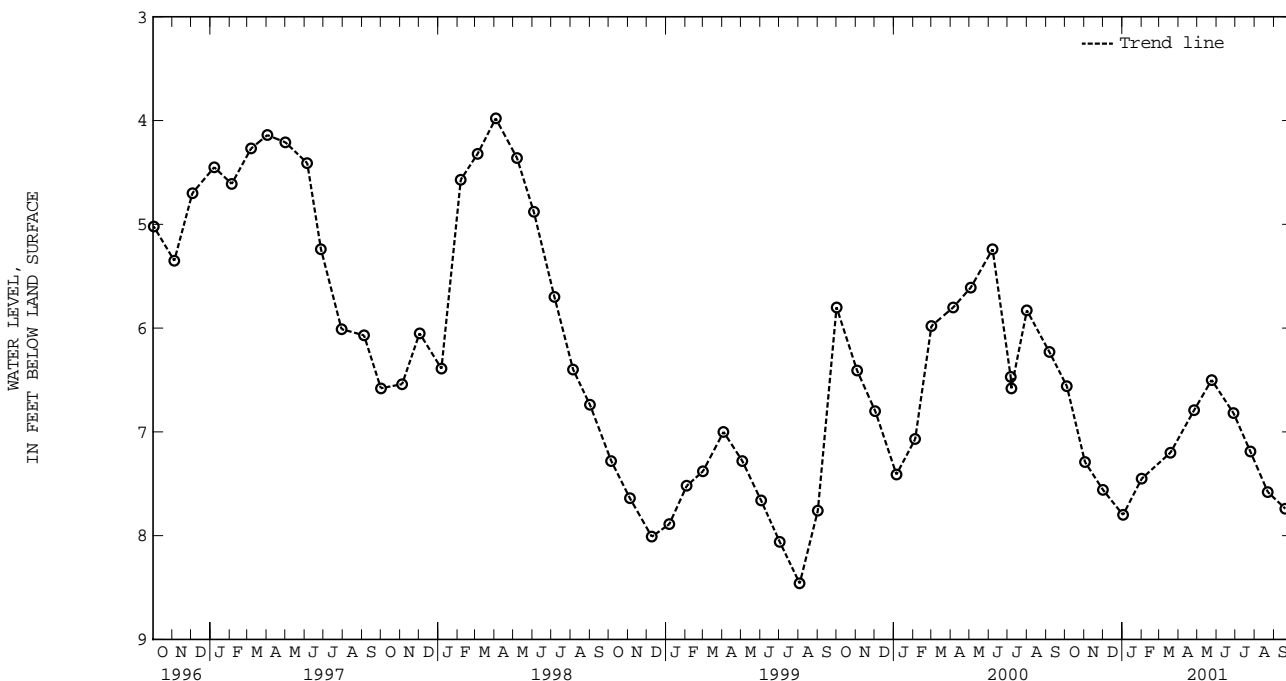
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.98 ft below land surface, April 3, 1998;

lowest measured, Dry on Aug. 22, 1985; Jan. 17, 1986; May 20, 1986; July 8, 1986 and Nov. 3, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	6.56	JAN 02, 2001	7.80	APR 26, 2001	6.79	JUL 25, 2001	7.19
NOV 02	7.29	FEB 01	7.45	MAY 24	6.50	AUG 22	7.58
DEC 01	7.56	MAR 19	7.20	JUN 28	6.82	SEP 19	7.74

WATER YEAR 2001 HIGHEST 6.50 MAY 24, 2001 LOWEST 7.80 JAN 02, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 109. SITE ID.--391006076380101. PERMIT NUMBER.--AA-81-4890.

LOCATION.--Lat 39°10'06", long 76°38'01", Hydrologic Unit 02060003, 0.05 mi south of Dorsey Road, 0.17 mi west of MD Rt. 648, near Robert Pascal Senior Center.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 46 ft; casing diameter 4 in., to 36 ft; screen diameter 4 in. from 36 to 46 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from October 1985 to July 15, 1998, and 30-minute recorder interval from July 15, 1998 to current year.

DATUM.--Elevation of land surface is 35.78 ft above sea level.

Measuring Point: Top of recorder platform, 7.10 ft above land surface. On Aug. 1, 1996, 1.15 ft of casing was added.

The new Measuring point height was 5.44 ft. This extended casing was later removed on March 24, 1997. On Jan. 5, 2000 an extension pipe was added to the casing. The new measuring point height is 7.10 ft above land surface.

REMARKS.--Anne Arundel Co. observation well network. Water levels before Feb. 23, 1986 are not currently available.

Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, (See Measuring Point) 39.17 ft above sea level (flowing), flowing on numerous days (see hydrograph); with added casing highest level measured, 40.24 ft above sea level (flowing), April 21, and May 24, 2000; lowest measured, 20.20 ft above sea level, Oct. 15, 1987.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	39.43	39.42	39.17	39.13	---	---	39.10	38.96	---	---
2	---	---	39.42	39.40	39.13	39.08	---	---	39.10	38.96	39.22	39.19
3	39.71	39.67	39.42	39.41	39.09	39.07	---	---	---	---	39.19	39.11
4	39.67	39.65	39.45	39.42	39.20	39.09	---	---	---	---	39.20	39.10
5	39.67	39.63	39.45	39.40	39.28	39.20	---	---	39.20	38.98	39.23	39.20
6	39.68	39.60	39.40	39.35	39.24	39.16	39.26	39.12	39.16	39.09	39.26	39.16
7	39.60	39.52	39.37	39.35	---	---	---	---	39.09	38.92	39.16	39.03
8	39.52	39.51	39.37	39.36	---	---	---	---	38.98	38.91	39.07	39.02
9	39.53	39.51	39.51	39.37	---	---	---	---	39.21	38.98	39.11	39.07
10	39.55	39.53	39.56	39.43	---	---	---	---	39.23	38.95	---	---
11	39.55	39.51	39.43	39.29	39.25	39.12	---	---	---	---	---	---
12	39.51	39.47	39.31	39.29	39.37	38.97	39.00	38.96	---	---	39.15	38.97
13	39.51	39.48	39.33	39.31	39.03	38.90	---	---	39.02	38.95	39.30	39.15
14	39.53	39.51	39.41	39.33	39.23	39.03	---	---	39.21	39.02	39.24	39.07
15	39.54	39.53	39.39	39.27	39.13	39.05	39.05	38.99	39.22	39.07	---	---
16	39.53	39.51	39.39	39.27	39.31	39.05	39.05	38.97	39.20	39.06	---	---
17	39.51	39.47	39.39	39.26	39.61	39.31	---	---	39.21	38.99	39.12	39.08
18	39.53	39.48	39.26	39.21	39.37	39.20	---	---	---	---	39.08	38.96
19	39.53	39.47	39.26	39.23	39.31	39.21	39.21	39.02	---	---	38.96	38.94
20	39.47	39.42	39.34	39.26	39.31	39.12	39.19	39.16	39.13	39.08	39.05	38.96
21	39.48	39.45	39.29	39.22	39.15	39.11	39.19	38.98	39.13	38.98	39.45	39.05
22	39.47	39.34	39.24	39.21	39.21	39.15	38.98	38.90	---	---	39.45	39.33
23	39.35	39.31	39.23	39.16	---	---	39.10	38.91	---	---	39.33	39.26
24	39.46	39.35	39.17	39.16	---	---	39.13	39.10	39.02	38.91	39.29	39.21
25	39.47	39.46	39.31	39.17	---	---	39.13	38.99	39.25	38.96	39.23	39.19
26	39.47	39.47	39.49	39.31	---	---	39.12	38.99	39.25	39.06	39.23	39.17
27	39.55	39.47	39.44	39.32	39.22	39.12	39.17	39.03	---	---	39.17	39.15
28	39.55	39.41	39.32	39.20	39.23	39.21	---	---	---	---	---	---
29	39.46	39.41	39.28	39.19	39.21	39.18	---	---	---	---	---	---
30	39.46	39.43	39.28	39.17	39.26	39.19	39.31	39.05	---	---	39.58	39.46
31	39.43	39.42	---	---	39.23	39.08	39.30	39.10	---	---	---	---
MONTH	39.71	39.31	39.56	39.16	39.61	38.90	39.31	38.90	39.25	38.91	39.58	38.94

GROUND-WATER LEVELS IN MARYLAND--Continued

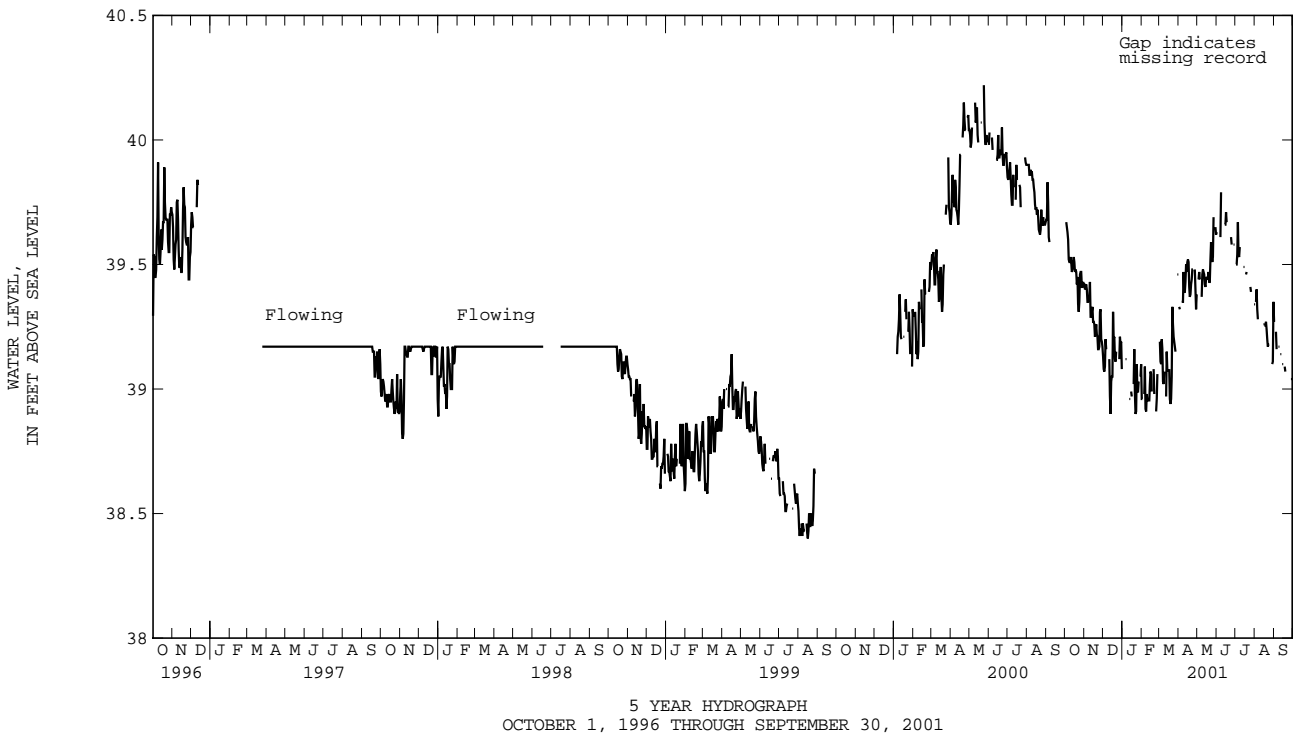
ANNE ARUNDEL COUNTY--Continued

AA Ad 109--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	39.79	39.63	---	---	---	---	39.40	39.27
2	39.43	39.33	---	---	---	---	39.65	39.50	---	---	---	---
3	39.37	39.32	39.50	39.44	---	---	39.54	39.50	39.44	39.35	---	---
4	---	---	39.51	39.47	---	---	39.70	39.54	39.44	39.40	39.27	39.23
5	---	---	39.52	39.44	---	---	39.70	39.67	39.40	39.32	39.25	39.16
6	39.50	39.35	---	---	---	---	39.67	39.54	39.32	39.28	---	---
7	39.49	39.35	---	---	39.83	39.61	39.57	39.53	---	---	---	---
8	39.47	39.35	39.46	39.37	39.82	39.79	39.68	39.57	---	---	39.18	39.17
9	39.56	39.47	39.50	39.46	---	---	---	---	---	---	---	---
10	39.54	39.39	39.50	39.48	---	---	---	---	---	---	---	---
11	39.43	39.39	39.51	39.47	---	---	---	---	---	---	39.16	39.14
12	39.55	39.43	39.52	39.46	---	---	---	---	---	---	---	---
13	39.55	39.50	39.46	39.42	---	---	---	---	---	---	---	---
14	39.51	39.47	39.44	39.41	39.71	39.66	39.51	39.49	---	---	39.16	39.10
15	39.61	39.51	39.53	39.44	39.71	39.66	---	---	39.33	39.26	---	---
16	39.61	39.52	39.53	39.45	39.74	39.71	---	---	---	---	---	---
17	39.52	39.51	39.45	39.44	39.74	39.67	---	---	---	---	---	---
18	39.53	39.41	39.47	39.45	---	---	39.54	39.46	39.28	39.25	39.10	39.09
19	39.41	39.37	39.51	39.47	---	---	39.53	39.47	39.30	39.27	39.10	39.07
20	39.43	39.38	39.50	39.43	---	---	---	---	39.30	39.24	---	---
21	39.44	39.42	39.52	39.43	---	---	---	---	39.24	39.20	---	---
22	39.49	39.44	39.69	39.52	---	---	---	---	39.20	39.17	---	---
23	39.55	39.48	39.69	39.59	---	---	---	---	39.23	39.18	---	---
24	39.59	39.48	39.59	39.53	39.67	39.61	---	---	39.23	39.18	---	---
25	---	---	39.53	39.51	39.61	39.58	39.49	39.41	---	---	---	---
26	---	---	39.69	39.53	---	---	39.45	39.39	---	---	---	---
27	39.56	39.48	39.78	39.69	---	---	---	---	---	---	---	---
28	39.55	39.40	---	---	39.63	39.58	---	---	---	---	39.08	39.04
29	39.40	39.32	---	---	---	---	---	---	39.17	39.10	---	---
30	39.49	39.38	39.72	39.65	---	---	---	---	39.41	39.11	---	---
31	---	---	39.65	39.62	---	---	39.40	39.34	39.40	39.35	---	---
MONTH	39.61	39.32	39.78	39.37	39.83	39.58	39.70	39.34	39.44	39.10	39.40	39.04
YEAR	39.83	38.90										

Daily Low Water Levels



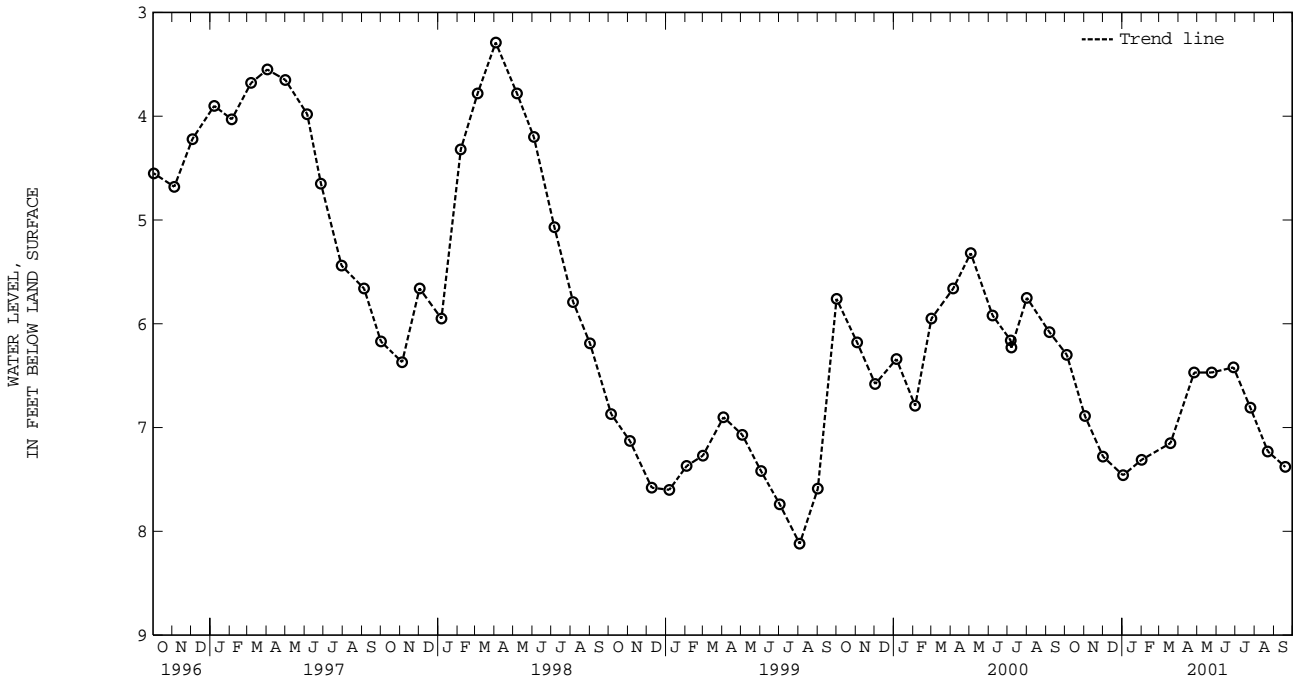
ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 110. SITE ID.--391032076385907. PERMIT NUMBER.--AA-88-8878.  
 LOCATION.--Lat 39°10'32", long 76°38'59", Hydrologic Unit 02060003, off Aviation Blvd. 0.5 mi of Dorsey Road intercession.  
 Owner:Maryland State Highway Administration.  
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 28 ft; casing diameter 4 in., to 18 ft;  
 screen diameter 4 in. from 18 to 28 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 77.42 ft above sea level.  
 Measuring Point: Top of casing, 5.03 ft. above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--December 1992 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.29 ft below land surface, April 3, 1998;  
 lowest measured, 9.89 ft below land surface, December 3, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	6.30	JAN 02, 2001	7.46	APR 26, 2001	6.47	JUL 25, 2001	6.81
NOV 02	6.89	FEB 01	7.31	MAY 24	6.47	AUG 22	7.23
DEC 01	7.28	MAR 19	7.15	JUN 28	6.42	SEP 19	7.38

WATER YEAR 2001      HIGHEST    6.30    OCT 04, 2000      LOWEST    7.46    JAN 02, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

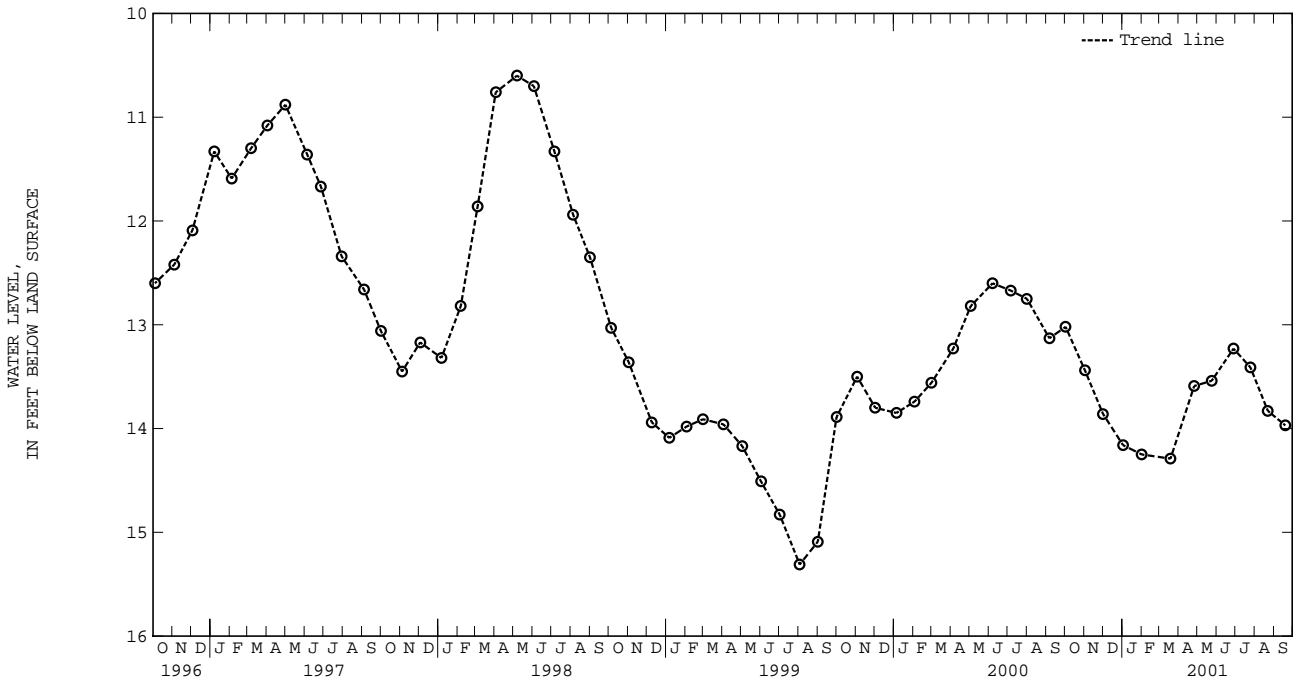
ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 91. SITE ID.--390950076391101. PERMIT NUMBER.--AA-04-2029.  
 LOCATION.--Lat 39°09'50", long 76°39'11", Hydrologic Unit 02060003, .3 mi southeast of the intersection of Dorsey Road and Baltimore Annapolis Blvd., in the median of MD Route 176, Glen Burnie.  
 Owner: Anne Arundel County Department of Public Works.  
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, artesian, observation well, depth 160 ft; casing diameter 6 in., to 119 ft; casing diameter 4 in. from 119 to 155 ft; screen diameter 2 in. from 155 to 160 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital recorder from April 1981 to March 1986.  
 DATUM.--Elevation of land surface is 82.63 ft above sea level.  
 Measuring Point: Top of casing, 3.25 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels were affected by local ground-water withdrawal up to May 1995; when the nearby pumping station discontinued ground-water withdrawal from the Patapsco aquifer.  
 PERIOD OF RECORD.--March 1977 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.60 ft below land surface, May 7, 1998;  
 lowest measured, 75.20 ft below land surface, Sept. 1, 1982.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	13.02	JAN 02, 2001	14.16	APR 26, 2001	13.59	JUL 25, 2001	13.41
NOV 02	13.44	FEB 01	14.25	MAY 24	13.54	AUG 22	13.83
DEC 01	13.86	MAR 19	14.29	JUN 28	13.23	SEP 19	13.97

WATER YEAR 2001      HIGHEST    13.02    OCT 02, 2000      LOWEST    14.29    MAR 19, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 152. SITE ID.--390821076365401. PERMIT NUMBER.--AA-81-3463.  
 LOCATION.--Lat 39°08'21", long 76°36'54", Hydrologic Unit 02060003, 100 ft north of MD Rt 100, 0.2 mi southeast of the intersection of Oakwood Road and Funke Road, at Woodside Elementary School.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 103 ft; casing diameter 6 in., to 90 ft; and casing diameter 4 in. from 100 to 103 ft; screen diameter 4 in. from 90 to 100 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from March 14, 1985 to December 2, 1996, and 30-minute recorder interval from December 2, 1996 to current year.  
 DATUM.--Elevation of land surface is 53.29 ft above sea level.  
 Measuring Point: Top of shelter platform, 3.00 ft above land surface.  
 REMARKS.--Anne Arundel Co. observation well network. Water levels before Feb. 23, 1986 are not currently available. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--March 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.98 ft above sea level, April 14, 1994; lowest measured, 19.88 ft above sea level, Aug. 21, 1987.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.11	24.03	24.04	24.00	23.78	23.70	23.65	23.56	23.77	23.59	23.87	23.81
2	24.19	24.11	24.01	23.99	23.70	23.61	23.56	23.50	23.78	23.61	23.92	23.87
3	24.20	24.12	24.04	23.99	23.66	23.59	23.68	23.51	23.66	23.53	23.87	23.76
4	24.14	24.09	24.07	24.03	23.79	23.66	23.72	23.68	23.63	23.53	23.87	23.74
5	24.14	24.06	24.07	23.98	23.90	23.79	23.89	23.72	23.87	23.63	23.94	23.86
6	24.17	24.07	23.98	23.87	23.85	23.73	23.90	23.72	23.84	23.70	23.98	23.84
7	24.07	23.97	23.88	23.84	23.91	23.82	23.75	23.69	23.70	23.52	23.84	23.66
8	23.98	23.95	23.92	23.82	23.85	23.73	23.77	23.70	23.66	23.52	23.70	23.63
9	24.02	23.96	24.10	23.92	23.73	23.57	23.75	23.62	23.87	23.65	23.76	23.70
10	24.04	24.00	24.19	24.01	23.71	23.58	23.78	23.57	23.92	23.57	23.71	23.64
11	24.12	23.97	24.01	23.86	23.87	23.71	24.00	23.78	23.57	23.41	23.69	23.63
12	24.06	23.96	23.89	23.85	24.00	23.57	23.78	23.62	23.55	23.41	23.77	23.53
13	24.03	23.98	23.95	23.86	23.61	23.48	23.62	23.54	23.63	23.55	23.99	23.77
14	24.04	24.01	24.05	23.95	23.85	23.61	23.64	23.54	23.88	23.63	23.94	23.72
15	24.06	24.02	24.00	23.88	23.72	23.63	24.02	23.64	23.92	23.73	23.76	23.70
16	24.32	24.01	24.01	23.88	23.98	23.66	23.97	23.90	23.86	23.71	23.77	23.73
17	24.43	24.20	24.05	23.90	24.33	23.98	24.52	23.97	23.92	23.61	23.78	23.70
18	24.20	24.15	23.90	23.79	24.03	23.80	24.41	24.18	23.61	23.53	23.70	23.55
19	24.16	24.00	23.96	23.85	23.96	23.83	24.33	24.09	23.66	23.53	23.55	23.51
20	24.00	23.94	24.01	23.92	23.96	23.66	24.09	23.98	23.74	23.66	23.63	23.52
21	24.02	23.97	23.98	23.88	23.73	23.64	24.00	23.63	23.78	23.70	24.12	23.63
22	24.00	23.83	23.89	23.83	23.80	23.60	23.63	23.55	23.77	23.64	24.14	23.96
23	23.86	23.78	23.84	23.74	23.60	23.53	23.76	23.57	23.86	23.69	23.97	23.85
24	23.98	23.86	23.76	23.71	23.72	23.56	23.83	23.76	23.69	23.54	23.87	23.76
25	24.73	23.98	23.94	23.74	23.66	23.51	23.81	23.63	23.90	23.57	23.78	23.73
26	25.09	24.69	24.16	23.94	23.66	23.51	23.76	23.60	23.90	23.68	23.78	23.66
27	24.69	24.38	24.10	23.97	23.81	23.66	23.85	23.67	23.77	23.67	23.66	23.60
28	24.38	24.09	23.97	23.83	23.84	23.76	23.67	23.56	23.82	23.74	23.66	23.59
29	24.10	24.05	23.92	23.80	23.80	23.75	23.68	23.55	---	---	23.94	23.65
30	24.10	24.04	23.95	23.78	23.89	23.80	24.01	23.68	---	---	24.12	23.94
31	24.04	24.01	---	---	23.83	23.65	24.01	23.77	---	---	24.00	23.91
MONTH	25.09	23.78	24.19	23.71	24.33	23.48	24.52	23.50	23.92	23.41	24.14	23.51

GROUND-WATER LEVELS IN MARYLAND--Continued

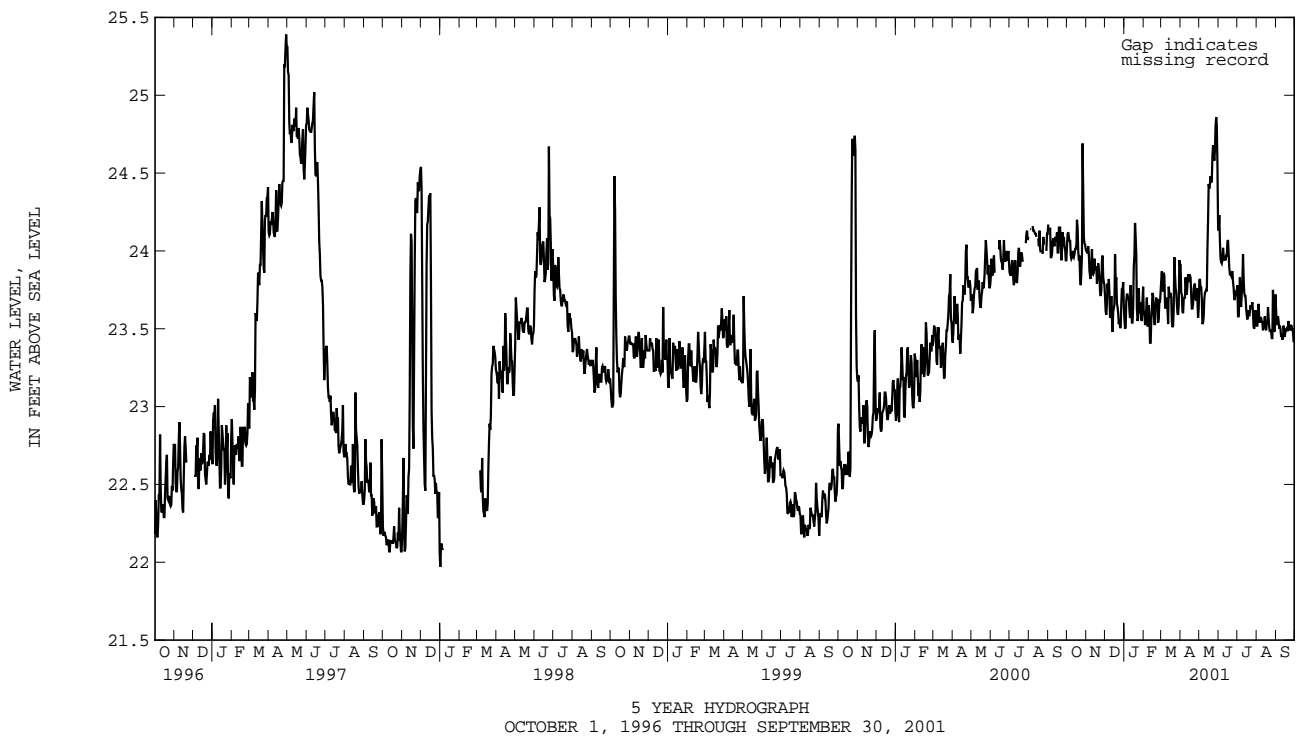
ANNE ARUNDEL COUNTY--Continued

AA Bd 152--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.97	23.91	23.87	23.81	24.27	24.13	23.81	23.78	23.56	23.52	23.84	23.62
2	23.91	23.73	23.88	23.82	24.28	24.23	23.79	23.58	23.61	23.52	23.62	23.53
3	23.78	23.72	23.83	23.76	24.28	24.06	23.67	23.58	23.79	23.61	23.58	23.53
4	23.73	23.61	23.82	23.77	24.06	23.95	23.85	23.67	23.77	23.66	23.77	23.58
5	23.69	23.60	23.83	23.69	23.98	23.93	23.88	23.83	23.67	23.56	23.70	23.55
6	23.87	23.69	23.69	23.53	23.97	23.92	23.83	23.69	23.57	23.54	23.55	23.50
7	23.88	23.70	23.59	23.54	24.12	23.94	23.73	23.64	23.61	23.57	23.54	23.52
8	23.83	23.70	23.69	23.58	24.07	24.02	23.86	23.73	23.62	23.57	23.53	23.50
9	23.96	23.83	23.75	23.69	24.02	23.97	23.98	23.81	23.58	23.55	23.51	23.45
10	23.95	23.75	23.76	23.73	23.99	23.94	24.20	23.98	23.59	23.54	23.51	23.46
11	23.79	23.72	23.79	23.74	23.99	23.96	24.04	23.82	23.54	23.49	23.49	23.43
12	23.92	23.79	23.81	23.75	24.03	23.94	23.82	23.73	23.56	23.51	23.61	23.44
13	23.93	23.85	24.01	23.74	24.08	23.97	23.73	23.71	23.63	23.54	23.66	23.52
14	23.85	23.80	24.20	24.01	24.10	23.97	23.73	23.71	23.64	23.58	23.63	23.48
15	23.99	23.85	24.49	24.20	24.10	24.06	23.71	23.63	23.59	23.51	23.50	23.45
16	24.00	23.84	24.58	24.43	24.09	24.07	23.64	23.59	23.54	23.49	23.51	23.49
17	23.86	23.83	24.43	24.40	24.09	23.98	23.62	23.56	23.58	23.53	23.51	23.49
18	23.88	23.71	24.48	24.43	23.98	23.89	23.71	23.62	23.78	23.54	23.54	23.50
19	23.71	23.63	24.54	24.48	23.91	23.85	23.70	23.59	23.78	23.64	23.52	23.49
20	23.68	23.63	24.53	24.44	23.89	23.85	23.63	23.58	23.68	23.57	23.55	23.49
21	23.86	23.66	24.61	24.45	23.88	23.84	23.67	23.61	23.57	23.51	23.57	23.55
22	23.83	23.76	24.79	24.61	23.94	23.86	23.68	23.65	23.51	23.48	23.55	23.51
23	23.87	23.78	24.80	24.68	23.98	23.87	23.68	23.63	23.56	23.49	23.52	23.49
24	23.92	23.79	24.68	24.62	23.87	23.80	23.69	23.65	23.56	23.49	23.65	23.52
25	23.79	23.69	24.64	24.58	23.84	23.76	23.69	23.67	23.49	23.44	23.68	23.52
26	23.76	23.68	24.80	24.64	23.77	23.69	23.69	23.60	23.87	23.44	23.52	23.49
27	23.89	23.76	24.97	24.80	23.73	23.69	23.60	23.51	23.98	23.75	23.55	23.50
28	23.91	23.68	24.97	24.86	23.75	23.73	23.55	23.50	23.75	23.56	23.53	23.48
29	23.68	23.57	24.86	24.81	23.77	23.74	23.68	23.55	23.56	23.48	23.48	23.42
30	23.81	23.63	24.81	24.56	23.79	23.75	23.70	23.62	23.93	23.49	23.51	23.42
31	---	---	24.56	24.19	---	---	23.62	23.55	23.87	23.72	---	---
MONTH	24.00	23.57	24.97	23.53	24.28	23.69	24.20	23.50	23.98	23.44	23.84	23.42
YEAR	25.09	23.41										

Daily Low Water Levels





## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 155. SITE ID.--390938076383701. PERMIT NUMBER.--AA-81-3460.

LOCATION.--Lat 39°09'38", long 76°38'37", Hydrologic Unit 02060003, 200 ft off MD Rt. 3, 0.4 mi south of MD Rt. 176 intersection, off Stewart Avenue near bike trail.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 159 ft; casing diameter 6 in., to 145 ft. screen diameter 4 in. from 145 to 155 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 23, 1984 to June 19, 1998, and 30-minute recorder interval June 19, 1998 to current year.

DATUM.--Elevation of land surface is 57.50 ft above sea level.

Measuring Point: Top of shelter platform, 2.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1984 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.73 ft above sea level, April 9, 1998; lowest measured, 34.54 ft above sea level, Oct. 10, 1986.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	48.43	48.38	48.13	48.10	47.87	47.83	47.71	47.68	47.71	47.61	47.85	47.78
2	48.47	48.43	48.13	48.09	47.84	47.79	47.70	47.67	47.80	47.63	47.86	47.79
3	48.45	48.36	48.14	48.09	47.86	47.79	47.83	47.68	47.63	47.57	47.79	47.71
4	48.42	48.36	48.15	48.12	47.95	47.86	47.85	47.78	47.70	47.58	47.86	47.70
5	48.41	48.33	48.14	48.04	48.02	47.88	47.96	47.80	47.89	47.70	47.89	47.81
6	48.43	48.29	48.11	48.02	47.97	47.83	47.90	47.73	47.80	47.70	47.91	47.75
7	---	---	48.09	48.04	47.99	47.88	47.76	47.73	47.70	47.58	47.75	47.64
8	---	---	48.09	48.03	47.92	47.78	47.80	47.73	47.69	47.58	47.74	47.64
9	---	---	48.23	48.08	47.78	47.70	47.74	47.66	47.89	47.69	47.78	47.69
10	48.33	48.27	48.28	48.07	47.86	47.73	47.72	47.60	47.91	47.55	47.70	47.66
11	48.27	48.21	48.07	47.97	48.00	47.83	47.71	47.65	47.55	47.50	47.73	47.62
12	48.24	48.18	48.04	47.97	48.09	47.61	47.66	47.60	47.68	47.53	47.84	47.58
13	48.27	48.21	48.07	48.00	47.80	47.61	47.63	47.59	47.71	47.67	47.95	47.82
14	48.29	48.25	48.13	48.05	47.98	47.80	47.70	47.62	47.88	47.69	47.82	47.67
15	48.29	48.24	48.05	47.96	47.80	47.73	47.73	47.70	47.89	47.66	47.77	47.67
16	48.25	48.19	48.12	47.96	48.04	47.78	47.73	47.60	47.86	47.66	47.77	47.72
17	48.22	48.17	48.12	47.93	48.29	47.98	47.63	47.60	47.87	47.61	47.76	47.68
18	48.28	48.22	47.99	47.90	47.98	47.87	47.70	47.61	47.67	47.60	47.68	47.58
19	48.24	48.16	48.00	47.93	48.06	47.96	47.88	47.70	47.77	47.66	47.63	47.57
20	48.19	48.13	48.09	47.97	48.05	47.78	47.86	47.78	47.82	47.75	47.71	47.60
21	48.22	48.17	47.98	47.90	47.90	47.78	47.86	47.61	47.81	47.59	48.09	47.71
22	48.17	48.06	47.97	47.89	47.95	47.74	47.68	47.60	47.78	47.59	48.09	47.92
23	48.13	48.05	47.91	47.85	47.79	47.72	47.83	47.68	47.78	47.62	47.96	47.87
24	48.22	48.13	47.88	47.85	47.93	47.79	47.84	47.80	47.67	47.54	47.94	47.81
25	48.23	48.18	48.07	47.87	47.81	47.71	47.80	47.63	47.95	47.67	47.91	47.80
26	48.19	48.15	48.21	48.07	47.86	47.71	47.83	47.63	47.89	47.67	47.90	47.80
27	48.28	48.19	48.10	47.97	47.94	47.86	47.88	47.64	47.82	47.67	47.84	47.78
28	48.28	48.07	47.97	47.86	47.94	47.86	47.65	47.61	47.81	47.74	47.88	47.79
29	48.18	48.07	48.00	47.86	47.89	47.85	47.75	47.62	---	---	48.13	47.84
30	48.17	48.11	48.01	47.83	47.96	47.87	47.99	47.75	---	---	48.25	48.09
31	48.13	48.10	---	---	47.87	47.71	47.93	47.71	---	---	48.09	48.05
MONTH	48.47	48.05	48.28	47.83	48.29	47.61	47.99	47.59	47.95	47.50	48.25	47.57

GROUND-WATER LEVELS IN MARYLAND--Continued

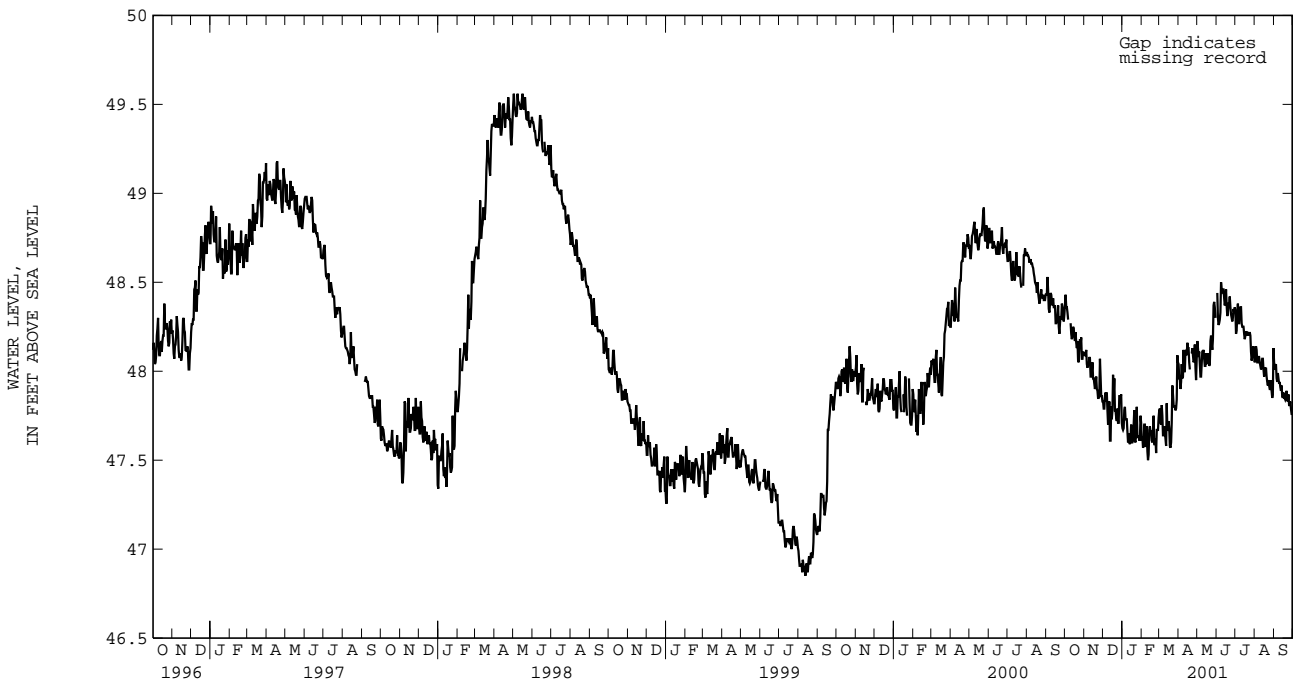
ANNE ARUNDEL COUNTY--Continued

AA Bd 155--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	48.11	48.04	48.20	48.17	---	---	48.43	48.34	48.10	48.05	48.21	48.05
2	48.04	47.96	48.19	48.13	48.50	48.44	48.34	48.21	48.15	48.09	48.06	48.01
3	48.05	47.96	48.13	48.08	48.46	48.30	48.32	48.23	48.22	48.14	48.09	48.03
4	47.97	47.90	48.18	48.11	48.31	48.26	48.44	48.32	48.20	48.12	48.10	48.04
5	48.05	47.94	48.18	48.04	48.33	48.27	48.44	48.38	48.12	48.05	48.04	47.96
6	48.18	48.04	48.05	47.97	48.35	48.29	48.38	48.27	48.10	48.05	48.00	47.94
7	48.13	47.96	48.06	47.97	48.58	48.33	48.35	48.27	48.12	48.08	48.01	47.99
8	48.14	47.97	48.15	48.04	48.55	48.50	48.43	48.35	48.10	48.08	47.99	47.96
9	48.22	48.12	48.17	48.11	48.50	48.46	48.41	48.36	48.09	48.05	47.97	47.93
10	48.14	48.00	48.16	48.11	48.48	48.45	48.38	48.36	48.08	48.03	47.99	47.94
11	48.11	48.00	48.18	48.12	48.51	48.46	48.39	48.27	48.03	48.01	47.95	47.91
12	48.23	48.11	48.17	48.07	48.49	48.46	48.27	48.25	48.09	48.02	47.93	47.89
13	48.22	48.12	48.07	48.03	48.46	48.41	48.27	48.25	48.12	48.07	47.98	47.92
14	48.17	48.09	48.10	48.03	48.41	48.37	48.28	48.25	48.11	48.07	47.97	47.86
15	48.27	48.16	48.19	48.10	48.46	48.40	48.25	48.21	48.07	48.01	47.92	47.85
16	48.27	48.13	48.16	48.05	48.48	48.46	48.22	48.18	48.04	47.97	47.93	47.88
17	48.19	48.13	48.10	48.04	48.46	48.37	48.23	48.20	48.07	48.02	47.91	47.85
18	48.19	48.05	48.12	48.09	48.37	48.31	48.30	48.22	48.05	47.99	47.91	47.85
19	48.08	48.01	48.15	48.10	48.40	48.33	48.27	48.22	48.07	48.02	47.87	47.84
20	---	---	48.10	48.03	48.44	48.38	48.25	48.20	48.05	47.97	47.91	47.85
21	---	---	48.18	48.04	48.45	48.38	48.27	48.22	47.97	47.94	47.92	47.89
22	48.16	48.10	48.31	48.17	48.47	48.42	48.26	48.21	47.97	47.92	47.90	47.84
23	48.24	48.13	48.29	48.20	48.47	48.36	48.24	48.20	48.03	47.95	47.87	47.83
24	48.26	48.09	48.20	48.15	48.36	48.32	48.25	48.22	48.00	47.92	47.98	47.87
25	48.10	48.05	48.19	48.12	48.34	48.30	48.23	48.20	47.92	47.90	47.95	47.81
26	48.16	48.06	48.37	48.18	48.32	48.28	48.21	48.11	47.98	47.90	47.86	47.81
27	48.23	48.15	48.45	48.37	48.37	48.30	48.11	48.06	48.00	47.95	47.87	47.83
28	48.18	48.02	48.45	48.39	48.37	48.35	48.13	48.08	47.95	47.89	47.83	47.79
29	48.07	47.95	48.39	48.36	48.38	48.33	48.22	48.13	47.89	47.85	47.80	47.76
30	48.17	48.07	48.36	48.30	48.39	48.36	48.23	48.14	48.14	47.87	47.83	47.76
31	---	---	---	---	---	---	48.14	48.09	48.19	48.13	---	---
MONTH	48.27	47.90	48.45	47.97	48.58	48.26	48.44	48.06	48.22	47.85	48.21	47.76
YEAR	48.58	47.50										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 156. SITE ID.--390922076371001. PERMIT NUMBER.--AA-81-3462.

LOCATION.--Lat 39°09'22", long 76°37'10", Hydrologic Unit 02060003, off Wardour Road, 0.3 mi north of Aquahart Road intersection, next to the Baltimore and Annapolis bike trail.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 173 ft; casing diameter 6 in., to 160 ft;

casing diameter 4 in. from 170 to 173 ft; screen diameter 4 in. from 160 to 170 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--30-minute recorder interval from October 1984 to June 19, 1998, and

30-minute recorder interval from June 19, 1998 to current year.

DATUM.--Elevation of land surface is 68.99 ft above sea level.

Measuring Point: Top of shelter platform, 2.26 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.04 ft above sea level, May 8, 1994;

lowest measured, 13.47 ft above sea level, Feb. 10, 1988.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.29	25.17	25.17	25.13	24.77	24.71	24.58	24.50	24.58	24.38	24.64	24.56
2	25.37	25.29	25.16	25.12	24.71	24.62	24.50	24.45	24.62	24.39	24.68	24.62
3	25.37	25.26	25.18	25.12	24.69	24.61	24.68	24.45	24.43	24.30	24.62	24.46
4	25.32	25.26	25.24	25.18	24.87	24.69	24.72	24.68	24.47	24.30	24.60	24.44
5	25.31	25.23	25.23	25.10	25.02	24.87	24.94	24.69	24.71	24.47	24.66	24.60
6	25.35	25.20	25.10	25.05	24.96	24.79	24.92	24.68	24.63	24.48	24.71	24.53
7	25.20	25.07	25.09	25.03	25.00	24.89	24.68	24.65	24.48	24.24	24.53	24.28
8	25.10	25.06	25.10	25.04	24.92	24.74	24.73	24.65	24.43	24.24	24.38	24.27
9	25.15	25.09	25.34	25.10	24.74	24.58	24.66	24.55	24.75	24.43	24.45	24.36
10	25.21	25.14	25.42	25.15	24.76	24.58	24.57	24.43	24.80	24.30	24.36	24.30
11	25.16	25.09	25.15	24.94	25.01	24.76	24.58	24.46	24.30	24.14	24.38	24.25
12	25.09	25.03	24.99	24.94	25.16	24.50	24.58	24.45	24.35	24.14	24.50	24.17
13	25.15	25.08	25.06	24.97	24.63	24.41	24.45	24.40	24.43	24.35	24.76	24.50
14	25.20	25.15	25.17	25.06	24.86	24.63	24.54	24.42	24.76	24.43	24.63	24.34
15	25.21	25.18	25.09	24.92	24.69	24.56	24.99	24.54	24.77	24.45	24.42	24.32
16	25.18	25.14	25.14	24.92	25.04	24.62	25.92	24.99	24.63	24.45	24.43	24.37
17	25.17	25.13	25.16	24.93	25.33	24.94	27.15	25.26	24.64	24.24	24.42	24.31
18	25.26	25.17	24.93	24.84	24.94	24.72	26.51	25.54	---	---	24.31	24.12
19	25.21	25.09	24.96	24.87	24.97	24.78	25.54	24.98	---	---	24.15	24.10
20	25.09	25.02	25.09	24.96	24.97	24.56	24.98	24.85	24.53	24.43	24.29	24.14
21	25.15	25.08	24.99	24.88	24.70	24.56	24.88	24.41	25.49	24.52	24.73	24.29
22	25.10	24.89	24.91	24.84	24.78	24.52	24.42	24.34	24.63	24.40	24.76	24.56
23	24.95	24.85	24.86	24.75	24.52	24.44	24.68	24.42	24.62	24.34	24.56	24.43
24	25.10	24.95	24.78	24.74	24.75	24.52	24.74	24.68	24.34	24.17	24.50	24.34
25	27.62	25.10	25.04	24.77	24.65	24.44	24.71	24.44	24.73	24.27	24.38	24.30
26	28.02	25.95	25.26	25.04	24.67	24.44	24.69	24.42	24.72	24.36	24.38	24.25
27	25.95	25.57	25.19	25.01	24.85	24.67	24.78	24.49	24.50	24.36	24.25	24.20
28	25.57	25.18	25.01	24.83	24.86	24.78	24.49	24.40	24.56	24.48	---	---
29	25.26	25.17	24.98	24.82	24.81	24.76	24.58	24.39	---	---	---	---
30	25.24	25.17	24.99	24.77	24.94	24.81	24.93	24.58	---	---	24.76	24.59
31	25.17	25.14	---	---	24.85	24.58	24.92	24.58	---	---	24.62	24.54
MONTH	28.02	24.85	25.42	24.74	25.33	24.41	27.15	24.34	25.49	24.14	24.76	24.10

GROUND-WATER LEVELS IN MARYLAND--Continued

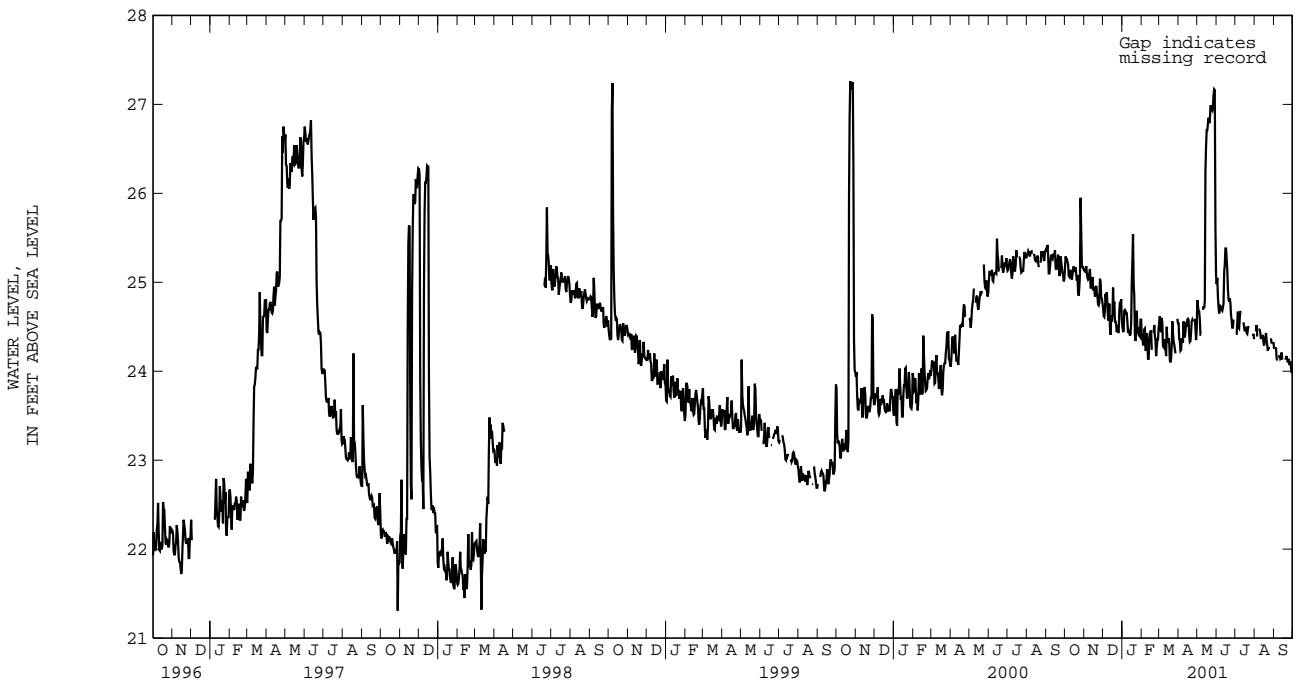
ANNE ARUNDEL COUNTY--Continued

AA Bd 156--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.62	24.54	25.00	24.80	25.09	24.98	---	---	---	---	24.43	24.25
2	24.54	24.36	25.02	24.74	25.12	25.05	24.67	24.42	---	---	---	---
3	24.42	24.34	24.77	24.67	25.05	24.83	24.55	24.42	24.60	24.45	---	---
4	24.35	24.23	24.74	24.67	24.83	24.72	24.71	24.55	24.60	24.52	24.34	24.27
5	24.37	24.24	24.75	24.58	24.77	24.65	24.73	24.67	24.52	24.39	24.30	24.15
6	24.62	24.37	24.58	24.41	24.74	24.69	24.67	24.49	---	---	24.18	24.12
7	24.60	24.33	24.50	24.41	24.78	24.73	24.60	24.48	---	---	---	---
8	24.56	24.33	---	---	24.78	24.72	24.73	24.60	24.50	24.48	---	---
9	24.95	24.56	---	---	24.81	24.69	24.73	24.68	24.50	24.46	24.19	24.15
10	24.76	24.41	24.74	24.69	24.85	24.68	---	---	24.50	24.43	24.23	24.18
11	24.44	24.38	24.79	24.73	24.85	24.72	---	---	24.43	24.36	24.19	24.14
12	24.67	24.44	24.80	24.71	25.45	24.76	---	---	---	---	24.31	24.15
13	24.67	24.55	26.24	24.79	25.38	25.11	---	---	---	---	24.36	24.21
14	24.58	24.50	26.53	26.24	25.77	25.20	24.58	24.55	24.45	24.41	24.33	24.13
15	24.77	24.58	26.77	26.53	25.50	25.38	24.55	24.49	24.41	24.32	---	---
16	24.77	24.59	26.77	26.71	25.43	25.38	24.50	24.45	24.36	24.29	---	---
17	24.62	24.58	26.78	26.71	25.39	25.26	24.51	24.47	24.42	24.36	---	---
18	24.63	24.40	26.85	26.78	25.26	25.14	24.54	24.50	24.43	24.35	---	---
19	24.40	24.33	26.91	26.85	25.19	24.92	24.50	24.43	24.47	24.43	24.17	24.13
20	24.44	24.34	26.89	26.80	24.92	24.81	24.48	24.42	24.46	24.35	24.20	24.15
21	25.49	24.44	26.98	26.80	24.90	24.78	24.54	24.47	24.35	24.29	24.20	24.17
22	24.68	24.56	27.11	26.98	24.95	24.82	24.55	24.51	24.29	24.23	24.19	24.13
23	24.71	24.58	27.09	26.98	24.93	24.77	---	---	24.37	24.27	24.14	24.10
24	24.74	24.56	26.99	26.94	24.82	24.63	---	---	24.36	24.25	24.33	24.14
25	---	---	26.98	26.93	24.82	24.57	---	---	---	---	24.32	24.10
26	---	---	27.11	26.98	24.57	24.49	---	---	---	---	24.11	24.07
27	25.40	24.59	27.22	27.11	24.58	24.49	---	---	24.46	24.37	24.14	24.11
28	25.20	24.48	27.22	27.17	24.64	24.58	---	---	24.41	24.31	24.13	24.05
29	24.48	24.35	27.18	27.16	---	---	24.52	24.40	---	---	24.05	23.99
30	25.11	24.46	27.17	25.63	---	---	24.52	24.42	---	---	24.09	23.99
31	---	---	25.63	25.08	---	---	24.42	24.36	24.43	24.33	---	---
MONTH	25.49	24.23	27.22	24.41	25.77	24.49	24.73	24.36	24.60	24.23	24.43	23.99
YEAR	28.02	23.99										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 157. SITE ID.--390737076374401. PERMIT NUMBER.--AA-81-3464.  
 LOCATION.--Lat 39°07'37", long 76°37'44", Hydrologic Unit 02060003, off Nolfield Dr., 0.14 mi east of Phirne Rd.,  
 at Rippling Woods Elementary School.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 6 in., to 167 ft; and  
 casing diameter 4 in. from 177 to 180 ft; screen diameter 4 in. from 167 to 177 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with digital water-level recorder--60-minute recorder interval from March 1985 to December 2, 1996, and  
 30-minute recorder interval from December 2, 1996 to current year.  
 DATUM.--Elevation of land surface is 75.75 ft above sea level.  
 Measuring Point: Top of shelter platform, 2.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--March 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.10 ft above sea level, April 29, 1997;  
 lowest measured, 32.95 ft above sea level, Oct. 2, 1992.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	36.73	36.65	36.63	36.57	36.42	36.35	36.21	36.17	36.26	36.15	36.33	36.29
2	36.78	36.73	36.64	36.62	36.35	36.29	36.18	36.14	36.27	36.15	36.35	36.32
3	36.78	36.66	---	---	---	---	36.25	36.14	36.16	36.09	36.32	36.24
4	36.72	36.66	---	---	---	---	36.27	36.25	36.16	36.09	36.36	36.23
5	36.75	36.69	36.64	36.55	36.47	36.37	36.40	36.25	36.36	36.16	36.39	36.33
6	36.77	36.64	36.55	36.51	36.43	36.33	36.37	36.25	36.30	36.21	36.41	36.31
7	36.64	36.63	36.52	36.48	36.45	36.38	36.27	36.25	36.21	36.09	36.31	36.19
8	36.65	36.63	36.52	36.48	36.41	36.30	36.30	36.25	36.13	36.08	36.24	36.19
9	36.66	36.64	36.66	36.50	36.30	36.22	---	---	36.33	36.13	36.27	36.21
10	36.69	36.66	36.70	36.58	36.32	36.22	---	---	36.35	36.09	36.21	36.19
11	36.80	36.63	36.58	36.49	36.45	36.31	36.59	36.30	36.09	36.01	36.23	36.16
12	36.74	36.62	36.55	36.49	36.53	36.18	36.30	36.16	36.11	36.01	36.32	36.13
13	36.67	36.60	36.59	36.52	36.26	36.14	36.16	36.13	36.14	36.11	36.43	36.32
14	36.66	36.61	36.66	36.58	36.43	36.26	36.24	36.13	36.33	36.14	36.38	36.25
15	36.67	36.63	36.61	36.53	36.31	36.25	36.57	36.24	36.34	36.19	36.29	36.24
16	36.96	36.63	---	---	36.52	36.28	36.39	36.23	36.33	36.19	36.29	36.27
17	37.04	36.77	---	---	36.78	36.52	36.26	36.22	36.35	36.13	36.29	36.25
18	---	---	36.52	36.47	36.53	36.42	36.31	36.25	36.13	36.10	36.25	36.15
19	36.76	36.64	36.59	36.47	36.50	36.43	36.47	36.31	36.18	36.11	36.15	36.12
20	36.64	36.60	36.59	36.50	36.50	36.28	36.42	36.37	36.23	36.18	36.21	36.13
21	36.65	36.61	36.55	36.46	36.34	36.28	36.41	36.16	36.23	36.09	36.57	36.21
22	36.62	36.52	36.48	36.44	36.38	36.22	36.16	36.11	36.22	36.09	36.56	36.43
23	36.54	36.48	36.44	36.38	36.22	36.18	36.27	36.15	36.22	36.12	36.44	36.37
24	36.61	36.54	36.40	36.36	36.34	36.21	36.31	36.27	36.12	36.06	36.41	36.31
25	36.66	36.61	36.56	36.38	36.25	36.16	36.28	36.15	36.37	36.11	36.35	36.31
26	36.77	36.66	36.70	36.56	36.27	36.16	36.28	36.15	36.36	36.19	36.35	36.26
27	---	---	36.65	36.55	36.35	36.27	36.32	36.16	36.27	36.19	36.26	36.23
28	---	---	36.55	36.45	36.36	36.31	36.16	36.13	36.29	36.25	---	---
29	36.68	36.62	36.54	36.45	36.33	36.30	36.22	36.12	---	---	---	---
30	36.66	36.62	36.54	36.42	36.40	36.33	36.44	36.22	---	---	36.60	36.49
31	36.62	36.58	---	---	36.35	36.21	36.43	36.26	---	---	36.49	36.46
MONTH	37.04	36.48	36.70	36.36	36.78	36.14	36.59	36.11	36.37	36.01	36.60	36.12

GROUND-WATER LEVELS IN MARYLAND--Continued

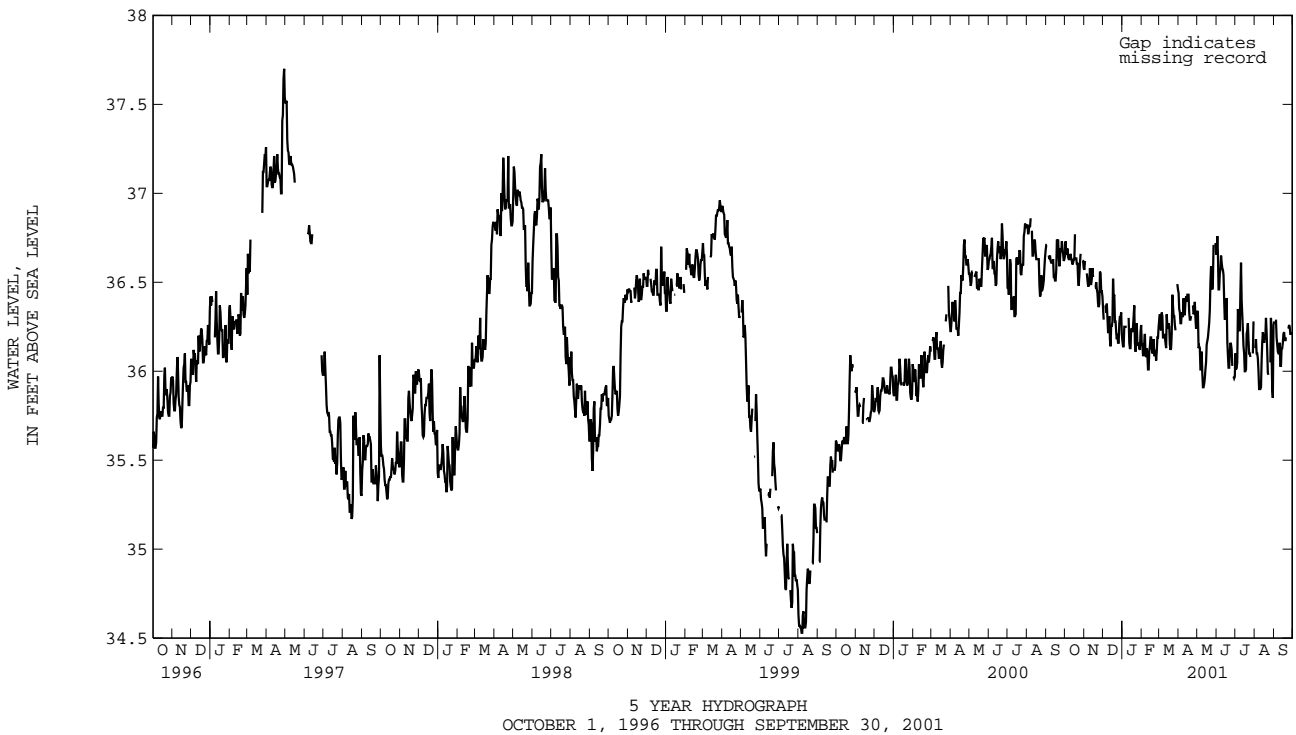
ANNE ARUNDEL COUNTY--Continued

AA Bd 157--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	36.48	36.44	36.40	36.34	36.78	36.66	36.22	36.10	---	---	36.40	36.28
2	36.44	36.35	36.39	36.31	36.79	36.76	36.18	36.01	36.18	36.13	---	---
3	36.38	36.33	36.31	36.13	36.79	36.66	36.09	36.02	36.31	36.18	---	---
4	36.33	36.27	36.29	36.14	36.66	36.46	36.35	36.05	36.22	36.10	36.47	36.29
5	36.33	36.27	36.33	36.13	36.55	36.46	36.39	36.35	36.15	36.10	36.37	36.19
6	36.46	36.33	36.15	36.01	36.57	36.55	36.37	36.31	36.14	36.07	36.19	36.15
7	36.43	36.31	36.15	36.01	36.73	36.57	36.32	36.23	36.10	36.00	36.17	36.11
8	36.42	36.31	36.17	36.11	36.70	36.65	36.45	36.23	36.00	35.90	36.17	36.10
9	36.50	36.41	36.13	35.99	36.65	36.61	36.66	36.44	35.96	35.90	36.16	36.10
10	36.46	36.32	35.99	35.91	36.61	36.58	36.83	36.61	35.93	35.90	36.21	36.16
11	36.39	36.32	35.93	35.91	36.58	36.57	36.61	36.40	36.06	35.91	36.20	36.03
12	36.49	36.39	35.96	35.93	36.58	36.54	36.40	36.32	36.16	36.06	36.24	36.03
13	36.49	36.42	36.06	35.96	36.54	36.40	36.35	36.23	36.23	36.16	36.23	36.13
14	36.43	36.39	36.09	36.01	36.40	36.29	36.25	36.14	36.23	36.22	36.16	36.13
15	36.52	36.43	36.25	36.05	36.39	36.30	36.20	36.10	36.23	36.19	36.21	36.16
16	36.52	36.43	36.38	36.15	36.43	36.35	36.14	36.00	36.19	36.16	36.24	36.21
17	36.46	36.43	36.27	36.17	36.45	36.41	36.06	36.00	36.22	36.19	36.25	36.22
18	36.46	36.33	36.25	36.19	36.41	36.17	36.25	36.01	36.45	36.20	36.25	36.18
19	36.33	36.29	36.29	36.23	36.20	36.09	36.25	36.21	36.39	36.30	36.19	36.17
20	36.35	36.29	36.34	36.27	36.09	36.02	36.28	36.23	36.30	36.22	36.25	36.19
21	36.37	36.31	36.50	36.34	36.11	36.02	36.32	36.27	36.22	36.11	---	---
22	---	---	36.68	36.50	36.21	36.10	36.30	36.17	36.11	35.99	---	---
23	---	---	36.68	36.59	36.28	36.16	36.20	36.10	36.00	35.98	---	---
24	36.46	36.37	36.59	36.55	36.18	36.15	36.23	36.10	---	---	36.34	36.24
25	36.37	36.32	36.57	36.46	36.24	36.12	36.23	36.08	---	---	36.35	36.26
26	36.39	36.33	36.71	36.51	36.12	36.03	---	---	36.46	36.05	36.28	36.25
27	36.45	36.39	36.85	36.71	---	---	---	---	36.55	36.30	36.29	36.21
28	36.44	36.30	---	---	36.07	35.97	---	---	36.30	36.09	36.24	36.21
29	36.30	36.24	---	---	36.00	35.96	36.28	36.10	36.09	35.90	36.24	36.22
30	36.34	36.27	36.78	36.72	36.10	35.97	36.30	36.28	36.37	35.85	---	---
31	---	---	36.72	36.66	---	---	---	---	36.39	36.26	---	---
MONTH	36.52	36.24	36.85	35.91	36.79	35.96	36.83	36.00	36.55	35.85	36.47	36.03
YEAR	37.04	35.85										

Daily Low Water Levels



## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 158. SITE ID.--390744076390001. PERMIT NUMBER.--AA-81-3459.

LOCATION.--Lat 39°07'44", long 76°39'00", Hydrologic Unit 02060003, 0.05 mi off Stevenson Rd., 0.45 mi west of New Cut Road, at Center for Applied Technology-North.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 187 ft; casing diameter 6 in., to 174 ft; screen diameter 4 in. from 174 to 184 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from January 1985 to 1989.

DATUM.--Elevation of land surface is 108.25 ft above sea level.

Measuring Point: Top of casing, 2.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

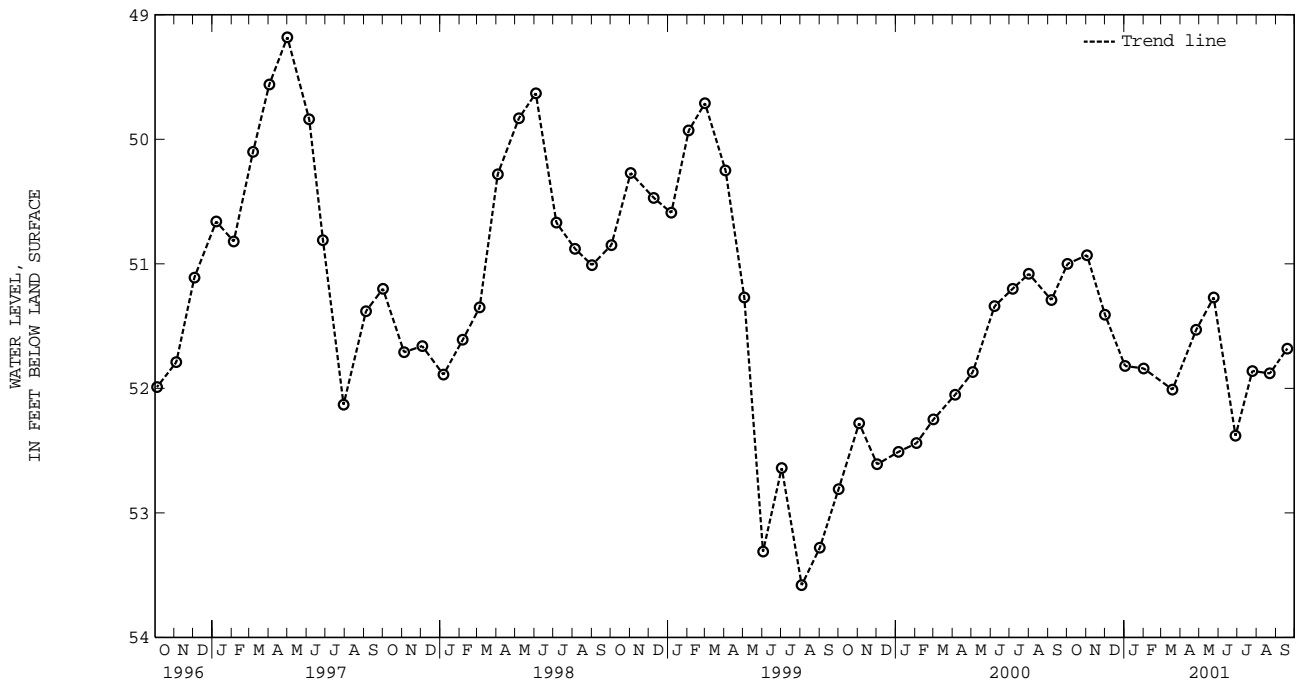
PERIOD OF RECORD.--January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.18 ft below land surface, May 1, 1997;  
lowest measured, 55.90 ft below land surface, Sept. 14, 1987 and Jan. 15, 1988.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	51.00	JAN 02, 2001	51.82	APR 26, 2001	51.53	JUL 25, 2001	51.86
NOV 02	50.93	FEB 01	51.84	MAY 24	51.27	AUG 22	51.88
DEC 01	51.41	MAR 19	52.01	JUN 28	52.38	SEP 19	51.68

WATER YEAR 2001	HIGHEST	50.93	NOV 02, 2000	LOWEST	52.38	JUN 28, 2001
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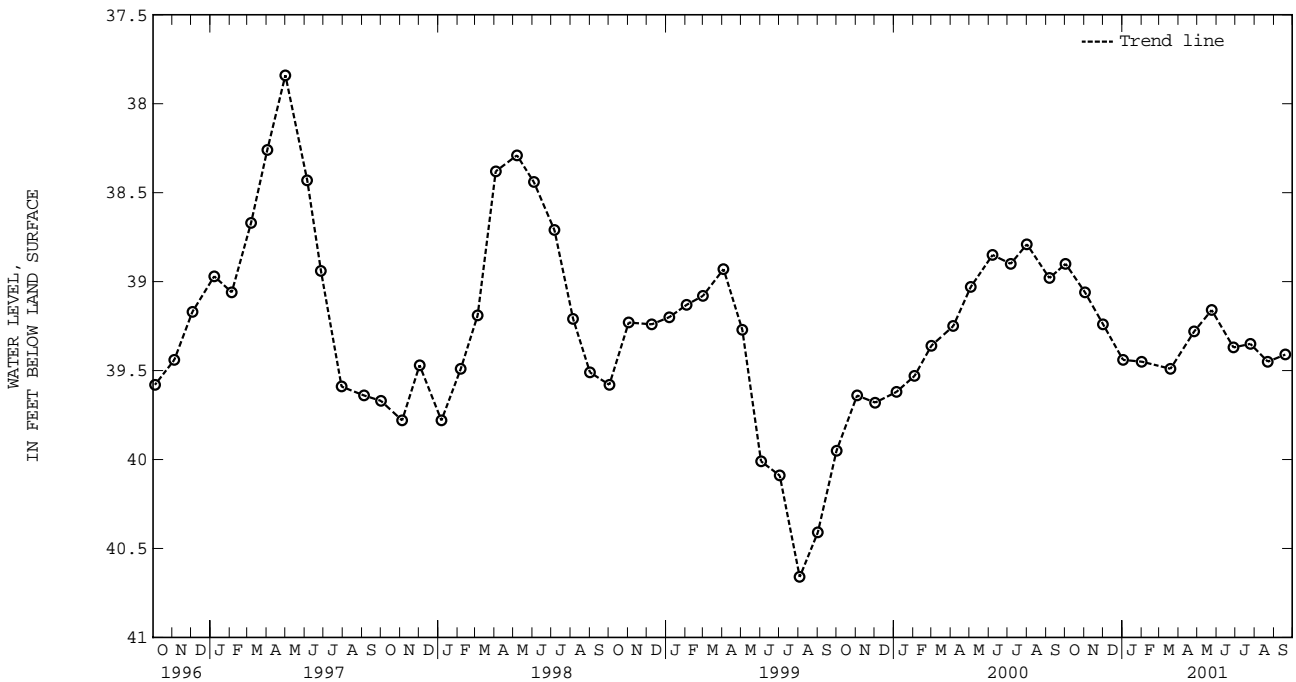
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 159. SITE ID.--390737076374402. PERMIT NUMBER.--AA-81-3949.  
 LOCATION.--Lat 39°07'37", long 76°37'44", Hydrologic Unit 02060003, off Nolfield Dr., 0.14 mi east of Phrine Rd., at Rippling Woods Elementary School.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 105 ft; casing diameter 6 in., to 92 ft; and casing diameter 4 in. from 102 to 105 ft; screen diameter 4 in. from 92 to 102 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from March 1985, to July 24, 1989.  
 DATUM.--Elevation of land surface is 75.48 ft above sea level.  
 Measuring Point: Top of casing, 2.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--March 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.77 ft below land surface, Sept. 14, 1987; lowest measured, 42.38 ft below land surface, Sept. 7, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	38.90	JAN 02, 2001	39.44	APR 26, 2001	39.28	JUL 25, 2001	39.35
NOV 02	39.06	FEB 01	39.45	MAY 24	39.16	AUG 22	39.45
DEC 01	39.24	MAR 19	39.49	JUN 28	39.37	SEP 19	39.41
WATER YEAR 2001 HIGHEST 38.90 OCT 02, 2000		LOWEST 39.49 MAR 19, 2001					



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 160. SITE ID.--390908076394402. PERMIT NUMBER.--AA-81-3461.

LOCATION.--Lat 39°09'08", long 76°39'44", Hydrologic Unit 02060003, 0.08 mi north of Queenstown Road, 0.41 mi. east of WB &amp; A Road, at Queenstown Park.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 118 ft; casing diameter 6 in., to 105 ft. screen diameter 4 in. from 105 to 115 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recorder interval from April 1985 to December 2, 1996, and 30-minute recorder interval from December 2, 1996 to current year.

DATUM.--Elevation of land surface is 88.0 ft above sea level.

Measuring Point: Top of shelter platform, 2.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--April 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.63 ft above sea level, May 8, 1998;

lowest measured, 68.57 ft above sea level, Oct. 7, 1986.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	74.54	74.49	74.36	74.30	74.02	73.98	73.90	73.86	73.89	73.77	73.99	73.93
2	74.59	74.54	74.35	74.34	73.99	73.98	---	---	73.88	73.77	74.01	73.98
3	74.58	74.54	74.34	74.32	73.99	73.98	---	---	73.81	73.71	73.98	73.92
4	74.55	74.52	---	---	74.06	73.99	73.94	73.92	73.77	73.71	73.97	73.90
5	74.57	74.54	---	---	74.14	74.04	74.03	73.92	73.95	73.77	74.02	73.97
6	74.61	74.54	74.25	74.22	74.04	73.98	74.03	73.92	73.92	73.85	74.05	73.97
7	74.54	74.47	74.23	74.21	---	---	73.92	73.87	73.85	73.72	73.97	73.86
8	74.47	74.46	74.23	74.19	---	---	73.92	73.87	73.77	73.72	73.90	73.86
9	74.49	74.46	74.36	74.23	73.98	73.89	73.90	73.83	73.95	73.77	73.94	73.89
10	74.51	74.48	74.44	74.34	73.97	73.89	73.85	73.79	73.97	73.74	73.90	73.86
11	74.49	74.45	74.34	74.24	74.06	73.97	73.81	73.79	73.74	73.65	73.89	73.84
12	74.45	74.42	---	---	74.16	73.84	73.80	73.76	73.76	73.65	73.97	73.82
13	74.44	74.42	---	---	73.87	73.82	73.76	73.74	73.80	73.76	74.09	73.97
14	74.44	74.43	74.36	74.29	74.06	73.87	73.78	73.74	73.96	73.80	74.05	73.91
15	74.46	74.42	74.32	74.25	73.96	73.90	73.84	73.78	73.98	73.85	73.95	73.91
16	74.43	74.39	---	---	74.11	73.91	73.84	73.77	73.96	73.85	73.96	73.94
17	74.40	74.38	---	---	74.35	74.11	73.77	73.75	73.98	73.79	73.96	73.90
18	74.47	74.40	74.21	74.14	74.18	74.06	73.79	73.75	---	---	73.90	73.80
19	74.46	74.41	74.15	74.11	74.15	74.06	73.95	73.79	---	---	73.81	73.79
20	74.41	74.38	74.19	74.11	74.15	73.95	73.94	73.93	73.91	73.84	73.88	73.81
21	74.39	74.37	74.16	74.06	74.00	73.95	73.95	73.76	73.93	73.77	74.21	73.88
22	74.37	74.26	74.07	74.04	74.06	73.92	73.76	73.74	73.88	73.77	---	---
23	74.28	74.24	74.06	74.02	73.92	73.88	73.89	73.76	73.89	73.79	---	---
24	74.35	74.28	74.03	74.02	74.00	73.88	73.93	73.89	73.79	73.73	74.12	74.07
25	74.40	74.34	74.18	74.03	73.96	73.87	73.92	73.80	74.00	73.76	74.08	74.04
26	74.40	74.37	74.34	74.18	73.94	73.87	73.88	73.80	73.99	73.85	74.09	74.04
27	74.44	74.37	74.30	74.16	74.03	73.94	73.94	73.80	---	---	74.04	74.02
28	74.45	74.30	74.16	74.05	74.04	74.01	---	---	---	---	---	---
29	74.32	74.30	74.11	74.05	74.02	74.01	---	---	---	---	---	---
30	74.33	74.30	74.13	74.02	74.07	74.02	74.05	73.83	---	---	74.41	74.29
31	74.31	74.30	---	---	74.05	73.90	74.04	73.89	---	---	74.35	74.31
MONTH	74.61	74.24	74.44	74.02	74.35	73.82	74.05	73.74	74.00	73.65	74.41	73.79

GROUND-WATER LEVELS IN MARYLAND--Continued

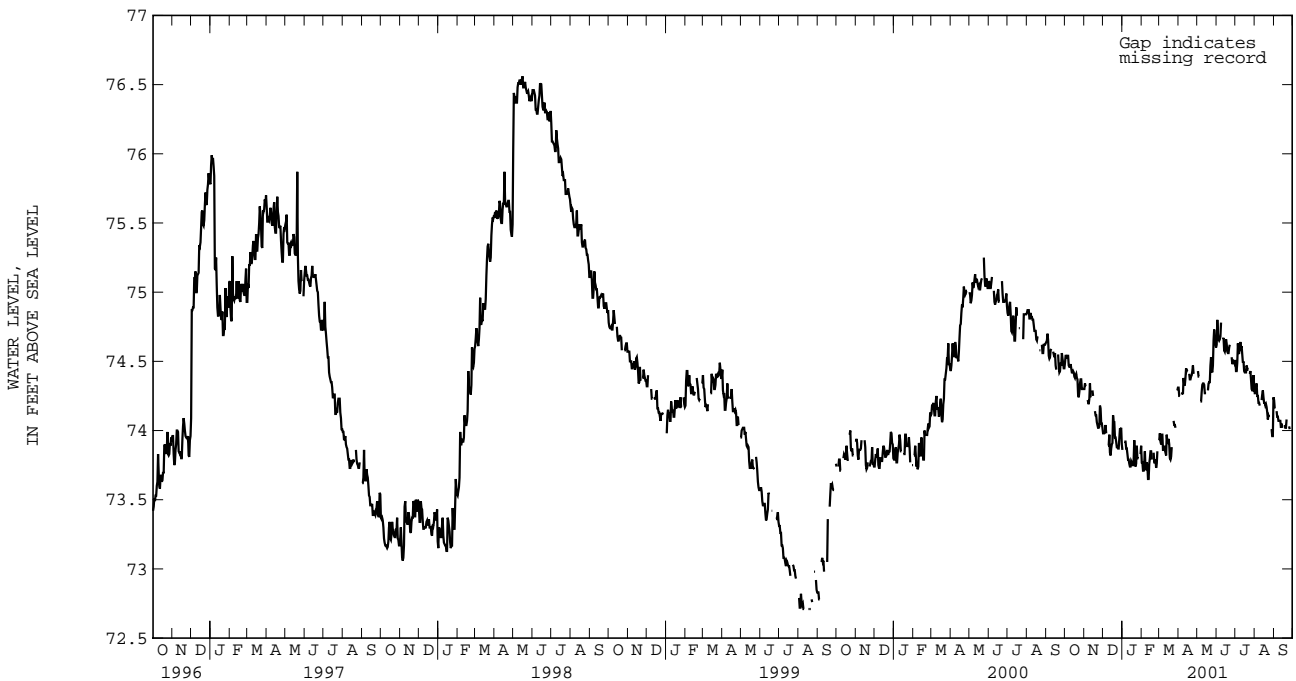
ANNE ARUNDEL COUNTY--Continued

AA Bd 160--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	74.33	74.31	---	---	74.80	74.62	74.58	74.51	74.33	74.27	74.33	74.22
2	74.31	74.25	74.50	74.43	74.82	74.80	74.58	74.43	74.33	74.27	74.22	74.16
3	74.28	74.25	74.45	74.39	74.82	74.70	74.51	74.43	74.36	74.32	---	---
4	---	---	74.45	74.39	74.70	74.66	74.63	74.49	74.39	74.34	---	---
5	---	---	---	---	74.68	74.65	74.67	74.63	74.34	74.25	74.20	74.14
6	74.39	74.26	74.32	74.21	74.70	74.66	74.65	74.56	74.28	74.25	74.14	74.10
7	74.39	74.27	74.28	74.21	74.87	74.68	74.61	74.56	74.26	74.20	74.15	74.10
8	74.38	74.27	74.33	74.28	74.84	74.78	74.69	74.61	74.27	74.20	74.14	74.07
9	74.46	74.38	74.41	74.33	---	---	74.71	74.64	74.24	74.18	74.09	74.07
10	74.44	74.33	74.43	74.34	---	---	74.67	74.60	---	---	74.11	74.07
11	74.38	74.33	74.37	74.34	74.72	74.66	74.69	74.61	---	---	74.10	74.07
12	74.49	74.38	74.41	74.33	74.72	74.67	74.61	74.55	74.26	74.22	74.07	74.02
13	74.49	74.45	74.34	74.27	74.70	74.58	74.55	74.49	74.30	74.26	74.10	74.05
14	74.45	74.43	74.28	74.27	74.60	74.57	74.54	74.50	74.32	74.29	74.09	74.02
15	74.55	74.44	74.35	74.27	74.66	74.60	74.50	74.43	74.29	74.24	---	---
16	---	---	---	---	74.72	74.66	74.46	74.42	74.24	74.20	---	---
17	---	---	---	---	74.73	74.63	74.45	74.42	74.23	74.20	---	---
18	74.51	74.41	74.35	74.29	74.63	74.57	74.54	74.42	74.21	74.18	74.07	74.04
19	74.41	74.37	74.39	74.34	74.61	74.56	74.51	74.47	74.24	74.19	74.05	74.02
20	74.40	74.37	74.39	74.35	74.62	74.56	74.47	74.45	74.24	74.17	74.08	74.02
21	74.42	74.39	74.47	74.35	74.65	74.60	74.49	74.44	74.18	74.13	74.09	74.08
22	74.44	74.40	74.62	74.47	74.68	74.62	74.48	74.44	74.13	74.08	---	---
23	74.51	74.43	74.62	74.53	---	---	---	---	74.16	74.11	---	---
24	74.54	74.47	74.53	74.43	---	---	74.44	74.41	74.16	74.10	---	---
25	74.47	74.41	74.47	74.42	74.63	74.53	74.45	74.43	---	---	74.11	74.03
26	---	---	74.65	74.47	74.53	74.48	74.44	74.37	---	---	74.03	74.01
27	---	---	74.76	74.65	74.53	74.49	74.37	74.30	---	---	---	---
28	---	---	74.76	74.73	74.56	74.50	74.31	74.29	74.07	74.01	---	---
29	---	---	74.73	74.68	74.55	74.49	74.42	74.29	74.01	73.96	---	---
30	---	---	74.68	74.63	74.53	74.48	74.44	74.40	74.29	73.96	---	---
31	---	---	74.63	74.60	---	---	74.40	74.33	74.31	74.24	---	---
MONTH	74.55	74.25	74.76	74.21	74.87	74.48	74.71	74.29	74.39	73.96	74.33	74.01
YEAR	74.87	73.65										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bf 3. SITE ID.--390945076285601.

LOCATION.--Lat 39°09'45", long 76°28'56", Hydrologic Unit 02060003, 8 mi east of Glen Burnie at Fort Smallwood Park.

Owner: Baltimore City Department of Recreation and Parks.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Dug, brick-lined, unused, water-table well, diameter 48 in., depth 22.8 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 20.38 ft above sea level.

Measuring point: Hole in concrete cover at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured 14.10 ft below land surface, Jan. 27, 1944.

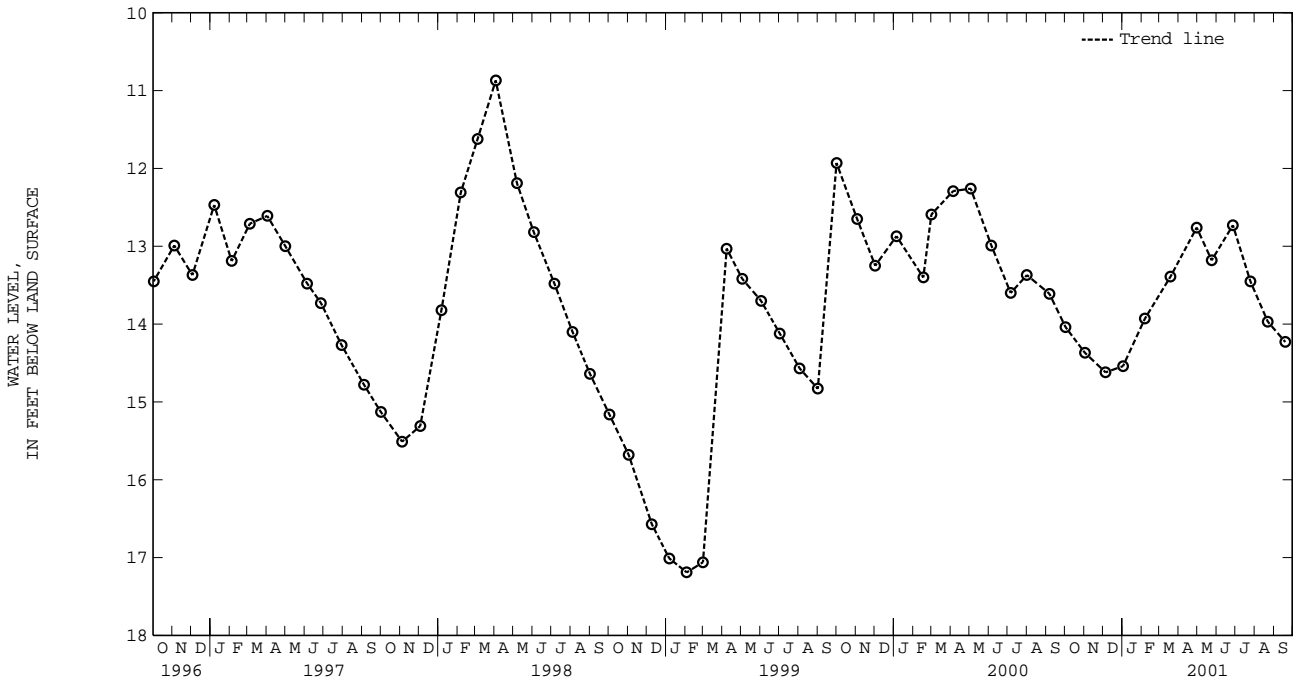
PERIOD OF RECORD.--April 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.40 ft below land surface, March 31, 1958;

lowest measured, 19.09 ft below land surface, Dec. 7, 1965.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	14.04	JAN 02, 2001	14.54	APR 30, 2001	12.76	JUL 25, 2001	13.45
NOV 02	14.37	FEB 06	13.93	MAY 24	13.18	AUG 22	13.97
DEC 05	14.62	MAR 19	13.39	JUN 27	12.73	SEP 19	14.23
WATER YEAR 2001 HIGHEST 12.73 JUN 27, 2001		LOWEST 14.62 DEC 05, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cb 1. SITE ID.--390303076463201. PERMIT NUMBER.--AA-03-5695.  
 LOCATION.--Lat 39°03'03", long 76°46'32", Hydrologic Unit 02060006, on Duvall Bridge Rd., Patuxent Wildlife Research Center.  
 Owner: U.S. Fish and Wildlife (formerly U.S. Army).  
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 505 ft; casing diameter 6 in. to 485 ft; screen diameter 6 in. from 485 to 505 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by USGS personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 2, 1984 to current year.  
 DATUM.--Elevation of land surface is 129.10 ft above sea level.  
 Measuring point: Top lip of 3 in. extension pipe, 3.35 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--March 1962 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.50 ft above sea level, May 1, 1962; lowest measured, 36.26 ft above sea level, Aug. 10, 1987.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	51.55	51.44	50.26	50.23	50.49	50.41	49.88	49.85	48.99	48.85	49.11	49.07
2	51.66	51.55	50.24	50.21	50.41	50.31	49.86	49.80	48.98	48.82	49.09	49.02
3	51.66	51.60	50.24	50.18	50.34	50.28	49.95	49.81	48.82	48.69	49.02	48.91
4	51.61	51.53	50.27	50.21	50.47	50.34	49.96	49.87	48.80	48.69	49.04	48.91
5	51.53	51.46	50.26	50.21	50.69	50.47	50.04	49.89	49.05	48.80	49.10	49.04
6	51.47	51.32	50.24	50.17	50.65	50.53	50.00	49.85	49.04	48.94	49.18	49.04
7	51.32	51.18	50.21	50.14	50.68	50.57	49.90	49.84	48.94	48.83	49.04	48.84
8	51.18	51.14	50.16	50.10	50.62	50.43	49.95	49.84	48.95	48.83	48.90	48.84
9	51.17	51.12	50.25	50.11	50.43	50.31	49.89	49.74	49.18	48.93	48.90	48.80
10	51.19	51.13	50.32	50.14	50.45	50.31	49.74	49.51	49.23	48.95	48.82	48.77
11	51.14	51.05	50.16	50.03	50.62	50.42	49.51	49.38	48.95	48.86	48.82	48.73
12	51.06	51.01	50.09	50.03	50.74	50.28	49.38	49.19	48.96	48.84	48.90	48.68
13	51.06	51.02	50.14	50.03	50.35	50.24	49.19	49.10	49.01	48.96	49.04	48.90
14	51.08	51.03	50.24	50.11	50.52	50.35	49.14	49.09	49.26	49.01	48.98	48.83
15	51.07	51.02	50.18	50.13	50.39	50.34	49.19	49.13	49.28	49.09	48.89	48.82
16	51.03	50.93	50.31	50.12	50.71	50.38	49.19	49.08	49.27	49.09	48.93	48.88
17	50.93	50.87	50.36	50.21	50.99	50.71	49.10	49.05	49.31	49.06	48.93	48.88
18	50.91	50.85	50.24	50.16	50.77	50.66	49.11	49.05	49.09	49.04	48.89	48.80
19	50.85	50.76	50.31	50.19	50.74	50.68	49.29	49.11	49.19	49.05	48.86	48.80
20	50.76	50.69	50.45	50.31	50.70	50.37	49.30	49.21	49.30	49.18	49.00	48.84
21	50.74	50.68	50.44	50.38	50.41	50.36	49.29	49.01	49.31	49.09	49.44	49.00
22	50.68	50.50	50.45	50.37	50.46	50.24	49.01	48.97	49.26	49.09	49.49	49.39
23	50.50	50.44	50.37	50.28	50.24	50.11	49.11	48.98	49.27	49.15	49.45	49.37
24	50.56	50.49	50.32	50.27	50.19	50.02	49.09	49.00	49.19	49.10	49.46	49.33
25	50.55	50.44	50.49	50.27	50.02	49.80	49.00	48.78	49.50	49.19	49.43	49.33
26	50.46	50.40	50.68	50.49	49.89	49.80	48.86	48.76	49.46	49.21	49.43	49.39
27	50.49	50.40	50.69	50.60	49.94	49.87	48.90	48.70	49.22	49.18	49.45	49.39
28	50.46	50.24	50.61	50.50	49.94	49.89	48.70	48.68	49.19	49.11	49.59	49.45
29	50.33	50.24	50.62	50.50	49.94	49.88	48.83	48.66	---	---	49.97	49.59
30	50.30	50.22	50.62	50.49	50.03	49.93	49.12	48.83	---	---	50.11	49.97
31	50.28	50.21	---	---	49.99	49.88	49.13	48.99	---	---	50.09	50.08
MONTH	51.66	50.21	50.69	50.03	50.99	49.80	50.04	48.66	49.50	48.69	50.11	48.68

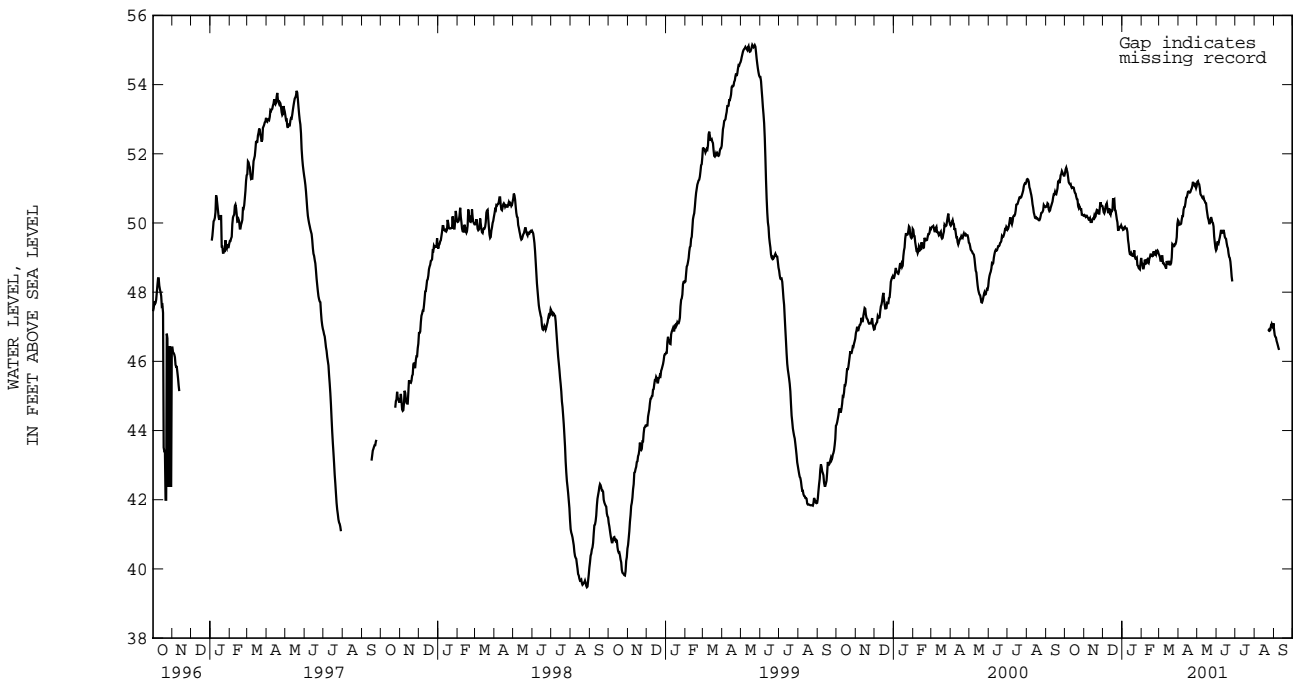
ANNE ARUNDEL COUNTY--Continued

AA Cb 1--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	50.11	50.05	51.26	51.19	49.45	49.25	---	---	---	---	47.13	46.91
2	50.05	49.95	51.27	51.21	49.51	49.44	---	---	---	---	46.91	46.76
3	50.07	49.96	51.22	51.14	49.53	49.44	---	---	---	---	46.76	46.71
4	50.02	49.96	51.19	51.12	49.50	49.41	---	---	---	---	46.75	46.69
5	50.11	49.98	51.19	51.01	49.59	49.50	---	---	---	---	46.69	46.59
6	50.33	50.10	51.01	50.84	49.68	49.58	---	---	---	---	46.59	46.53
7	50.31	50.20	50.85	50.80	49.88	49.68	---	---	---	---	46.53	46.46
8	50.40	50.20	50.84	50.78	49.86	49.80	---	---	---	---	46.46	46.39
9	50.58	50.39	50.80	50.73	49.81	49.73	---	---	---	---	46.39	46.33
10	50.54	50.46	50.76	50.71	49.75	49.72	---	---	---	---	---	---
11	50.58	50.47	50.77	50.74	49.81	49.74	---	---	---	---	---	---
12	50.75	50.58	50.77	50.66	49.81	49.80	---	---	---	---	---	---
13	50.76	50.73	50.69	50.63	49.81	49.72	---	---	---	---	---	---
14	50.81	50.74	50.63	50.58	49.72	49.60	---	---	---	---	---	---
15	50.97	50.81	50.60	50.57	49.60	49.56	---	---	---	---	---	---
16	50.98	50.90	50.57	50.40	49.58	49.54	---	---	---	---	---	---
17	50.99	50.91	50.40	50.27	49.56	49.42	---	---	---	---	---	---
18	51.02	50.90	50.28	50.15	49.42	49.32	---	---	---	---	---	---
19	50.95	50.88	50.19	50.09	49.35	49.27	---	---	---	---	---	---
20	51.01	50.90	50.09	49.99	49.27	49.12	---	---	---	---	---	---
21	51.03	50.96	50.09	49.99	49.12	49.02	---	---	---	---	---	---
22	51.09	51.00	50.23	50.07	49.11	48.99	---	---	46.93	46.88	---	---
23	51.22	51.07	50.23	50.17	49.03	48.88	---	---	46.99	46.89	---	---
24	51.27	51.19	50.19	50.11	48.88	48.69	---	---	46.98	46.92	---	---
25	51.19	51.11	50.11	50.02	48.69	48.45	---	---	46.92	46.89	---	---
26	51.16	51.09	50.06	50.00	48.45	48.31	---	---	47.03	46.91	---	---
27	51.22	51.16	50.00	49.90	---	---	---	---	47.11	47.03	---	---
28	51.21	51.07	49.90	49.61	---	---	---	---	47.13	47.08	---	---
29	51.07	51.01	49.61	49.44	---	---	---	---	47.09	47.02	---	---
30	51.19	51.07	49.44	49.28	---	---	---	---	47.15	46.99	---	---
31	---	---	49.28	49.21	---	---	---	---	47.15	47.10	---	---
MONTH	51.27	49.95	51.27	49.21	49.88	48.31	---	---	47.15	46.88	47.13	46.33
YEAR	51.66	46.33										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

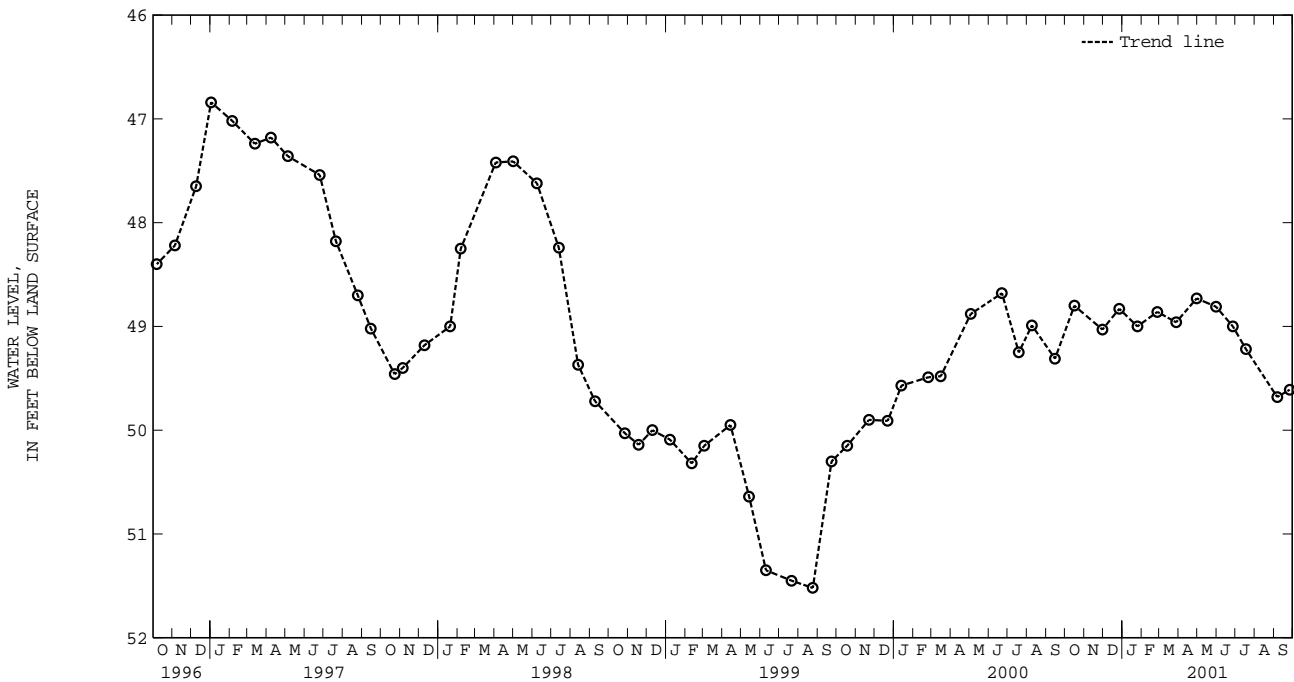
ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cc 40. SITE ID.--390423076432001. PERMIT NUMBER.--AA-03-5693.  
 LOCATION.--Lat 39°04'23", long 76°43'20", Hydrologic Unit 02060006, on Rifle Range Rd., Fort George G. Meade.  
 Owner: U.S. Army.  
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 238 ft; casing diameter 6 in., to 208 ft; screened diameter 6 in., from 208 to 238 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 4, 1959 to July 21, 1960 and Jan. 12, 1978 to December 1985.  
 DATUM.--Elevation of land surface is 136.92 ft above sea level.  
 Measuring point: Top of casing, 2.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--December 1959 to current year  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.58 ft below land surface, March 25, 1961; lowest measured, 51.69 ft below land surface, Sept. 1, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	48.80	JAN 25, 2001	49.00	APR 30, 2001	48.73	JUL 18, 2001	49.22
NOV 30	49.03	FEB 26	48.86	MAY 31	48.81	SEP 06	49.68
DEC 27	48.83	MAR 28	48.96	JUN 27	49.00	26	49.61

WATER YEAR 2001    HIGHEST    48.73    APR 30, 2001    LOWEST    49.68    SEP 06, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cc 135. SITE ID.--390126076403001. PERMIT NUMBER.--AA-93-0998.

LOCATION.--Lat 39°01'26", Long 76°40'30", Hydrologic Unit 02060006, nr Reidel Rd and Johns Hopkins Rd, at Crofton Meadows.  
Owner: Anne Arundel County.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,100 ft; casing diameter 4 in. to 299 ft, and casing diameter 2 in. from 299 to 985 ft, and 1,035 to 1,070 ft; screen diameter 2 in. from 985 to 1,035 ft, and 1,070 to 1,100 ft.

INSTRUMENTATION.--Monthly measurements with steel tape by Maryland Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 4, 1998 to current year.

DATUM.--Elevation of land surface is 114.81 ft above sea level.

Measuring point: Top of recorder platform, 3.48 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.78 ft above sea level, May 4, 1999;  
lowest measured, 25.90 ft below sea level, Aug. 5, 1999WATER LEVELS, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	.58	-5.93	-2.32	-5.91	-3.93	-8.81	-4.03	-9.81	---	---	---	---
2	-1.23	-5.81	-1.15	-5.83	.07	-5.95	-4.48	-8.29	---	---	-5.05	-9.34
3	-.64	-5.11	-2.37	-4.25	-.89	-8.18	-1.68	-4.48	---	---	-5.98	-11.29
4	-.83	-5.38	-.29	-5.69	-2.54	-8.65	-.19	-6.59	---	---	-7.41	-11.98
5	-.70	-5.82	-2.54	-8.98	-.94	-5.98	-1.65	-6.11	---	---	-7.04	-12.51
6	-.39	-5.56	-5.00	-9.45	-.87	-5.56	-.85	-8.09	---	---	-7.04	-12.10
7	.01	-6.68	-1.07	-6.17	-.86	-5.83	-1.84	-8.99	---	---	-8.07	-12.29
8	-1.11	-7.78	-.98	-4.14	-1.13	-6.84	-3.65	-9.59	---	---	---	---
9	-1.70	-7.81	.05	-3.51	-1.12	-8.00	-3.29	-8.09	---	---	---	---
10	-1.06	-7.14	1.01	-2.93	-1.82	-8.02	-3.61	-8.83	---	---	---	---
11	-1.19	-5.64	2.43	-2.73	-2.86	-8.47	-3.41	-8.57	---	---	---	---
12	-1.28	-6.01	1.26	-2.06	-1.32	-5.71	-3.50	-8.42	---	---	---	---
13	-.88	-6.75	-1.56	-2.68	-1.36	-6.10	-2.89	-9.65	---	---	---	---
14	-.65	-8.26	1.45	-2.81	-.77	-6.11	-3.43	-10.17	---	---	-3.04	-6.77
15	-1.86	-8.55	1.75	-2.32	-1.24	-5.65	-3.69	-10.40	---	---	-2.07	-5.10
16	-4.93	-8.98	1.81	-2.05	-.18	-6.19	-3.86	-10.17	---	---	-1.24	-4.15
17	-2.40	-6.79	2.24	-1.85	-.87	-7.02	---	---	---	---	-.62	-4.02
18	-1.54	-6.35	2.33	-1.82	-2.15	-6.97	---	---	---	---	-.14	-3.74
19	-1.48	-6.05	1.47	-4.33	-1.23	-5.75	---	---	---	---	-.68	-3.85
20	-2.16	-7.34	-.57	-6.19	-1.33	-6.36	---	---	---	---	.22	-2.68
21	-1.56	-8.44	-.98	-5.71	-1.96	-7.89	---	---	---	---	.95	-2.12
22	-2.04	-8.90	.38	-5.91	-1.97	-6.79	---	---	---	---	1.77	-1.19
23	-5.36	-9.34	-.90	-6.98	-2.05	-8.48	---	---	---	---	1.89	-1.13
24	-3.09	-8.28	-.90	-7.09	-2.11	-8.86	---	---	---	---	2.21	-1.49
25	-2.60	-7.88	.57	-4.29	-2.53	-9.05	---	---	---	---	1.88	-1.56
26	-2.78	-7.00	1.39	-4.16	-2.35	-8.23	-4.26	-7.71	---	---	1.69	-1.47
27	-2.37	-6.92	-1.24	-5.70	-2.27	-7.73	-1.60	-8.11	---	---	2.27	-.65
28	-1.18	-8.84	-.89	-6.00	-1.89	-6.96	-4.84	-10.40	---	---	2.45	-.50
29	-1.99	-8.98	-.67	-5.26	-3.43	-7.09	-5.11	-11.03	---	---	2.70	-.32
30	-4.64	-9.71	.13	-7.68	-1.15	-9.24	-3.47	-8.85	---	---	3.27	.28
31	-2.02	-7.57	---	---	-3.55	-9.43	---	---	---	---	3.46	.21
MONTH	.58	-9.71	2.43	-9.45	.07	-9.43	-.19	-11.03	---	---	3.46	-12.51

GROUND-WATER LEVELS IN MARYLAND--Continued

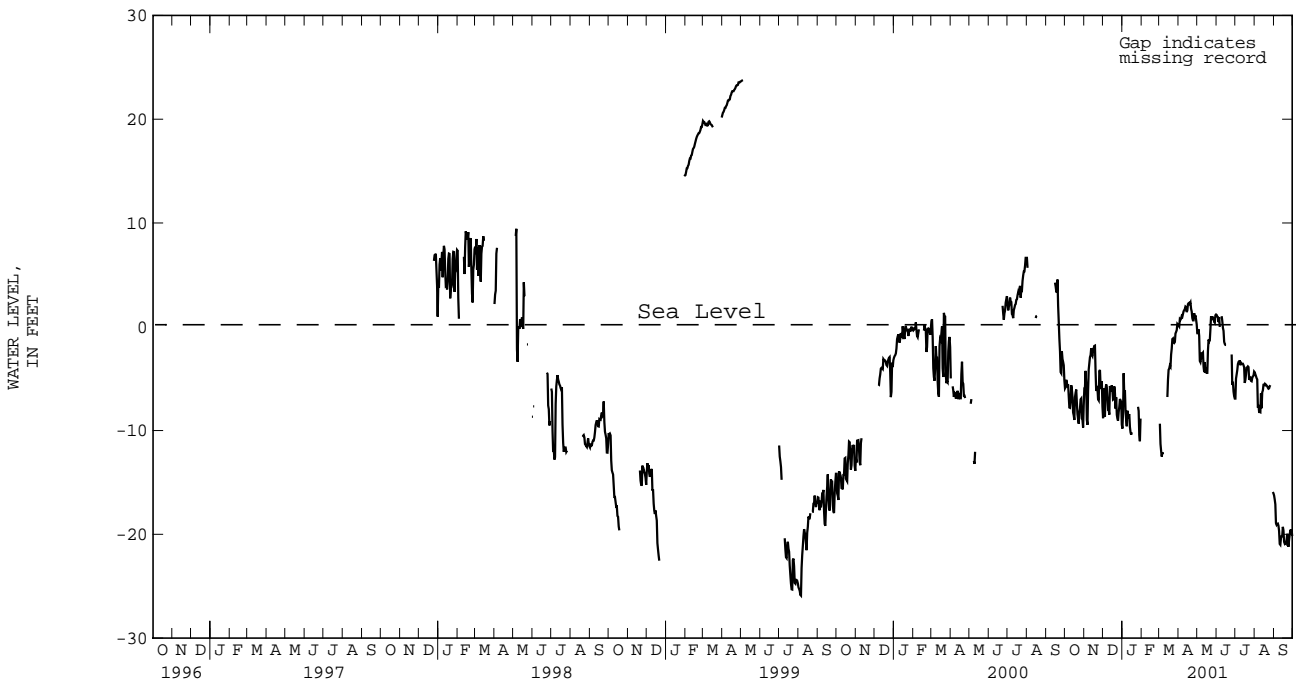
ANNE ARUNDEL COUNTY--Continued

AA Cc 135--Continued

WATER LEVELS, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.60	.12	2.15	-.62	4.21	1.13	-3.45	-6.92	-1.70	-4.40	-10.55	-16.26
2	3.08	.03	2.12	-.62	5.41	.98	-2.10	-5.00	-2.80	-4.59	-11.83	-16.65
3	2.75	.74	1.99	-.25	5.42	.93	-1.79	-4.59	-3.59	-4.76	-12.79	-17.11
4	2.94	.67	.52	-.88	3.99	.45	-.86	-4.19	-3.72	-4.96	-17.11	-18.92
5	2.97	.79	.63	-3.30	4.55	.91	-.07	-3.59	-3.45	-5.07	-16.06	-19.09
6	3.40	1.03	-.43	-3.42	4.45	-.02	-.22	-3.41	-5.05	-7.79	-14.83	-19.00
7	3.89	.96	.09	-3.03	---	---	-.46	-3.41	-5.54	-7.52	-15.06	-18.97
8	3.90	1.23	.12	-2.57	---	---	-.43	-3.23	-6.61	-8.21	-15.01	-19.17
9	3.82	1.49	.43	-2.57	5.64	1.02	2.08	-3.71	-7.43	-8.21	-17.92	-19.67
10	3.92	1.60	1.17	-2.49	4.79	.57	-.79	-3.48	-4.24	-8.24	-19.67	-20.93
11	4.01	1.71	.26	-3.83	3.41	-.11	-1.08	-3.57	-2.68	-6.42	-16.61	-21.01
12	4.13	1.95	-.58	-4.37	2.86	-.39	-.51	-3.58	-6.19	-7.85	-15.86	-20.36
13	4.32	1.90	-.69	-3.40	1.85	-1.45	-1.46	-3.57	-3.75	-6.32	-16.07	-20.17
14	4.53	1.41	-.20	-4.45	1.35	-1.66	-2.32	-3.70	-2.85	-6.13	-16.40	-20.17
15	4.55	1.58	-1.00	-3.89	.39	-1.75	-2.12	-3.91	-2.56	-5.60	-14.36	-19.28
16	4.49	2.18	-1.38	-4.44	1.23	-1.75	-3.48	-5.41	-2.72	-5.60	-15.55	-19.62
17	4.82	2.27	-1.24	-4.44	---	---	-2.23	-5.11	-2.86	-5.51	-18.31	-20.71
18	4.88	2.31	.11	-2.33	---	---	-3.15	-4.59	-2.64	-5.63	-17.05	-20.89
19	4.78	2.21	2.19	-1.23	---	---	-.72	-3.94	-3.34	-5.59	-16.83	-20.81
20	4.65	2.34	2.24	-1.42	---	---	-.72	-3.91	-3.89	-5.66	-17.30	-20.89
21	5.17	1.74	2.61	-1.30	---	---	-1.44	-3.82	-2.98	-5.74	-15.75	-20.55
22	4.51	1.46	3.97	-.20	---	---	-2.32	-3.89	-3.92	-5.88	-14.81	-19.95
23	3.80	.83	4.02	1.01	---	---	-3.81	-5.11	-4.15	-5.97	-16.37	-20.19
24	2.80	.62	4.80	.72	---	---	-3.96	-4.98	-2.92	-5.93	-19.89	-21.20
25	3.22	.62	4.26	1.01	1.96	-2.67	-4.63	-4.92	-2.94	-5.73	-15.96	-20.53
26	3.91	1.30	4.75	.64	-2.67	-5.61	-4.92	-5.21	-3.33	-5.63	-15.30	-20.07
27	3.63	.92	5.06	.92	-1.76	-5.30	-2.61	-5.25	---	---	-15.70	-19.56
28	3.79	1.10	5.01	.49	-2.17	-6.25	-2.58	-4.93	---	---	-16.08	-19.85
29	3.04	.70	4.28	.40	-2.60	-6.68	-3.15	-4.79	---	---	-14.62	-19.55
30	.99	.23	4.40	1.11	-2.96	-6.92	-2.65	-4.71	-12.84	-15.92	-16.58	-20.17
31	---	---	4.72	1.18	---	---	-1.16	-4.32	-11.62	-16.06	---	---
MONTH	5.17	.03	5.06	-4.45	5.64	-6.92	2.08	-6.92	-1.70	-16.06	-10.55	-21.20
YEAR	5.64	-21.20										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cc 137. SITE ID.--390126076402901. PERMIT NUMBER.--AA-93-0993.  
 LOCATION.--Lat 39°01'26", long 76°40'29", Hydrologic Unit 02060006, nr Reidel Rd and Johns Hopkins Rd, at Crofton Meadows.  
 Owner: Anne Arundel County.  
 AQUIFER.--Lower Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 690 ft; casing diameter 4 in. to 300 ft, and casing diameter 2 in. from 300 to 476 ft, and 506 to 536 ft, 576 to 606 ft, and 686 to 690 ft; screen diameter 2 in. from 476 to 506 ft, and 536 to 576 ft, and 606 to 686 ft.  
 INSTRUMENTATION.--Monthly measurements with steel tape by Maryland Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 4, 1998 to current year.  
 DATUM.--Elevation of land surface is 115.34 ft above sea level.  
 Measuring point: Top of shelter platform, 2.10 ft above land surface.  
 REMARKS.--Anne Arundel Co. observation well network. Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--December 1997 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.28 ft above sea level, Feb. 17, 2001; lowest measured, 4.49 ft above sea level, June 2, 1999.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	27.09	26.65	---	---	---	---	---	---	---	---	29.96	28.69
2	27.05	26.76	---	---	---	---	---	---	---	---	29.35	28.21
3	27.19	26.84	---	---	---	---	---	---	---	---	29.06	27.61
4	27.22	26.88	---	---	---	---	---	---	---	---	28.59	27.54
5	27.42	26.94	---	---	---	---	---	---	---	---	28.74	27.66
6	27.70	27.32	---	---	---	---	---	---	---	---	28.74	27.45
7	---	---	---	---	---	---	---	---	---	---	28.38	27.50
8	---	---	---	---	---	---	---	---	29.72	28.49	28.87	27.45
9	---	---	---	---	---	---	---	---	29.71	28.55	29.16	28.87
10	---	---	---	---	---	---	---	---	30.09	28.33	29.20	28.82
11	---	---	---	---	---	---	---	---	29.89	28.14	29.07	28.73
12	---	---	---	---	---	---	---	---	29.17	27.87	28.95	26.15
13	---	---	---	---	---	---	---	---	29.51	28.20	26.97	25.65
14	---	---	---	---	---	---	---	---	29.64	28.49	26.38	24.63
15	---	---	---	---	---	---	---	---	30.07	28.51	25.38	24.28
16	---	---	---	---	---	---	---	---	29.83	28.50	25.07	23.86
17	---	---	---	---	---	---	---	---	30.28	28.15	24.74	22.88
18	---	---	---	---	---	---	---	---	29.69	27.99	24.28	22.34
19	---	---	---	---	---	---	---	---	29.63	27.94	23.40	22.18
20	---	---	---	---	---	---	---	---	30.06	28.02	23.46	22.35
21	---	---	---	---	---	---	---	---	29.82	28.33	23.54	22.34
22	---	---	---	---	---	---	---	---	29.90	28.58	23.53	22.28
23	---	---	---	---	---	---	---	---	30.20	28.64	23.31	21.98
24	---	---	---	---	---	---	---	---	30.02	28.21	23.21	21.24
25	---	---	---	---	---	---	---	---	29.97	28.27	22.68	21.17
26	---	---	---	---	---	---	---	---	29.59	28.15	22.19	20.98
27	---	---	---	---	---	---	---	---	29.51	28.59	22.21	21.07
28	---	---	---	---	---	---	---	---	29.95	28.57	22.11	21.01
29	---	---	---	---	---	---	---	---	---	---	22.11	20.95
30	---	---	---	---	---	---	---	---	---	---	22.43	21.21
31	---	---	---	---	---	---	---	---	---	---	22.39	20.85
MONTH	27.70	26.65	---	---	---	---	---	---	30.28	27.87	29.96	20.85

GROUND-WATER LEVELS IN MARYLAND--Continued

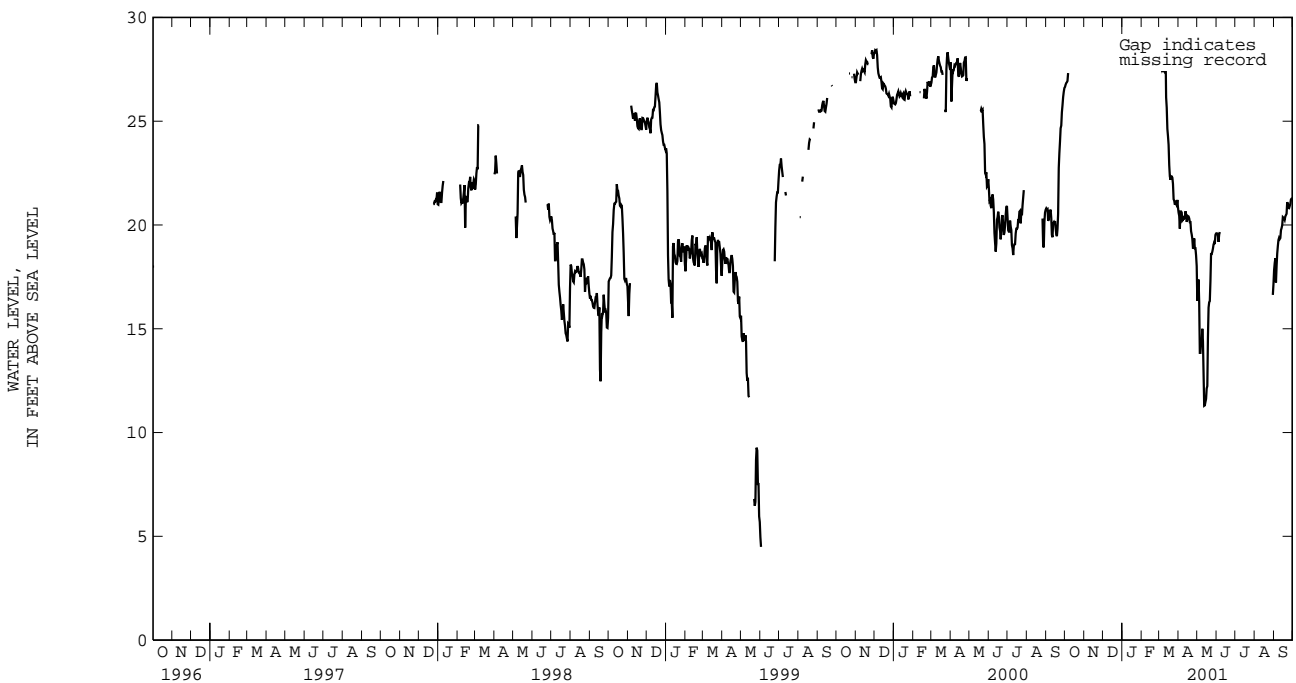
ANNE ARUNDEL COUNTY--Continued

AA Cc 137--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.23	20.59	18.84	16.35	20.87	19.60	---	---	---	---	19.08	17.82
2	21.64	20.44	18.31	16.92	21.65	19.59	---	---	---	---	19.34	18.17
3	21.49	19.82	18.44	17.37	21.59	19.48	---	---	---	---	19.44	18.39
4	21.50	20.65	17.39	16.29	20.48	19.19	---	---	---	---	18.93	17.23
5	21.38	20.65	17.29	13.84	20.93	19.54	---	---	---	---	18.91	18.03
6	21.39	20.60	15.99	13.84	20.91	19.66	---	---	---	---	19.56	18.62
7	21.58	20.21	16.39	14.39	---	---	---	---	---	---	19.85	18.99
8	21.38	20.25	16.86	14.35	---	---	---	---	---	---	20.28	19.28
9	21.17	20.35	16.72	15.00	---	---	---	---	---	---	19.67	19.38
10	21.08	20.31	17.26	14.40	---	---	---	---	---	---	19.48	19.32
11	21.14	20.33	16.54	12.88	---	---	---	---	---	---	20.38	19.37
12	21.27	20.66	12.88	11.29	---	---	---	---	---	---	20.67	19.75
13	21.39	20.52	14.53	11.31	---	---	---	---	---	---	20.72	19.85
14	21.47	20.15	14.06	11.47	---	---	---	---	---	---	20.83	19.99
15	21.38	20.28	14.40	11.62	---	---	---	---	---	---	21.31	20.38
16	21.36	20.43	14.41	12.12	---	---	---	---	---	---	21.22	20.35
17	21.39	20.41	14.97	12.24	---	---	---	---	---	---	20.60	20.33
18	21.31	20.32	16.22	14.57	---	---	---	---	---	---	21.09	20.25
19	21.17	20.14	17.66	16.02	---	---	---	---	---	---	21.22	20.41
20	20.94	20.14	17.74	16.28	---	---	---	---	---	---	21.19	20.48
21	21.25	19.70	18.06	16.33	---	---	---	---	---	---	21.75	20.54
22	20.87	19.54	19.42	17.30	---	---	---	---	---	---	22.03	21.10
23	20.34	19.33	19.67	18.60	---	---	---	---	---	---	21.86	21.01
24	19.68	18.90	20.33	18.60	---	---	---	---	---	---	21.22	20.82
25	19.74	18.90	20.06	18.71	---	---	---	---	---	---	22.03	20.81
26	20.32	19.35	20.61	18.86	---	---	---	---	---	---	21.98	20.91
27	20.17	18.88	20.89	19.06	---	---	---	---	---	---	21.99	21.02
28	20.11	18.88	21.06	19.15	---	---	---	---	---	---	22.02	21.23
29	19.51	18.54	20.76	19.08	---	---	---	---	---	---	22.50	21.27
30	18.54	18.02	20.82	19.52	---	---	---	---	17.30	16.63	22.00	21.26
31	---	---	21.04	19.59	---	---	---	---	18.21	17.16	---	---
MONTH	22.23	18.02	21.06	11.29	21.65	19.19	---	---	18.21	16.63	22.50	17.23
YEAR	30.28	11.29										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ce 117. SITE ID.--390450076343402. PERMIT NUMBER.--AA-73-0172.

LOCATION.--Lat 39°04'50", long 76°34'35", Hydrologic Unit 02060004, 0.1 mi southwest of intersection of Severndale Road and Southway Road.

Owner: Anne Arundel County Department of Public Works.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 922 ft; casing diameter 6 in., to 836 ft, 851 to 870 ft, and 890 to 907 ft; screen diameter 6 in. from 836 to 851 ft, 870 to 890 ft, and 907 to 922 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey and Maryland Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from Aug. 18, 1977 to April 1980 and August 1983 to current year.

DATUM.--Elevation of land surface is 86.0 ft above sea level.

Measuring Point: Top of shelter platform, 0.5 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.58 ft above sea level, March 27, 1978; lowest measured, 0.02 ft above sea level, Oct. 30, 1998.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	6.18	6.10	6.15	6.11	6.20	5.85	6.01	5.65	---	---
2	---	---	6.19	5.99	6.14	5.85	6.04	5.70	5.97	5.59	---	---
3	---	---	6.14	6.08	6.10	6.05	6.13	5.69	5.85	5.53	---	---
4	---	---	6.17	6.14	6.20	6.06	6.22	5.90	5.80	5.44	---	---
5	---	---	---	---	6.36	6.20	6.40	5.97	5.97	5.71	---	---
6	---	---	6.05	5.99	6.24	6.15	6.38	6.13	5.98	5.64	---	---
7	---	---	6.06	6.01	6.35	6.10	6.29	6.00	5.91	5.61	---	---
8	---	---	6.09	6.02	6.34	6.20	6.28	5.99	5.74	5.42	---	---
9	---	---	6.23	5.86	6.20	5.87	6.20	6.14	5.99	5.46	---	---
10	---	---	6.41	5.99	6.24	5.85	6.14	6.06	6.04	5.76	---	---
11	---	---	6.12	5.85	6.36	6.22	6.10	5.96	5.76	5.35	---	---
12	---	---	6.06	5.71	6.52	6.11	6.10	5.69	5.64	5.27	---	---
13	---	---	6.21	5.83	6.11	5.76	6.02	5.64	5.74	5.39	---	---
14	---	---	6.22	6.19	6.27	5.86	6.06	5.68	6.04	5.50	---	---
15	---	---	6.19	5.75	6.19	6.09	6.13	5.80	6.08	5.90	---	---
16	---	---	6.18	6.04	6.39	5.93	6.13	5.73	---	---	---	---
17	---	---	6.19	5.89	6.81	6.21	5.95	5.66	---	---	---	---
18	---	---	6.00	5.75	6.60	6.32	5.92	5.84	---	---	---	---
19	---	---	---	---	6.46	6.32	6.15	5.75	---	---	---	---
20	---	---	---	---	6.46	6.21	6.12	6.05	---	---	---	---
21	---	---	---	---	6.30	6.21	6.10	5.76	---	---	---	---
22	---	---	6.09	5.66	6.37	6.17	5.77	5.48	---	---	---	---
23	---	---	---	---	6.17	6.04	5.90	5.50	---	---	---	---
24	---	---	6.00	5.54	6.29	6.07	5.98	5.66	---	---	---	---
25	---	---	6.19	5.74	6.20	5.98	5.97	5.69	---	---	---	---
26	---	---	---	---	6.16	5.95	5.92	5.45	---	---	---	---
27	6.24	6.13	---	---	6.28	6.10	6.09	5.87	---	---	---	---
28	6.30	6.12	6.32	5.93	6.28	5.99	5.87	5.76	---	---	---	---
29	6.14	6.08	---	---	6.33	5.91	5.85	5.46	---	---	---	---
30	6.19	6.11	---	---	6.43	6.15	6.18	5.64	---	---	---	---
31	6.19	6.13	---	---	6.41	6.20	6.18	5.90	---	---	---	---
MONTH	6.30	6.08	6.41	5.54	6.81	5.76	6.40	5.45	6.08	5.27	---	---

GROUND-WATER LEVELS IN MARYLAND--Continued

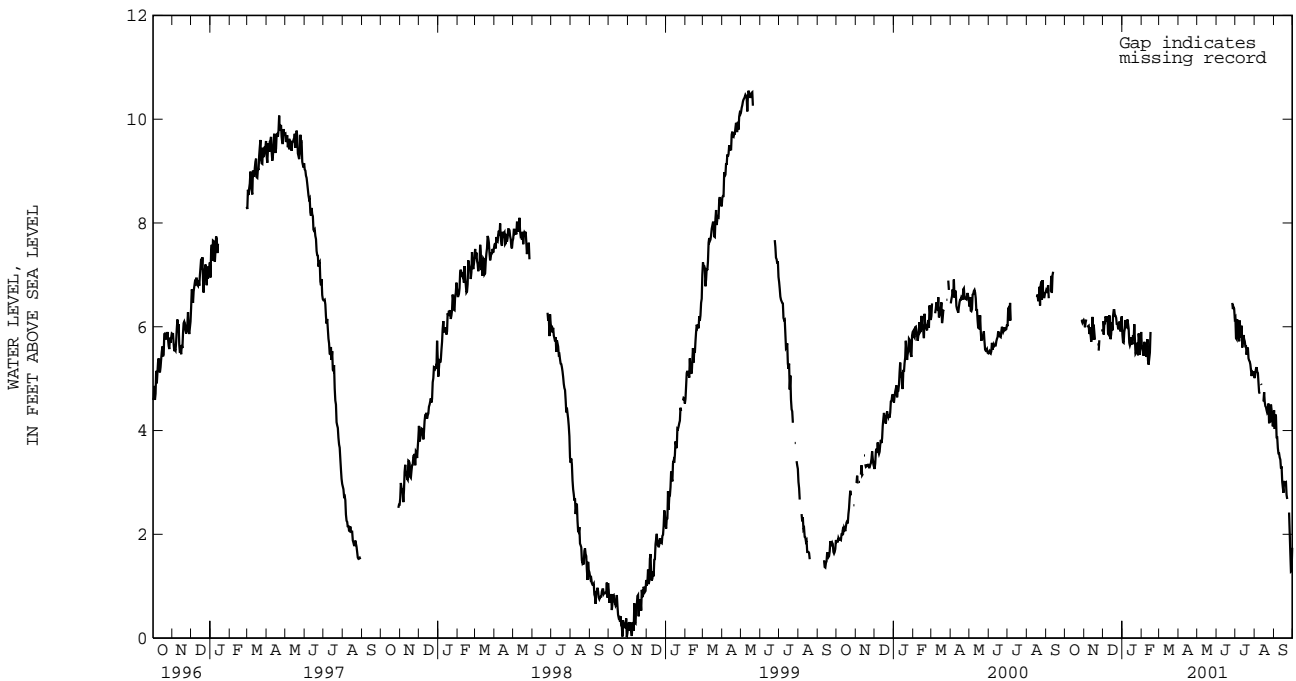
ANNE ARUNDEL COUNTY--Continued

AA Ce 117--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	6.54	6.18	5.30	5.01	4.59	4.39
2	---	---	---	---	---	---	6.35	5.78	5.21	5.12	4.40	4.03
3	---	---	---	---	---	---	6.17	5.76	5.28	5.19	4.36	4.31
4	---	---	---	---	---	---	6.29	6.14	5.28	5.22	4.34	4.27
5	---	---	---	---	---	---	6.30	5.97	5.22	5.13	4.27	3.87
6	---	---	---	---	---	---	6.26	5.91	5.13	5.11	4.05	3.87
7	---	---	---	---	---	---	6.12	5.72	5.13	4.92	3.98	3.66
8	---	---	---	---	---	---	6.19	6.12	5.11	4.74	3.98	3.56
9	---	---	---	---	---	---	6.19	5.84	5.08	4.71	3.85	3.56
10	---	---	---	---	---	---	6.14	5.79	---	---	3.79	3.48
11	---	---	---	---	---	---	6.14	6.02	5.07	4.90	3.74	3.44
12	---	---	---	---	---	---	6.02	5.60	4.93	4.88	3.61	3.27
13	---	---	---	---	---	---	5.92	5.76	---	---	3.59	3.31
14	---	---	---	---	---	---	5.89	5.84	---	---	3.31	3.01
15	---	---	---	---	---	---	5.84	5.76	4.79	4.56	3.07	2.90
16	---	---	---	---	---	---	5.77	5.72	4.76	4.74	3.10	2.80
17	---	---	---	---	---	---	5.75	5.62	4.77	4.55	3.07	3.01
18	---	---	---	---	---	---	5.83	5.62	4.74	4.47	3.07	3.01
19	---	---	---	---	---	---	5.74	5.46	4.73	4.45	3.02	2.99
20	---	---	---	---	---	---	5.75	5.57	4.73	4.39	3.07	3.00
21	---	---	---	---	---	---	5.75	5.60	4.66	4.34	3.09	2.76
22	---	---	---	---	---	---	5.72	5.39	4.58	4.36	3.06	2.68
23	---	---	---	---	---	---	5.67	5.35	4.57	4.52	---	---
24	---	---	---	---	---	---	5.68	5.33	4.57	4.14	---	---
25	---	---	---	---	---	---	5.67	5.27	4.48	4.44	2.89	2.42
26	---	---	---	---	6.57	6.46	5.59	5.16	4.51	4.16	2.49	2.04
27	---	---	---	---	6.46	6.34	5.41	5.05	4.54	4.50	2.16	1.64
28	---	---	---	---	6.42	6.38	5.40	5.13	4.50	4.39	1.84	1.28
29	---	---	---	---	6.40	6.35	5.45	5.11	4.39	4.31	1.74	1.29
30	---	---	---	---	6.42	6.16	5.46	5.14	4.52	4.08	1.91	1.74
31	---	---	---	---	---	---	5.39	5.05	4.60	4.28	---	---
MONTH	---	---	---	---	6.57	6.16	6.54	5.05	5.30	4.08	4.59	1.28
YEAR	6.81	1.28										

Daily Low Water Levels



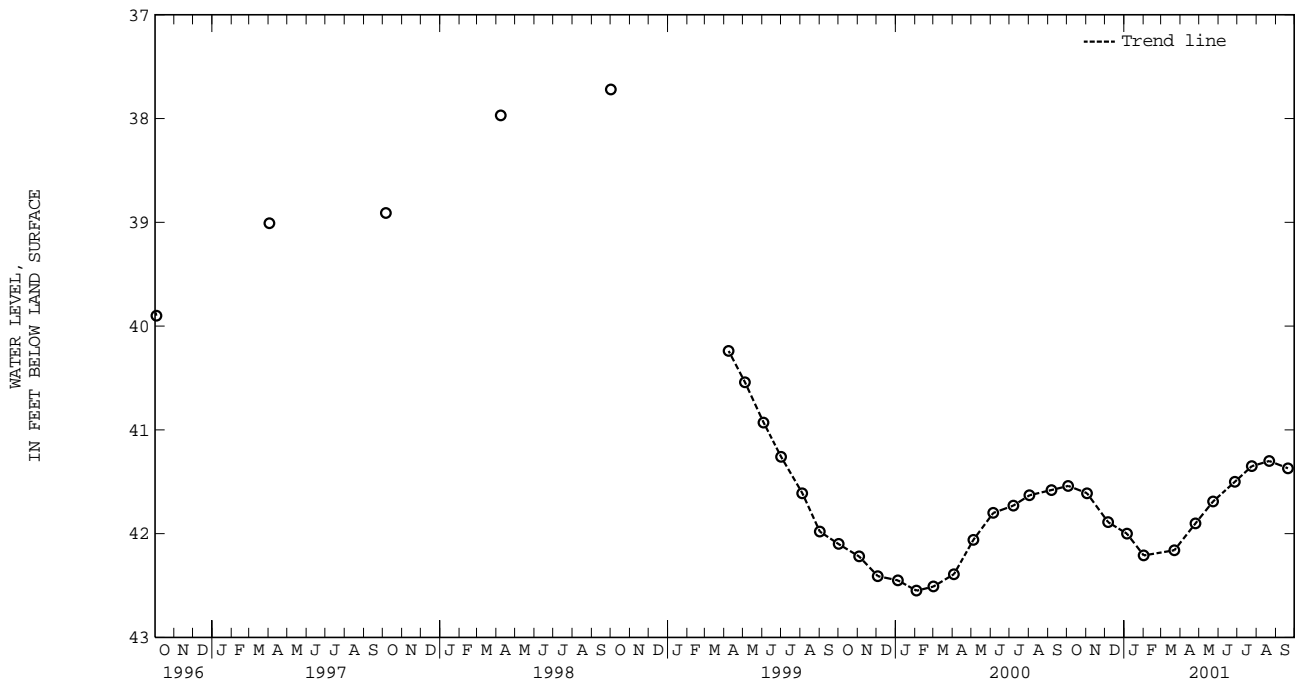
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cf 98. SITE ID.--390150076283003. PERMIT NUMBER.--AA-70-0199.  
 LOCATION.--Lat 39°01'50", long 76°28'30", Hydrologic Unit 02060004, 3.1 mi northeast of Annapolis, near Anne Arundel Co.  
 Traffic Engineering Building, Broad Neck.  
 Owner: Anne Arundel Co. Dept. of Recreation and Parks.  
 AQUIFER.--Severn Formation of Upper Cretaceous age. Aquifer code: 211SVRN.  
 WELL CHARACTERISTICS.--Drilled, artesian, observation well, depth 100 ft; casing diameter 2 in., to 90 ft;  
 screen diameter 2 in. from 90 to 100 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from September 1969 to September 1986, April 1989 to February 1999.  
 DATUM.--Elevation of land surface is 93.42 ft above sea level.  
 Measuring Point: Top of casing, 3.51 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well,  
 PERIOD OF RECORD.--September 1969 to September 1986, April 1989 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.14 ft below land surface, Aug. 3, 1972;  
 lowest measured, 44.39 ft below land surface, Nov. 15, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	41.54	JAN 05, 2001	42.00	APR 25, 2001	41.90	JUL 24, 2001	41.35
NOV 02	41.61	FEB 01	42.21	MAY 23	41.69	AUG 21	41.30
DEC 06	41.89	MAR 22	42.16	JUN 27	41.50	SEP 20	41.37
WATER YEAR 2001 HIGHEST 41.30		AUG 21, 2001		LOWEST 42.21		FEB 01, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

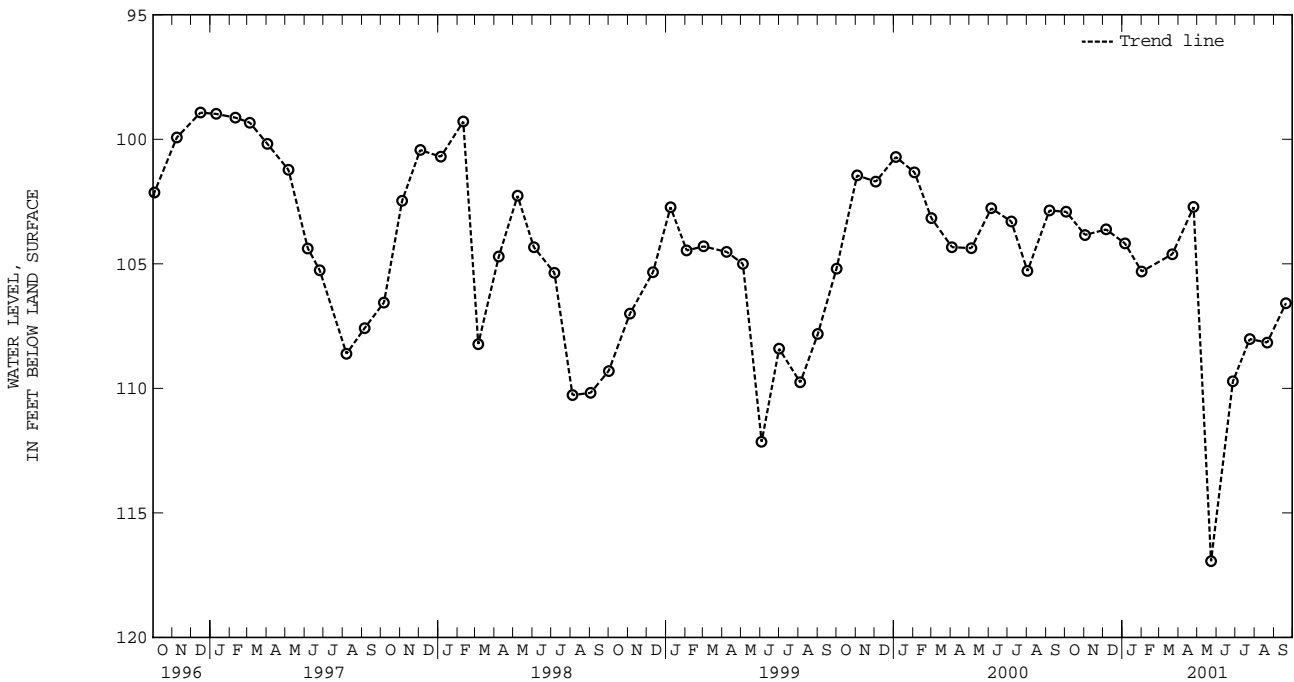
GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cf 99. SITE ID.--390150076283002. PERMIT NUMBER.--AA-70-0199.  
 LOCATION.--Lat 39°01'50", long 76°28'30", Hydrologic Unit 02060004, 3.1 mi northeast of Annapolis, near Anne Arundel Co.  
 Traffic Engineering Building, Broad Neck.  
 Owner: Anne Arundel Co. Dept. of Recreation and Parks.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, artesian, observation well, depth 220 ft; casing diameter 2 in., to 210 ft;  
 screen diameter 2 in. from 210 to 220 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with graphic water-level recorder from Sept. 28, 1969 to July 13, 1971.  
 DATUM.--Elevation of land surface is 93.70 ft above sea level.  
 Measuring Point: Top of casing, 3.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--January 1971 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.29 ft below land surface, April 13, 1976;  
 lowest measured, 116.94 ft below land surface, May 23, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	102.91	JAN 05, 2001	104.18	APR 25, 2001	102.72	JUL 24, 2001	108.02
NOV 02	103.84	FEB 01	105.31	MAY 23	116.94	AUG 21	108.16
DEC 06	103.62	MAR 22	104.61	JUN 27	109.72	SEP 20	106.58
WATER YEAR 2001		HIGHEST	102.72	APR 25, 2001	LOWEST	116.94	MAY 23, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cg 22. SITE ID.--390123076241601. PERMIT NUMBER.--AA-73-8606.  
 LOCATION.--Lat 39°01'23", long 76°24'16", Hydrologic Unit 02060004, 1,500 ft northeast of Oceanic Dr. and South Beach Rd.,  
 at Sandy Point State Park.

Owner: U.S. Geological Survey

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,762 ft; casing diameter 10 in., to 163 ft;  
 casing diameter 8 in., 0 to 1,760 ft; screen diameter 4 in. from 1,735 to 1,755 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 12.61 ft above sea level.

Measuring Point: Top of flange, 3.44 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

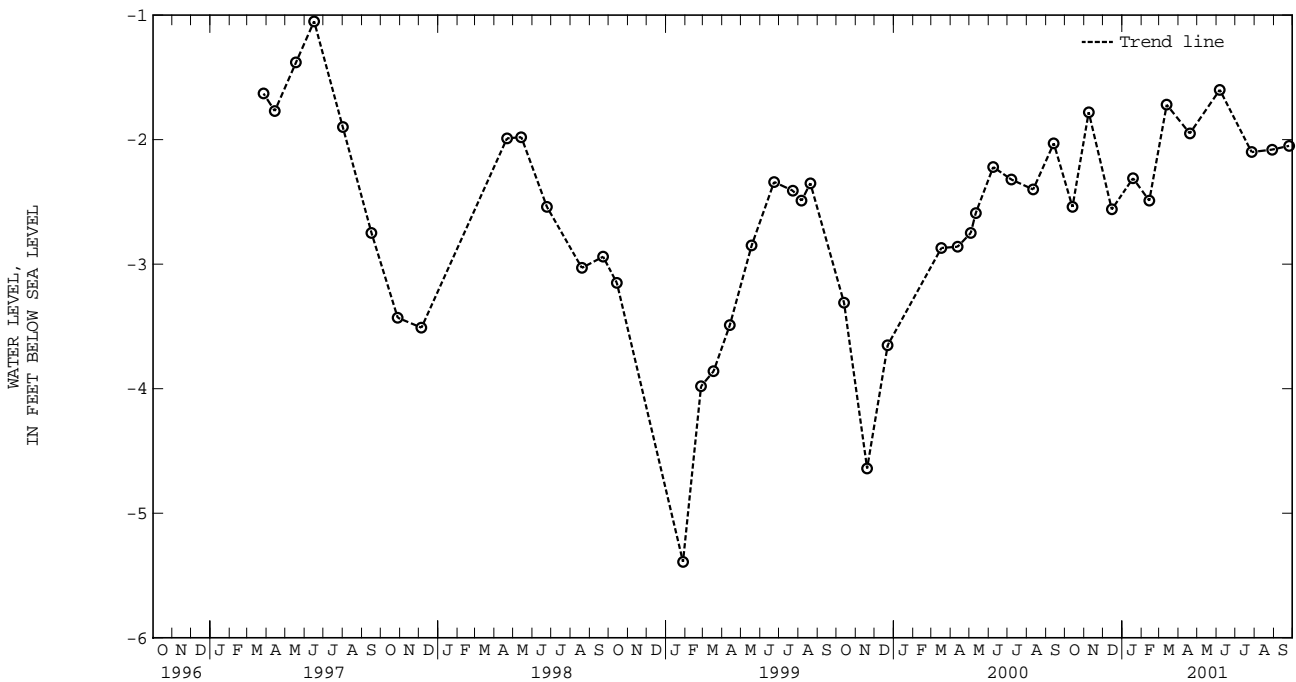
PERIOD OF RECORD.--September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.47 ft above sea level, Sept. 6, 1979;  
 lowest measured, 5.39 ft below sea level, Jan. 28, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 2000	-2.54	JAN 18, 2001	-2.31	APR 19, 2001	-1.95	AUG 29, 2001	-2.08
NOV 08	-1.78	FEB 13	-2.49	JUN 06	-1.60	SEP 25	-2.05
DEC 15	-2.56	MAR 13	-1.72	JUL 27	-2.10		

WATER YEAR 2001 HIGHEST -1.60 JUN 06, 2001 LOWEST -2.56 DEC 15, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cg 23. SITE ID.--390123076241602. PERMIT NUMBER.--AA-73-8959.

LOCATION.--Lat 39°01'23", long 76°24'16", Hydrologic Unit 02060004, 1500 ft northeast of Oceanic Dr. and South Beach Rd., at Sandy Point State Park.

Owner: U.S. Geological Survey

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 986 ft; casing diameter 4 in., to 968 ft; and 978 to 986 ft; screen diameter 4 in. from 968 to 978 ft.

INSTRUMENTATION.-- Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with a graphic water-level recorder from Sept. 9, 1978 to Feb. 21, 1980. Equipped with digital water-level recorder--60-minute recorder interval from Sept. 11, 1990 to August 29, 2001.

DATUM.--Elevation of land surface is 12.57 ft above sea level.

Measuring Point: Top of flange, 3.43 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

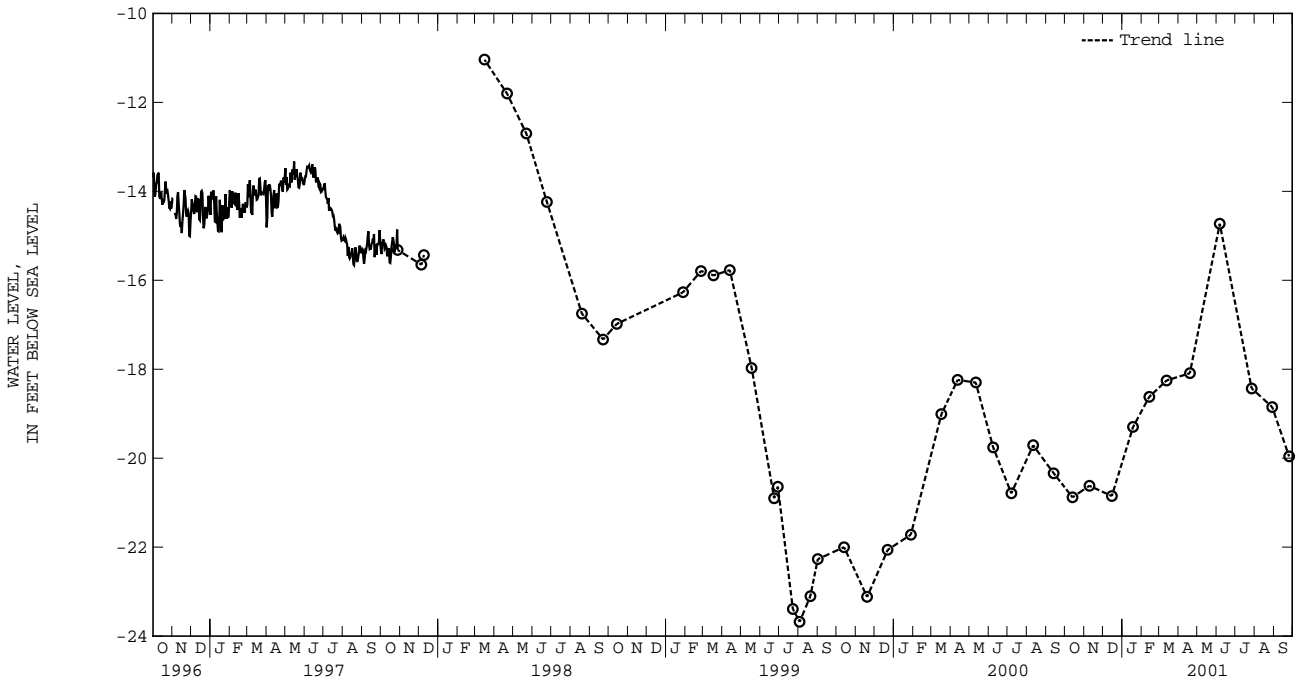
PERIOD OF RECORD.-- September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.07 ft above sea level, May 3, 1980; lowest measured, 23.93 ft below sea level, Aug. 9, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 2000	-20.88	JAN 18, 2001	-19.30	APR 19, 2001	-18.09	AUG 29, 2001	-18.85
NOV 09	-20.62	FEB 13	-18.62	JUN 06	-14.73	SEP 25	-19.96
DEC 15	-20.85	MAR 13	-18.25	JUL 27	-18.43		

WATER YEAR 2001 HIGHEST -14.73 JUN 06, 2001 LOWEST -20.88 OCT 13, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cg 24. SITE ID.--390123076241603 PERMIT NUMBER.--AA-73-8960.

LOCATION.--Lat 39°01'23", long 76°24'16", Hydrologic Unit 02060004, 1500 ft northeast of Oceanic Dr. and South Beach Rd., at Sandy Point State Park.

Owner: U.S. Geological Survey

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 664 ft; casing diameter 6 in., to 158 ft; casing diameter 4 in., 158 to 605 ft, 615 to 648 and 658 to 664 ft; screen diameter 4 in. from 605 to 615 ft, and 648 to 658 ft.

INSTRUMENTATION.-- Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. DATUM.--Elevation of land surface is 12.68 ft above sea level.

Measuring Point: Top of flange, 3.16 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

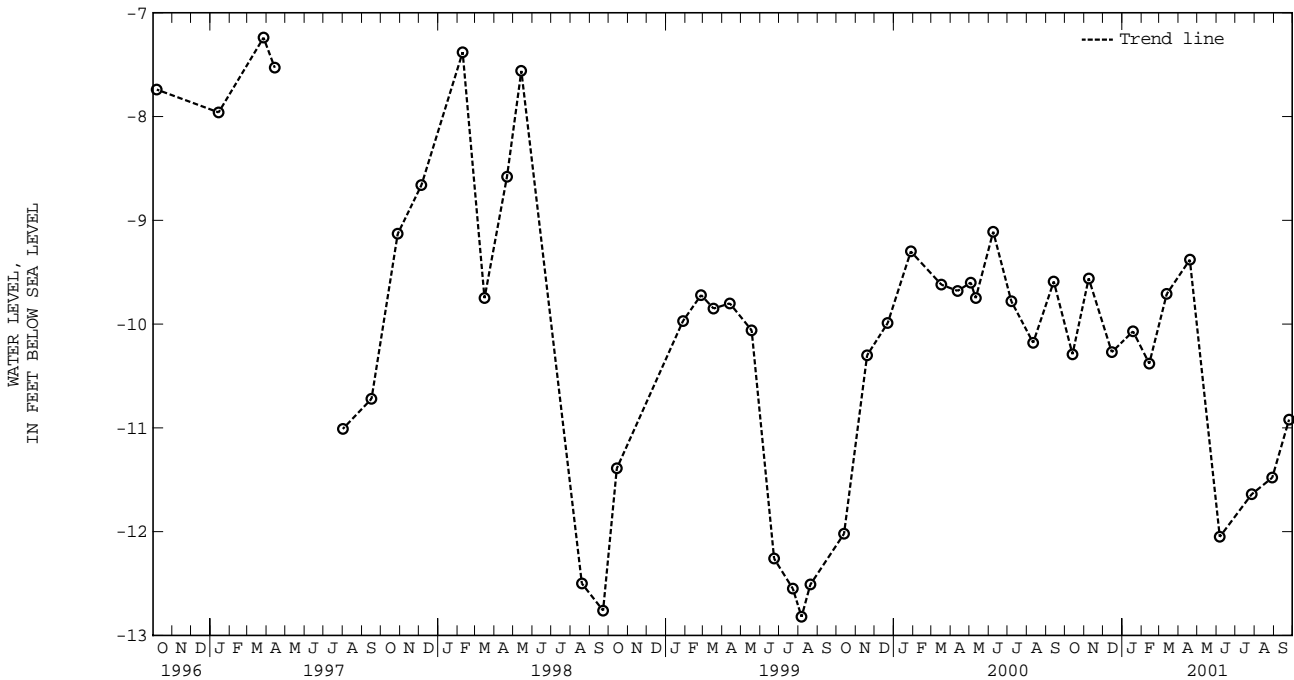
PERIOD OF RECORD.-- September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.21 ft above sea level, Aug. 15, 1980; lowest measured, 12.82 ft below sea level, Aug. 6, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 2000	-10.29	JAN 18, 2001	-10.07	APR 19, 2001	-9.38	AUG 29, 2001	-11.48
NOV 08	-9.56	FEB 13	-10.38	JUN 06	-12.05	SEP 25	-10.92
DEC 15	-10.27	MAR 13	-9.71	JUL 27	-11.64		

WATER YEAR 2001 HIGHEST -9.38 APR 19, 2001 LOWEST -12.05 JUN 06, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

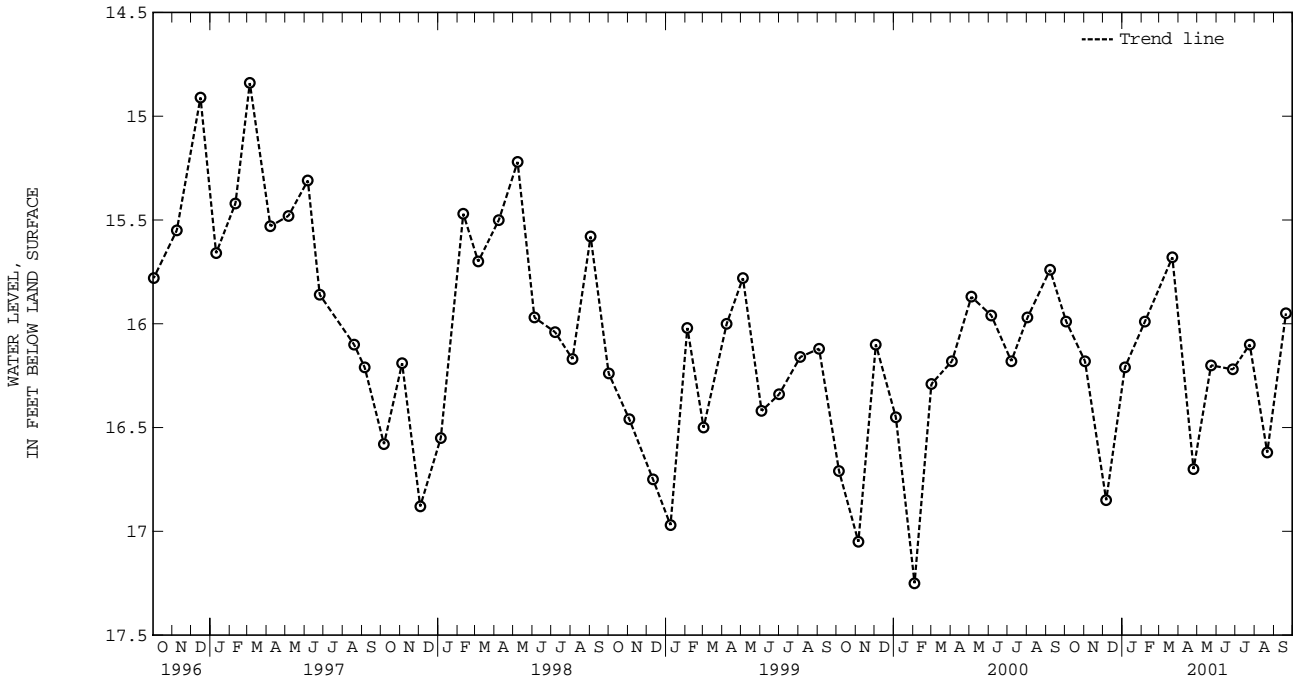
GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cg 25. SITE ID.--390127076240301. PERMIT NUMBER.--AA-74-1240.  
 LOCATION.--Lat 39°01'27", long 76°24'03", Hydrologic Unit 02060004, at Sandy Point State Park, near maintenance area.  
 Owner: Maryland Department of Natural Resources.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 107 ft; casing diameter 3 in., to 100 ft;  
 screen diameter 3 in. from 100 to 107 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 17.33 ft above sea level.  
 Measuring Point: Top of casing, 2.43 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--April 1981 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.74 ft below land surface, April 13, 1988;  
 lowest measured, 18.25 ft below land surface, Oct. 1, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	15.99	JAN 05, 2001	16.21	APR 25, 2001	16.70	JUL 24, 2001	16.10
NOV 02	16.18	FEB 06	15.99	MAY 23	16.20	AUG 21	16.62
DEC 06	16.85	MAR 22	15.68	JUN 27	16.22	SEP 20	15.95
WATER YEAR 2001 HIGHEST 15.68 MAR 22, 2001		LOWEST 16.85 DEC 06, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Dd 42. SITE ID.--385808076373502. PERMIT NUMBER.--AA-71-0231.  
 LOCATION.--Lat 38°58'10", long 76°37'35", Hydrologic Unit 02060004, 30 ft south of MD Rt 50, 0.5 mi from intersection with Howard Grove Rd. and Rutland Rd.  
 Owner: U.S. Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 275 ft; casing diameter 4 in., to 190 ft; casing diameter 2 in., from 200 to 225 ft, and 235 to 265 ft. screen diameter 2 in. from 190 to 200 ft., 225 to 235 ft, and 265 to 275 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from December 1971 to August 1975 and with a digital water-level recorder--30-minute recorder interval from August 1975 to May 10, 1992.

DATUM.--Elevation of land surface is 105.48 ft above sea level.

Measuring Point: Top of shelter platform, .72 ft above land surface.

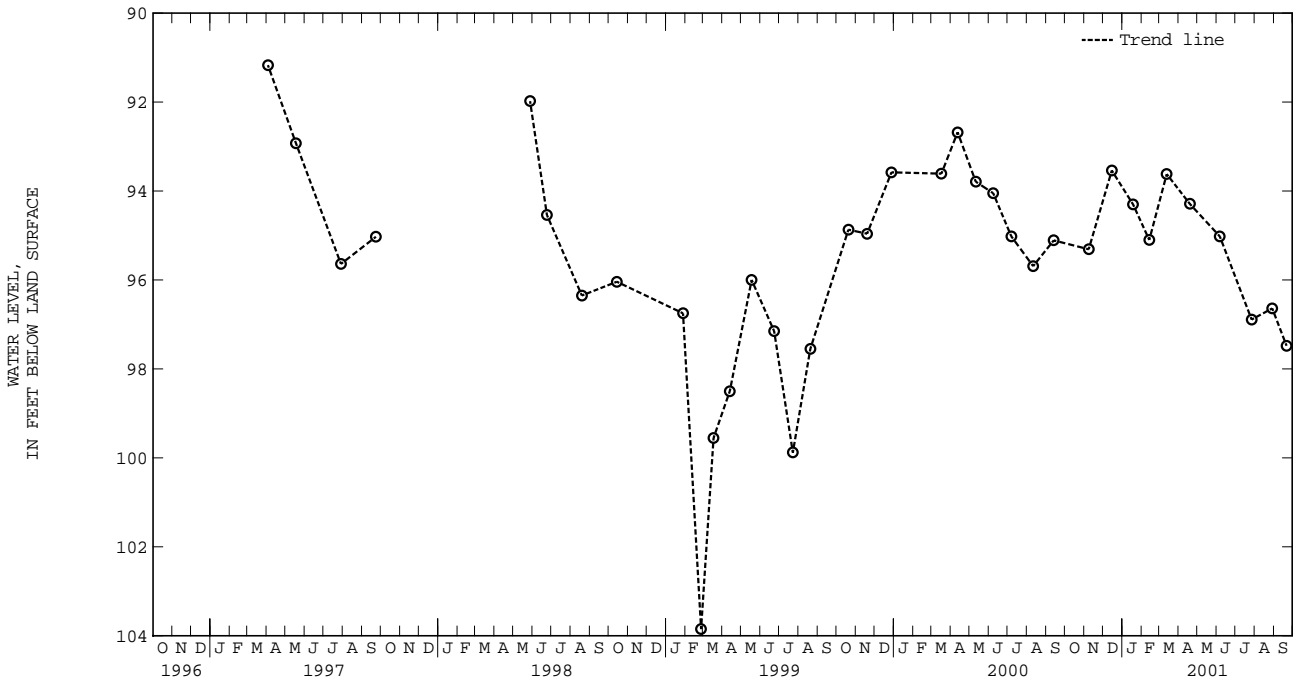
REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.25 ft below land surface May 4, 1973.  
 lowest measured, 103.85 ft below land surface, Feb. 26, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 08, 2000	95.31	FEB 13, 2001	95.10	JUN 06, 2001	95.02	SEP 21, 2001	97.48
DEC 15	93.54	MAR 13	93.62	JUL 27	96.89		
JAN 18, 2001	94.30	APR 19	94.29	AUG 29	96.64		
WATER YEAR 2001 HIGHEST 93.54 DEC 15, 2000		LOWEST 97.48		SEP 21, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA De 1. SITE ID.--385915076340401.

LOCATION.--Lat 38°59'15", long 76°34'03", Hydrologic Unit 02060004, 0.07 mi north of MD Rt 450, 1.1 mi west of Generals Highway.

Owner: City of Annapolis.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 237 ft; casing diameter 10 in., to 207 ft; screen diameter 6 in. from 207 to 237 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with graphic water-level recorder from May 1969 to Dec. 28, 1977 and with a digital water-level recorder--15-minute recorder interval from December 1977 to September 1996.

DATUM.--Elevation of land surface is 13.72 ft above sea level.

Measuring Point: Top of recorder platform, 2.00 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

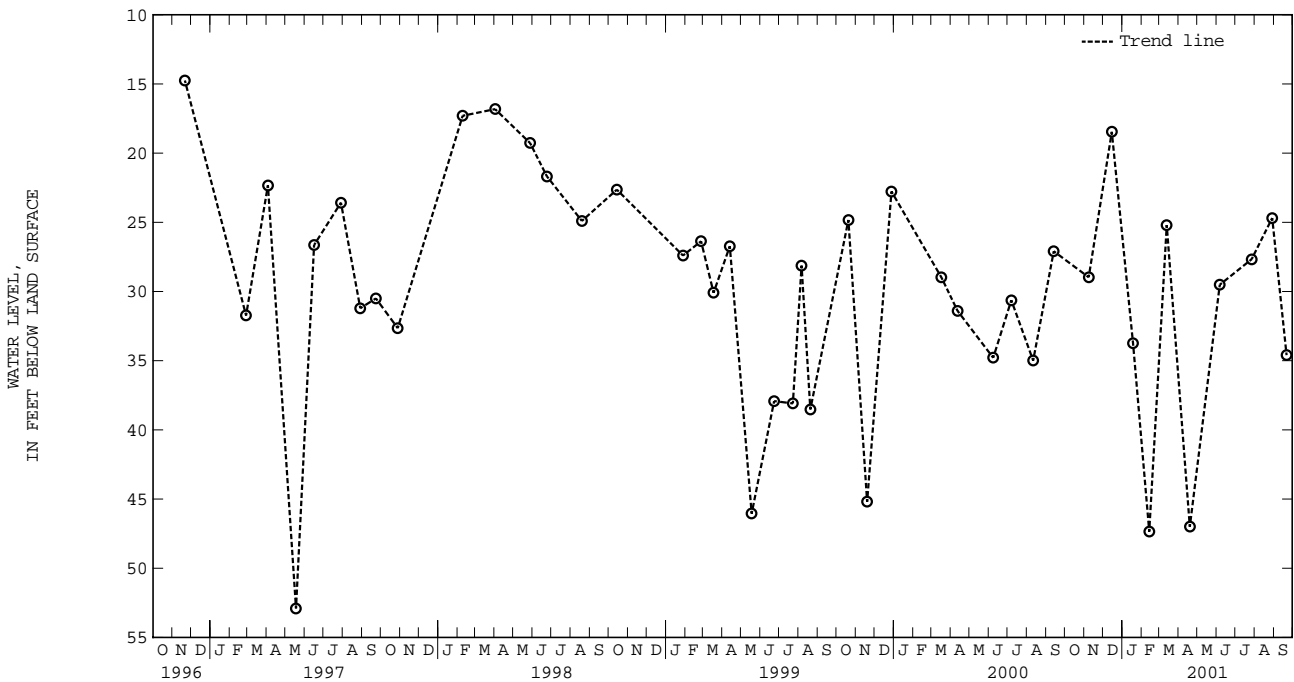
PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.25 ft below land surface, Nov. 14, 1988; lowest measured, 52.90 ft below land surface, May 18, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 08, 2000	28.97	FEB 13, 2001	47.35	JUN 06, 2001	29.51	SEP 21, 2001	34.60
DEC 15	18.46	MAR 13	25.20	JUL 27	27.67		
JAN 18, 2001	33.73	APR 19	47.00	AUG 29	24.69		

WATER YEAR 2001 HIGHEST 18.46 DEC 15, 2000 LOWEST 47.35 FEB 13, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 19. SITE ID.--385921076270701.

LOCATION.--Lat 38°59'22", long 76°27'04", Hydrologic Unit 02060004, 200 ft east of intersection with McLean and Hooper Rd.

Owner: U.S. Navy.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 590 ft; casing diameter 10 in., to 151.6 ft; casing diameter 8 in. from 151.6 to 464.3 ft, and casing diameter 6 in. from 0 to 565 ft; screen diameter 10 in. from 565 to 590 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from November 1979 to April 1980.

DATUM.--Elevation of land surface is 15.84 ft above sea level.

Measuring Point:Top of flange, 2.5 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

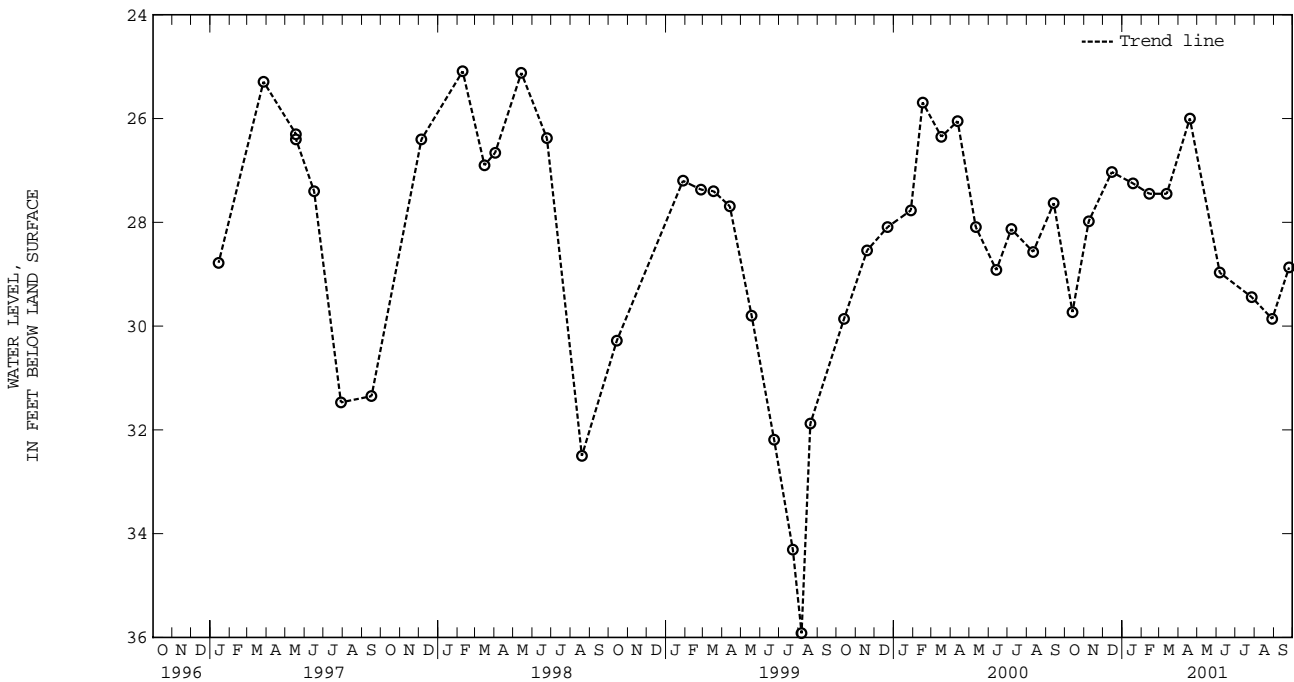
PERIOD OF RECORD.--March 1977 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.34 ft below land surface, March 9, 1977; lowest measured, 35.92 ft below land surface, Aug. 6, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 2000	29.73	JAN 18, 2001	27.25	APR 19, 2001	26.00	AUG 29, 2001	29.86
NOV 08	27.98	FEB 13	27.45	JUN 06	28.97	SEP 25	28.87
DEC 15	27.03	MAR 13	27.45	JUL 27	29.44		

WATER YEAR 2001 HIGHEST 26.00 APR 19, 2001 LOWEST 29.86 AUG 29, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 20. SITE ID.--385916076270702.

LOCATION.--Lat 38°59'16", long 76°27'07", Hydrologic Unit 02060004, off Hooper Rd., 400 ft from McLean Rd.

Owner: U.S. Navy.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 255 ft; casing diameter 10 in., to 150 ft; casing diameter 8 in. from 135 to 233 ft; screen diameter 8 in. from 229.4 to 255 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with graphic water-level recorder from June 1969 to December 1977. Equipped with digital water-level recorder--30-minute recorder interval from December 1977 to current year.

DATUM.--Elevation of land surface is 21.87 ft above sea level.

Measuring Point: Top of shelter platform, 3.0 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.91 ft below sea level, June 20, 1980;

lowest measured, 16.42 ft below sea level, Sept. 19, 21, 1995.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	-10.88	-10.91	---	---
2	---	---	---	---	---	---	-10.69	-10.77	-10.91	-10.93	---	---
3	---	---	-11.41	-11.50	---	---	-10.77	-10.83	---	---	-11.22	-11.25
4	---	---	---	---	---	---	---	---	---	---	-11.13	-11.22
5	---	---	---	---	---	---	---	---	---	---	-11.07	-11.13
6	---	---	---	---	---	---	---	---	---	---	-11.07	-11.10
7	---	---	---	---	-11.19	-11.21	---	---	---	---	-11.10	-11.21
8	---	---	---	---	---	---	---	---	---	---	-11.11	-11.21
9	---	---	---	---	---	---	---	---	---	---	-10.74	-11.11
10	---	---	---	---	---	---	---	---	---	---	-10.74	-10.79
11	---	---	---	---	---	---	---	---	---	---	-10.79	-10.85
12	---	---	---	---	---	---	---	---	---	---	-10.85	-10.95
13	---	---	---	---	---	---	---	---	---	---	-10.95	-10.99
14	---	---	---	---	---	---	---	---	-11.38	-11.49	-10.98	-10.99
15	---	---	---	---	---	---	---	---	---	---	-10.98	-10.98
16	---	---	---	---	---	---	---	---	---	---	-10.98	-10.98
17	---	---	---	---	---	---	---	---	---	---	-10.97	-10.98
18	---	---	---	---	---	---	-10.73	-10.77	---	---	-10.93	-10.97
19	---	---	---	---	---	---	---	---	---	---	-10.97	-11.02
20	---	---	---	---	---	---	---	---	---	---	-11.01	-11.02
21	---	---	---	---	---	---	---	---	---	---	-10.53	-11.01
22	---	---	-11.40	-11.49	---	---	-10.84	-10.90	---	---	-10.40	-10.53
23	---	---	-11.49	-11.61	---	---	-10.90	-10.92	---	---	-10.41	-10.47
24	---	---	---	---	---	---	-10.92	-10.93	---	---	-10.47	-10.49
25	---	---	---	---	-10.82	-10.89	-10.92	-10.92	-11.31	-11.35	-10.49	-10.57
26	---	---	---	---	---	---	-10.92	-10.96	-11.27	-11.31	-10.57	-10.59
27	---	---	---	---	---	---	-10.93	-10.96	---	---	-10.59	-10.68
28	---	---	---	---	---	---	---	---	---	---	-10.68	-10.69
29	---	---	---	---	---	---	---	---	---	---	-10.68	-10.69
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	-10.88	-10.90	---	---	---	---
MONTH	---	---	-11.40	-11.61	-10.82	-11.21	-10.69	-10.96	-10.88	-11.49	-10.40	-11.25

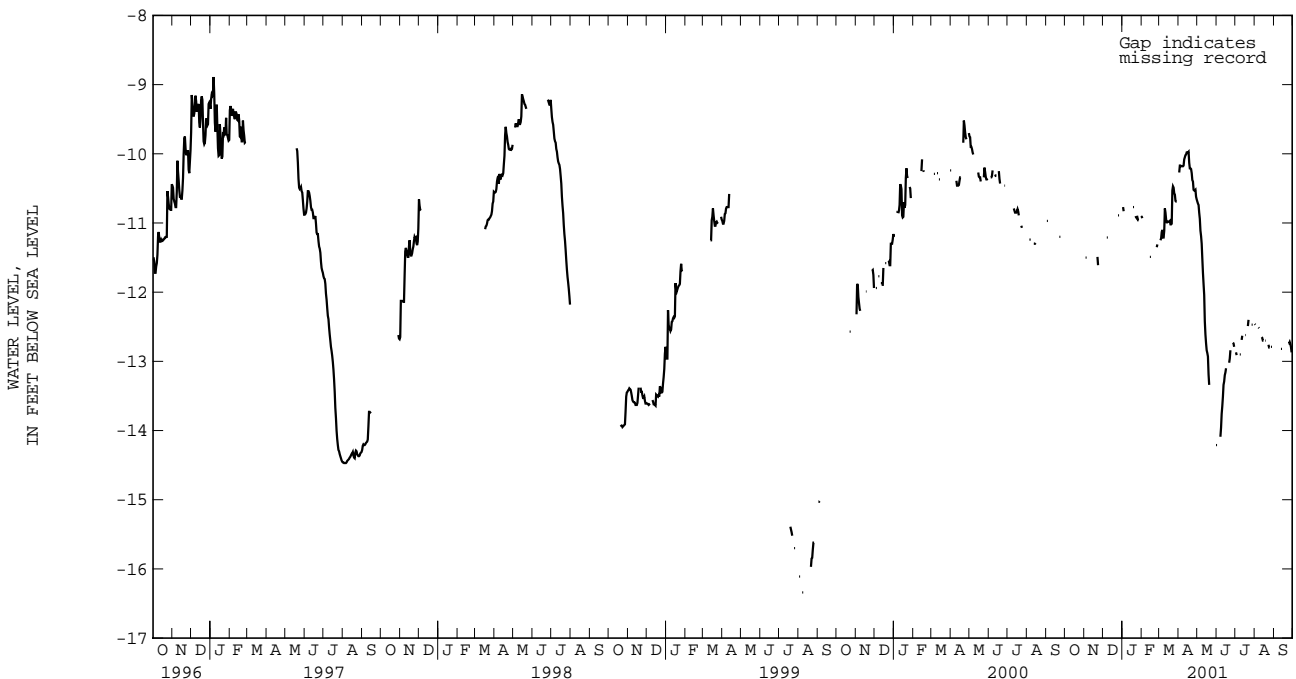
ANNE ARUNDEL COUNTY--Continued

AA Df 20--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-10.66	-10.69	---	---	---	---	-12.46	-12.46	---	---
2	-10.16	-10.27	-10.69	-10.72	---	---	-12.80	-12.87	-12.46	-12.47	---	---
3	-10.16	-10.17	-10.72	-10.74	---	---	-12.87	-12.91	---	---	---	---
4	-10.16	-10.17	-10.74	-10.85	---	---	---	---	---	---	---	---
5	-10.17	-10.18	-10.85	-10.94	---	---	---	---	---	---	---	---
6	-10.17	-10.18	-10.94	-11.11	---	---	---	---	---	---	---	---
7	-10.17	-10.18	-11.11	-11.19	-13.96	-14.09	---	---	-12.48	-12.51	---	---
8	-10.17	-10.18	-11.19	-11.30	-13.76	-13.96	-12.70	-12.90	-12.51	-12.52	---	---
9	-10.08	-10.17	-11.30	-11.51	-13.65	-13.76	---	---	---	---	---	---
10	-10.05	-10.08	-11.51	-11.72	-13.51	-13.65	---	---	---	---	---	---
11	-10.02	-10.05	-11.72	-11.88	-13.34	-13.51	-12.62	-12.69	---	---	---	---
12	-10.01	-10.02	-11.88	-12.04	-13.29	-13.34	-12.62	-12.63	-12.62	-12.65	-12.79	-12.82
13	-9.98	-10.01	-12.04	-12.42	-13.20	-13.29	---	---	-12.65	-12.66	---	---
14	-9.98	-9.98	-12.42	-12.61	-13.16	-13.20	---	---	-12.66	-12.70	---	---
15	-9.98	-9.98	-12.61	-12.74	-13.10	-13.16	---	---	-12.70	-12.70	---	---
16	-9.97	-9.98	-12.74	-12.84	-13.02	-13.10	---	---	---	---	---	---
17	-9.93	-9.97	-12.84	-12.88	---	---	-12.62	-12.62	---	---	---	---
18	-9.94	-10.13	-12.88	-12.93	---	---	-12.57	-12.62	-12.68	-12.70	---	---
19	-10.13	-10.21	-12.93	-13.19	---	---	---	---	-12.70	-12.70	---	---
20	-10.21	-10.21	-13.19	-13.34	---	---	---	---	---	---	---	---
21	-10.21	-10.22	---	---	-12.96	-13.02	-12.40	-12.49	---	---	---	---
22	-10.22	-10.28	---	---	-12.84	-12.96	-12.39	-12.40	---	---	---	---
23	-10.28	-10.38	---	---	-12.67	-12.84	---	---	-12.75	-12.76	---	---
24	-10.38	-10.40	---	---	---	---	---	---	-12.76	-12.80	-12.74	-12.74
25	-10.40	-10.52	---	---	---	---	---	---	-12.80	-12.80	-12.64	-12.74
26	-10.52	-10.53	---	---	---	---	---	---	---	---	-12.65	-12.72
27	-10.52	-10.53	---	---	-12.68	-12.73	-12.41	-12.47	-12.78	-12.79	-12.72	-12.75
28	-10.52	-10.52	---	---	-12.73	-12.74	---	---	---	---	-12.75	-12.79
29	-10.52	-10.62	---	---	-12.74	-12.79	---	---	---	---	-12.79	-12.87
30	-10.62	-10.66	---	---	---	---	---	---	---	---	---	---
31	---	---	-14.15	-14.21	---	---	---	---	---	---	---	---
MONTH	-9.93	-10.66	-10.66	-14.21	-12.67	-14.09	-12.39	-12.91	-12.46	-12.80	-12.64	-12.87
YEAR	-9.93	-14.21										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 79. SITE ID.--385905076293601. PERMIT NUMBER.--AA-03-7867.

LOCATION.--Lat 38°59'05", long 76°29'36", Hydrologic Unit 02060004, off Dorsy Creek Rd., 500 ft north of MD Rt. 450.

Owner: U.S.Navy.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 695 ft; casing diameter 6 in., to 300 ft; 320 to 572 ft and 592 to 675 ft; screen diameter 6 in. from 300 to 320 ft, 572 to 592 ft and 675 to 695 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with graphic water-level recorder from May 20, 1969 to Dec. 19, 1977. Equipped with digital water-level

recorder--60-minute recorder interval from Dec. 19, 1977 to current year.

DATUM.--Elevation of land surface is 5.17 ft above sea level.

Measuring Point: Top of shelter platform, 2.8 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by nearby pumping.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.12 ft below sea level, Jan. 4, 1982;

lowest measured, 17.16 ft below sea level, Sept. 15, 1995.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-10.60	-11.10	-10.69	-10.96	-10.18	-10.47	-9.28	-9.67	-10.99	-11.15	-10.43	-10.65
2	-10.49	-10.89	-10.68	-10.91	-10.15	-10.29	-9.39	-9.81	-10.92	-11.23	-10.27	-10.55
3	-10.45	-10.72	-10.61	-10.81	-10.03	-10.25	-9.27	-9.71	-11.03	-11.30	-10.19	-10.46
4	-10.53	-10.74	-10.61	-10.84	-9.70	-10.17	-9.23	-9.42	-11.00	-11.23	-9.92	-10.35
5	-10.57	-10.90	-10.76	-11.01	-9.58	-9.80	-9.07	-9.43	-10.86	-11.13	-9.83	-10.15
6	-10.61	-11.03	-10.83	-11.04	-9.61	-10.03	-9.18	-9.49	-10.74	-11.09	-10.01	-10.40
7	-10.73	-11.26	-10.77	-11.01	-9.52	-9.67	-9.21	-9.47	-10.95	-11.35	-10.05	-10.50
8	-10.84	-11.23	-10.81	-11.05	-9.42	-9.64	-9.21	-9.53	-11.11	-11.40	-9.68	-10.09
9	-10.90	-11.15	-10.66	-10.92	-9.48	-9.75	-9.42	-9.82	-10.85	-11.29	-9.55	-9.94
10	-10.75	-11.01	-10.60	-10.97	-9.22	-9.53	-9.65	-9.94	-10.67	-11.14	-9.86	-10.12
11	-10.77	-11.16	-10.88	-11.24	-9.43	-9.70	-9.79	-10.01	-11.12	-11.33	-9.74	-10.00
12	-11.11	-11.46	-10.71	-11.25	-9.49	-9.90	-9.95	-10.21	-11.03	-11.29	-9.81	-10.08
13	-11.02	-11.31	-10.63	-10.91	-9.76	-10.11	-9.99	-10.30	-10.87	-11.23	---	---
14	-10.89	-11.31	-10.59	-10.80	-9.42	-9.86	-10.05	-10.28	-10.65	-10.97	-9.91	-10.18
15	-10.93	-11.32	-10.65	-11.14	-9.44	-9.76	-10.16	-10.33	-10.65	-10.94	-9.97	-10.22
16	-11.07	-11.31	-10.63	-10.97	-9.13	-9.68	-10.22	-10.39	-10.73	-11.05	-9.71	-10.16
17	-10.89	-11.41	-10.64	-11.06	-8.47	-9.13	-10.30	-10.54	-10.78	-11.18	-9.67	-9.86
18	-10.97	-11.32	-10.89	-11.44	-8.88	-9.16	-10.50	-10.70	-11.17	-11.40	-9.70	-9.97
19	-11.03	-11.45	-10.88	-11.23	-8.96	-9.28	-10.25	-10.61	-10.91	-11.28	-9.76	-9.98
20	-11.21	-11.45	-10.71	-11.08	-8.89	-9.43	-10.34	-10.56	-10.98	-11.23	-9.58	-9.84
21	-11.06	-11.44	-10.85	-11.19	-8.92	-9.33	-10.38	-10.85	-11.10	-11.42	-9.05	-9.62
22	-11.25	-11.58	-10.92	-11.45	-8.92	-9.58	-10.60	-10.87	-11.06	-11.46	-8.95	-9.41
23	-11.21	-11.43	-11.05	-11.53	-9.17	-9.63	-10.55	-10.84	-10.99	-11.26	-9.14	-9.41
24	-10.99	-11.34	-10.68	-11.21	-8.94	-9.25	-10.46	-10.75	-11.06	-11.28	-9.02	-9.32
25	-11.19	-11.52	-10.53	-10.83	-9.25	-9.65	-10.57	-11.07	-10.64	-11.20	-9.17	-9.50
26	-11.13	-11.46	-9.82	-10.55	-9.45	-9.71	-10.77	-11.15	-10.70	-10.98	-9.00	-9.46
27	-11.02	-11.34	-9.93	-10.25	-9.29	-9.67	-10.65	-11.04	-10.61	-11.03	-9.34	-9.52
28	-10.93	-11.29	-10.12	-10.46	-9.40	-9.71	-11.02	-11.26	-10.58	-10.76	-9.39	-9.59
29	-10.96	-11.33	-10.05	-10.38	-8.93	-9.71	-10.94	-11.21	---	---	-9.31	-9.53
30	-10.82	-11.13	-10.09	-10.38	-8.98	-9.32	-10.62	-11.04	---	---	-8.96	-9.34
31	-10.83	-11.06	---	---	-9.11	-9.34	-10.66	-11.05	---	---	-9.07	-9.34
MONTH	-10.45	-11.58	-9.82	-11.53	-8.47	-10.47	-9.07	-11.26	-10.58	-11.46	-8.95	-10.65



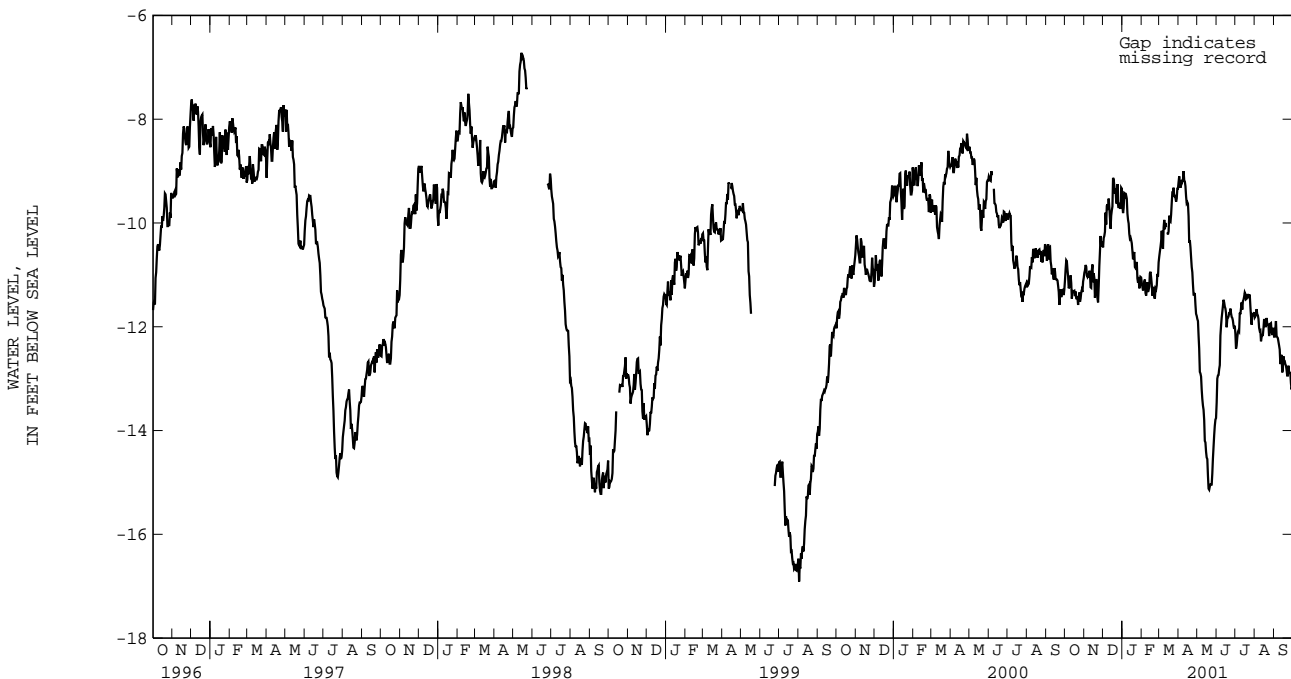
ANNE ARUNDEL COUNTY--Continued

AA Df 79--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-8.93	-9.21	-11.64	-11.85	-12.99	-13.46	-11.73	-12.14	-11.53	-11.82	-11.75	-12.19
2	-8.86	-9.10	-11.67	-11.89	-12.80	-13.00	-11.97	-12.42	-11.63	-11.80	-11.88	-12.19
3	-8.95	-9.25	-11.74	-12.17	-12.73	-12.94	-12.06	-12.36	-11.48	-11.75	-11.68	-12.04
4	-9.09	-9.32	-12.05	-12.42	-12.68	-12.93	-11.87	-12.21	-11.44	-11.66	-11.65	-11.89
5	-9.01	-9.27	-12.26	-12.87	-12.54	-12.82	-11.77	-12.10	-11.49	-11.76	-11.89	-12.18
6	-8.86	-9.17	-12.66	-12.90	-12.01	-12.74	-11.74	-12.07	-11.59	-11.78	-12.01	-12.20
7	-8.94	-9.20	-12.66	-12.96	-11.79	-12.17	-11.63	-12.09	-11.62	-11.85	-11.99	-12.22
8	-8.81	-9.16	-12.79	-13.21	-11.67	-11.98	-11.42	-11.73	-11.80	-12.02	-12.04	-12.29
9	-8.78	-9.00	-13.05	-13.39	-11.55	-11.83	-11.53	-11.76	-11.83	-12.08	-12.13	-12.36
10	-8.86	-9.18	-13.22	-13.52	-11.46	-11.72	-11.39	-11.64	-11.84	-12.07	-12.14	-12.44
11	-9.00	-9.20	-13.34	-13.60	-11.29	-11.60	-11.29	-11.53	-11.98	-12.28	-12.27	-12.72
12	-9.11	-9.29	-13.46	-13.80	-11.29	-11.48	-11.37	-11.67	-11.93	-12.20	-12.37	-12.59
13	-9.18	-9.49	-13.80	-14.20	-11.32	-11.53	-11.34	-11.51	-11.91	-12.16	-12.32	-12.54
14	-9.44	-9.62	-14.07	-14.23	-11.42	-11.61	-11.30	-11.48	-11.94	-12.16	-12.31	-12.88
15	-9.43	-9.60	-14.13	-14.41	-11.48	-11.65	-11.21	-11.42	-11.84	-12.03	-12.45	-12.82
16	-9.46	-9.63	-14.31	-14.52	-11.45	-11.74	-11.12	-11.34	-11.68	-11.85	-12.35	-12.57
17	-9.53	-9.87	-14.34	-14.55	-11.67	-12.01	-11.07	-11.37	-11.58	-11.92	-12.32	-12.65
18	-9.86	-10.38	-14.44	-14.86	-11.64	-11.85	-11.10	-11.47	-11.73	-11.99	-12.42	-12.66
19	-10.06	-10.33	-14.75	-15.12	-11.49	-11.83	-11.22	-11.46	-11.66	-11.99	-12.46	-12.72
20	-10.07	-10.47	-14.93	-15.14	-11.45	-11.80	-11.12	-11.43	-11.50	-11.83	-12.46	-12.75
21	-10.38	-10.66	-14.81	-15.08	-11.43	-11.74	-11.07	-11.37	-11.71	-11.94	-12.56	-12.83
22	-10.49	-10.85	-14.78	-15.04	-11.35	-11.74	-11.14	-11.41	-11.74	-11.96	-12.66	-12.94
23	-10.73	-10.95	-14.74	-15.04	-11.30	-11.65	-11.13	-11.43	-11.69	-11.96	-12.64	-12.94
24	-10.72	-11.18	-14.67	-15.04	-11.52	-11.74	-11.18	-11.38	-11.74	-12.18	-12.37	-12.75
25	-11.12	-11.38	-14.43	-14.83	-11.55	-11.81	-11.32	-11.61	-11.72	-12.07	-12.36	-12.87
26	-11.13	-11.38	-14.18	-14.54	-11.58	-11.83	-11.51	-11.80	-11.65	-11.94	-12.67	-12.89
27	-11.06	-11.35	-13.91	-14.31	-11.68	-11.88	-11.48	-11.96	-11.60	-11.93	-12.61	-12.89
28	-11.22	-11.58	-13.76	-14.09	-11.72	-11.98	-11.47	-11.76	-11.77	-12.10	-12.78	-13.09
29	-11.56	-11.75	-13.60	-13.91	-11.81	-12.04	-11.56	-11.77	-11.90	-12.16	-12.89	-13.21
30	-11.56	-11.79	-13.60	-13.79	-11.71	-11.98	-11.49	-11.75	-11.89	-12.07	-12.77	-13.14
31	---	---	-13.46	-13.76	---	---	-11.45	-11.72	-11.77	-12.02	---	---
MONTH	-8.78	-11.79	-11.64	-15.14	-11.29	-13.46	-11.07	-12.42	-11.44	-12.28	-11.65	-13.21
YEAR	-8.47	-15.14										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 103. SITE ID.--385623076274401. PERMIT NUMBER.--AA-73-3315.  
 LOCATION.--Lat 38°56'23", long 76°27'44", Hydrologic Unit 02060004, off West Lake Dr., 900 ft north of intersection with Farragut Rd.  
 Owner: Mildred Hudson.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 46 ft; casing diameter 4 in., to 39 ft; screen diameter 2 in. from 39 to 46 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 26.51 ft above sea level.

Measuring Point: Top of casing, 2.57 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

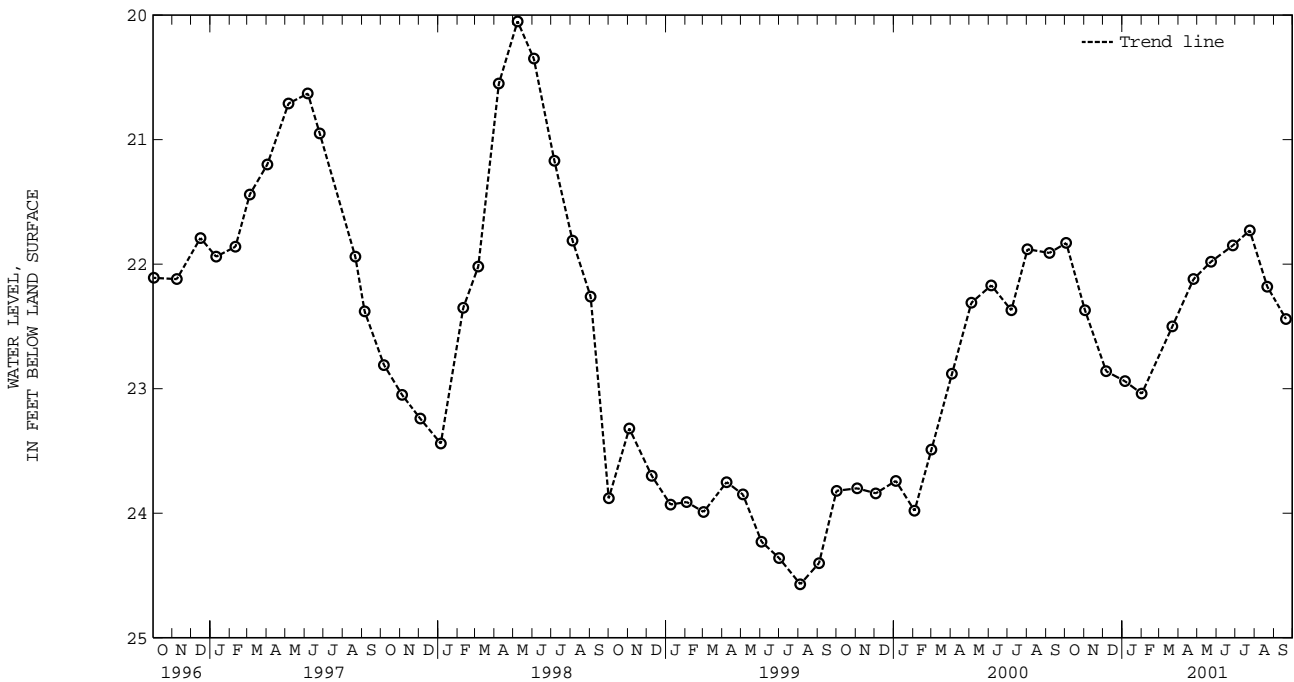
PERIOD OF RECORD.--May 1987, January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.05 ft below land surface, May 8, 1998;  
 lowest measured, 25.39 ft below land surface, April 9, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	21.83	JAN 05, 2001	22.94	APR 25, 2001	22.12	JUL 24, 2001	21.73
NOV 02	22.37	FEB 01	23.04	MAY 23	21.98	AUG 21	22.18
DEC 06	22.86	MAR 22	22.50	JUN 27	21.85	SEP 20	22.44

WATER YEAR 2001    HIGHEST    21.73    JUL 24, 2001    LOWEST    23.04    FEB 01, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ed 45. SITE ID.--385406076383901. PERMIT NUMBER.--AA-74-1005.

LOCATION.--Lat 38°54'06", long 76°38'39", Hydrologic Unit 02060006, at Anne Arundel County Police Academy, nr Davidsonville.  
Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 157 ft; casing diameter 4 in., to 147 ft;  
screen diameter 2 in. from 147 to 157 ft.INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
DATUM.--Elevation of land surface is 100 ft above sea level, from topographic map.

Measuring point: Top of coupling, 0.87 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

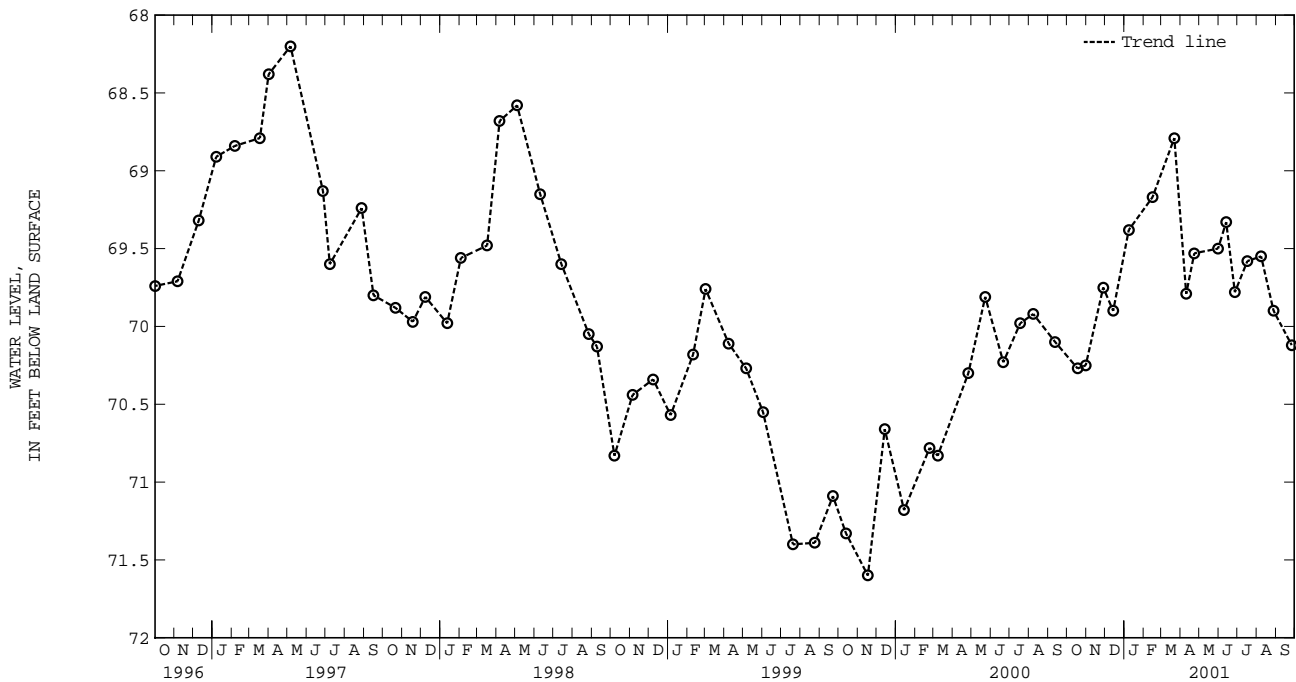
PERIOD OF RECORD.--August 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.51 ft below land surface, May 6, 1980;  
lowest measured, 71.60 ft below land surface, Nov. 17, 1999.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	70.27	JAN 08, 2001	69.38	APR 23, 2001	69.53	JUL 17, 2001	69.58
31	70.25	FEB 15	69.17	MAY 31	69.50	AUG 08	69.55
NOV 28	69.75	MAR 22	68.79	JUN 13	69.33	28	69.90
DEC 14	69.90	APR 10	69.79	27	69.78	SEP 26	70.12

WATER YEAR 2001 HIGHEST 68.79 MAR 22, 2001 LOWEST 70.27 OCT 18, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

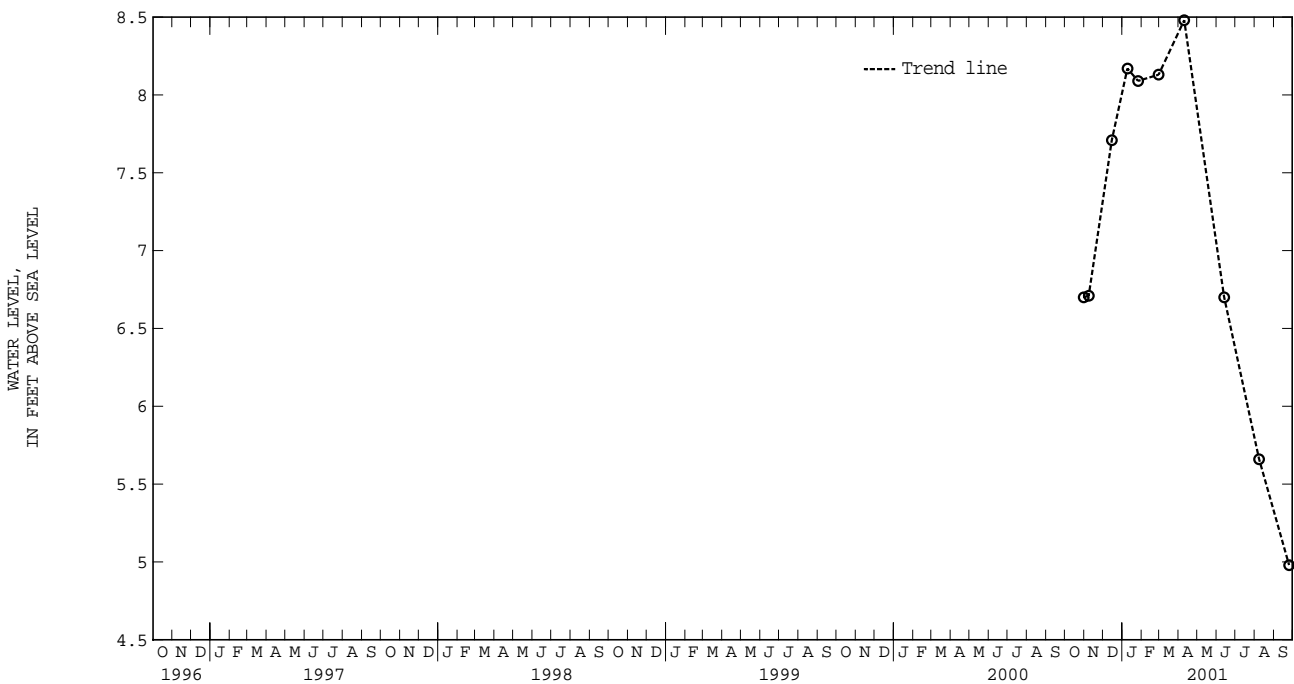
GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ed 65. SITE ID.--385406076383902. PERMIT NUMBER.--AA-94-5387.  
 LOCATION.--Lat 38°54'06", long 76°38'39", Hydrologic Unit 02060006, at Anne Arundel County Police Academy, nr Davidsonville.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 310 ft; casing diameter 4.5 in., to 285 ft, and 305 to 310 ft;  
 screen diameter 4.5 in. from 285 to 305 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with digital water-level recorder--30-minute recording interval, November 1, 2000 to November 9, 2001.  
 DATUM.--Elevation of land surface is 110 ft above sea level, from topographic map.  
 Measuring point: Top of shelter platform, 3.70 ft above land surface.  
 REMARKS.--Southern Anne Arundel County Ground-Water project. Water levels affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.86 ft above sea level, April 1, 2001;  
 lowest measured, 3.11 ft above sea level, July 12, 2001.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	6.70	JAN 09, 2001	8.17	APR 10, 2001	8.48	SEP 25, 2001	4.98
NOV 08	6.71	26	8.09	JUN 13	6.70		
DEC 15	7.71	FEB 28	8.13	AUG 08	5.66		
WATER YEAR 2001		HIGHEST	8.48	APR 10, 2001	LOWEST	4.98	SEP 25, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fc 34. SITE ID.--384833076415601. PERMIT NUMBER.--AA-94-5390.

LOCATION.--Lat 38°48'33", long 76°41'56", Hydrologic Unit 02060006, at Waysons Corner.

Owner: Maryland Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 371 ft; casing diameter 4.5 in., to 336 ft, and 366 to 371 ft; screen diameter 4.5 in. from 336 to 366 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--30-minute recording interval, October 17, 2000 to current year.

DATUM.--Elevation of land surface is 51.0 ft above sea level.

Measuring point: Top of shelter platform, 3.00 ft above land surface.

REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.23 ft above sea level, March 21, 2001; lowest measured, .18 ft below sea level, Sept. 26, 2001.

WATER LEVELS, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	1.89	1.82	1.93	1.86	2.23	2.16	2.68	2.54	2.94	2.84
2	---	---	1.86	1.79	1.93	1.83	2.18	2.14	2.70	2.58	3.00	2.90
3	---	---	1.87	1.79	1.88	1.82	2.27	2.11	2.60	2.50	2.96	2.88
4	---	---	1.89	1.79	1.92	1.86	2.34	2.27	2.59	2.49	3.02	2.90
5	---	---	1.83	1.71	2.08	1.92	2.49	2.29	2.77	2.53	3.09	2.94
6	---	---	1.75	1.66	2.03	1.92	2.46	2.32	2.80	2.66	3.05	2.90
7	---	---	1.76	1.65	2.11	2.01	2.39	2.30	2.69	2.55	2.94	2.85
8	---	---	1.76	1.65	2.10	1.98	2.43	2.30	2.65	2.55	3.07	2.85
9	---	---	1.87	1.68	2.00	1.90	2.36	2.25	2.81	2.58	3.08	2.86
10	---	---	1.94	1.74	2.04	1.90	2.31	2.21	2.83	2.60	2.90	2.80
11	---	---	1.75	1.63	2.12	1.94	2.28	2.19	2.60	2.51	2.92	2.78
12	---	---	1.73	1.62	2.24	1.92	2.21	2.15	2.61	2.49	2.91	2.75
13	---	---	1.77	1.64	1.94	1.86	2.20	2.11	2.67	2.59	3.02	2.91
14	---	---	1.83	1.68	2.11	1.93	2.27	2.15	2.86	2.64	2.99	2.88
15	---	---	1.76	1.67	2.04	1.94	2.31	2.21	2.87	2.72	2.92	2.83
16	---	---	1.81	1.64	2.19	1.94	2.32	2.20	2.85	2.73	2.96	2.85
17	2.16	1.98	1.83	1.73	2.56	2.19	2.28	2.19	2.88	2.65	2.96	2.83
18	2.18	2.07	1.76	1.65	2.32	2.16	2.30	2.21	2.70	2.65	2.86	2.71
19	2.16	2.05	1.77	1.69	2.33	2.22	2.50	2.29	2.79	2.65	2.76	2.69
20	2.09	2.00	1.87	1.76	2.29	2.10	2.53	2.41	2.79	2.71	2.79	2.70
21	2.10	2.01	1.83	1.71	2.19	2.10	2.52	2.27	2.80	2.63	3.23	2.79
22	2.04	1.87	1.80	1.71	2.25	2.07	2.36	2.27	2.81	2.63	3.19	3.00
23	1.96	1.85	1.72	1.64	2.10	2.06	2.46	2.30	2.82	2.72	3.04	2.96
24	1.99	1.88	1.77	1.67	2.22	2.08	2.55	2.41	2.74	2.64	3.04	2.93
25	1.99	1.91	1.85	1.69	2.13	2.01	2.54	2.42	2.94	2.70	2.98	2.90
26	1.98	1.90	2.12	1.85	2.15	2.02	2.58	2.40	2.91	2.77	2.99	2.87
27	2.03	1.89	2.08	1.97	2.24	2.12	2.69	2.52	2.85	2.74	2.88	2.83
28	2.04	1.96	1.97	1.86	2.26	2.21	2.52	2.44	2.87	2.79	2.88	2.80
29	1.96	1.89	2.01	1.84	2.33	2.21	2.57	2.42	---	---	3.08	2.84
30	1.94	1.90	2.01	1.91	2.39	2.30	2.81	2.56	---	---	3.20	3.08
31	1.93	1.88	---	---	2.36	2.23	2.81	2.66	---	---	3.17	3.09
MONTH	2.18	1.85	2.12	1.62	2.56	1.82	2.81	2.11	2.94	2.49	3.23	2.69

GROUND-WATER LEVELS IN MARYLAND--Continued

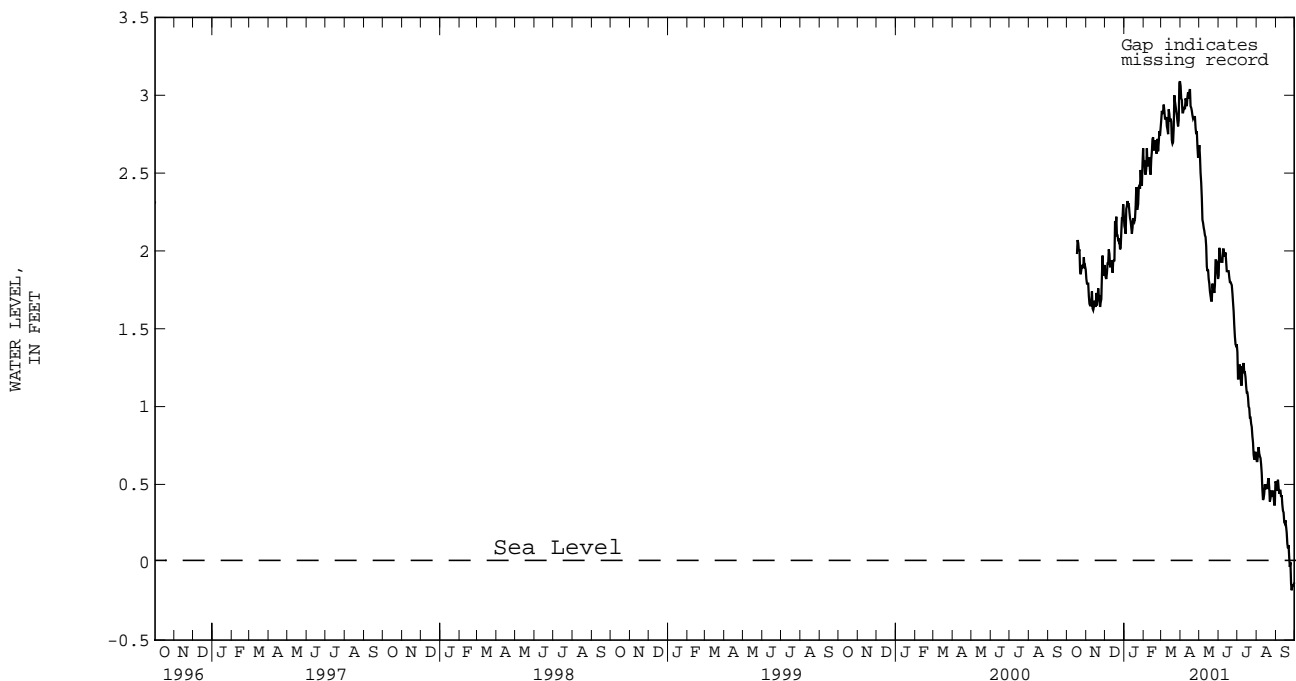
ANNE ARUNDEL COUNTY--Continued

AA Fc 34--Continued

WATER LEVELS, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.16	3.06	2.74	2.68	2.03	1.84	1.47	1.35	.75	.65	.66	.51
2	3.11	2.98	2.73	2.61	2.13	2.02	1.36	1.18	.75	.65	.57	.46
3	3.10	2.97	2.66	2.50	2.11	1.99	1.26	1.18	.82	.69	.60	.48
4	3.00	2.89	2.57	2.44	2.00	1.94	1.32	1.19	.84	.74	.63	.53
5	3.01	2.89	2.52	2.34	1.99	1.93	1.36	1.27	.80	.70	.58	.48
6	3.09	2.91	2.38	2.20	1.98	1.93	1.31	1.20	.76	.68	.53	.44
7	3.06	2.92	2.30	2.18	2.08	1.93	1.23	1.14	.73	.67	.54	.46
8	3.07	2.91	2.24	2.15	2.12	2.01	1.29	1.14	.69	.63	.54	.46
9	3.14	2.98	2.20	2.13	2.12	2.01	1.33	1.26	.63	.57	.52	.42
10	3.08	2.96	2.17	2.10	2.07	1.97	1.35	1.25	.58	.47	.49	.43
11	3.06	2.93	2.16	2.09	2.07	1.97	1.41	1.28	.54	.40	.45	.37
12	3.12	2.99	2.15	2.03	2.07	1.99	1.29	1.22	.48	.41	.39	.33
13	3.12	3.02	2.05	1.90	2.01	1.93	1.28	1.22	.55	.44	.42	.32
14	3.05	2.98	1.93	1.87	1.94	1.87	1.27	1.19	.58	.50	.41	.26
15	3.13	3.02	1.95	1.88	1.90	1.87	1.23	1.13	.55	.47	.33	.25
16	3.14	3.04	1.93	1.82	1.98	1.87	1.18	1.09	.61	.48	.42	.27
17	3.10	2.93	1.94	1.79	1.98	1.87	1.16	1.09	.62	.50	.33	.23
18	3.06	2.92	1.90	1.74	1.89	1.83	1.16	1.06	.58	.47	.29	.19
19	2.99	2.90	1.83	1.71	1.88	1.80	1.12	1.00	.64	.52	.21	.12
20	2.98	2.87	1.80	1.68	1.87	1.80	1.09	.99	.65	.54	.23	.09
21	2.94	2.85	1.89	1.68	1.87	1.79	1.09	.93	.59	.48	.23	.11
22	2.94	2.86	1.93	1.79	1.88	1.78	1.04	.93	.48	.39	.17	.03
23	2.96	2.86	1.88	1.76	1.91	1.73	.98	.89	.60	.41	.08	-.03
24	2.99	2.86	1.86	1.76	1.77	1.67	.97	.87	.60	.46	.15	.00
25	2.87	2.79	1.88	1.73	1.70	1.61	.93	.81	.51	.44	.19	-.14
26	2.83	2.75	2.03	1.78	1.63	1.52	.83	.77	.54	.42	-.12	-.18
27	2.90	2.77	2.05	1.94	1.54	1.45	.81	.69	.56	.46	-.05	-.15
28	2.88	2.67	2.02	1.94	1.49	1.40	.75	.66	.52	.43	-.09	-.15
29	2.70	2.60	2.01	1.93	1.46	1.39	.79	.68	.45	.37	-.08	-.15
30	2.71	2.63	1.99	1.86	1.48	1.40	.84	.71	.60	.37	-.03	-.13
31	---	---	1.90	1.82	---	---	.82	.68	.67	.52	---	---
MONTH	3.16	2.60	2.74	1.68	2.13	1.39	1.47	.66	.84	.37	.66	-.18
YEAR	3.23	-.18										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fc 35. SITE ID.--384833076415602. PERMIT NUMBER.--AA-94-5388.

LOCATION.--Lat 38°48'33", long 76°41'56", Hydrologic Unit 02060006, at Waysons Corner.

Owner: Maryland Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 177 ft; casing diameter 4.5 in., to 142 ft, and 172 to 177 ft; screen diameter 4.5 in. from 142 to 172 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--30-minute recording interval, October 17, 2000 to current year.

DATUM.--Elevation of land surface is 51.3 ft above sea level.

Measuring point: Top of shelter platform, 3.00 ft above land surface.

REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .63 ft below sea level, Nov. 10, 2000; lowest measured, 2.98 ft below sea level, Jan. 2, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-1.22	-1.37	-1.31	-1.42	-2.60	-2.80	-1.22	-1.41	-1.41	-1.55
2	---	---	-1.14	-1.25	-1.35	-1.44	-2.78	-2.98	-1.25	-1.41	-1.38	-1.48
3	---	---	-1.12	-1.32	-1.35	-1.42	-2.72	-2.96	-1.37	-1.53	-1.42	-1.54
4	---	---	-1.02	-1.14	-1.38	-1.47	-2.65	-2.81	-1.44	-1.58	-1.36	-1.54
5	---	---	-.95	-1.06	-1.32	-1.40	-2.43	-2.70	-1.36	-1.54	-1.22	-1.36
6	---	---	-1.06	-1.20	-1.33	-1.44	-2.24	-2.47	-1.36	-1.42	-1.23	-1.50
7	---	---	-1.05	-1.14	-1.33	-1.48	-2.31	-2.46	-1.34	-1.54	-1.48	-1.76
8	---	---	-1.01	-1.11	-1.35	-1.53	-2.20	-2.42	-1.42	-1.54	-1.56	-1.76
9	---	---	-.86	-1.03	-1.45	-1.58	-2.17	-2.32	-1.40	-1.54	-1.36	-1.56
10	---	---	-.63	-.86	-1.38	-1.57	-2.22	-2.51	-1.30	-1.56	-1.24	-1.40
11	---	---	-.79	-1.07	-1.35	-1.43	-2.25	-2.45	-1.55	-1.71	-1.32	-1.46
12	---	---	-1.04	-1.14	-1.22	-1.74	-2.29	-2.42	-1.68	-1.75	-1.40	-1.58
13	---	---	-1.08	-1.15	-1.74	-1.83	-2.25	-2.40	-1.62	-1.78	-1.25	-1.40
14	---	---	-.89	-1.09	-1.55	-1.76	-2.15	-2.33	-1.44	-1.74	-1.24	-1.47
15	---	---	-.90	-1.10	-1.64	-1.78	-2.12	-2.22	-1.38	-1.51	-1.40	-1.53
16	---	---	-1.09	-1.14	-1.51	-1.74	-2.12	-2.30	-1.36	-1.49	-1.43	-1.59
17	-1.30	-1.38	-1.03	-1.20	-1.13	-1.51	-1.86	-2.25	-1.29	-1.53	-1.42	-1.54
18	-1.09	-1.30	-1.18	-1.29	-1.24	-1.38	-1.63	-1.86	-1.52	-1.67	-1.48	-1.75
19	-1.07	-1.16	-1.28	-1.34	-1.24	-1.37	-1.40	-1.68	-1.57	-1.66	-1.70	-1.88
20	-1.14	-1.23	-1.23	-1.34	-1.32	-1.69	-1.23	-1.40	-1.50	-1.64	-1.62	-1.84
21	-1.12	-1.18	-1.22	-1.39	-1.64	-1.82	-1.19	-1.40	-1.40	-1.60	-1.20	-1.62
22	-1.14	-1.24	-1.35	-1.53	-1.64	-1.90	-1.39	-1.56	-1.50	-1.60	-1.07	-1.22
23	-1.24	-1.34	-1.53	-1.62	-1.84	-2.13	-1.37	-1.52	-1.44	-1.71	-1.14	-1.31
24	-1.19	-1.32	-1.55	-1.66	-2.13	-2.38	-1.34	-1.46	-1.57	-1.78	-1.22	-1.40
25	-1.14	-1.24	-1.38	-1.66	-2.32	-2.50	-1.30	-1.54	-1.39	-1.69	-1.34	-1.50
26	-1.13	-1.27	-1.12	-1.38	-2.43	-2.54	-1.49	-1.65	-1.39	-1.62	-1.41	-1.56
27	-1.09	-1.20	-1.04	-1.14	-2.42	-2.55	-1.38	-1.55	-1.52	-1.65	-1.50	-1.77
28	-1.03	-1.16	-1.11	-1.26	-2.45	-2.65	-1.43	-1.60	-1.46	-1.61	-1.56	-1.67
29	-1.12	-1.23	-1.17	-1.27	-2.60	-2.68	-1.51	-1.60	---	---	-1.56	-1.77
30	-1.23	-1.53	-1.14	-1.33	-2.48	-2.67	-1.23	-1.51	---	---	-1.39	-1.56
31	-1.31	-1.42	---	---	-2.50	-2.66	-1.14	-1.29	---	---	-1.32	-1.43
MONTH	-1.03	-1.53	-.63	-1.66	-1.13	-2.68	-1.14	-2.98	-1.22	-1.78	-1.07	-1.88

GROUND-WATER LEVELS IN MARYLAND--Continued

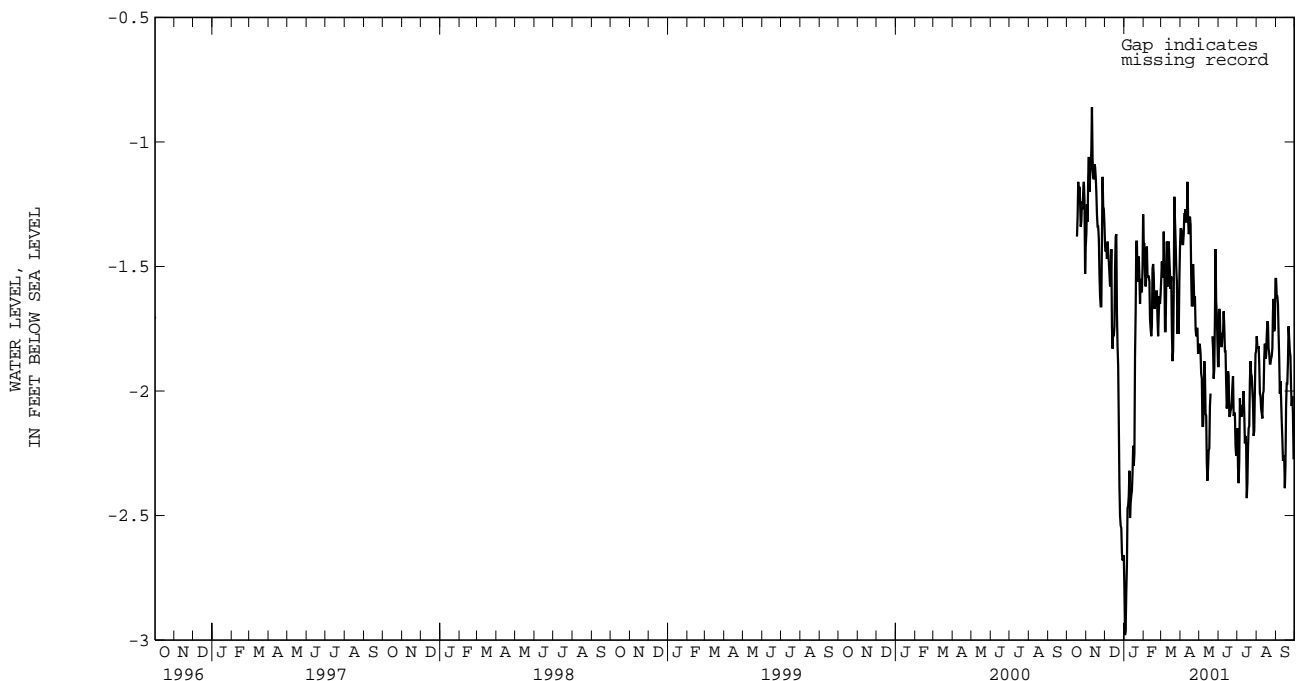
ANNE ARUNDEL COUNTY--Continued

AA Fc 35--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-1.22	-1.35	-1.68	-1.81	-1.67	-1.90	-2.04	-2.15	-1.68	-1.78	-1.40	-1.55
2	-1.19	-1.35	-1.64	-1.82	-1.55	-1.67	-2.05	-2.31	-1.65	-1.82	-1.49	-1.62
3	-1.28	-1.36	-1.64	-1.85	-1.53	-1.70	-2.25	-2.37	-1.66	-1.83	-1.52	-1.62
4	-1.22	-1.41	-1.69	-1.93	-1.65	-1.81	-2.03	-2.28	-1.67	-1.82	-1.53	-1.65
5	-1.30	-1.41	-1.78	-1.95	-1.67	-1.82	-1.93	-2.03	-1.76	-1.89	-1.56	-1.77
6	-1.19	-1.37	-1.87	-2.14	-1.70	-1.82	-1.91	-2.08	-1.82	-2.01	-1.70	-1.87
7	-1.14	-1.29	-1.98	-2.14	-1.60	-1.77	-2.02	-2.10	-1.86	-2.02	-1.79	-2.01
8	-1.18	-1.29	-1.85	-2.07	-1.60	-1.77	-1.94	-2.10	-1.96	-2.07	-1.83	-1.96
9	-1.16	-1.27	-1.74	-1.88	-1.55	-1.68	-1.85	-2.06	-1.97	-2.05	-1.86	-2.03
10	-1.15	-1.32	-1.71	-1.93	-1.59	-1.74	-1.98	-2.06	-1.99	-2.11	-1.98	-2.12
11	-1.16	-1.32	-1.87	-2.09	-1.69	-1.84	-1.84	-2.00	-1.93	-2.01	-2.05	-2.19
12	-1.07	-1.16	-1.89	-2.10	-1.73	-1.84	-1.94	-2.09	-1.87	-2.00	-2.13	-2.28
13	-1.07	-1.30	-2.00	-2.29	-1.76	-1.97	-2.06	-2.21	-1.73	-1.87	-2.15	-2.26
14	-1.18	-1.37	-2.21	-2.36	-1.82	-2.07	-2.07	-2.18	-1.69	-1.81	-2.10	-2.27
15	-1.18	-1.36	-2.15	-2.31	-1.88	-2.03	-2.13	-2.22	-1.75	-1.87	-2.25	-2.39
16	-1.13	-1.30	-2.10	-2.24	-1.67	-1.92	-2.18	-2.43	-1.75	-1.86	-2.06	-2.30
17	-1.16	-1.33	-2.06	-2.23	-1.65	-1.94	-2.23	-2.37	-1.63	-1.78	-1.92	-2.06
18	-1.19	-1.54	-1.89	-2.06	-1.93	-2.10	-2.13	-2.23	-1.61	-1.72	-1.80	-1.97
19	-1.52	-1.66	-1.83	-2.01	-2.00	-2.10	-2.05	-2.15	-1.64	-1.73	-1.79	-1.97
20	-1.49	-1.65	---	---	-1.99	-2.08	-1.96	-2.14	-1.67	-1.83	-1.73	-1.88
21	-1.39	-1.49	---	---	-1.94	-2.07	-1.76	-1.96	-1.69	-1.85	-1.59	-1.74
22	-1.38	-1.56	-1.65	-1.78	-1.93	-2.04	-1.77	-1.88	-1.76	-1.89	-1.62	-1.79
23	-1.41	-1.66	-1.64	-1.83	-1.78	-1.98	-1.80	-1.93	-1.76	-1.89	-1.71	-1.84
24	-1.51	-1.62	-1.73	-1.95	-1.78	-1.94	-1.84	-1.94	-1.69	-1.87	-1.75	-1.86
25	-1.55	-1.75	-1.71	-1.91	-1.92	-2.10	-1.85	-2.00	-1.75	-1.86	-1.64	-1.99
26	-1.62	-1.78	-1.43	-1.71	-2.00	-2.09	-1.95	-2.05	-1.68	-1.83	-1.95	-2.06
27	-1.59	-1.75	-1.33	-1.43	-2.00	-2.09	-2.00	-2.18	-1.55	-1.68	-1.86	-2.02
28	-1.53	-1.75	-1.39	-1.64	-2.08	-2.22	-2.00	-2.16	-1.52	-1.63	-1.93	-2.09
29	-1.62	-1.85	-1.58	-1.69	-2.09	-2.26	-1.77	-2.00	-1.58	-1.76	-2.04	-2.27
30	-1.75	-1.84	-1.60	-1.80	-2.14	-2.23	-1.70	-1.85	-1.55	-1.74	-2.13	-2.27
31	---	---	-1.76	-1.90	---	---	-1.75	-1.84	-1.46	-1.55	---	---
MONTH	-1.07	-1.85	-1.33	-2.36	-1.53	-2.26	-1.70	-2.43	-1.46	-2.11	-1.40	-2.39
YEAR	-.63	-2.98										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fd 43. SITE ID.--384646076352401. PERMIT NUMBER.--AA-74-1004.

LOCATION.--Lat 38°46'46", long. 76°35'24", Hydrologic Unit 02060004 at Tracys Landing Regional Park, 0.2 mi east of Tracys Landing.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 280 ft, casing diameter 4 in., to 231 ft; casing diameter 2 in. from 231 to 270 ft; screen diameter 2 in. from 270 to 280 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 150 ft above sea level, from topographic map.

Measuring point: Top of coupling, 0.94 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

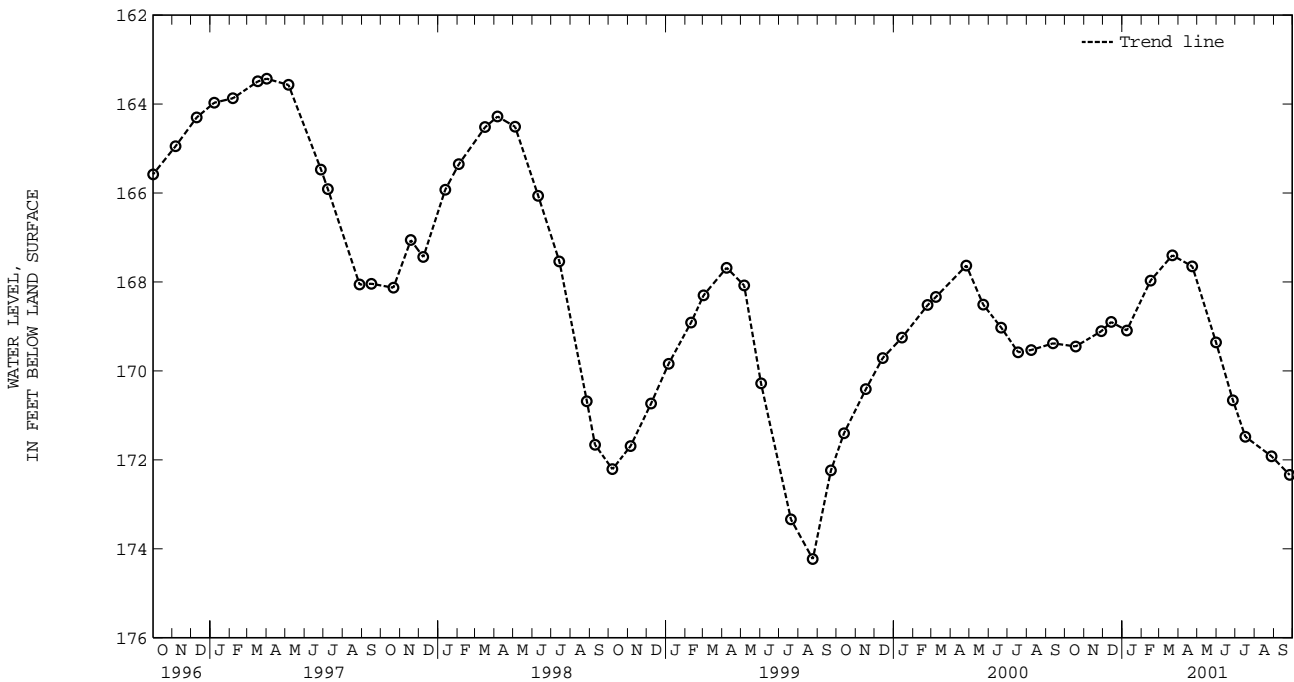
PERIOD OF RECORD.--August 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.90 ft below land surface, May 6, 1980; lowest measured, 174.23 ft below land surface, August 24, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	169.45	JAN 08, 2001	169.09	APR 23, 2001	167.65	JUL 17, 2001	171.48
NOV 28	169.11	FEB 15	167.97	MAY 31	169.36	AUG 28	171.92
DEC 14	168.90	MAR 22	167.40	JUN 27	170.66	SEP 26	172.34

WATER YEAR 2001 HIGHEST 167.40 MAR 22, 2001 LOWEST 172.34 SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fe 51. SITE ID.--384917076305801. PERMIT NUMBER.--AA-88-1276.  
 LOCATION.--Lat 38°49'17", long 76°30'58", Hydrologic Unit 02060004, at Shady Side.  
 Owner: Anne Arundel County.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 429 ft; casing diameter 4 in., to 368 ft, 383 to 394 ft, and 404 to 414 ft; screen diameter 4 in. from 368 to 383 ft, 394 to 404 ft, and 414 to 429 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with digital water-level recorder--30-minute recording interval, March 31, 2000 to current year.  
 DATUM.--Elevation of land surface is 8.5 ft, above sea level.  
 Measuring point: Top of shelter platform, 2.00 ft above land surface.  
 REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--May 1999, March 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.58 ft below sea level, May 26, 1999; lowest measured, 10.47 ft below sea level, Nov. 23, 24, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-9.27	-9.33	-9.84	-9.91	---	---	-9.87	-10.02	-9.37	-9.48	-9.41	-9.48
2	-9.24	-9.28	-9.78	-9.84	---	---	-10.02	-10.11	-9.42	-9.49	---	---
3	-9.23	-9.25	-9.69	-9.78	---	---	-10.02	-10.13	-9.49	-9.58	---	---
4	-9.25	-9.26	-9.65	-9.70	---	---	-9.88	-10.02	-9.57	-9.60	---	---
5	-9.25	-9.28	-9.65	-9.73	-9.88	-9.98	-9.69	-9.88	-9.43	-9.57	-9.11	-9.17
6	-9.28	-9.40	-9.73	-9.79	-9.90	-9.97	-9.68	-9.73	-9.43	-9.49	-9.16	-9.34
7	-9.40	-9.65	-9.75	-9.78	-9.90	-9.95	-9.65	-9.73	-9.46	-9.59	-9.34	-9.50
8	-9.65	-9.78	-9.71	-9.75	-9.90	-9.97	-9.57	-9.66	-9.59	-9.64	-9.30	-9.50
9	-9.78	-9.87	-9.55	-9.71	-9.97	-10.03	-9.60	-9.68	-9.52	-9.64	-9.17	-9.30
10	-9.86	-9.89	-9.48	-9.56	-9.91	-10.03	-9.68	-9.75	-9.46	-9.63	-9.20	-9.31
11	-9.89	-9.97	-9.56	-9.79	-9.83	-9.93	-9.71	-9.75	-9.63	-9.82	-9.29	-9.36
12	-9.97	-10.10	-9.78	-9.84	-9.72	-9.94	-9.72	-9.75	-9.82	-9.85	-9.34	-9.42
13	-10.08	-10.12	-9.77	-9.82	-9.94	-10.04	-9.72	-9.76	-9.79	-9.82	-9.24	-9.34
14	-10.05	-10.09	-9.75	-9.82	-9.93	-10.04	-9.61	-9.72	-9.55	-9.79	-9.28	-9.35
15	-10.05	-10.07	-9.82	-10.01	-9.97	-10.01	-9.57	-9.62	-9.52	-9.56	-9.33	-9.37
16	-10.05	-10.07	-10.01	-10.05	-9.79	-10.00	-9.57	-9.60	-9.44	-9.56	-9.35	-9.37
17	-9.91	-10.08	-10.03	-10.17	-9.46	-9.79	-9.59	-9.61	-9.40	-9.56	-9.34	-9.35
18	-9.73	-9.91	-10.17	-10.31	-9.56	-9.71	-9.61	-9.64	-9.56	-9.68	-9.35	-9.51
19	-9.73	-9.86	---	---	-9.71	-9.74	-9.45	-9.61	-9.62	-9.69	-9.51	-9.58
20	-9.84	-9.89	---	---	-9.74	-9.97	-9.40	-9.46	-9.54	-9.62	-9.47	-9.58
21	-9.79	-9.84	-10.24	-10.30	-9.94	-9.99	-9.40	-9.62	-9.54	-9.67	-9.15	-9.47
22	-9.79	-9.90	-10.30	-10.38	-9.89	-10.01	-9.62	-9.68	-9.59	-9.70	-9.11	-9.18
23	-9.85	-9.91	-10.38	-10.47	-10.01	-10.11	-9.60	-9.68	-9.57	-9.61	-9.18	-9.28
24	-9.79	-9.85	-10.40	-10.47	-10.00	-10.11	-9.54	-9.60	-9.60	-9.64	-9.24	-9.31
25	-9.78	-9.84	-10.14	-10.41	-10.03	-10.19	-9.50	-9.60	-9.42	-9.61	-9.31	-9.37
26	-9.82	-9.87	-9.83	-10.14	-10.19	-10.22	-9.58	-9.65	-9.42	-9.52	-9.35	-9.43
27	-9.78	-9.86	-9.78	-9.83	-10.09	-10.19	-9.48	-9.58	-9.50	-9.56	-9.43	-9.52
28	-9.75	-9.86	-9.83	-9.92	-10.06	-10.10	-9.54	-9.63	-9.48	-9.51	-9.51	-9.54
29	-9.86	-9.91	-9.91	-9.96	-10.01	-10.11	-9.58	-9.64	---	---	-9.26	-9.51
30	-9.89	-9.92	-9.91	-10.02	-9.83	-10.01	-9.32	-9.58	---	---	-9.18	-9.26
31	-9.89	-9.92	---	---	-9.82	-9.87	-9.30	-9.37	---	---	---	---
MONTH	-9.23	-10.12	-9.48	-10.47	-9.46	-10.22	-9.30	-10.13	-9.37	-9.85	-9.11	-9.58

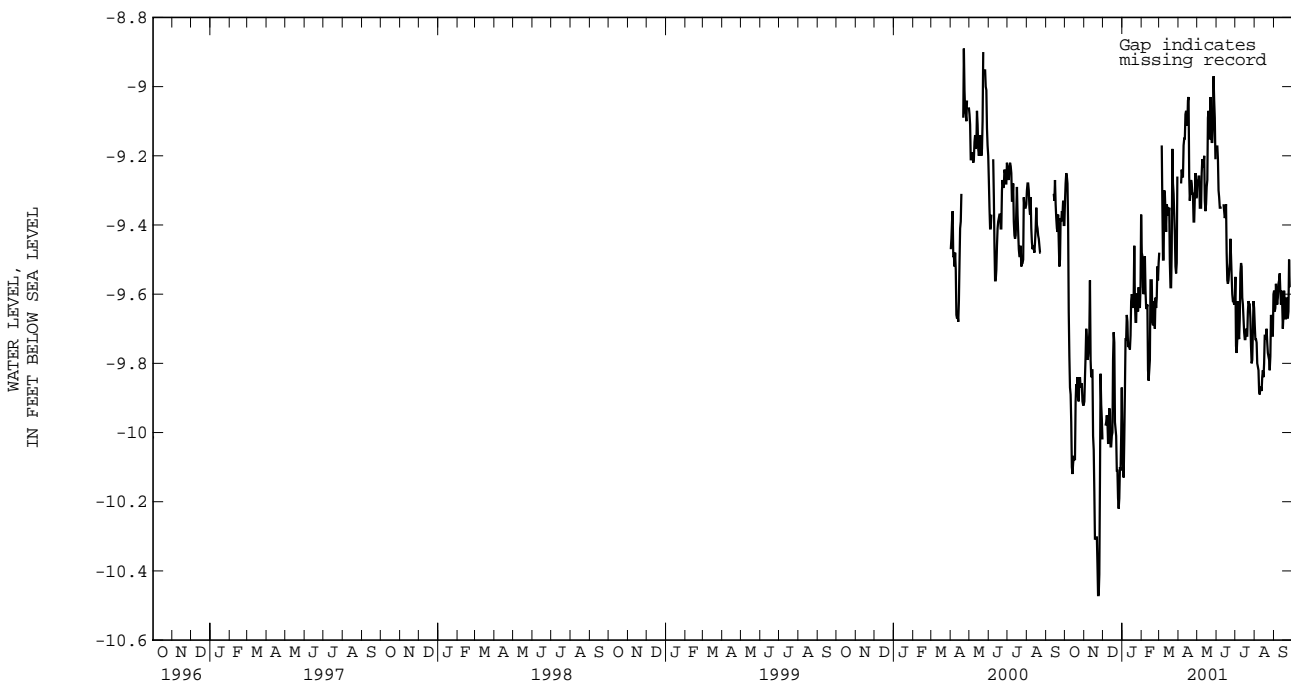
ANNE ARUNDEL COUNTY--Continued

AA Fe 51--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-9.25	-9.27	---	---	-9.53	-9.55	-9.62	-9.69	-9.51	-9.59
2	---	---	-9.25	-9.28	-9.11	-9.17	-9.55	-9.75	-9.69	-9.73	-9.59	-9.65
3	---	---	-9.24	-9.26	-9.10	-9.21	-9.73	-9.77	-9.69	-9.73	-9.56	-9.64
4	---	---	-9.22	-9.26	-9.21	-9.30	-9.62	-9.73	-9.68	-9.74	-9.48	-9.57
5	-9.24	-9.28	-9.20	-9.35	-9.27	-9.32	-9.58	-9.62	-9.74	-9.80	-9.51	-9.61
6	-9.13	-9.24	-9.29	-9.35	-9.31	-9.35	-9.60	-9.71	-9.79	-9.81	-9.59	-9.63
7	-9.14	-9.26	-9.25	-9.35	-9.29	-9.35	-9.67	-9.73	-9.79	-9.82	-9.56	-9.61
8	-9.15	-9.26	-9.17	-9.25	-9.31	-9.35	-9.53	-9.67	-9.82	-9.88	-9.54	-9.57
9	-9.06	-9.17	-9.17	-9.21	-9.32	-9.35	-9.42	-9.54	-9.86	-9.89	-9.54	-9.56
10	-9.07	-9.15	-9.19	-9.23	---	---	-9.48	-9.51	-9.82	-9.87	-9.50	-9.54
11	-9.07	-9.15	-9.19	-9.23	---	---	-9.45	-9.52	-9.82	-9.87	-9.51	-9.59
12	-9.04	-9.08	-9.17	-9.20	-9.32	-9.34	-9.52	-9.61	-9.84	-9.88	-9.59	-9.63
13	-9.04	-9.07	-9.20	-9.33	-9.34	-9.36	-9.61	-9.63	-9.77	-9.84	-9.51	-9.59
14	-9.07	-9.11	-9.33	-9.36	-9.36	-9.38	-9.63	-9.67	-9.77	-9.82	-9.50	-9.63
15	-9.02	-9.11	-9.29	-9.34	-9.34	-9.37	-9.67	-9.71	-9.80	-9.84	-9.62	-9.70
16	-9.02	-9.04	-9.27	-9.29	-9.23	-9.34	-9.71	-9.73	-9.72	-9.80	-9.56	-9.66
17	-9.00	-9.03	-9.09	-9.27	-9.23	-9.48	-9.70	-9.73	-9.64	-9.72	-9.55	-9.59
18	-9.02	-9.26	-9.03	-9.09	-9.48	-9.56	-9.66	-9.70	-9.65	-9.72	-9.56	-9.63
19	-9.26	-9.33	-9.01	-9.07	-9.54	-9.57	-9.67	-9.72	-9.68	-9.73	-9.63	-9.67
20	-9.22	-9.30	-9.07	-9.15	-9.51	-9.56	-9.65	-9.72	-9.65	-9.70	-9.60	-9.67
21	-9.23	-9.27	-9.03	-9.15	-9.50	-9.53	-9.59	-9.65	-9.69	-9.74	-9.58	-9.61
22	-9.24	-9.28	-8.97	-9.03	-9.44	-9.51	-9.58	-9.62	-9.74	-9.77	-9.60	-9.65
23	-9.27	-9.31	-8.99	-9.12	-9.35	-9.44	-9.60	-9.63	-9.67	-9.78	-9.64	-9.67
24	-9.25	-9.31	-9.11	-9.16	-9.39	-9.49	-9.60	-9.63	-9.67	-9.79	-9.47	-9.65
25	-9.31	-9.39	-9.11	-9.16	-9.49	-9.55	-9.62	-9.67	-9.78	-9.82	-9.43	-9.50
26	-9.32	-9.39	-8.92	-9.11	-9.55	-9.60	-9.66	-9.75	-9.66	-9.78	-9.50	-9.58
27	-9.18	-9.32	-8.93	-8.97	-9.59	-9.62	-9.68	-9.80	-9.60	-9.66	---	---
28	-9.18	-9.25	-8.97	-9.04	-9.61	-9.62	-9.71	-9.79	-9.60	-9.67	---	---
29	-9.25	-9.32	-9.04	-9.09	-9.62	-9.63	-9.57	-9.71	-9.66	-9.72	---	---
30	-9.27	-9.32	-9.09	-9.21	-9.55	-9.62	-9.57	-9.62	-9.60	-9.72	---	---
31	---	---	---	---	---	---	-9.61	-9.64	-9.52	-9.60	---	---
MONTH	-9.00	-9.39	-8.92	-9.36	-9.10	-9.63	-9.42	-9.80	-9.52	-9.89	-9.43	-9.70
YEAR	-8.92	-10.47										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fe 56. SITE ID.--384731076325501. PERMIT NUMBER.--AA-94-4137.

LOCATION.--Lat 38°47'31", long 76°47'31", Hydrologic Unit 02060004, at Deale.

Owner: Safeway, Inc.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 450 ft; casing diameter 4 in., to 407 ft, and 427 to 450 ft; screen diameter 4 in. from 407 to 427 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--30-minute recording interval, April 11, 2000 to current year.

DATUM.--Elevation of land surface is 9 ft above sea level, from topographic map.

Measuring point: Top of casing 1.00 ft above land surface.

REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water level are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--April 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.40 ft below sea level, April 27, 2000; lowest measured, 12.32 ft below sea level, Sept. 29, 30, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-10.83	-10.90	-11.71	-11.71	-11.53	-11.62	-11.34	-11.46	-10.94	-11.04	-10.89	-10.95
2	-10.82	-10.86	-11.68	-11.71	-11.53	-11.57	-11.46	-11.52	-10.94	-11.04	-10.81	-10.90
3	-10.78	-10.82	-11.69	-11.78	-11.53	-11.59	-11.34	-11.52	-11.00	-11.13	-10.82	-10.87
4	-10.81	-10.86	---	---	-11.45	-11.57	-11.28	-11.34	-11.06	-11.13	-10.67	-10.86
5	-10.81	-10.87	---	---	-11.36	-11.45	-11.13	-11.30	-10.94	-11.08	-10.66	-10.78
6	-10.77	-10.85	---	---	-11.42	-11.53	-11.13	-11.22	-10.88	-11.00	-10.76	-10.92
7	-10.85	-11.04	---	---	-11.36	-11.44	-11.12	-11.21	-10.97	-11.15	-10.89	-10.99
8	-10.99	-11.05	---	---	-11.37	-11.46	-11.08	-11.16	-11.11	-11.20	-10.71	-10.89
9	-11.02	-11.09	---	---	-11.45	-11.55	-11.11	-11.24	-10.97	-11.15	-10.66	-10.82
10	-11.04	-11.08	---	---	-11.34	-11.51	-11.20	-11.27	-10.92	-11.16	-10.79	-10.90
11	-11.04	-11.13	---	---	-11.31	-11.42	-11.16	-11.25	-11.16	-11.27	-10.80	-10.93
12	-11.13	-11.20	---	---	-11.21	-11.49	-11.19	-11.24	-11.24	-11.29	-10.89	-10.98
13	-11.10	-11.20	---	---	-11.49	-11.61	-11.16	-11.26	-11.15	-11.24	-10.74	-10.89
14	-11.07	-11.14	---	---	-11.37	-11.54	-11.13	-11.19	-10.96	-11.15	-10.78	-10.86
15	-11.07	-11.13	---	---	-11.40	-11.52	-11.10	-11.16	-10.96	-11.03	-10.84	-10.88
16	-11.08	-11.12	---	---	-11.22	-11.48	-11.09	-11.14	-10.94	-11.04	-10.80	-10.89
17	-11.09	-11.17	---	---	-10.91	-11.22	-11.13	-11.17	-10.94	-11.09	-10.80	-10.84
18	-11.09	-11.14	---	---	-11.03	-11.32	-11.15	-11.20	-11.09	-11.21	-10.84	-11.04
19	-11.10	-11.24	---	---	-11.24	-11.29	-10.95	-11.15	-11.05	-11.18	-11.02	-11.09
20	-11.23	-11.24	-11.72	-11.83	-11.25	-11.43	-10.94	-11.00	-11.02	-11.08	-10.94	-11.04
21	-11.23	-11.35	-11.75	-11.84	-11.33	-11.43	-10.94	-11.21	-11.05	-11.18	-10.62	-10.94
22	-11.35	-11.64	-11.83	-11.90	-11.32	-11.48	-11.15	-11.22	-11.05	-11.18	-10.58	-10.78
23	-11.60	-11.72	-11.86	-11.92	-11.48	-11.54	-11.08	-11.18	-11.05	-11.06	-10.76	-10.82
24	-11.62	-11.72	-11.76	-11.90	-11.33	-11.52	-10.98	-11.12	-11.05	-11.13	-10.75	-10.86
25	-11.57	-11.66	-11.58	-11.80	-11.43	-11.60	-10.99	-11.16	-10.84	-11.10	-10.86	-10.96
26	-11.61	-11.69	-11.24	-11.58	-11.52	-11.62	-11.04	-11.21	-10.88	-11.08	-10.82	-10.99
27	-11.66	-11.73	-11.32	-11.40	-11.45	-11.53	-10.91	-11.11	-10.94	-11.08	-10.95	-11.01
28	-11.69	-11.78	-11.40	-11.46	-11.45	-11.47	-11.11	-11.17	-10.95	-10.98	-10.95	-11.02
29	-11.68	-11.82	-11.42	-11.54	-11.29	-11.48	-11.04	-11.15	---	---	-10.76	-10.97
30	-11.70	-11.72	-11.42	-11.56	-11.21	-11.29	-10.79	-11.05	---	---	-10.65	-10.76
31	-11.71	-11.71	---	---	-11.21	-11.34	-10.80	-10.94	---	---	-10.70	-10.74
MONTH	-10.77	-11.82	-11.24	-11.92	-10.91	-11.62	-10.79	-11.52	-10.84	-11.29	-10.58	-11.09

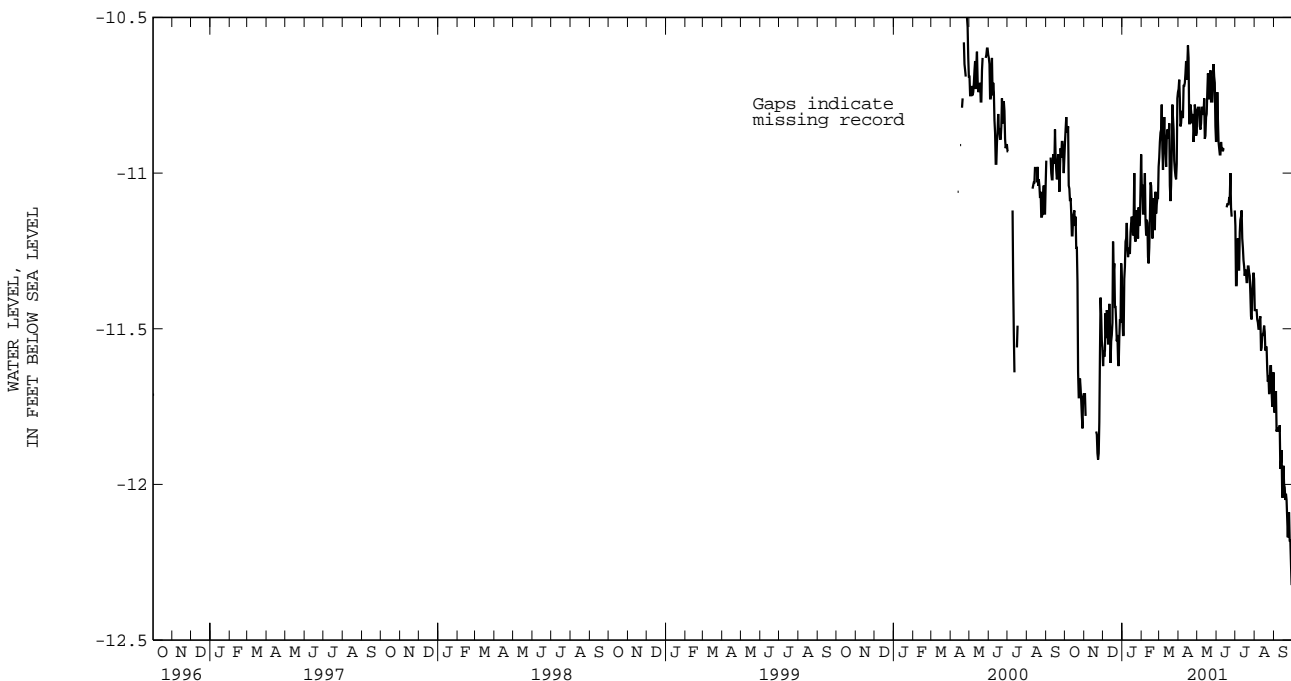
ANNE ARUNDEL COUNTY--Continued

AA Fe 56--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-10.64	-10.73	-10.76	-10.80	-10.70	-10.88	-11.06	-11.17	-11.28	-11.44	-11.58	-11.76
2	-10.68	-10.70	-10.73	-10.79	-10.62	-10.74	-11.16	-11.36	-11.37	-11.44	-11.72	-11.77
3	-10.69	-10.76	-10.73	-10.79	-10.68	-10.83	-11.20	-11.36	-11.36	-11.44	-11.68	-11.75
4	-10.73	-10.85	-10.74	-10.79	-10.80	-10.90	-11.15	-11.25	-11.34	-11.44	-11.62	-11.70
5	-10.76	-10.84	-10.69	-10.85	-10.81	-10.92	-11.14	-11.21	-11.41	-11.47	-11.67	-11.83
6	-10.67	-10.80	-10.80	-10.86	-10.88	-10.94	-11.16	-11.31	-11.40	-11.48	-11.76	-11.82
7	-10.70	-10.82	-10.75	-10.84	-10.80	-10.94	-11.18	-11.31	-11.47	-11.50	-11.76	-11.82
8	-10.66	-10.82	-10.70	-10.79	-10.82	-10.90	-11.07	-11.19	-11.46	-11.50	-11.76	-11.82
9	-10.60	-10.72	-10.73	-10.79	-10.84	-10.92	-11.07	-11.15	-11.45	-11.47	-11.79	-11.83
10	-10.62	-10.72	-10.73	-10.81	-10.87	-10.92	-11.04	-11.14	-11.45	-11.46	-11.80	-11.81
11	-10.65	-10.71	-10.71	-10.81	-10.88	-10.93	-11.01	-11.12	-11.45	-11.57	-11.80	-11.95
12	-10.60	-10.68	-10.68	-10.76	-10.88	-10.92	-11.12	-11.21	-11.48	-11.56	-11.89	-11.93
13	-10.60	-10.64	-10.76	-10.89	---	---	-11.16	-11.24	-11.47	-11.52	-11.88	-11.89
14	-10.64	-10.70	-10.80	-10.88	---	---	-11.21	-11.28	-11.47	-11.52	-11.77	-12.04
15	-10.55	-10.65	-10.80	-10.82	---	---	-11.24	-11.30	-11.46	-11.51	-11.93	-12.04
16	-10.55	-10.59	-10.74	-10.81	---	---	-11.27	-11.33	-11.41	-11.49	-11.85	-11.94
17	-10.54	-10.63	-10.65	-10.74	-10.88	-11.11	-11.26	-11.31	-11.40	-11.51	-11.88	-12.00
18	-10.63	-10.84	-10.61	-10.68	-11.04	-11.10	-11.24	-11.32	-11.50	-11.57	-11.94	-12.01
19	-10.71	-10.84	-10.68	-10.70	-11.03	-11.10	-11.26	-11.35	-11.50	-11.56	-11.97	-12.05
20	-10.70	-10.78	-10.67	-10.76	-11.03	-11.10	-11.21	-11.35	-11.50	-11.56	-11.97	-12.03
21	-10.75	-10.80	-10.64	-10.76	-11.00	-11.08	-11.19	-11.30	-11.55	-11.63	-11.96	-12.05
22	-10.76	-10.82	-10.60	-10.67	-10.95	-11.08	-11.22	-11.30	-11.61	-11.67	-12.01	-12.11
23	-10.77	-10.84	-10.61	-10.77	-10.86	-11.00	-11.24	-11.32	-11.50	-11.65	-12.08	-12.17
24	-10.71	-10.81	-10.67	-10.77	-11.00	-11.11	-11.24	-11.33	-11.51	-11.71	-11.89	-12.10
25	-10.81	-10.90	-10.69	-10.77	-11.09	-11.14	-11.30	-11.39	-11.57	-11.68	-11.89	-12.09
26	-10.77	-10.86	-10.55	-10.71	---	---	-11.36	-11.46	-11.56	-11.62	-12.09	-12.18
27	-10.65	-10.78	-10.58	-10.65	---	---	-11.34	-11.47	-11.53	-11.62	-12.12	-12.18
28	-10.68	-10.80	-10.62	-10.69	---	---	-11.30	-11.38	-11.56	-11.70	-12.16	-12.25
29	-10.80	-10.88	-10.67	-10.71	---	---	-11.22	-11.35	-11.66	-11.75	-12.22	-12.32
30	-10.77	-10.87	-10.69	-10.85	-11.06	-11.12	-11.22	-11.32	-11.62	-11.74	-12.16	-12.32
31	---	---	-10.85	-10.90	---	---	-11.23	-11.34	-11.57	-11.64	---	---
MONTH	-10.54	-10.90	-10.55	-10.90	-10.62	-11.14	-11.01	-11.47	-11.28	-11.75	-11.58	-12.32
YEAR	-10.54	-12.32										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fe 60. SITE ID.--384917076305802. PERMIT NUMBER.--AA-94-5776.  
 LOCATION.--Lat 38°49'17", long 76°30'58", Hydrologic Unit 02060004, at Shady Side.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 205 ft; casing diameter 4.5 in., to 160 ft, 175 to 185 ft, and 200 to 205 ft; screen diameter 4.5 in. from 160 to 175 ft, and 185 to 200 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with digital water-level recorder--60-minute recording interval, Sept. 27, 2000 to current year.  
 DATUM.--Elevation of land surface is 8.5 ft above sea level.  
 Measuring point: Top of shelter platform, 3.30 ft above land surface.  
 REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--September 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.57 ft below sea level, March 22, 2001; lowest measured, 16.69 ft below sea level, Sept. 12, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-14.56	-14.61	-14.99	-15.07	-14.91	-14.95	---	---	-14.20	-14.29	-13.85	-13.99
2	-14.57	-14.60	-14.92	-14.99	-14.91	-14.95	---	---	-14.13	-14.25	-13.78	-13.86
3	-14.54	-14.57	-14.82	-14.92	-14.95	-14.98	---	---	-14.22	-14.35	-13.75	-13.79
4	-14.54	-14.58	-14.78	-14.82	-14.91	-15.00	---	---	-14.29	-14.35	-13.65	-13.80
5	-14.50	-14.56	-14.80	-15.01	-14.79	-14.91	---	---	-14.16	-14.32	-13.60	-13.70
6	-14.43	-14.51	-15.01	-15.11	-14.83	-14.95	---	---	-14.15	-14.25	-13.66	-13.84
7	-14.51	-14.69	-15.03	-15.09	-14.77	-14.84	---	---	-14.20	-14.42	-13.84	-13.94
8	-14.69	-14.80	-14.98	-15.07	-14.77	-14.88	---	---	-14.36	-14.48	-13.69	-13.92
9	-14.77	-14.88	-14.71	-14.98	-14.86	-14.97	---	---	-14.19	-14.39	-13.59	-13.69
10	-14.80	-14.87	-14.59	-14.74	-14.82	-14.97	---	---	-14.12	-14.46	-13.62	-13.77
11	-14.79	-14.87	-14.72	-14.95	-14.78	-14.89	---	---	-14.46	-14.67	-13.71	-13.87
12	-14.85	-14.94	-14.93	-14.99	-14.64	-14.98	-14.86	-14.91	-14.59	-14.69	-13.82	-13.95
13	-14.85	-14.93	-14.86	-14.98	-14.98	-15.07	-14.85	-14.91	-14.47	-14.59	-13.66	-13.82
14	-14.80	-14.88	-14.75	-14.89	-14.81	-15.01	-14.80	-14.86	-14.15	-14.47	-13.70	-13.79
15	-14.80	-14.88	-14.82	-14.91	-14.85	-14.92	-14.76	-14.81	-14.11	-14.18	-13.72	-13.80
16	-14.86	-14.94	-14.76	-14.91	-14.59	-14.87	-14.76	-14.79	-13.99	-14.16	-13.70	-13.76
17	-14.80	-14.95	-14.75	-14.89	-14.22	-14.59	-14.72	-14.77	-13.99	-14.30	-13.70	-13.77
18	-14.66	-14.80	-14.89	-14.99	---	---	-14.64	-14.75	-14.30	-14.43	-13.77	-14.00
19	-14.66	-14.71	-14.96	-15.03	---	---	-14.43	-14.64	-14.32	-14.43	-14.00	-14.11
20	-14.71	-14.75	-14.95	-15.02	---	---	-14.33	-14.44	-14.19	-14.32	-14.02	-14.10
21	-14.66	-14.72	-14.98	-15.08	---	---	-14.34	-14.65	-14.16	-14.30	-13.64	-14.02
22	-14.71	-14.94	-15.08	-15.17	---	---	-14.65	-14.73	-14.10	-14.31	-13.57	-13.71
23	-14.92	-14.97	-15.17	-15.29	---	---	-14.52	-14.69	-14.06	-14.16	-13.68	-13.78
24	-14.84	-14.94	-15.21	-15.29	---	---	-14.40	-14.54	-14.11	-14.18	-13.72	-13.86
25	-14.80	-14.88	-15.00	-15.25	---	---	-14.37	-14.52	-13.92	-14.16	-13.86	-13.96
26	-14.82	-14.89	-14.67	-15.00	---	---	-14.37	-14.53	-13.95	-14.14	-13.91	-14.09
27	-14.78	-14.88	-14.69	-14.79	---	---	-14.25	-14.42	-14.07	-14.15	-14.07	-14.13
28	-14.72	-14.92	-14.78	-14.87	---	---	-14.42	-14.55	-13.98	-14.07	-14.05	-14.12
29	-14.92	-15.00	-14.81	-14.91	---	---	-14.44	-14.56	---	---	-13.78	-14.07
30	-15.00	-15.05	-14.79	-14.93	---	---	-14.13	-14.44	---	---	-13.64	-13.78
31	-15.05	-15.07	---	---	---	---	-14.10	-14.20	---	---	-13.69	-13.73
MONTH	-14.43	-15.07	-14.59	-15.29	-14.22	-15.07	-14.10	-14.91	-13.92	-14.69	-13.57	-14.13

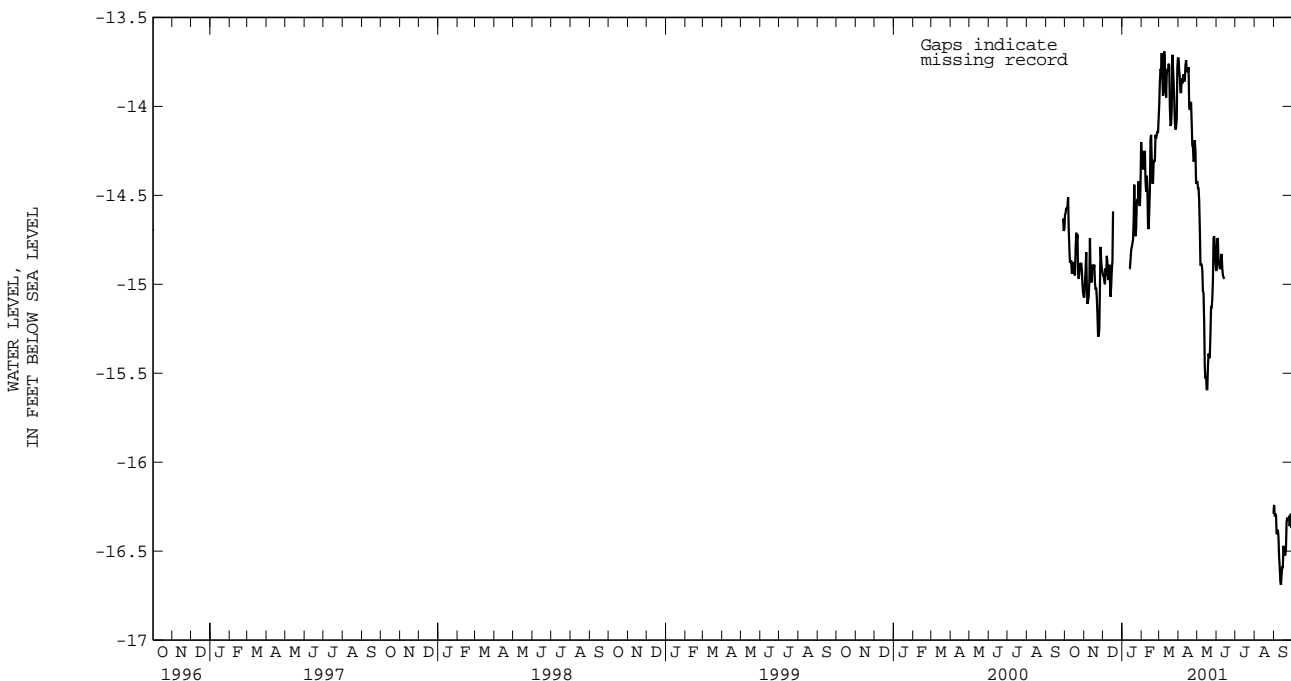
ANNE ARUNDEL COUNTY--Continued

AA Fe 60--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-13.68	-13.73	-14.38	-14.42	-14.74	-14.92	---	---	---	---	-16.10	-16.24
2	-13.73	-13.80	-14.39	-14.46	-14.64	-14.74	---	---	---	---	-16.21	-16.30
3	-13.77	-13.84	-14.39	-14.46	-14.63	-14.76	---	---	---	---	-16.23	-16.30
4	-13.80	-13.92	-14.42	-14.53	-14.76	-14.88	---	---	---	---	-16.22	-16.29
5	-13.83	-13.92	-14.48	-14.69	-14.85	-14.89	---	---	---	---	-16.27	-16.40
6	-13.69	-13.84	-14.69	-14.89	-14.87	-14.91	---	---	---	---	-16.35	-16.40
7	-13.70	-13.87	-14.83	-14.89	-14.84	-14.91	---	---	---	---	-16.33	-16.38
8	-13.75	-13.86	-14.83	-14.89	-14.82	-14.84	---	---	---	---	-16.33	-16.42
9	-13.72	-13.82	-14.85	-14.92	-14.80	-14.83	---	---	---	---	-16.42	-16.53
10	-13.75	-13.86	-14.91	-15.04	-14.83	-14.91	---	---	---	---	-16.53	-16.59
11	-13.75	-13.85	-15.00	-15.05	-14.91	-14.95	---	---	---	---	-16.59	-16.67
12	-13.66	-13.77	-15.04	-15.22	-14.94	-14.96	---	---	---	---	-16.63	-16.69
13	-13.66	-13.74	-15.22	-15.47	-14.96	-14.97	---	---	---	---	-16.51	-16.63
14	-13.74	-13.80	-15.47	-15.53	---	---	---	---	---	---	-16.46	-16.59
15	-13.75	-13.80	-15.50	-15.52	---	---	---	---	---	---	-16.46	-16.59
16	-13.74	-13.81	-15.52	-15.59	---	---	---	---	---	---	-16.38	-16.47
17	-13.72	-13.78	-15.46	-15.59	---	---	---	---	---	---	-16.40	-16.50
18	-13.75	-14.00	-15.36	-15.46	---	---	---	---	---	---	-16.45	-16.52
19	-13.93	-14.02	-15.33	-15.39	---	---	---	---	---	---	-16.45	-16.52
20	-13.88	-13.98	-15.35	-15.41	---	---	---	---	---	---	-16.34	-16.49
21	-13.88	-13.98	-15.28	-15.41	---	---	---	---	---	---	-16.26	-16.34
22	-13.95	-14.10	-15.11	-15.28	---	---	---	---	---	---	-16.25	-16.31
23	-14.09	-14.22	-15.09	-15.13	---	---	---	---	---	---	---	---
24	-14.12	-14.23	-15.07	-15.13	---	---	---	---	---	---	---	---
25	-14.23	-14.31	-14.98	-15.08	---	---	---	---	---	---	-16.17	-16.30
26	-14.19	-14.30	-14.74	-14.98	---	---	---	---	---	---	-16.30	-16.36
27	-14.06	-14.19	-14.70	-14.74	---	---	---	---	---	---	-16.25	-16.30
28	-14.08	-14.25	-14.70	-14.73	---	---	---	---	---	---	-16.26	-16.29
29	-14.25	-14.43	-14.73	-14.78	---	---	---	---	---	---	-16.25	-16.37
30	-14.39	-14.43	-14.78	-14.87	---	---	---	---	---	---	-16.29	-16.36
31	---	---	-14.87	-14.92	---	---	---	---	-16.16	-16.29	---	---
MONTH	-13.66	-14.43	-14.38	-15.59	-14.63	-14.97	---	---	-16.16	-16.29	-16.10	-16.69
YEAR	-13.57	-16.69										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fe 92. SITE ID.--384644076331201. PERMIT NUMBER.--AA-94-5386.  
 LOCATION.--Lat 38°46'44", long 76°33'12", Hydrologic Unit 02060004, at Deale.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 205 ft; casing diameter 4.5 in., to 170 ft, and 200 to 205 ft; screen diameter 4.5 in. from 170 to 200 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--30-minute recording interval, Sept. 12, 2000 to current year.  
 DATUM.--Elevation of land surface is 9 ft above sea level, from topographic map.  
 Measuring point: Top of shelter platform, 3.00 ft above land surface.  
 REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--September 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.88 ft below sea level, March 22, 2001; lowest measured, 30.00 ft below sea level, Sept. 28, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-25.79	-26.01	-26.44	-26.55	-26.21	-27.26	-25.81	-26.14	-25.17	-26.20	-24.39	-24.92
2	---	---	-26.29	-26.79	-26.06	-26.83	-26.13	-26.40	-25.12	-25.27	-24.34	-25.14
3	---	---	-26.31	-26.66	-26.04	-26.22	-25.97	-27.05	-25.13	-25.26	-24.34	-24.65
4	-25.94	-26.70	-26.29	-26.44	-26.07	-26.80	-25.82	-25.97	-25.22	-25.35	-24.25	-24.40
5	-25.90	-26.79	-26.38	-26.70	-25.77	-26.90	-25.65	-26.69	-25.05	-25.58	-24.17	-24.64
6	-25.70	-26.64	-26.54	-26.74	-25.90	-27.17	-25.65	-25.92	-24.92	-25.16	-24.31	-24.64
7	-25.86	-26.22	-26.43	-26.66	-25.81	-26.64	-25.86	-25.92	-24.93	-25.32	-24.49	-25.48
8	-26.14	-26.30	-26.42	-26.56	-25.83	-26.10	-25.77	-26.07	-25.20	-26.14	-24.13	-24.58
9	-26.21	-27.02	-26.19	-27.13	-25.90	-25.99	-25.73	-27.27	-25.05	-25.20	-24.07	-24.88
10	-26.07	-26.34	-26.09	-26.36	-25.89	-25.99	-25.85	-26.98	-24.64	-25.11	-24.21	-24.49
11	-25.98	-27.00	-26.29	-26.80	---	---	-25.78	-26.05	-25.11	-25.32	-24.36	-24.62
12	-26.30	-26.97	-26.66	-26.85	---	---	-25.72	-26.68	-25.22	-25.90	-24.57	-24.88
13	-26.14	-26.57	---	---	---	---	---	---	-25.05	-25.80	-24.28	-25.16
14	---	---	---	---	---	---	---	---	-24.64	-25.54	-24.25	-24.50
15	---	---	---	---	---	---	---	---	-24.62	-24.94	-24.31	-25.12
16	---	---	---	---	---	---	---	---	-24.57	-25.56	-24.27	-25.23
17	-26.01	-26.54	---	---	---	---	-25.56	-25.72	-24.53	-24.87	-24.27	-24.34
18	-25.91	-26.61	-26.56	-26.67	---	---	-25.62	-26.60	-24.85	-24.92	-24.31	-24.75
19	---	---	-26.47	-26.66	-25.50	-25.68	---	---	---	---	-24.66	-24.94
20	---	---	---	---	-25.51	-26.17	---	---	---	---	-24.36	-24.91
21	---	---	-26.33	-26.80	-25.58	-26.66	---	---	-24.72	-25.42	-23.92	-24.84
22	-26.12	-26.48	-26.44	-26.61	-25.58	-26.10	-25.70	-26.54	-24.70	-25.12	-23.88	-24.76
23	-26.24	-26.50	-26.58	-26.85	-25.88	-26.30	-25.46	-25.70	-24.54	-24.70	-24.14	-24.46
24	-26.24	-26.45	-26.63	-26.85	-25.85	-26.08	-25.34	-25.95	-24.52	-24.82	-24.22	-24.44
25	-26.21	-26.56	---	---	-26.08	-26.40	---	---	-24.54	-24.82	-24.43	-24.65
26	-26.32	-27.15	---	---	-26.26	-26.40	---	---	-24.40	-25.12	-24.43	-25.06
27	-26.23	-26.70	---	---	---	---	---	---	-24.63	-25.50	-24.55	-25.45
28	-26.04	-26.43	---	---	---	---	---	---	-24.46	-25.06	-24.54	-24.94
29	-26.39	-26.66	-26.28	-26.44	---	---	---	---	---	---	-24.30	-24.63
30	-26.48	-26.84	-26.19	-26.88	---	---	---	---	---	---	-23.97	-24.30
31	-26.36	-27.11	---	---	-25.44	-25.84	---	---	---	---	-24.06	-24.18
MONTH	-25.70	-27.15	-26.09	-27.13	-25.44	-27.26	-25.34	-27.27	-24.40	-26.20	-23.88	-25.48



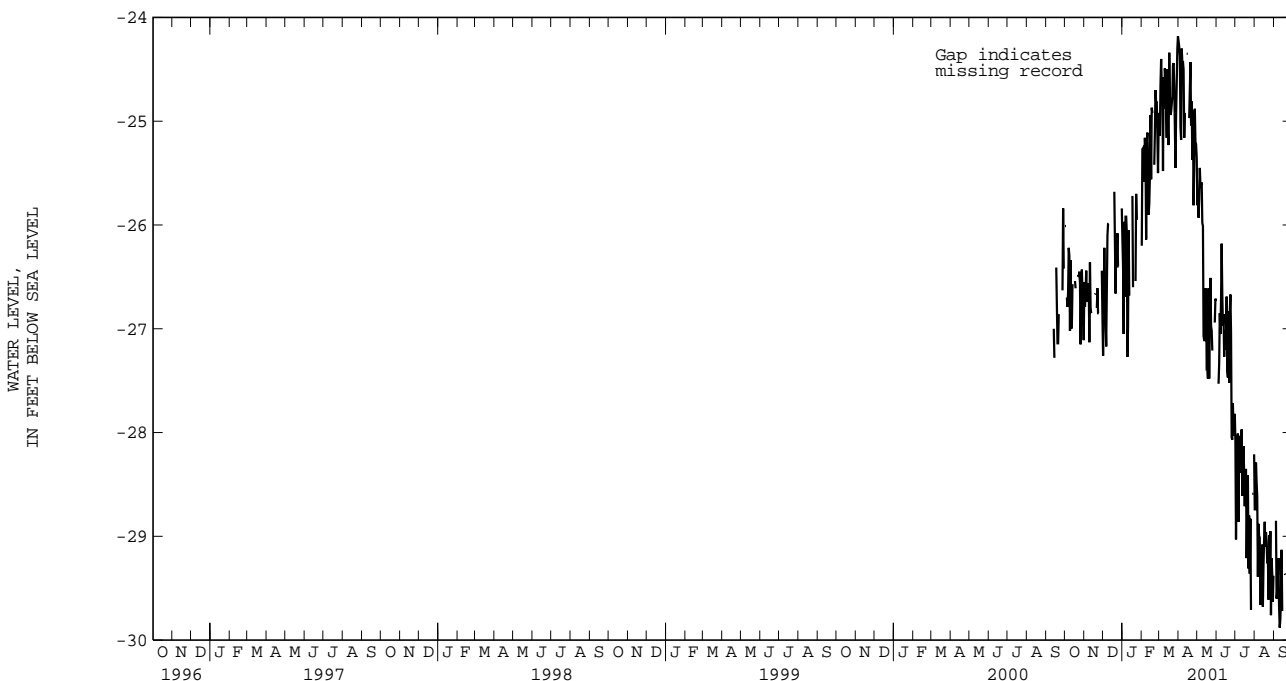
ANNE ARUNDEL COUNTY--Continued

AA Fe 92--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-24.14	-24.23	-24.87	-25.81	---	---	-27.55	-28.08	-27.93	-28.74	---	---
2	-24.10	-24.28	-24.86	-25.68	---	---	-27.82	-29.03	-28.22	-28.74	---	---
3	-24.13	-24.38	-24.87	-25.93	---	---	-27.81	-28.28	-28.01	-28.29	---	---
4	-24.17	-25.06	-24.85	-25.75	-26.18	-27.53	-27.67	-28.11	-28.07	-28.48	-28.72	-28.85
5	-24.19	-25.18	-24.89	-25.45	-26.35	-27.34	-27.77	-28.01	-28.29	-28.62	-28.70	-29.60
6	-24.05	-24.30	-25.31	-25.62	-26.22	-26.85	-27.65	-28.86	-28.41	-29.39	-28.83	-29.52
7	-24.05	-24.43	-25.28	-25.61	-26.12	-27.05	-27.73	-28.03	-28.41	-28.88	-28.76	-29.41
8	-24.19	-24.43	-25.35	-25.59	-26.10	-26.71	---	---	-28.73	-29.00	-28.60	-29.21
9	-24.22	-24.50	-25.41	-25.98	-26.03	-26.18	---	---	-28.95	-29.01	-28.91	-29.68
10	-24.29	-25.16	-25.59	-26.01	-26.04	-26.66	-27.59	-28.39	-28.89	-29.66	-28.97	-29.88
11	-24.19	-24.92	-25.75	-27.07	-26.32	-26.97	-27.46	-27.97	-28.94	-29.42	-28.92	-29.80
12	---	---	-25.89	-27.11	-26.39	-26.86	-27.65	-28.61	-29.04	-29.36	-28.74	-29.59
13	---	---	-26.00	-27.11	-26.29	-27.27	-27.55	-28.56	-28.90	-29.08	-28.69	-29.13
14	-24.14	-24.35	-26.34	-26.61	-26.37	-27.02	-27.66	-28.13	-28.72	-29.68	-28.54	-29.72
15	---	---	-26.44	-26.63	-26.37	-27.19	-27.98	-28.40	-28.68	-29.29	---	---
16	---	---	-26.40	-27.37	-26.31	-27.19	-28.24	-28.71	-28.45	-29.03	---	---
17	---	---	-26.41	-27.36	-26.45	-26.69	-28.20	-28.36	-28.39	-28.86	---	---
18	-24.25	-24.97	-26.40	-27.48	-26.55	-27.41	-28.17	-28.36	-28.57	-29.10	-28.65	-29.36
19	-24.26	-24.70	-26.41	-26.61	-26.64	-27.47	-28.13	-29.21	-28.77	-28.96	-28.65	-29.37
20	-24.17	-24.43	-26.43	-27.48	-26.51	-26.83	-27.91	-28.73	-28.70	-29.05	---	---
21	-24.24	-25.04	-26.23	-26.88	-26.67	-27.52	-27.97	-28.41	-28.74	-29.26	---	---
22	-24.59	-24.81	-26.12	-26.51	-26.50	-26.84	-28.16	-29.31	-28.75	-29.16	---	---
23	-24.64	-25.37	-25.99	-26.97	-26.48	-26.67	-28.47	-28.80	-28.74	-29.61	---	---
24	-24.50	-24.90	-26.19	-27.02	-26.47	-27.03	-28.45	-29.36	-28.65	-28.99	---	---
25	-24.60	-25.81	-26.19	-27.21	-27.03	-28.05	-28.59	-28.83	-28.73	-29.36	-28.79	-29.21
26	-24.47	-25.41	---	---	-27.07	-28.07	-28.70	-29.71	-28.66	-28.95	-28.86	-29.74
27	-24.30	-24.88	---	---	-27.25	-27.72	---	---	-28.82	-29.76	-28.78	-29.57
28	-24.33	-25.20	---	---	-27.36	-27.99	-28.29	-28.59	-28.73	-29.21	-28.97	-30.00
29	-24.85	-25.22	-26.11	-26.94	-27.47	-28.03	---	---	-28.86	-29.36	-29.16	-29.31
30	-24.98	-25.35	-26.13	-26.71	-27.46	-27.82	---	---	-28.73	-29.63	-29.12	-29.30
31	---	---	-26.25	-26.73	---	---	-27.94	-28.21	-28.52	-29.38	---	---
MONTH	-24.05	-25.81	-24.85	-27.48	-26.03	-28.07	-27.46	-29.71	-27.93	-29.76	-28.54	-30.00
YEAR	-23.88	-30.00										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fe 93. SITE ID.--384644076331202. PERMIT NUMBER.--AA-94-5391.

LOCATION.--Lat 38°46'44", long 76°33'12", Hydrologic Unit 02060004, at Deale.

Owner: Maryland Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 470 ft; casing diameter 4.5 in., to 429 ft, 449 to 454 ft, and 464 to 470 ft; screen diameter 4.5 in. from 429 to 449 ft, and 454 to 464 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recording interval, Sept. 22, 2000 to current year.

DATUM.--Elevation of land surface is 9 ft above sea level, from topographic map.

Measuring point: Top of shelter platform, 3.35 ft above land surface.

REMARKS.--Southern Anne Arundel County Ground-Water project observation well. Water level are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.55 ft below sea level, March 22, 2001;  
lowest measured, 11.46 ft below sea level, Sept. 29, 30, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-9.89	-10.00	-10.39	-10.53	-10.57	-10.77	-10.44	-10.66	-10.05	-10.17	-9.92	-10.04
2	-9.86	-9.97	-10.37	-10.48	-10.57	-10.65	-10.63	-10.68	-10.05	-10.19	-9.84	-9.97
3	-9.84	-9.93	-10.35	-10.43	-10.60	-10.70	-10.37	-10.67	-10.11	-10.29	-9.84	-9.93
4	-9.89	-9.98	-10.34	-10.44	-10.47	-10.67	-10.25	-10.37	-10.16	-10.30	-9.66	-9.93
5	-9.94	-10.00	-10.40	-10.61	-10.37	-10.50	-10.11	-10.35	-10.03	-10.19	-9.63	-9.85
6	-9.93	-9.96	-10.49	-10.63	-10.50	-10.69	-10.12	-10.29	-9.93	-10.11	-9.85	-10.09
7	-9.96	-10.23	-10.45	-10.53	-10.43	-10.55	-10.10	-10.27	-10.04	-10.33	-9.95	-10.19
8	-10.13	-10.21	-10.40	-10.51	-10.43	-10.57	-10.09	-10.26	-10.24	-10.38	-9.68	-9.95
9	-10.15	-10.26	-10.27	-10.45	-10.55	-10.69	-10.17	-10.39	-10.04	-10.29	-9.58	-9.87
10	-10.08	-10.24	-10.17	-10.47	-10.40	-10.60	-10.29	-10.41	-9.97	-10.33	-9.85	-10.00
11	-10.10	-10.28	-10.47	-10.75	-10.37	-10.56	-10.25	-10.37	-10.33	-10.49	-9.88	-10.04
12	-10.28	-10.41	-10.47	-10.77	-10.24	-10.62	-10.28	-10.37	-10.38	-10.49	-9.99	-10.15
13	-10.18	-10.38	-10.32	-10.50	-10.62	-10.83	-10.22	-10.37	-10.24	-10.41	-9.80	-9.99
14	-10.15	-10.25	-10.30	-10.42	-10.43	-10.69	-10.16	-10.27	-9.97	-10.24	-9.85	-9.95
15	-10.13	-10.20	-10.42	-10.63	-10.48	-10.67	-10.17	-10.24	-9.97	-10.10	-9.94	-10.02
16	-10.14	-10.21	-10.41	-10.59	-10.25	-10.60	-10.17	-10.24	-9.96	-10.16	-9.85	-10.04
17	-9.98	-10.18	-10.41	-10.66	-9.90	-10.25	-10.18	-10.29	-9.95	-10.25	-9.85	-9.94
18	-9.98	-10.07	-10.64	-10.79	-10.04	-10.49	-10.22	-10.36	-10.25	-10.40	-9.94	-10.23
19	-10.02	-10.27	-10.62	-10.76	-10.34	-10.45	-9.98	-10.22	-10.07	-10.28	-10.13	-10.27
20	-10.18	-10.28	-10.56	-10.69	-10.36	-10.64	-9.99	-10.11	-10.05	-10.17	-9.99	-10.14
21	-10.16	-10.28	-10.62	-10.86	-10.40	-10.61	-9.99	-10.37	-10.12	-10.29	-9.59	-9.99
22	-10.25	-10.51	-10.86	-10.97	-10.39	-10.64	-10.27	-10.39	-10.06	-10.34	-9.55	-9.89
23	-10.34	-10.46	-10.92	-11.02	-10.64	-10.78	-10.18	-10.33	-10.03	-10.15	-9.85	-9.95
24	-10.38	-10.48	-10.76	-10.99	-10.40	-10.67	-10.03	-10.23	-10.07	-10.21	-9.79	-9.96
25	-10.39	-10.53	-10.55	-10.81	-10.52	-10.82	---	---	-9.88	-10.19	-9.96	-10.11
26	-10.45	-10.56	-10.14	-10.55	-10.67	-10.83	---	---	-9.91	-10.20	-9.85	-10.15
27	-10.37	-10.53	-10.26	-10.45	-10.51	-10.67	---	---	-10.01	-10.22	-10.08	-10.16
28	-10.36	-10.61	-10.45	-10.57	-10.53	-10.62	---	---	-9.99	-10.07	-10.04	-10.15
29	-10.52	-10.69	-10.47	-10.66	-10.32	-10.62	---	---	---	---	-9.83	-10.08
30	-10.47	-10.64	-10.48	-10.71	-10.18	-10.32	---	---	---	---	-9.62	-9.83
31	-10.49	-10.59	---	---	-10.20	-10.44	---	---	---	---	-9.73	-9.83
MONTH	-9.84	-10.69	-10.14	-11.02	-9.90	-10.83	-9.98	-10.68	-9.88	-10.49	-9.55	-10.27

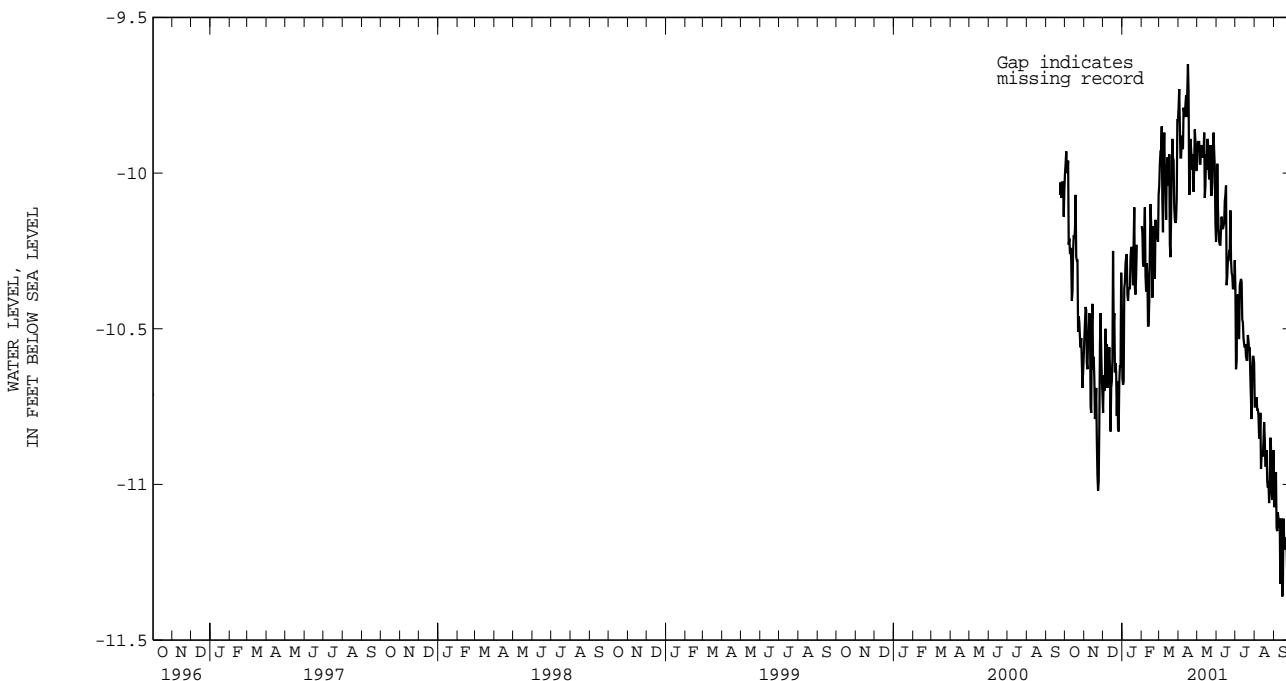
ANNE ARUNDEL COUNTY--Continued

AA Fe 93--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-9.67	-9.79	-9.83	-9.92	-9.89	-10.15	-10.18	-10.37	-10.52	-10.75	-10.80	-11.07
2	-9.63	-9.73	-9.79	-9.90	-9.81	-9.97	-10.33	-10.63	-10.65	-10.75	-10.97	-11.07
3	-9.73	-9.85	-9.77	-9.90	-9.87	-10.11	-10.36	-10.60	-10.60	-10.75	-10.85	-11.04
4	-9.78	-9.95	-9.80	-9.90	-10.05	-10.18	-10.27	-10.41	-10.57	-10.72	-10.85	-10.96
5	-9.83	-9.95	-9.77	-9.97	-10.04	-10.22	-10.29	-10.39	-10.64	-10.76	-10.96	-11.14
6	-9.70	-9.88	-9.86	-9.97	-10.07	-10.23	-10.31	-10.53	-10.66	-10.76	-11.03	-11.15
7	-9.76	-9.92	-9.77	-9.92	-10.03	-10.23	-10.31	-10.53	-10.69	-10.78	-11.01	-11.09
8	-9.71	-9.92	-9.74	-9.91	-10.05	-10.18	-10.17	-10.36	-10.77	-10.85	-11.01	-11.11
9	-9.62	-9.79	-9.81	-9.93	-10.03	-10.14	-10.25	-10.35	-10.72	-10.85	-11.03	-11.14
10	-9.66	-9.81	-9.83	-9.95	-10.09	-10.17	-10.20	-10.34	-10.67	-10.77	-11.03	-11.11
11	-9.67	-9.82	-9.78	-9.94	-10.05	-10.18	-10.15	-10.35	-10.73	-10.95	-11.05	-11.32
12	-9.65	-9.78	-9.74	-9.87	-10.06	-10.17	-10.35	-10.47	-10.77	-10.90	-11.10	-11.23
13	-9.63	-9.75	-9.87	-10.08	-9.99	-10.16	-10.39	-10.48	-10.77	-10.89	-11.03	-11.11
14	-9.71	-9.82	-9.90	-10.04	-10.01	-10.09	-10.42	-10.53	-10.76	-10.91	-10.98	-11.36
15	-9.61	-9.73	-9.87	-9.94	-10.00	-10.07	-10.45	-10.55	-10.78	-10.86	-11.07	-11.35
16	-9.59	-9.65	-9.86	-9.99	-9.93	-10.04	-10.45	-10.56	-10.68	-10.80	-10.95	-11.11
17	-9.58	-9.74	-9.75	-9.89	-10.03	-10.36	-10.44	-10.55	-10.65	-10.85	-11.00	-11.17
18	-9.74	-10.07	-9.75	-9.90	-10.20	-10.33	-10.41	-10.59	-10.79	-10.94	-11.06	-11.19
19	-9.79	-10.06	-9.83	-9.98	-10.13	-10.28	-10.48	-10.60	-10.75	-10.94	-11.09	-11.21
20	-9.74	-9.89	-9.90	-10.02	-10.13	-10.28	-10.39	-10.60	-10.73	-10.89	-11.00	-11.17
21	-9.82	-9.92	-9.79	-10.00	-10.10	-10.25	-10.33	-10.52	-10.86	-10.99	-11.03	-11.19
22	-9.84	-9.96	-9.77	-9.91	-10.03	-10.25	-10.41	-10.54	-10.91	-11.01	-11.14	-11.29
23	-9.89	-9.99	-9.84	-10.07	-9.92	-10.12	-10.45	-10.57	-10.78	-10.99	-11.20	-11.34
24	-9.79	-9.94	-9.92	-10.07	-10.12	-10.28	-10.45	-10.56	-10.80	-11.06	-10.95	-11.25
25	-9.94	-10.06	-9.89	-10.03	-10.21	-10.32	-10.53	-10.66	-10.80	-10.98	-10.93	-11.31
26	-9.82	-9.97	-9.73	-9.93	-10.24	-10.33	-10.63	-10.73	-10.76	-10.85	-11.30	-11.42
27	-9.65	-9.86	-9.79	-9.87	-10.29	-10.37	-10.54	-10.79	-10.73	-10.88	-11.16	-11.33
28	-9.71	-9.90	-9.85	-9.93	-10.29	-10.37	-10.51	-10.63	-10.81	-11.03	-11.24	-11.38
29	-9.90	-9.99	-9.90	-9.98	-10.28	-10.37	-10.45	-10.59	-10.95	-11.05	-11.31	-11.46
30	-9.85	-9.99	-9.93	-10.16	-10.18	-10.28	-10.42	-10.59	-10.83	-11.02	-11.20	-11.46
31	---	---	-10.14	-10.22	---	---	-10.45	-10.61	-10.78	-10.89	---	---
MONTH	-9.58	-10.07	-9.73	-10.22	-9.81	-10.37	-10.15	-10.79	-10.52	-11.06	-10.80	-11.46
YEAR	-9.55	-11.46										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

BALTIMORE CITY

WELL NUMBER.--2S5E- 1. SITE ID.--391617076322001.

LOCATION.--Lat 39°16'17", long 76°32'20", Hydrologic Unit 02060003, near Holabird Ave. and Pumphrey St. at Ft. Holabird Industrial Park.

Owner: City of Baltimore.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 290 ft; casing diameter 12 in. to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 30 ft above sea level, from topographic map.

Measuring point: Top of casing extension, 2.35 ft above land surface.

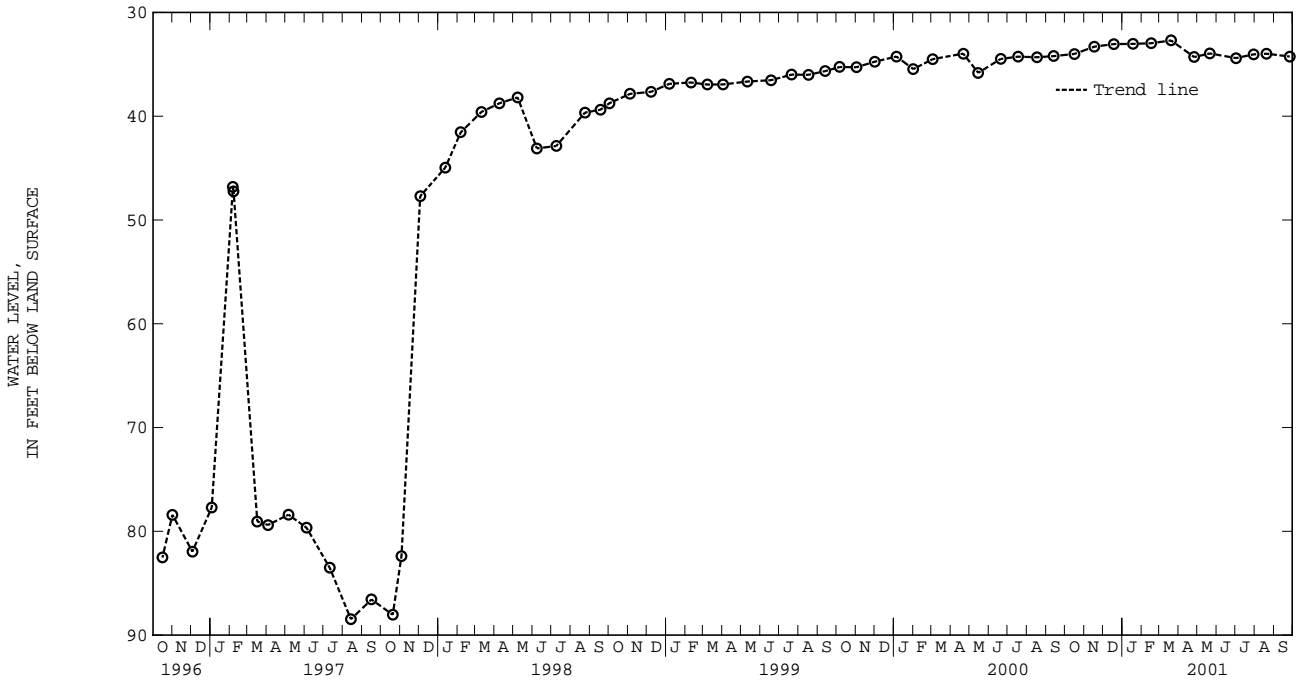
REMARKS.--Maryland Water-Level Network observation well. Water level reported 58 ft below land surface in 1934.

PERIOD OF RECORD.--April 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.70 ft below land surface, Mar. 20, 2001; lowest measured, 103.70 ft below land surface, Oct. 15, 1948.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	34.00	JAN 18, 2001	33.03	APR 26, 2001	34.30	JUL 30, 2001	34.04
NOV 17	33.30	FEB 16	32.97	MAY 21	33.95	AUG 20	33.98
DEC 18	33.05	MAR 20	32.70	JUL 02	34.40	SEP 26	34.25
WATER YEAR 2001		HIGHEST	32.70 MAR 20, 2001	LOWEST		34.40 JUL 02, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



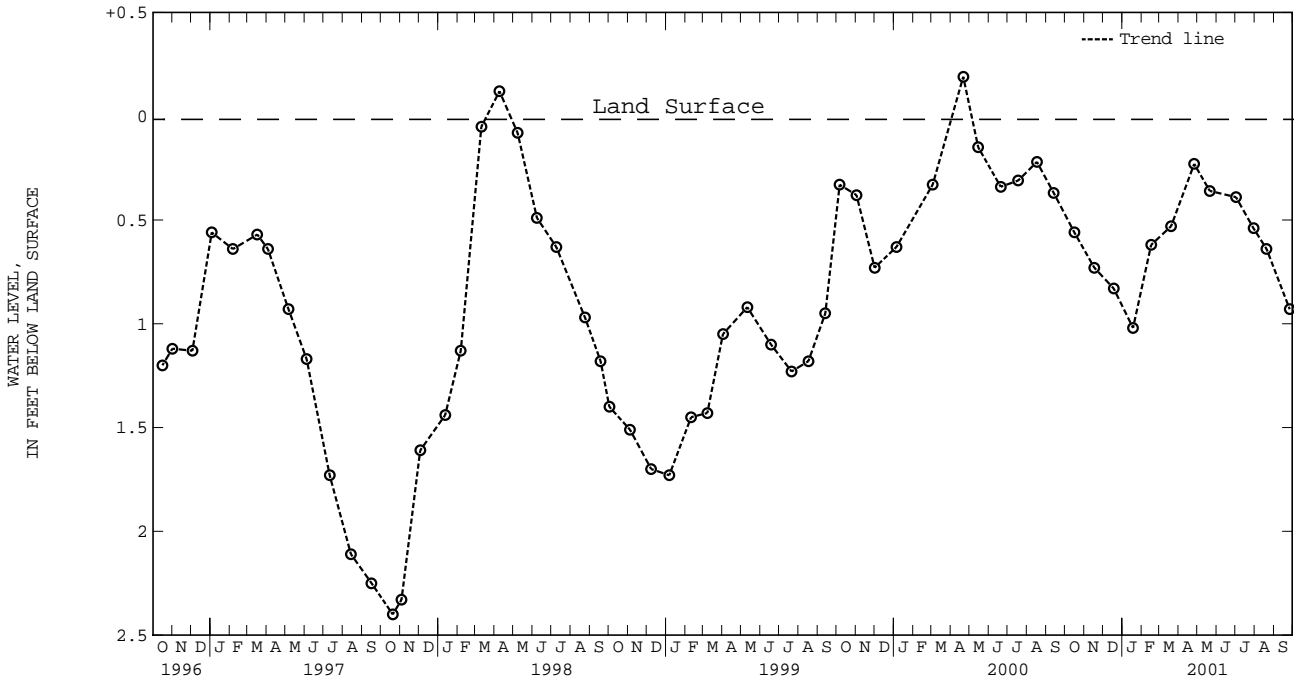
GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE CITY--Continued

WELL NUMBER.--3S5E- 46. SITE ID.--391556076315301. PERMIT NUMBER.--BC-81-0088.  
 LOCATION.--Lat 39°15'56", long 76°31'53", Hydrologic Unit 02060003, at Ft. Holabird Industrial Park, near Colgate Creek.  
 Owner: U.S. Geological Survey.  
 AQUIFER.-- Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 73 ft; casing diameter 4 in., to 63 ft; screen diameter 3 in. from 63 to 73 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.07 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--January 1983 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.22 ft above land surface, May 5, 1983; lowest measured, 3.07 ft below land surface, July 8, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	.56	JAN 18, 2001	1.02	APR 26, 2001	.23	JUL 30, 2001	.54
NOV 17	.73	FEB 16	.62	MAY 21	.36	AUG 20	.64
DEC 18	.83	MAR 20	.53	JUL 02	.39	SEP 26	.93
WATER YEAR 2001 HIGHEST		.23	APR 26, 2001 LOWEST		1.02	JAN 18, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

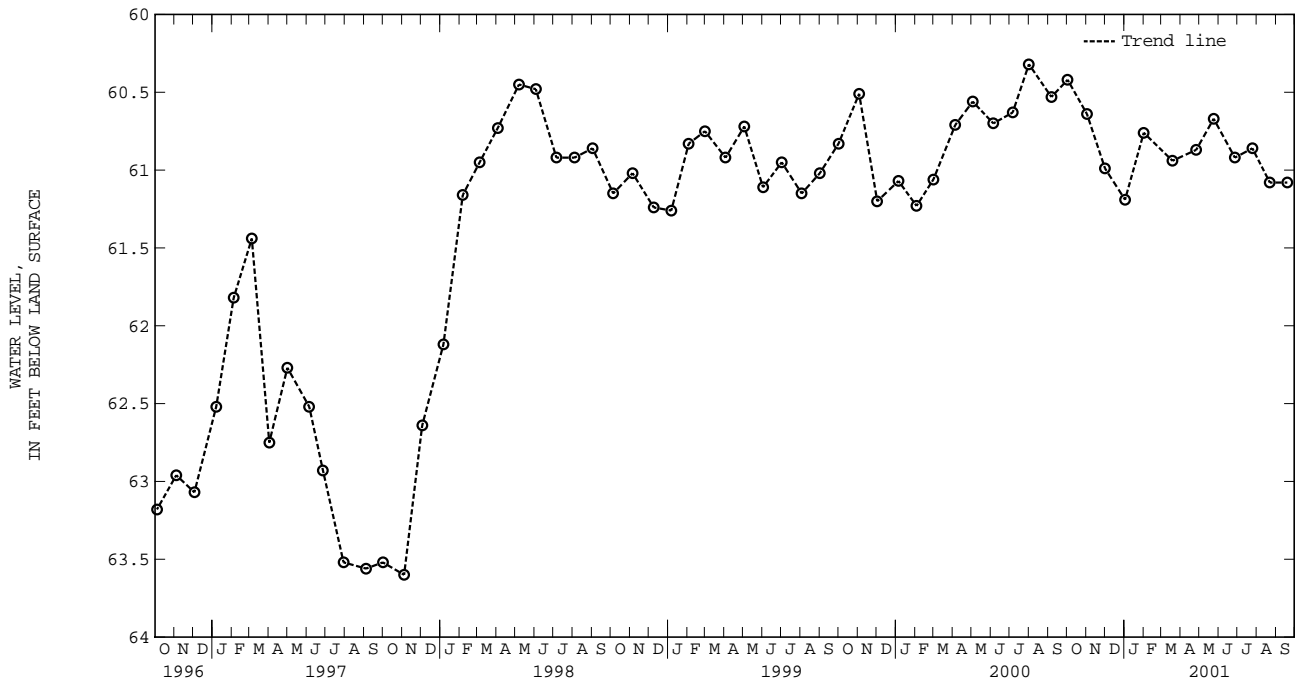
BALTIMORE CITY--Continued

WELL NUMBER.--5S2E- 24. SITE ID.--391349076354501. PERMIT NUMBER.--BC-81-0089.  
 LOCATION.--Lat 39°13'49", long 76°35'45", Hydrologic Unit 02060003, at Farrington Park.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 272 ft; casing diameter 4 in., to 262 ft; screen diameter 3 in. from 262 ft to 272 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 75 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 0.35 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--January 1983 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.32 ft below land surface, Aug. 1, 2000;  
 lowest measured, 66.36 ft below land surface, May 5, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2000	60.42	JAN 02, 2001	61.19	APR 26, 2001	60.87	JUL 25, 2001	60.86
NOV 02	60.64	FEB 01	60.76	MAY 24	60.67	AUG 22	61.08
DEC 01	60.99	MAR 19	60.94	JUN 27	60.92	SEP 19	61.08

WATER YEAR 2001      HIGHEST    60.42    OCT 02, 2000      LOWEST    61.19    JAN 02, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY

WELL NUMBER.--BA Cd 26. SITE ID.--393129076384201. PERMIT NUMBER.--BA-02-8527.

LOCATION.--Lat 39°31'29", long 76°38'42" ,Hydrologic Unit, 02060003, 1.4 mi south of Sparks, near York Road.

Owner: Diecraft Division, Leica Inc.

AQUIFER.--Baltimore Gneiss of Precambrian age. Aquifer code: 400BLMR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 250 ft; casing diameter 6 in., to 19 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 480 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1959 to current year.

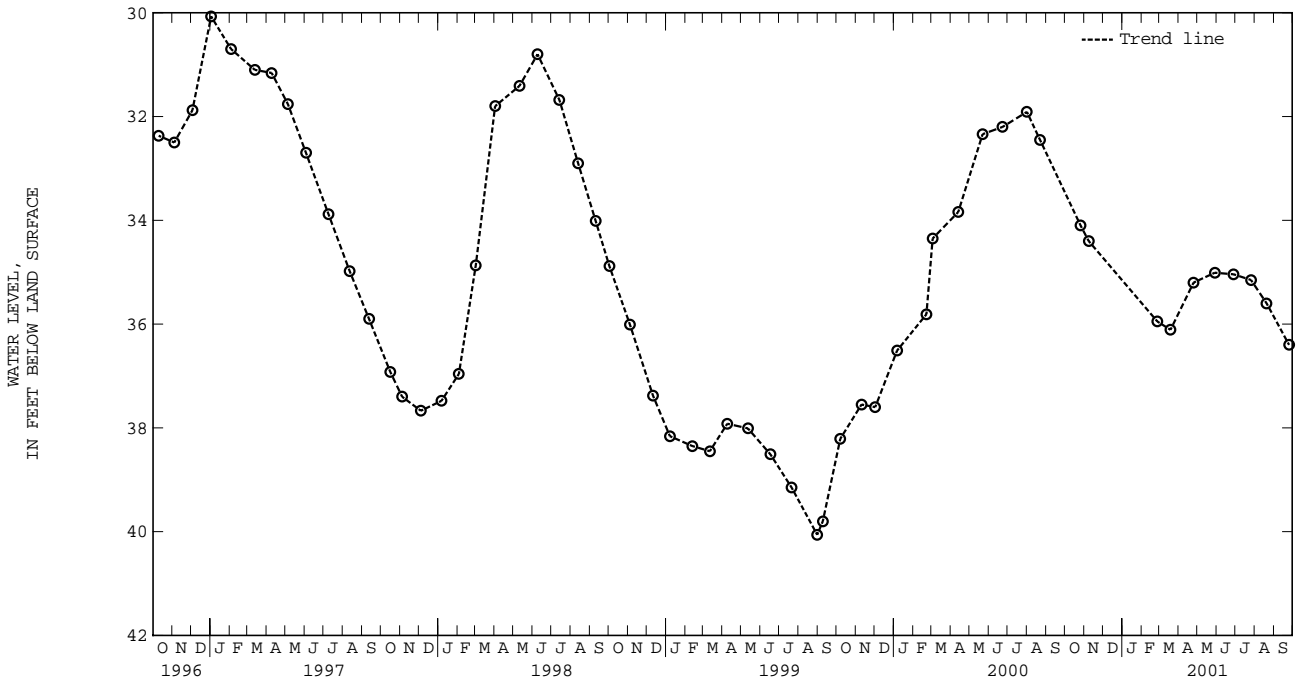
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.42 ft below land surface, Sept. 9, 1975;

lowest measured, 80.20 ft below land surface, Dec. 23, 1969.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	34.10	MAR 19, 2001	36.11	JUN 28, 2001	35.04	SEP 25, 2001	36.40
NOV 08	34.40	APR 25	35.20	JUL 26	35.15		
FEB 26, 2001	35.95	MAY 29	35.01	AUG 20	35.60		

WATER YEAR 2001      HIGHEST    34.10    OCT 26, 2000      LOWEST    36.40    SEP 25, 2001



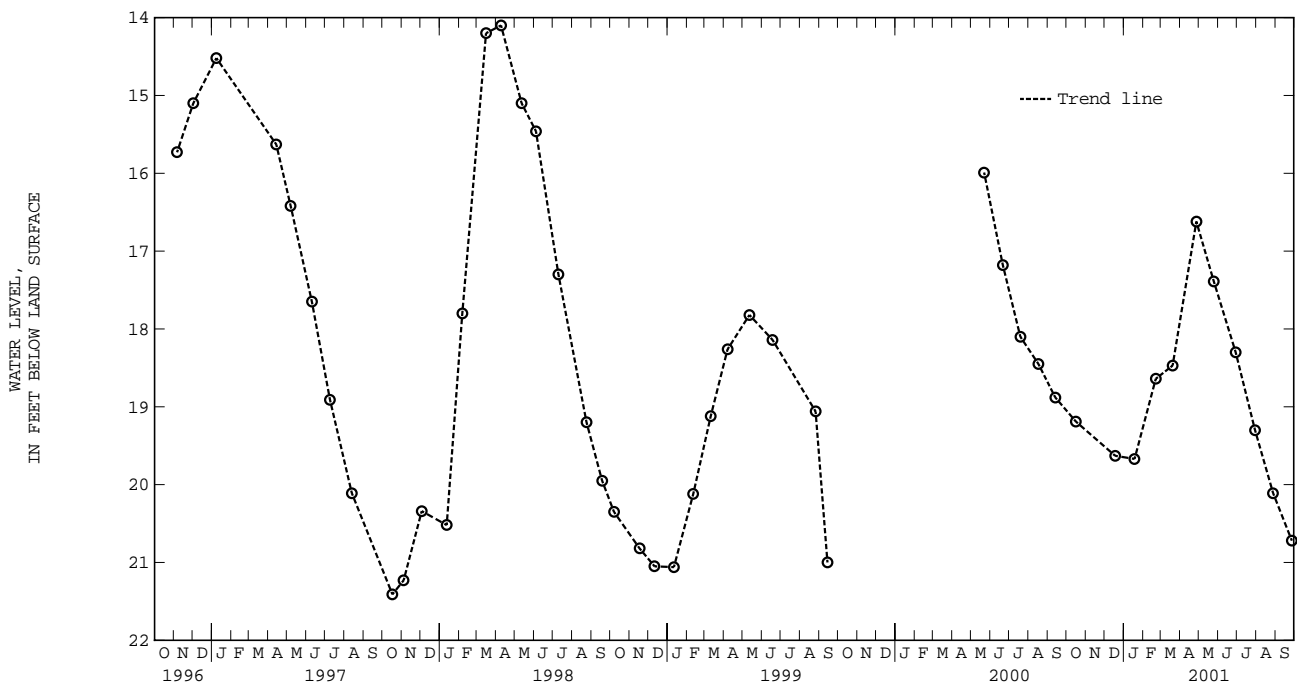


BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Ce 21. SITE ID.--393102076341801. PERMIT NUMBER.--BA-02-1266.  
 LOCATION.--Lat 39°31'02", long 76°34'18", Hydrologic Unit 02060003, on Paper Mill Road, 0.6 mi west of Jacksonville.  
 Owner: Baltimore County.  
 AQUIFER.--Loch Raven Formation of Cambrian Age. Aquifer code: 370LCRV.  
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 350 ft; casing diameter 10 in., to 12.4 ft;  
 casing diameter 6 in., to 33.2 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 536 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--November and December 1955, November 1956 through September 1975, July 1977 through July 1996,  
 November 1996 to September 1999, and May 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.60 ft below land surface, June 23, 1972;  
 lowest measured, 21.54 ft below land surface, Feb. 10, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	19.19	FEB 21, 2001	18.64	MAY 25, 2001	17.39	AUG 28, 2001	20.11
DEC 18	19.63	MAR 20	18.47	JUN 29	18.30	SEP 27	20.72
JAN 18, 2001	19.67	APR 27	16.62	JUL 30	19.30		
WATER YEAR 2001 HIGHEST 16.62		APR 27, 2001		LOWEST 20.72		SEP 27, 2001	



GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.-- BA Dc 444. SITE ID.--392931076410301. PERMIT NUMBER.--BA-81-4198.

LOCATION.--Lat 39°29'31", long 76°41'03", Hydrologic Unit 02060003, at Oregon Ridge Park.

Owner: Baltimore County Parks and Recreation.

AQUIFER.--Cockeysville Marble of Cambrian age. Aquifer code: 370CCKV.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 300 ft; casing diameter 6 in., to 88 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital

water-level recorder--15-minute recorder interval from Nov. 4, 1998 to current year.

DATUM.--Elevation of land surface is 390 ft above sea level, from topographic map.

Measuring Point: Top of shelter platform, 1.62 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.46 ft below land surface, April 9, 1997;

lowest measured, 45.07 ft below land surface, Jan. 17, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	39.69	39.69	40.17	40.17	40.74	40.73	40.91	40.91	41.09	41.07	40.85	40.83
2	39.69	39.69	40.17	40.17	40.74	40.74	40.96	40.91	41.09	41.04	40.83	40.83
3	39.70	39.69	40.17	40.17	40.74	40.74	40.96	40.94	41.08	41.08	40.86	40.83
4	39.70	39.69	40.21	40.17	40.74	40.74	40.95	40.94	41.08	41.05	40.86	40.82
5	39.70	39.70	40.26	40.21	40.74	40.73	40.95	40.91	41.05	40.97	40.82	40.82
6	39.75	39.70	40.27	40.26	40.74	40.74	40.97	40.93	41.02	41.01	40.82	40.82
7	39.79	39.75	40.30	40.27	40.81	40.74	41.00	40.97	41.02	41.02	40.84	40.82
8	39.79	39.79	40.32	40.30	40.82	40.80	41.04	41.00	41.02	41.01	40.84	40.83
9	39.80	39.79	40.32	40.29	40.83	40.82	41.04	41.04	41.02	40.93	40.83	40.81
10	39.80	39.79	40.34	40.26	40.83	40.82	41.04	41.04	41.02	40.93	40.82	40.82
11	39.84	39.80	40.39	40.34	40.83	40.82	41.09	41.04	41.02	41.02	40.83	40.81
12	39.88	39.84	40.40	40.39	40.93	40.80	41.09	41.08	41.02	40.97	40.83	40.80
13	39.88	39.88	40.40	40.40	40.93	40.90	41.09	41.09	40.97	40.95	40.80	40.80
14	39.88	39.88	40.40	40.40	40.90	40.83	41.09	41.09	40.95	40.94	40.81	40.80
15	39.90	39.88	40.46	40.40	40.91	40.88	41.09	41.08	40.94	40.94	40.80	40.80
16	39.93	39.90	40.47	40.43	40.91	40.86	41.11	41.09	40.94	40.94	40.80	40.80
17	39.94	39.93	40.47	40.43	40.86	40.76	41.11	41.11	40.94	40.94	40.80	40.80
18	39.94	39.94	40.52	40.47	40.86	40.82	41.11	41.11	40.94	40.94	40.81	40.80
19	39.98	39.94	40.52	40.52	40.85	40.85	41.11	41.10	40.94	40.89	40.81	40.80
20	39.99	39.98	40.52	40.52	40.85	40.85	41.10	41.07	40.90	40.89	40.81	40.80
21	40.00	39.99	40.58	40.52	40.85	40.85	41.11	41.07	40.94	40.89	40.80	40.62
22	40.05	40.00	40.58	40.57	40.86	40.85	41.12	41.11	40.94	40.90	40.62	40.62
23	40.06	40.05	40.58	40.58	40.86	40.86	41.12	41.07	40.93	40.90	40.62	40.62
24	40.06	40.06	40.65	40.58	40.86	40.85	41.07	41.07	40.93	40.92	40.62	40.61
25	40.06	40.06	40.65	40.60	40.90	40.86	41.11	41.07	40.92	40.84	40.61	40.53
26	40.11	40.06	40.60	40.57	40.90	40.87	41.11	41.08	40.89	40.84	40.53	40.53
27	40.11	40.11	40.64	40.60	40.87	40.87	41.12	41.08	40.88	40.85	40.53	40.53
28	40.16	40.11	40.66	40.64	40.87	40.87	41.12	41.12	40.86	40.85	40.53	40.47
29	40.16	40.12	40.66	40.66	40.87	40.87	41.12	41.11	---	---	40.47	40.34
30	40.17	40.15	40.73	40.66	40.89	40.87	41.11	41.04	---	---	40.34	40.24
31	40.17	40.17	---	---	40.91	40.89	41.07	41.04	---	---	40.24	40.15
MONTH	40.17	39.69	40.73	40.17	40.93	40.73	41.12	40.91	41.09	40.84	40.86	40.15

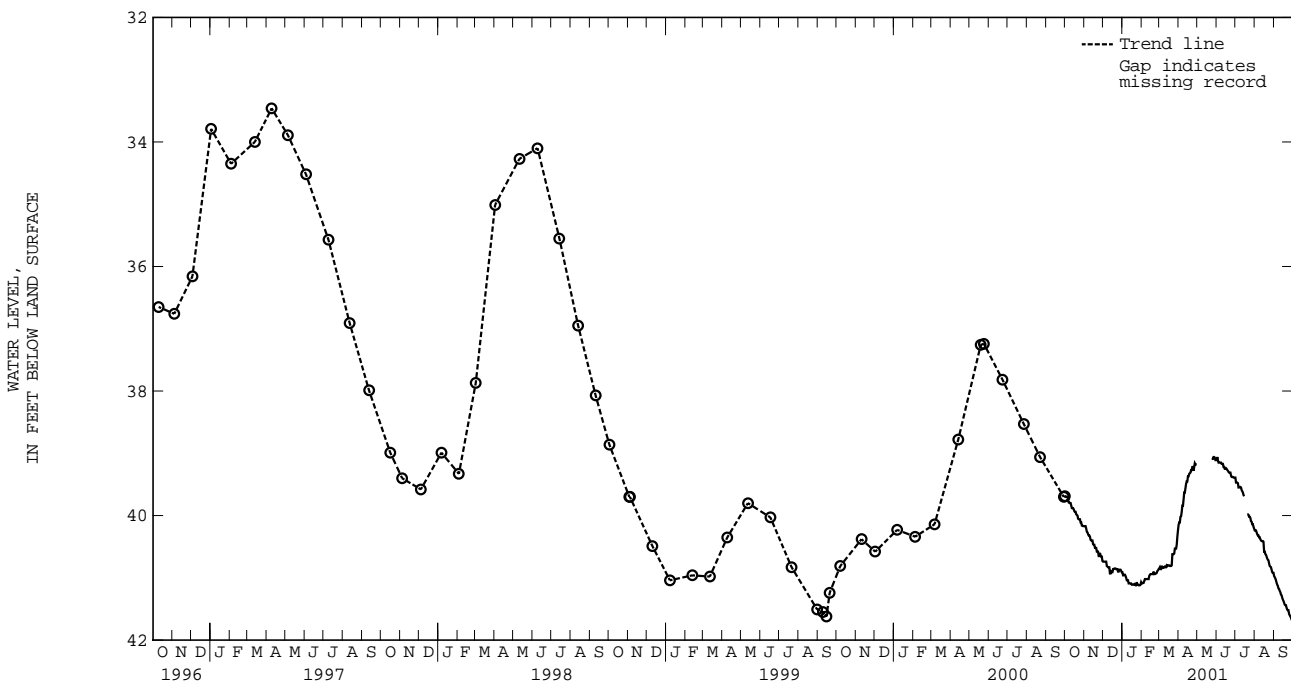
BALTIMORE COUNTY--Continued

BA Dc 444--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	40.15	40.11	---	---	39.11	39.06	39.39	39.39	40.24	40.21	40.97	40.92
2	40.11	40.11	---	---	39.06	39.06	39.47	39.39	40.24	40.24	40.99	40.97
3	40.11	40.02	---	---	39.11	39.06	39.47	39.47	40.24	40.24	41.01	40.99
4	40.02	40.01	---	---	39.15	39.11	39.47	39.44	40.27	40.24	41.04	41.01
5	40.01	39.94	---	---	39.15	39.14	39.48	39.46	40.30	40.27	41.08	41.04
6	39.94	39.84	---	---	39.15	39.14	39.55	39.48	40.32	40.30	41.11	41.08
7	39.84	39.84	---	---	39.15	39.14	39.55	39.54	40.32	40.32	41.13	41.11
8	39.84	39.74	---	---	39.15	39.14	39.54	39.54	40.35	40.32	41.17	41.13
9	39.74	39.62	---	---	39.17	39.15	39.54	39.54	40.35	40.35	41.18	41.17
10	39.63	39.62	---	---	39.17	39.16	39.55	39.54	40.38	40.35	41.21	41.18
11	39.63	39.56	---	---	39.17	39.17	39.59	39.55	40.40	40.37	41.23	41.21
12	39.56	39.49	---	---	39.22	39.17	39.61	39.59	40.41	40.40	41.27	41.23
13	39.49	39.45	---	---	39.22	39.18	39.63	39.61	40.41	40.39	41.28	41.26
14	39.45	39.45	---	---	39.25	39.22	39.67	39.63	40.41	40.40	41.32	41.28
15	39.45	39.37	---	---	39.25	39.24	39.69	39.67	40.42	40.41	41.35	41.32
16	39.37	39.37	---	---	39.24	39.24	---	---	40.58	40.42	41.37	41.35
17	39.37	39.32	---	---	39.25	39.24	---	---	40.58	40.57	41.40	41.37
18	39.33	39.32	---	---	39.27	39.25	---	---	40.62	40.58	41.43	41.40
19	39.32	39.31	---	---	39.28	39.26	---	---	40.63	40.62	41.44	41.43
20	39.31	39.27	---	---	39.30	39.26	39.98	39.98	40.66	40.62	41.44	41.44
21	39.27	39.27	---	---	39.31	39.28	39.98	39.98	40.69	40.66	41.48	41.44
22	39.27	39.22	---	---	39.31	39.29	39.99	39.98	40.71	40.69	41.51	41.48
23	39.22	39.18	---	---	39.31	39.28	40.02	39.99	40.72	40.71	41.52	41.51
24	39.22	39.17	39.09	39.08	39.36	39.31	40.02	40.01	40.77	40.72	41.52	41.50
25	39.28	39.22	39.09	39.09	39.38	39.36	40.04	40.02	40.81	40.77	41.58	41.51
26	39.22	39.16	39.09	39.06	39.38	39.38	40.09	40.04	40.82	40.81	41.60	41.58
27	39.16	39.12	39.06	39.04	39.38	39.37	40.10	40.09	40.83	40.82	41.62	41.60
28	39.18	39.12	39.06	39.06	39.39	39.38	40.14	40.10	40.87	40.83	41.64	41.62
29	39.18	39.18	39.07	39.06	39.39	39.38	40.14	40.13	40.91	40.87	41.67	41.64
30	39.18	39.18	39.11	39.07	39.39	39.39	40.18	40.14	40.92	40.89	41.67	41.67
31	---	---	39.11	39.11	---	---	40.21	40.18	40.92	40.91	---	---
MONTH	40.15	39.12	39.11	39.04	39.39	39.06	40.21	39.39	40.92	40.21	41.67	40.92
YEAR	41.67	39.04										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Ea 18. SITE ID.--392045076512501. PERMIT NUMBER.--BA-01-8151.  
 LOCATION.--Lat 39°20'45", long 76°51'25", Hydrologic Unit 02060003, at Granite.  
 Owner: Maryland National Guard (U.S. Army).  
 AQUIFER.--Woodstock Granite of Silurian age. Aquifer code: 350WDCK.  
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 250 ft; casing diameter 10 in., to 50.7 ft; casing diameter 6 in. with depth to 71.3 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level digital recorder--60 minute recorder interval since Sept. 10, 1999 to current Year.  
 DATUM.--Elevation of land surface is 491 ft above sea level, from topographic map.  
 Measuring point: Top of shelter platform, 1.6 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. U.S. Geological Survey water-level telemeter at well.  
 Missing data due to recorder malfunction.  
 PERIOD OF RECORD.-- November 1956 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.94 ft below land surface, June 24, 1972;  
 lowest measured, 27.57 ft below land surface, Sept. 13, 1966.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.55	21.54	22.15	22.14	22.74	22.72	22.97	22.95	22.92	22.91	22.56	22.51
2	21.54	21.54	22.16	22.15	22.77	22.74	22.99	22.97	22.91	22.85	22.51	22.50
3	21.60	21.54	22.18	22.16	22.77	22.77	22.99	22.97	22.92	22.90	22.54	22.51
4	21.61	21.59	22.18	22.17	22.78	22.77	22.99	22.96	22.92	22.88	22.54	22.48
5	21.63	21.61	22.22	22.18	22.80	22.76	22.99	22.92	22.89	22.81	22.48	22.46
6	21.67	21.61	22.24	22.22	22.82	22.80	23.03	22.96	22.84	22.81	22.47	22.43
7	21.71	21.67	22.31	22.24	22.84	22.79	23.05	23.02	22.85	22.82	22.49	22.46
8	21.72	21.71	22.32	22.31	22.88	22.83	23.06	23.02	22.85	22.79	22.49	22.44
9	21.74	21.72	22.32	22.29	22.90	22.88	23.06	23.05	22.80	22.73	22.45	22.42
10	21.75	21.72	22.36	22.26	22.91	22.89	23.10	23.06	22.81	22.71	22.45	22.43
11	21.79	21.75	22.39	22.36	22.91	22.88	23.10	23.09	22.82	22.81	22.45	22.42
12	21.81	21.79	22.41	22.39	23.00	22.84	23.13	23.10	22.82	22.77	22.46	22.38
13	21.81	21.81	22.41	22.39	23.00	22.97	23.14	23.13	22.77	22.76	22.38	22.35
14	21.82	21.81	22.43	22.39	22.97	22.91	23.14	23.14	22.76	22.68	22.40	22.36
15	21.84	21.82	22.46	22.43	22.99	22.97	23.14	23.14	22.75	22.68	22.40	22.36
16	21.87	21.84	22.46	22.42	22.98	22.90	23.18	23.14	22.75	22.69	22.36	22.34
17	21.88	21.87	22.49	22.42	22.90	22.78	23.20	23.18	22.75	22.68	22.35	22.33
18	21.89	21.87	22.52	22.49	22.80	22.76	23.20	23.19	22.75	22.72	22.36	22.34
19	21.92	21.89	22.53	22.51	22.76	22.71	23.19	23.13	22.72	22.67	22.36	22.34
20	21.95	21.92	22.54	22.50	22.80	22.71	23.14	23.05	22.67	22.64	22.34	22.31
21	21.95	21.92	22.57	22.54	22.80	22.78	23.09	23.04	22.69	22.63	22.31	22.11
22	22.00	21.95	22.59	22.56	22.84	22.76	23.10	23.09	22.69	22.63	22.11	22.01
23	22.03	22.00	22.61	22.59	22.85	22.84	23.09	23.03	22.67	22.63	22.01	21.95
24	22.01	21.99	22.64	22.61	22.85	22.80	23.05	23.03	22.69	22.66	21.98	21.92
25	22.03	22.00	22.64	22.61	22.90	22.85	23.11	23.05	22.66	22.56	21.96	21.90
26	22.04	22.03	22.61	22.55	22.90	22.85	23.11	23.06	22.62	22.58	21.92	21.90
27	22.04	22.01	22.65	22.59	22.86	22.83	23.12	23.05	22.62	22.57	21.92	21.90
28	22.10	22.02	22.69	22.65	22.87	22.84	23.13	23.12	22.57	22.56	21.91	21.87
29	22.10	22.07	22.69	22.66	22.87	22.87	23.13	23.09	---	---	21.88	21.76
30	22.12	22.09	22.72	22.66	22.88	22.86	23.09	22.93	---	---	21.76	21.55
31	22.14	22.12	---	---	22.95	22.88	22.93	22.91	---	---	21.55	21.47
MONTH	22.14	21.54	22.72	22.14	23.00	22.71	23.20	22.91	22.92	22.56	22.56	21.47

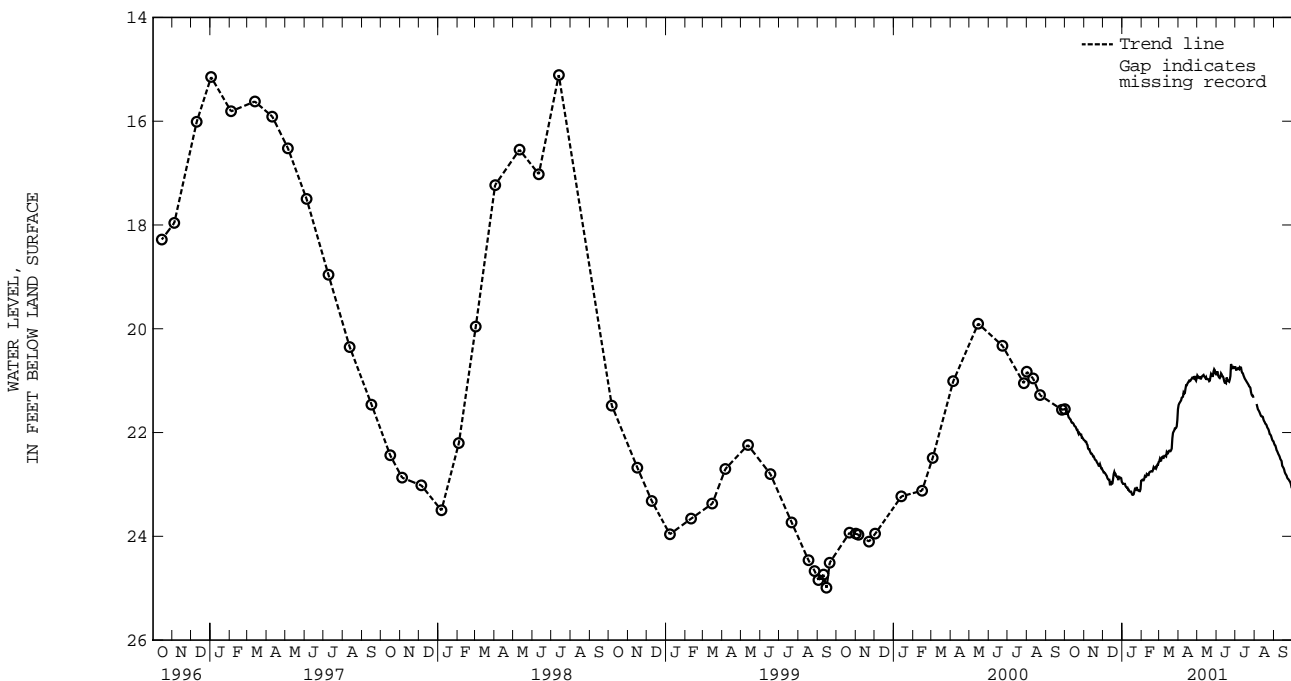
BALTIMORE COUNTY--Continued

BA Ea 18--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.47	21.43	20.90	20.88	20.88	20.81	20.74	20.72	---	---	22.21	22.15
2	21.44	21.42	20.92	20.89	20.82	20.80	20.79	20.73	---	---	22.24	22.21
3	21.42	21.37	20.94	20.92	20.88	20.80	20.79	20.75	---	---	22.25	22.23
4	21.40	21.38	20.93	20.87	20.92	20.88	20.77	20.73	21.45	21.39	22.29	22.25
5	21.38	21.32	20.93	20.86	20.94	20.92	20.76	20.73	21.50	21.43	22.34	22.29
6	21.33	21.25	20.96	20.92	20.95	20.92	20.77	20.73	21.55	21.50	22.36	22.34
7	21.32	21.27	20.96	20.93	20.93	20.85	20.78	20.74	21.57	21.54	22.39	22.36
8	21.31	21.22	20.93	20.89	20.86	20.85	20.74	20.71	21.59	21.57	22.42	22.39
9	21.23	21.17	20.91	20.88	20.88	20.86	20.75	20.72	21.62	21.59	22.44	22.42
10	21.25	21.21	20.90	20.88	20.91	20.88	20.75	20.74	21.65	21.62	22.47	22.44
11	21.24	21.16	20.89	20.88	20.92	20.91	20.82	20.75	21.68	21.65	22.51	22.47
12	21.16	21.08	20.92	20.87	20.95	20.91	20.85	20.82	21.69	21.67	22.53	22.51
13	21.09	21.08	20.93	20.92	21.01	20.95	20.86	20.85	21.69	21.66	22.55	22.53
14	21.09	21.06	20.95	20.93	21.04	21.01	20.90	20.86	21.70	21.66	22.64	22.54
15	21.06	21.00	20.93	20.89	21.04	21.04	20.93	20.90	21.75	21.70	22.66	22.63
16	21.04	21.00	20.97	20.91	21.05	20.94	20.96	20.93	21.78	21.74	22.68	22.65
17	21.02	20.98	20.97	20.96	20.94	20.91	20.96	20.96	21.80	21.76	22.71	22.68
18	21.00	20.97	20.97	20.95	20.98	20.94	21.00	20.97	21.83	21.80	22.76	22.70
19	21.01	20.98	20.98	20.94	21.00	20.97	21.02	20.99	21.84	21.81	22.79	22.75
20	21.00	20.96	21.01	20.98	21.01	20.98	21.04	21.02	21.86	21.82	22.81	22.78
21	20.98	20.95	21.00	20.93	21.02	20.98	21.06	21.03	21.90	21.86	22.83	22.81
22	20.96	20.94	20.93	20.87	20.98	20.91	21.08	21.06	21.92	21.90	22.87	22.83
23	20.94	20.90	20.87	20.85	20.91	20.66	21.11	21.08	21.94	21.92	22.89	22.87
24	20.94	20.89	20.89	20.86	20.68	20.66	21.12	21.11	21.98	21.94	22.90	22.87
25	20.96	20.94	20.91	20.89	20.72	20.68	21.14	21.12	22.03	21.98	22.92	22.89
26	20.96	20.91	20.91	20.82	20.76	20.72	21.22	21.14	22.04	22.01	22.94	22.92
27	20.91	20.89	20.82	20.77	20.76	20.74	21.27	21.22	22.06	22.03	22.96	22.93
28	20.98	20.89	20.78	20.77	20.74	20.73	21.29	21.27	22.10	22.06	23.00	22.96
29	21.00	20.95	20.80	20.78	20.75	20.73	21.29	21.27	22.14	22.10	23.06	23.00
30	20.95	20.90	20.86	20.80	20.74	20.73	21.33	21.27	22.16	22.13	23.07	23.05
31	---	---	20.88	20.86	---	---	---	---	22.17	22.14	---	---
MONTH	21.47	20.89	21.01	20.77	21.05	20.66	21.33	20.71	22.17	21.39	23.07	22.15
YEAR	23.20	20.66										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Ec 43. SITE ID.--392305076432001.

LOCATION.--Lat 39°23'05", long 76°43'20", Hydrologic Unit 02060003, nr Pikesville, at Druid Ridge Cemetery.

Owner: Druid Ridge Cemetery.

AQUIFER.--Baltimore Gneiss of Precambrian age. Aquifer code: 400BLMR.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 111 ft; casing diameter 6 in., to 40 ft; open hole.

DATUM.--Elevation of land surface is 500 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

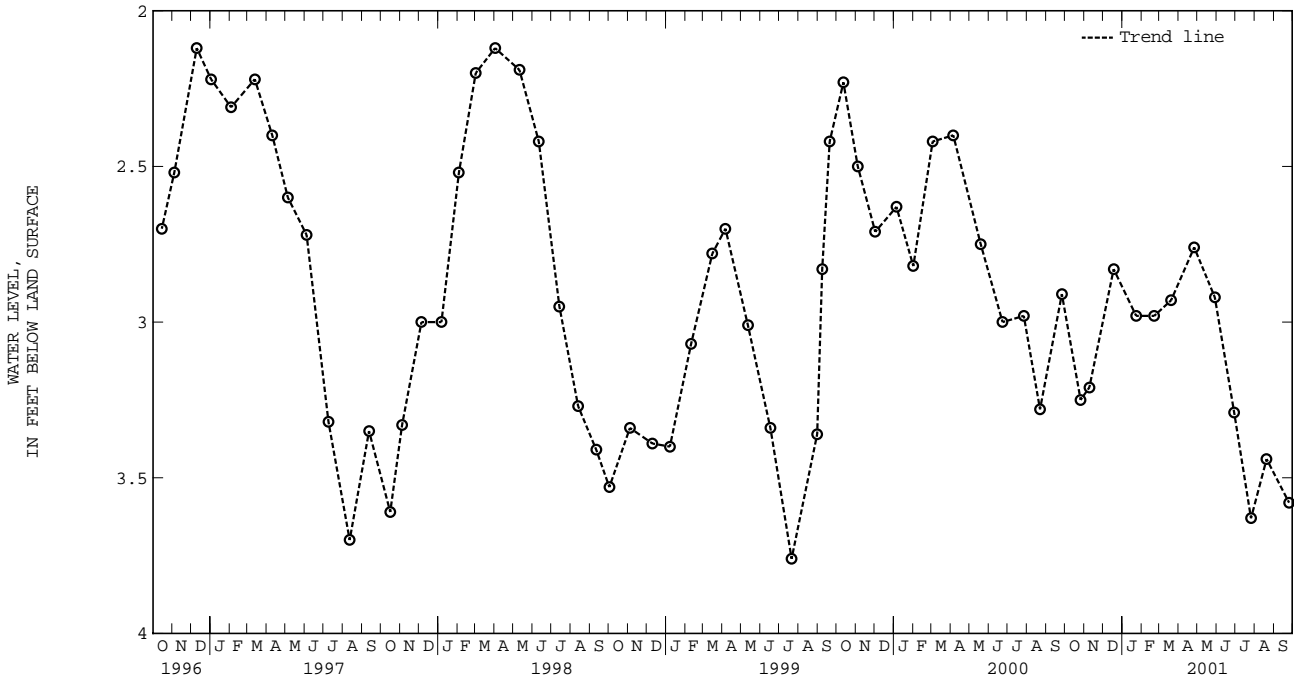
PERIOD OF RECORD.--March 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.27 ft below land surface, June 24, 1972;

lowest measured, 4.69 ft below land surface, Nov. 11, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	3.25	JAN 23, 2001	2.98	APR 26, 2001	2.76	JUL 26, 2001	3.63
NOV 09	3.21	FEB 21	2.98	MAY 29	2.92	AUG 20	3.44
DEC 18	2.83	MAR 20	2.93	JUN 29	3.29	SEP 25	3.58
WATER YEAR 2001 HIGHEST		2.76	APR 26, 2001 LOWEST		3.63	JUL 26, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Fe 19. SITE ID.--391607076312901.

LOCATION.--Lat 39°16'07", long 76°31'29", Hydrologic Unit 02060003, 0.2 mi east of Willow Spring Road, at Seagrams warehouse facility, Dundalk.

Owner: Montebello Brands.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 402 ft; casing diameter 8 in., to unknown depth; screen length 35 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 30 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.5 ft above land surface.

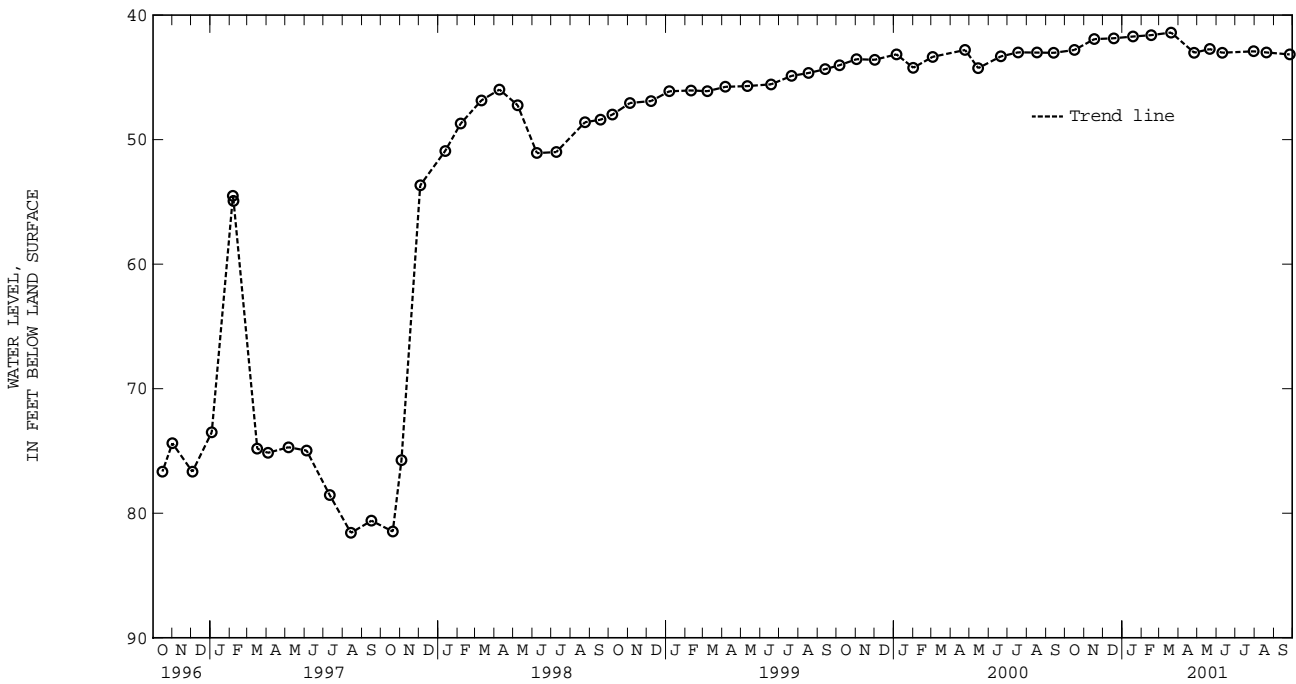
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1952 to March 1954, January 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.40 ft below land surface, Mar. 20, 2001; lowest measured, 95.88 ft below land surface, Oct. 6, 1952.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	42.80	JAN 18, 2001	41.72	APR 26, 2001	43.02	JUL 30, 2001	42.91
NOV 17	41.93	FEB 16	41.61	MAY 21	42.73	AUG 20	43.00
DEC 18	41.86	MAR 20	41.40	JUN 10	43.02	SEP 26	43.16
WATER YEAR 2001 HIGHEST 41.40 MAR 20, 2001		LOWEST 43.16 SEP 26, 2001					



GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Gf 11. SITE ID.--391356076293501.

LOCATION.--Lat 39°13'56", long 76°29'35", Hydrologic Unit 02060003, near Tin Mill Rd., Sparrows Point.

Owner: Bethlehem Steel Co.

AQUIFER.-- Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 645 ft; casing diameter 14 in., to 422.7 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 13.57 ft above sea level.

Measuring point: Top of casing 2.58 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

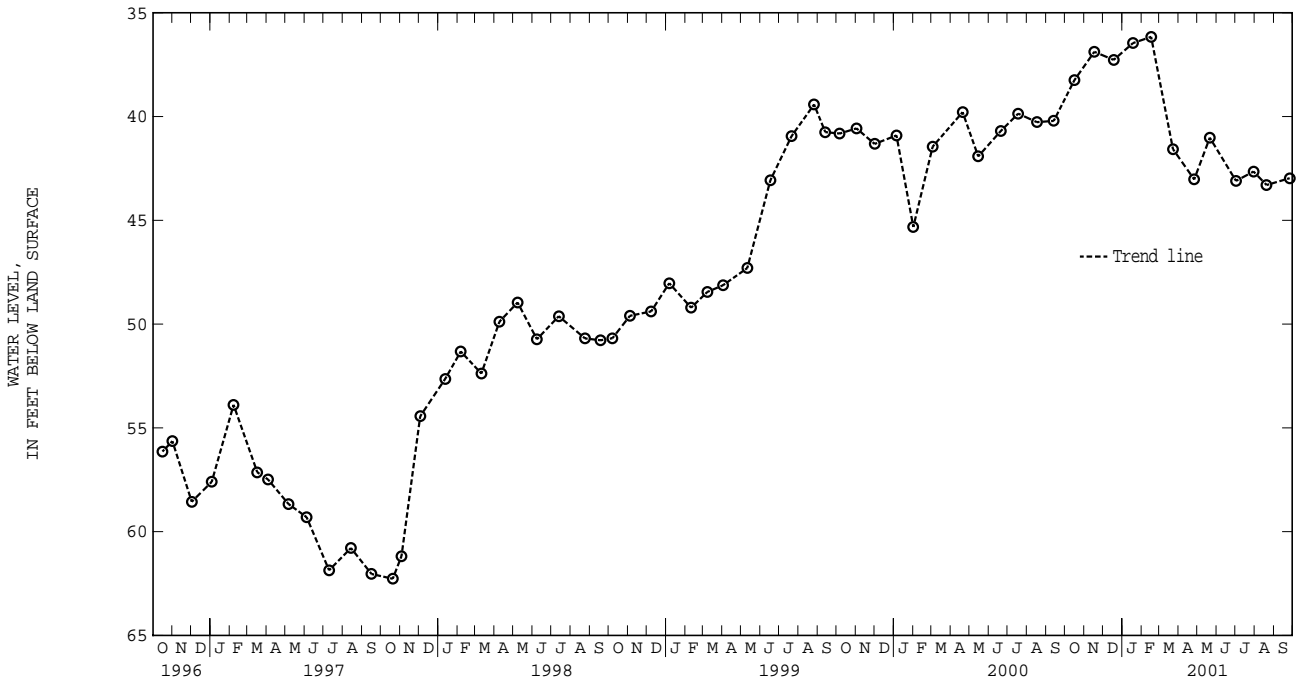
PERIOD OF RECORD.--September 1981, March 1982, September 1982, January 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.25 ft below land surface, June 3, 1983;

lowest measured, 62.27 ft below land surface, October 20, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	38.25	JAN 18, 2001	36.46	APR 26, 2001	43.03	JUL 30, 2001	42.65
NOV 17	36.88	FEB 16	36.16	MAY 21	41.02	AUG 20	43.30
DEC 18	37.27	MAR 23	41.57	JUL 02	43.10	SEP 26	42.97
WATER YEAR 2001 HIGHEST 36.16 FEB 16, 2001		LOWEST 43.30 AUG 20, 2001					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



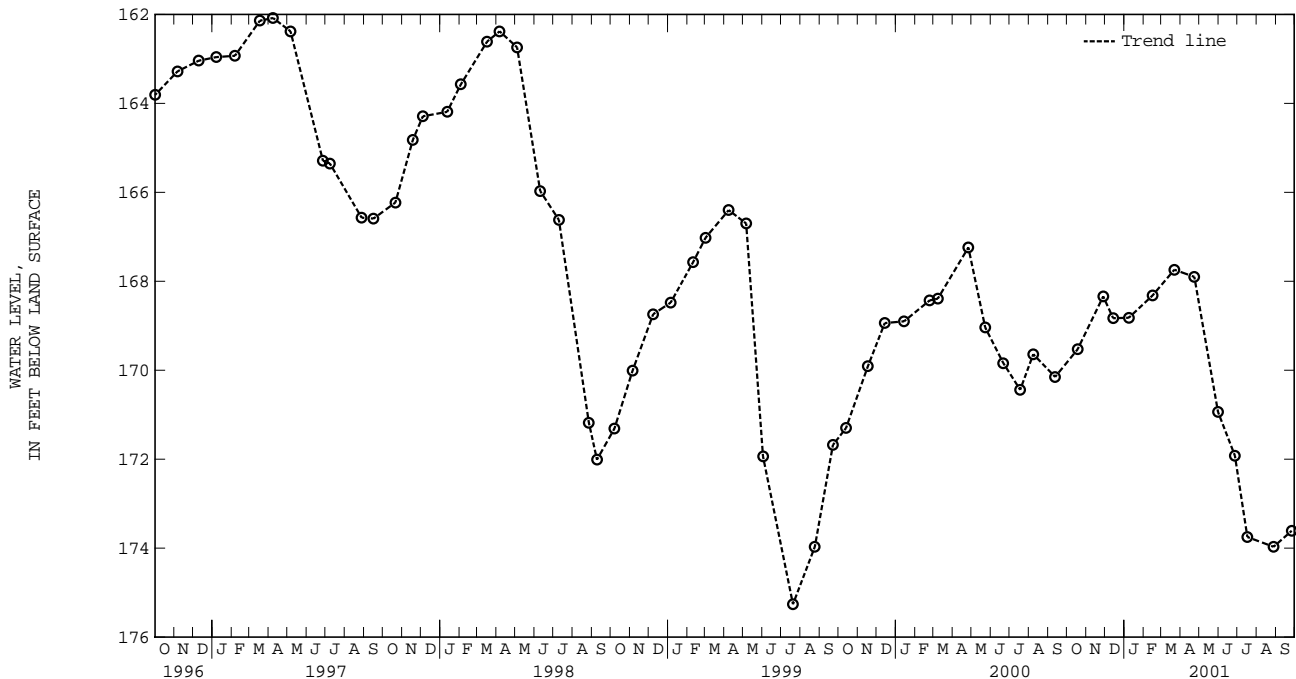
CALVERT COUNTY

WELL NUMBER.--CA Bb 27. SITE ID.--3843330766394701. PERMIT NUMBER.--CA-73-3303.  
 LOCATION.--Lat 38°43'33", long 76°39'47", Hydrologic Unit 02060006, at Dunkirk Regional Park, Dunkirk.  
 Owner: U.S. Geological Survey  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 320 ft; casing diameter 4 in., to 250 ft;  
 casing diameter 2 in. from 250 to 310 ft; screen diameter 2 in. from 310 to 320 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 137.87 ft above sea level.  
 Measuring point: Top of casing, 1.80 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--August 1979 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.82 ft below land surface, May 6, 1980;  
 lowest measured, 175.26 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	169.53	JAN 08, 2001	168.82	APR 23, 2001	167.90	JUL 17, 2001	173.75
NOV 28	168.34	FEB 15	168.32	MAY 31	170.94	AUG 28	173.97
DEC 14	168.83	MAR 22	167.74	JUN 27	171.92	SEP 26	173.61

WATER YEAR 2001 HIGHEST 167.74 MAR 22, 2001 LOWEST 173.97 AUG 28, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Bb 28. SITE ID.--384333076394702. PERMIT NUMBER.--CA-73-3721.

LOCATION.--Lat 38°43'33", long 76°39'47", Hydrologic Unit 02060006, at Dunkirk Regional Park, Dunkirk.

Owner: U.S. Geological Survey

AQUIFER.--Nanjemoy Formation of Lower Eocene age.. Aquifer code: 124NNJM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 170 ft; casing diameter 4 in., to 147 ft; casing diameter 2 in. from 147 to 160 ft; screen diameter 2 in. from 160 to 170 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 138.67 ft above sea level.

Measuring point: Top of casing, 1.60 ft above land surface.

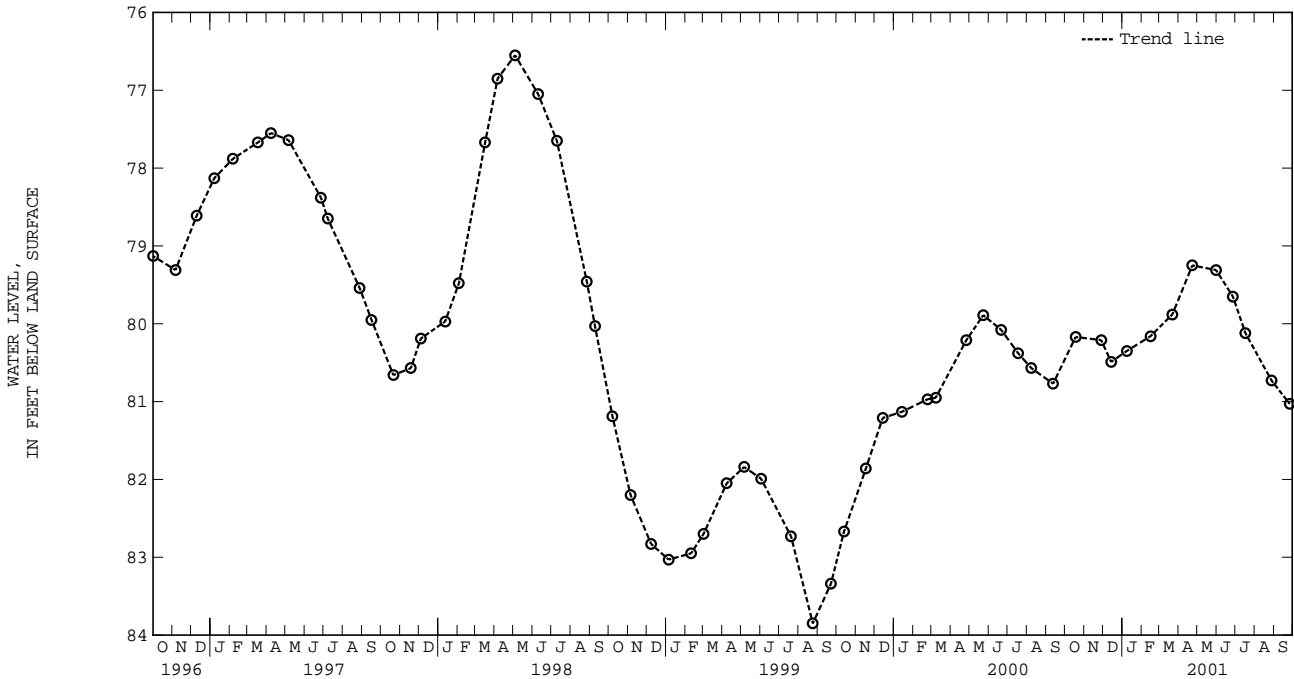
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.55 ft below land surface, May 4, 1998; lowest measured, 83.85 ft below land surface, Aug. 24, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	80.17	JAN 08, 2001	80.35	APR 23, 2001	79.25	JUL 17, 2001	80.12
NOV 28	80.21	FEB 15	80.16	MAY 31	79.31	AUG 28	80.73
DEC 14	80.49	MAR 22	79.88	JUN 27	79.65	SEP 26	81.03
WATER YEAR 2001 HIGHEST		79.25 APR 23, 2001	LOWEST		81.03 SEP 26, 2001		



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

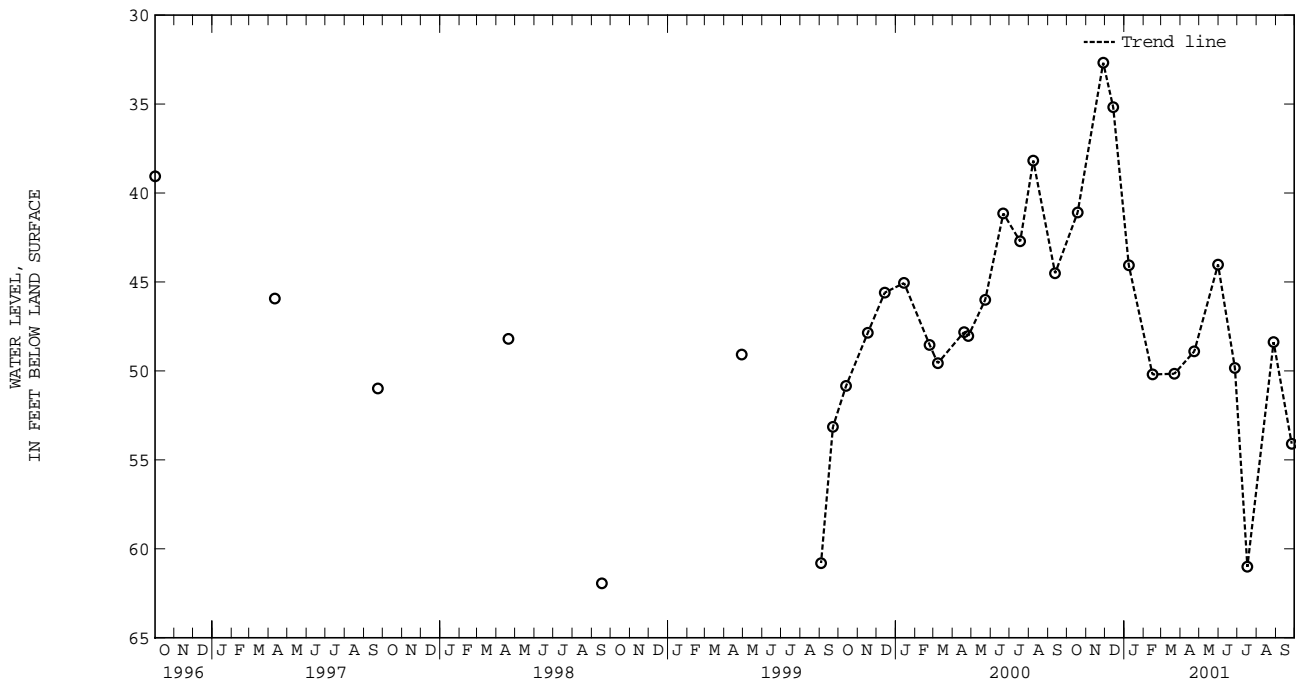
CALVERT COUNTY--Continued

WELL NUMBER.--CA Bc 25. SITE ID.--384114076320301. PERMIT NUMBER.--CA-67-0011.  
 LOCATION.--Lat 38°41'14", long 76°32'03", Hydrologic Unit 02060004, at Chesapeake Beach Park, Chesapeake Beach.  
 Owner: Chesapeake Beach Park, Inc..  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 365 ft; casing diameter 8 in., to 333.4 ft;  
 screen diameter 8 in. from 333.4 to 365 ft.  
 INSTRUMENTATION.--Twice yearly measurements from June 1993 to September 1999 with electric tape by U.S. Geological Survey  
 or Maryland Geological Survey personnel. Monthly measurements from September 1999 to current year.  
 DATUM.--Elevation of land surface is 17.77 ft above sea level.  
 Measuring point: Top of casing, 3.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--June 1993 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.00 ft below land surface, July 23, 1966;  
 lowest measured, 61.95 ft below land surface, Sep. 17, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	41.10	JAN 08, 2001	44.06	APR 23, 2001	48.90	JUL 17, 2001	61.01
NOV 28	32.68	FEB 15	50.20	MAY 31	44.02	AUG 28	48.38
DEC 14	35.17	MAR 22	50.16	JUN 27	49.83	SEP 26	54.09

WATER YEAR 2001    HIGHEST    32.68    NOV 28, 2000    LOWEST    61.01    JUL 17, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CALVERT COUNTY--Continued

WELL NUMBER.--CA Cc 18. SITE ID.--383940076314801.

LOCATION.--Lat 38°39'40", long 76°31'48", Hydrologic Unit 02060004, at Naval Research Laboratory, Randle Cliff.

Owner: U.S.Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 476 ft; casing diameter 6 in., to 462 ft; screened from 462 to 476 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with water-level recorder Sept. 15, 1958 to Dec. 7, 1962.

DATUM.--Elevation of land surface is 111.31 ft above sea level.

Measuring point: Top of casing, 0.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured 76.68 ft below land surface, Sept. 10, 1952.

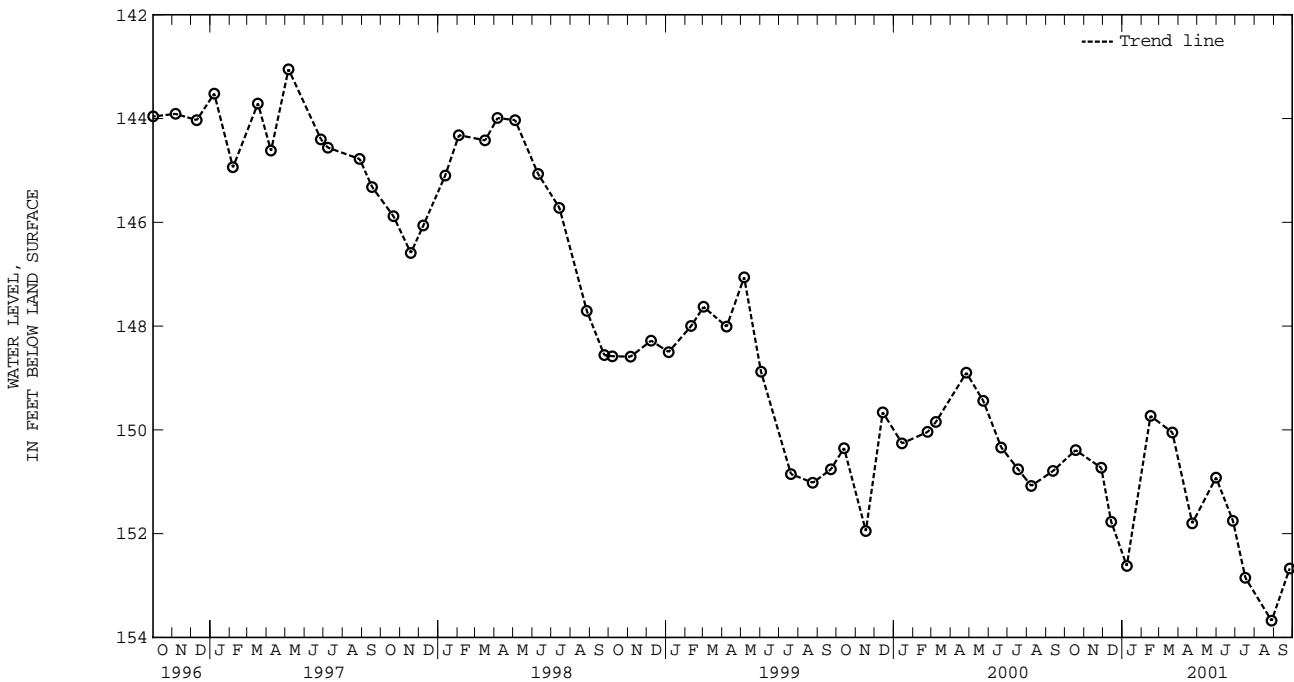
Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--September 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.63 ft below land surface, May 14, 1961; lowest measured, 153.68 ft below land surface, Aug. 28, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	150.39	JAN 08, 2001	152.62	APR 23, 2001	151.80	JUL 17, 2001	152.85
NOV 28	150.73	FEB 15	149.73	MAY 31	150.92	AUG 28	153.68
DEC 14	151.77	MAR 22	150.05	JUN 27	151.75	SEP 26	152.67
WATER YEAR 2001		HIGHEST 149.73	FEB 15, 2001	LOWEST 153.68		AUG 28, 2001	



CALVERT COUNTY--Continued

WELL NUMBER.--CA Cc 57. SITE ID.--383605076344601. PERMIT NUMBER.--CA-73-2893.

LOCATION.--Lat 38°36'05", long 76°34'46", Hydrologic Unit 02060006, Cox Rd. near MD Rt. 263, Huntingtown.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 579 ft; casing diameter 4 in., to 211 ft; casing diameter 2 in. from 211 to 511 ft, and 521 to 579 ft; screen diameter 3 in. from 511 to 521 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 138.6 ft above sea level.

Measuring point: Top of casing, 1.66 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--December 1978 to current year.

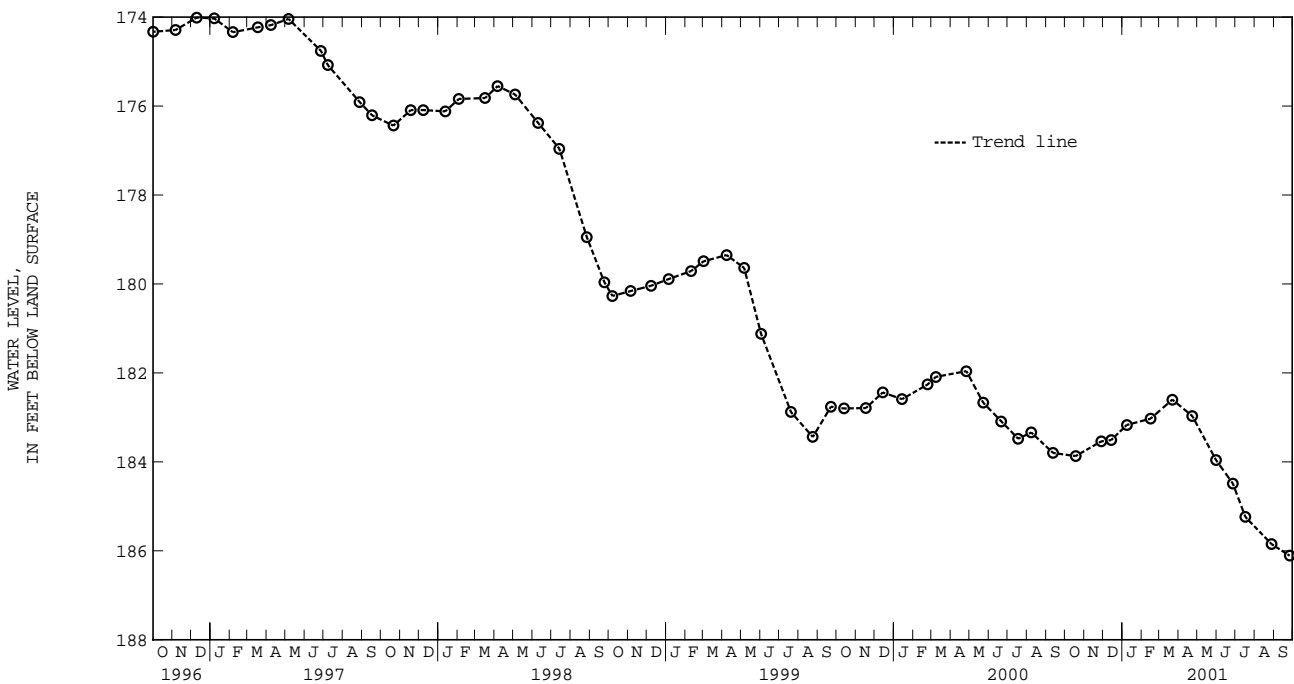
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 140.00 ft below land surface, March 7, 1979;

lowest measured, 186.11 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	183.87	JAN 08, 2001	183.17	APR 23, 2001	182.97	JUL 17, 2001	185.24
NOV 28	183.54	FEB 15	183.03	MAY 31	183.96	AUG 28	185.85
DEC 14	183.51	MAR 22	182.60	JUN 27	184.49	SEP 26	186.11

WATER YEAR 2001 HIGHEST 182.60 MAR 22, 2001 LOWEST 186.11 SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Db 47. SITE ID.--383239076354201. PERMIT NUMBER.--CA-73-3304.

LOCATION.--Lat 38°32'39", long 76°35'42", Hydrologic Unit 02060006, near Prince Frederick.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 570 ft; casing diameter 4 in., to 483 ft; casing diameter 2 in. from 483 to 560 ft; screen diameter 2 in. from 560 to 570 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 140 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.20 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

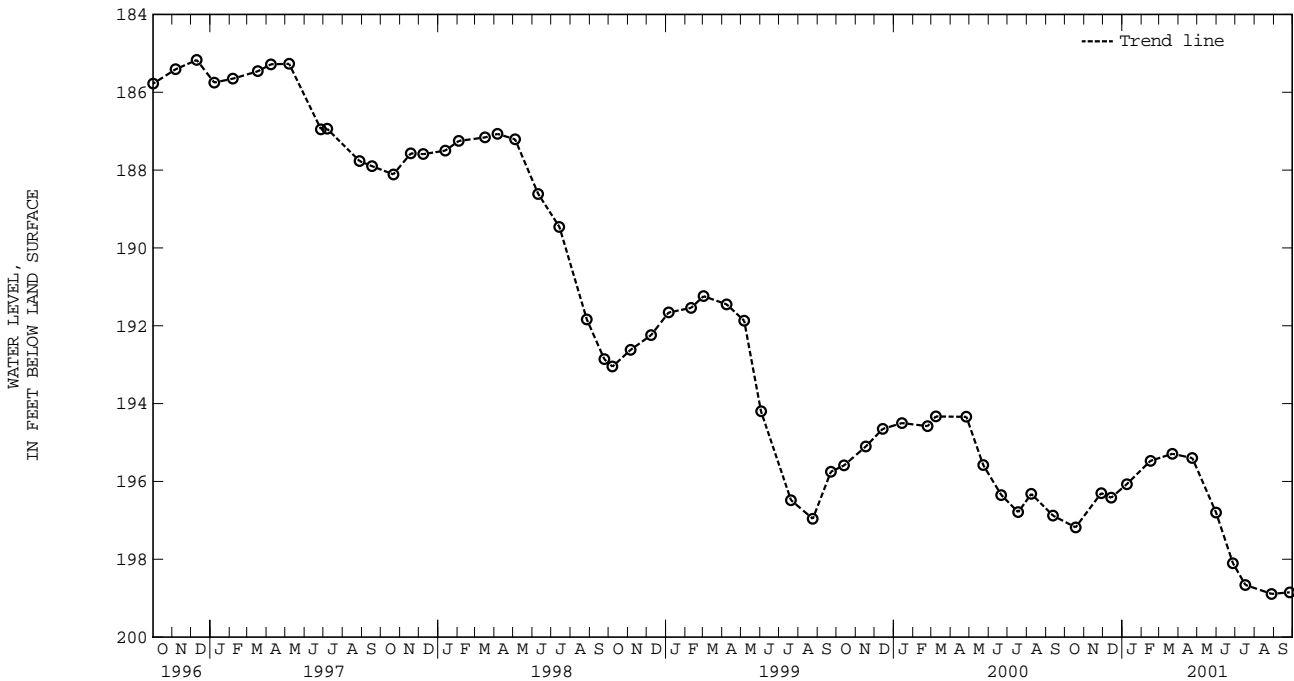
PERIOD OF RECORD.--July 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 148.54 ft below land surface, July 31, 1979; lowest measured, 198.89 ft below land surface, Aug. 28, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	197.18	JAN 08, 2001	196.07	APR 23, 2001	195.40	JUL 17, 2001	198.66
NOV 28	196.30	FEB 15	195.47	MAY 31	196.80	AUG 28	198.89
DEC 14	196.42	MAR 22	195.29	JUN 27	198.10	SEP 26	198.85

WATER YEAR 2001 HIGHEST 195.29 MAR 22, 2001 LOWEST 198.89 AUG 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CALVERT COUNTY--Continued

WELL NUMBER.--CA Db 65. SITE ID.--383216076351401. PERMIT NUMBER.--CA-81-2415.

LOCATION.--Lat 38°32'16", long 76°35'14", Hydrologic Unit 02060006, at St. Paul's Episcopal Church parking lot, Prince Frederick.

Owner: U.S. Geological Survey.

AQUIFER.--Brandywine Formation of Pliocene age. Aquifer code: 121BRND.

WELL CHARACTERISTICS.--Drilled, water-table, observation well, depth 49 ft; casing diameter 3 in., to 22 ft, and 32 to 49 ft; screen diameter 3 in. from 22 to 32 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 159.33 ft above sea level.

Measuring Point: Top of plastic PVC casing, 2.38 ft above land surface.

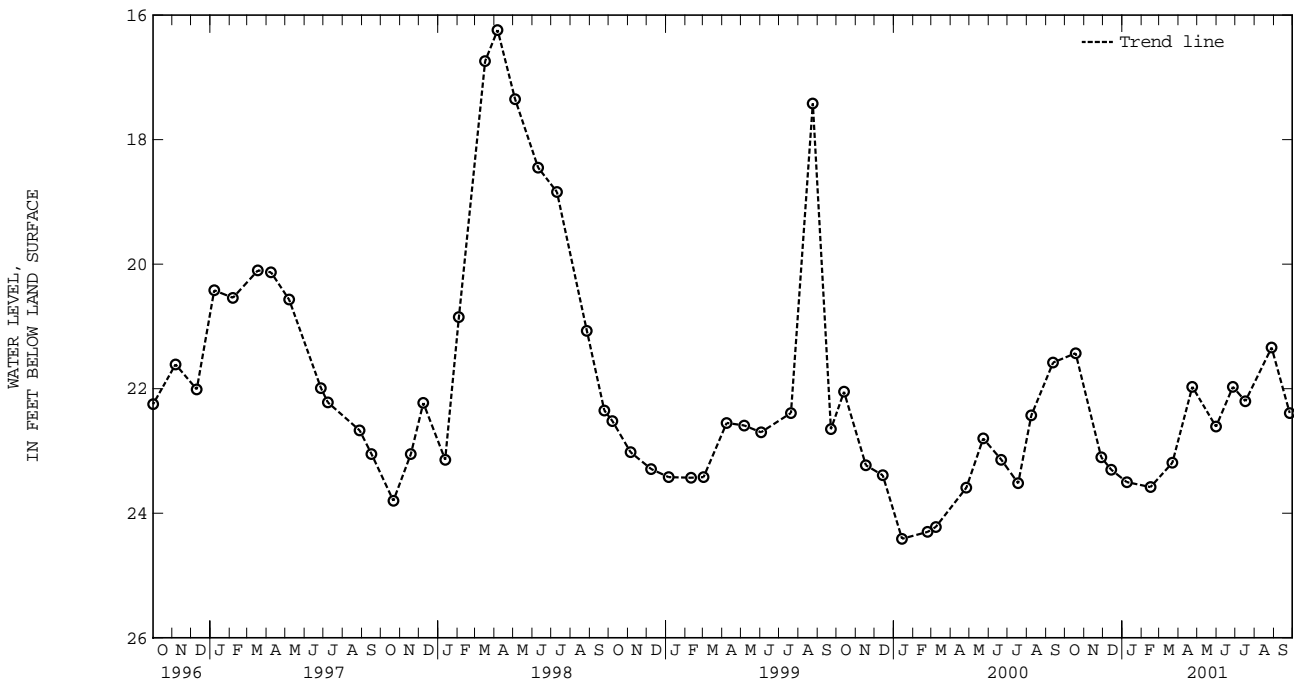
REMARKS.--Maryland Water-Level Network observation well,

PERIOD OF RECORD.--August 1986, October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.64 ft below land surface, May 9, 1990;  
lowest measured, 27.09 ft below land surface, Feb. 14, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	21.43	JAN 08, 2001	23.50	APR 23, 2001	21.97	JUL 17, 2001	22.20
NOV 28	23.10	FEB 15	23.58	MAY 31	22.61	AUG 28	21.34
DEC 14	23.30	MAR 22	23.19	JUN 27	21.97	SEP 26	22.39
WATER YEAR 2001 HIGHEST 21.34		AUG 28, 2001		LOWEST 23.58		FEB 15, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CALVERT COUNTY--Continued

WELL NUMBER.--CA Dc 35. SITE ID.--383050076305501. PERMIT NUMBER.--CA-73-0718.

LOCATION.--Lat 38°30'50", long 76°30'55", Hydrologic Unit 02060004, 5.1 mi. southeast of Prince Frederick. at Scientist Cliff community.

Owner: U.S. Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 760 ft; casing diameter 4 in., to 750 ft; screen diameter 2 in. from 750 to 760 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel from November 1991 to current year. Equipped with water-level recorder from February 1976 to January 1980.

DATUM.--Elevation of land surface is 91.60 ft above sea level.

Measuring Point: Top of casing, 1.90 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

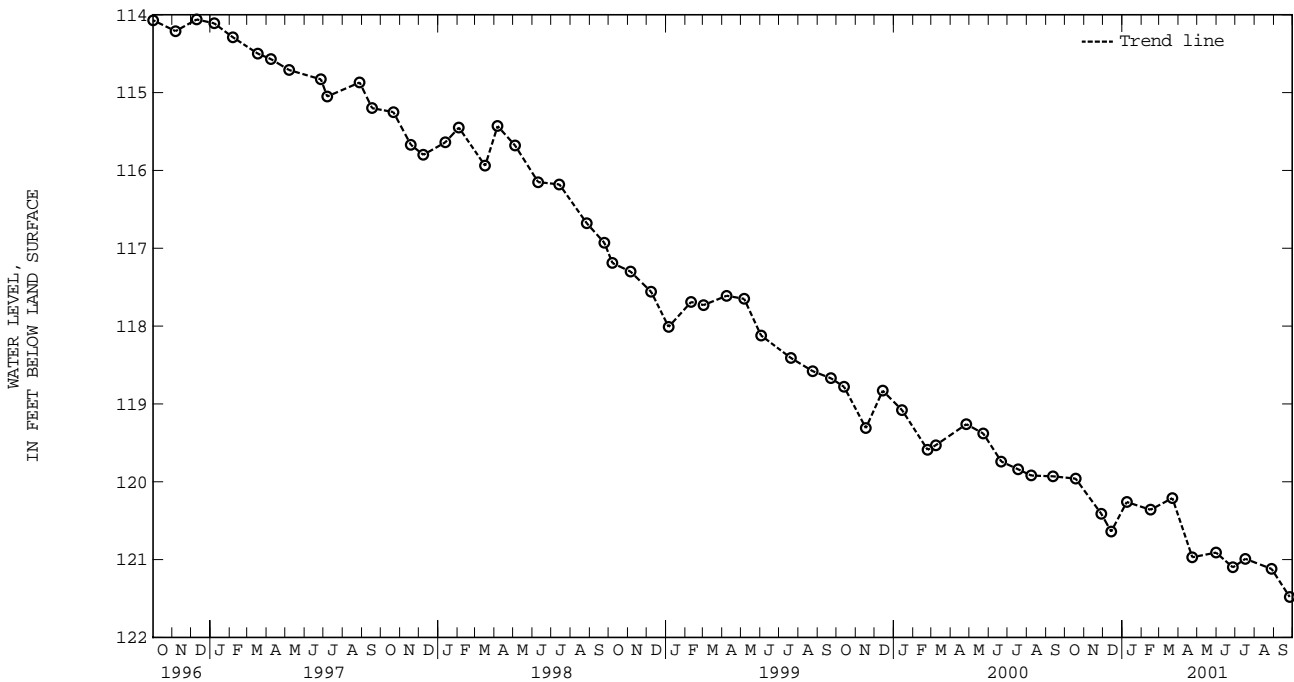
PERIOD OF RECORD.--October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.30 ft below land surface, Sept. 12, 1975. lowest measured, 121.48 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	119.96	JAN 08, 2001	120.26	APR 23, 2001	120.97	JUL 17, 2001	120.99
NOV 28	120.41	FEB 15	120.36	MAY 31	120.91	AUG 28	121.12
DEC 14	120.64	MAR 22	120.21	JUN 27	121.10	SEP 26	121.48

WATER YEAR 2001 HIGHEST 119.96 OCT 18, 2000 LOWEST 121.48 SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## CALVERT COUNTY--Continued

WELL NUMBER.--CA Ed 52. SITE ID.--382549076260101. PERMIT NUMBER.--CA-92-0081.

LOCATION.--Lat 38°25'49", long 76°26'01", Hydrologic Unit 020600004, at Calvert Cliffs Nuclear Power Plant, 4.3 mi. southeast of St. Leonard.

Owner: Baltimore Gas and Electric Co.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 590 ft; casing diameter 4.5 in., to 460 ft; casing diameter 2 in. from 455 to 565 ft, and 580 to 590 ft; screen diameter 2 in. from 565 to 580 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from April 27, 1995 to current year.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring Point: Top of shelter platform, 1.4 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal..

PERIOD OF RECORD.--April 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.66 ft below sea level, May 21, 1995; lowest measured, 105.83 ft below sea level, Sept. 21, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-93.03	-95.59	-92.97	-94.67	-91.25	-93.06	-92.54	-93.32	-91.16	-92.14	-91.39	-92.31
2	-93.92	-95.93	-92.63	-93.55	-91.39	-93.43	-92.51	-93.43	-91.33	-91.97	-91.31	-92.14
3	-94.35	-96.14	-92.54	-94.24	-92.20	-92.97	-92.46	-93.38	-91.48	-94.18	-91.22	-92.02
4	-93.43	-95.33	-93.55	-94.76	-92.28	-93.98	-92.26	-93.26	-91.57	-93.32	-90.65	-91.88
5	-94.96	-96.19	-94.15	-95.02	-92.86	-94.12	-92.14	-93.12	-91.11	-91.88	-90.53	-91.85
6	-95.45	-96.39	-93.41	-94.47	-92.97	-93.78	-92.08	-93.03	-90.88	-91.77	-91.36	-92.23
7	-94.27	-95.88	-93.84	-95.19	-92.66	-93.66	-92.00	-92.57	-91.02	-92.00	-91.77	-93.84
8	-93.84	-94.84	-93.43	-94.35	-92.43	-93.26	-91.97	-92.89	-91.48	-92.43	-91.68	-92.54
9	-93.29	-94.61	-92.77	-94.18	-92.57	-93.55	-92.05	-93.26	-91.94	-93.66	-91.28	-93.00
10	-92.51	-93.58	-92.26	-93.26	-92.57	-93.43	-92.23	-93.26	-92.00	-93.98	-92.23	-93.61
11	-92.11	-92.80	-92.14	-93.09	-92.60	-93.55	-92.37	-94.99	-92.37	-93.52	-91.39	-92.26
12	-91.51	-92.43	-91.82	-92.95	-92.34	-93.89	-93.00	-94.93	-92.28	-94.15	-91.39	-92.57
13	-91.13	-92.05	-91.88	-93.35	-93.26	-94.15	-92.17	-93.43	-92.40	-93.84	-91.31	-92.14
14	-90.70	-92.08	-92.60	-93.66	-92.69	-93.61	-91.79	-92.74	-91.85	-92.80	-91.45	-92.34
15	-92.02	-97.43	-92.74	-94.30	-92.97	-95.02	-91.85	-92.83	-91.59	-92.63	-91.71	-92.63
16	-93.52	-95.02	-93.84	-95.50	-91.65	-94.24	-92.05	-94.07	-91.79	-92.92	-92.26	-94.27
17	-93.69	-94.99	-94.33	-95.73	-91.39	-93.92	-91.33	-92.86	-92.46	-93.78	-91.74	-92.63
18	-92.14	-94.07	-94.64	-95.91	-93.41	-94.47	-91.36	-94.84	-92.20	-93.18	-91.94	-94.30
19	-92.97	-94.76	-94.73	-98.18	-92.80	-93.84	-91.59	-93.98	-91.85	-92.69	-92.37	-93.95
20	-93.29	-94.21	-96.11	-98.64	-92.86	-93.61	-90.88	-92.17	-91.79	-92.83	-92.05	-92.83
21	-93.35	-94.67	-95.07	-96.51	-92.66	-93.61	-90.73	-91.65	-91.97	-92.69	-91.19	-92.20
22	-94.33	-95.71	-94.67	-95.65	-92.51	-95.30	-90.39	-91.33	-92.02	-92.92	-90.59	-91.68
23	-94.93	-96.48	-94.24	-95.33	-94.01	-96.22	-90.10	-91.05	-91.85	-92.63	-90.27	-91.02
24	-95.33	-97.00	-93.72	-94.70	-93.00	-94.30	-89.58	-90.99	-91.74	-92.54	-89.87	-90.82
25	-95.82	-97.34	-92.97	-94.24	-93.38	-94.38	-89.93	-91.51	-90.96	-92.23	-89.84	-90.53
26	-94.81	-97.06	-92.37	-93.49	-93.63	-94.70	-91.16	-92.05	-90.85	-92.08	-89.29	-90.50
27	-93.38	-94.96	-92.66	-93.84	-93.38	-95.04	-90.90	-91.51	-91.42	-92.28	-89.81	-90.53
28	-92.92	-94.70	-93.03	-94.01	-93.29	-94.09	-91.39	-92.00	-91.31	-92.57	-89.64	-90.27
29	-93.84	-94.87	-92.77	-94.44	-92.60	-93.86	-90.67	-92.43	---	---	-89.12	-90.13
30	-93.75	-94.93	-91.25	-93.41	-92.02	-92.92	-90.85	-92.20	---	---	-88.49	-89.38
31	-92.86	-94.24	---	---	-92.31	-93.03	-90.79	-91.91	---	---	-88.20	-89.09
MONTH	-90.70	-97.43	-91.25	-98.64	-91.25	-96.22	-89.58	-94.99	-90.85	-94.18	-88.20	-94.30

GROUND-WATER LEVELS IN MARYLAND--Continued

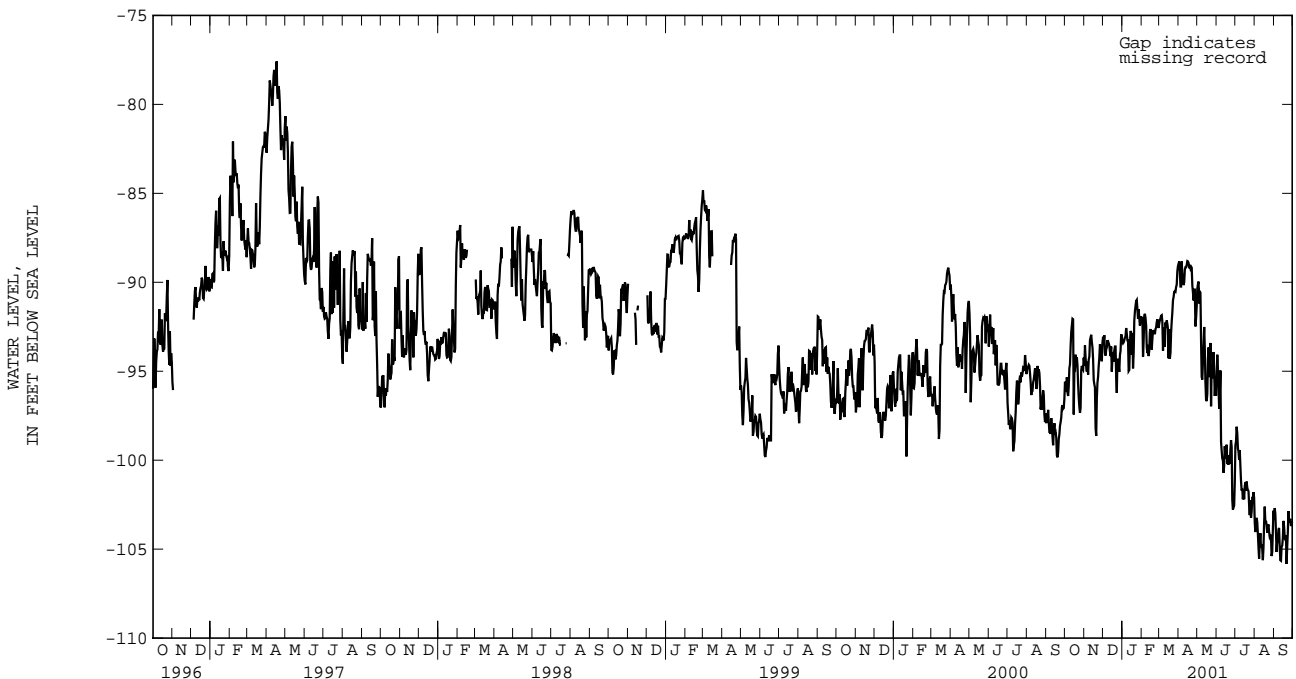
CALVERT COUNTY--Continued

CA Ed 52--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-88.09	-88.95	-89.47	-90.36	-93.32	-94.99	-97.00	-99.16	-101.22	-103.52	-102.17	-103.35
2	-88.06	-88.83	-89.27	-90.10	-92.80	-94.07	-96.65	-98.95	-101.77	-104.04	-101.46	-102.69
3	-88.06	-89.41	-89.01	-89.96	-92.63	-94.87	-95.88	-98.12	-101.60	-103.73	-100.91	-103.01
4	-88.98	-90.24	-88.89	-91.19	-93.35	-95.91	-96.68	-98.49	-101.25	-103.24	-101.66	-104.04
5	-88.69	-90.24	-89.61	-90.53	-94.41	-97.11	-97.40	-99.33	-101.43	-103.47	-102.58	-105.16
6	-87.45	-88.83	-89.84	-90.59	-94.67	-96.34	-98.29	-99.53	-101.66	-104.13	-103.12	-104.56
7	-88.34	-89.58	-89.87	-93.35	-93.72	-94.96	-98.21	-99.99	-101.97	-104.91	-102.49	-104.65
8	-88.78	-89.61	-91.91	-95.33	-93.52	-98.98	-98.12	-99.44	-101.83	-105.54	-100.62	-103.90
9	-88.78	-90.16	-92.92	-95.47	-97.95	-99.47	-99.10	-100.33	-101.89	-104.65	-101.68	-103.81
10	-89.03	-89.98	-93.20	-94.47	-98.44	-99.90	-99.67	-101.17	-102.14	-104.10	-102.32	-104.88
11	-88.40	-89.29	-92.05	-93.46	-98.78	-100.02	-100.05	-101.71	-102.55	-104.91	-103.50	-105.62
12	-88.17	-89.15	-91.62	-92.51	-98.52	-100.71	-97.29	-101.60	-102.92	-104.73	-103.75	-105.65
13	-88.23	-89.15	-92.20	-93.72	-95.22	-100.31	-100.10	-102.20	-103.21	-104.99	-103.29	-104.88
14	-88.29	-89.03	-93.72	-95.62	-97.20	-99.21	-99.50	-101.68	-103.75	-105.62	-103.12	-104.79
15	-88.00	-88.81	-93.89	-96.60	-97.57	-99.93	-99.70	-102.20	-102.61	-104.93	-102.61	-104.39
16	-87.91	-88.83	-94.47	-96.68	-98.01	-99.47	-99.13	-101.46	-99.70	-103.52	-102.26	-103.41
17	-88.09	-88.92	-94.24	-96.28	-97.92	-99.13	-99.90	-101.25	-100.05	-102.61	-101.80	-103.73
18	-88.55	-89.21	-93.41	-94.33	-97.75	-100.22	-99.41	-101.71	-101.68	-103.52	-101.92	-104.30
19	-88.32	-89.03	-92.63	-93.66	-98.55	-99.82	-100.08	-101.20	-102.03	-103.41	-102.95	-104.50
20	-88.23	-89.21	-92.43	-95.10	-98.90	-100.25	-99.38	-101.54	-102.43	-103.64	-103.01	-104.24
21	-88.29	-89.12	-93.35	-95.33	-98.38	-99.73	-99.67	-101.68	-101.80	-104.07	-104.04	-105.83
22	-88.29	-89.18	-92.80	-93.41	-98.64	-100.19	-99.64	-101.74	-102.32	-103.75	-102.81	-104.85
23	-88.69	-90.18	-92.37	-96.97	-97.80	-99.41	-99.84	-102.55	-102.26	-103.61	-100.31	-104.07
24	-89.50	-90.56	-93.41	-94.64	-97.72	-98.87	-100.42	-103.09	-102.40	-104.04	-99.96	-102.86
25	-89.96	-91.02	-93.61	-95.39	-97.72	-99.24	-100.62	-102.26	-102.92	-104.30	-102.12	-103.47
26	-89.27	-90.41	-93.32	-94.81	-98.23	-102.23	-101.48	-103.24	-102.12	-104.22	-101.89	-103.47
27	-89.38	-90.41	-92.71	-93.92	-99.90	-102.78	-101.28	-102.89	-102.26	-104.24	-102.20	-103.29
28	-89.90	-92.48	-92.60	-95.07	-100.62	-102.66	-100.39	-102.12	-103.29	-105.39	-102.46	-103.70
29	-90.85	-92.02	-93.29	-96.39	-100.82	-102.55	-100.31	-102.12	-103.81	-105.16	-102.32	-103.58
30	-89.96	-91.36	-93.69	-95.53	-98.18	-101.25	-100.65	-101.80	-101.57	-103.96	-101.74	-103.47
31	---	---	-93.72	-96.37	---	---	-100.94	-102.12	-101.57	-102.84	---	---
MONTH	-87.45	-92.48	-88.89	-96.97	-92.63	-102.78	-95.88	-103.24	-99.70	-105.62	-99.96	-105.83
YEAR	-87.45	-105.83										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

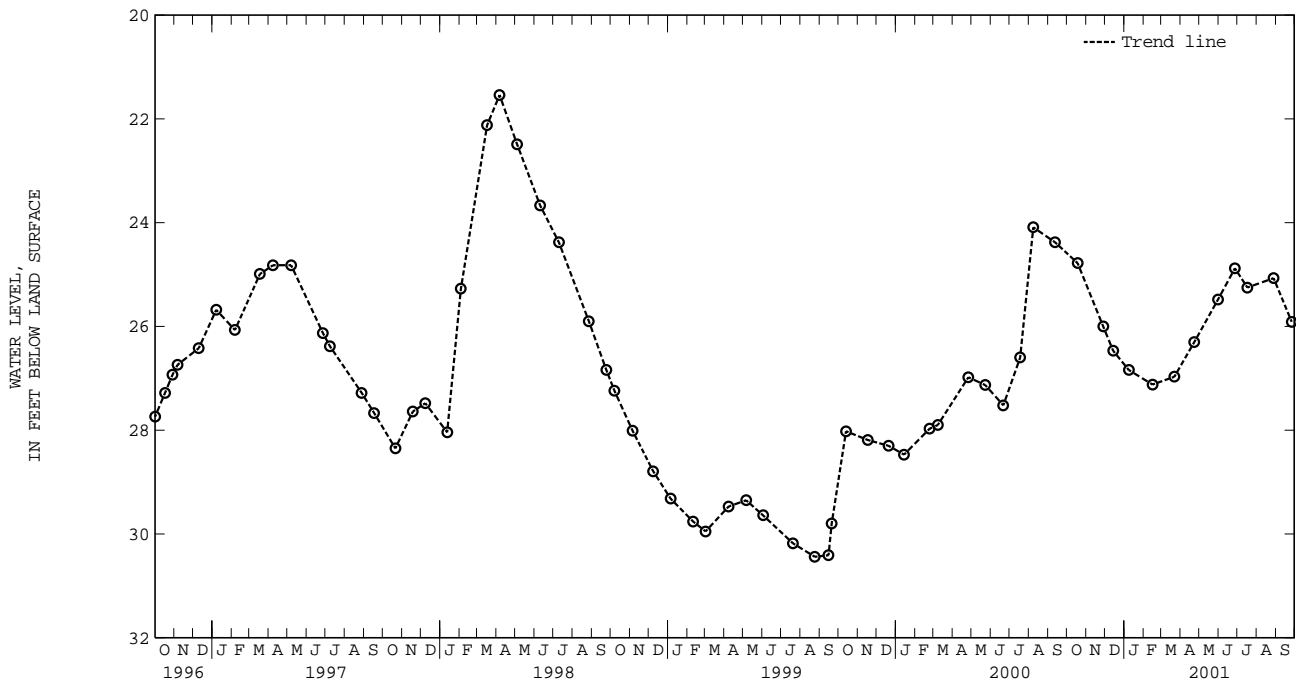
CALVERT COUNTY--Continued

WELL NUMBER.--CA Fc 13. SITE ID.--382343076302901. PERMIT NUMBER.--CA-81-2391.  
 LOCATION.--Lat 38°23'41", long 76°30'29", Hydrologic Unit 02060006, Jefferson Patterson State Park and Museum.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Choptank-St. Mary's undivided, Chesapeake Group of Miocene age. Aquifer code: 122CSPK.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 34 ft; casing diameter 3.5 in., to 29 ft; screen diameter 3.5 in. from 29 to 34 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with digital water-level recorder--60-minute recorder interval from Oct. 2, 1986 to April 16, 1996.  
 DATUM.--Elevation of land surface is 47.44 ft above sea level.  
 Measuring Point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well, Maryland Water Quality Network observation well.  
 PERIOD OF RECORD.--October 1986 to November 1995, September 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.54 ft below land surface, April 6, 1998;  
 lowest measured, 30.69 ft below land surface, Feb. 27, 28, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	24.78	JAN 08, 2001	26.84	APR 23, 2001	26.30	JUL 17, 2001	25.25
NOV 28	26.00	FEB 15	27.12	MAY 31	25.48	AUG 28	25.07
DEC 14	26.47	MAR 22	26.97	JUN 27	24.88	SEP 26	25.91

WATER YEAR 2001    HIGHEST    24.78    OCT 18, 2000    LOWEST    27.12    FEB 15, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fd 51. SITE ID.--382408076260401. PERMIT NUMBER.--CA-73-1449.

LOCATION.--Lat 38°24'08", long 76°26'04", Hydrologic Unit 02060004, at Calvert Cliffs State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 352 ft; casing diameter 6 in., to 140 ft; casing diameter 2 in. from 140 to 342 ft; screen diameter 2 in. from 342 to 352 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 129.4 ft above sea level.

Measuring point: Top of protective casing, 3.63 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--February 1977 to current year.

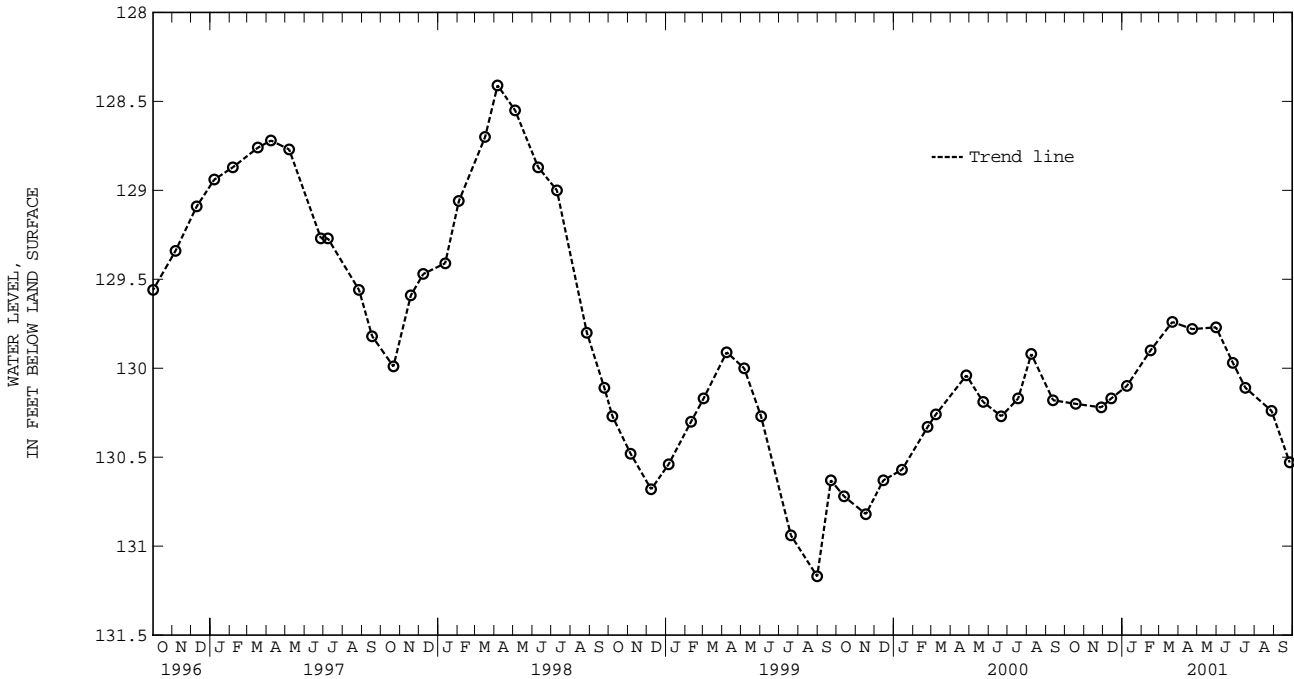
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 116.36 ft below land surface, Jan. 8, 1980;

lowest measured, 131.17 ft below land surface, Aug. 31, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	130.20	JAN 08, 2001	130.10	APR 23, 2001	129.78	JUL 17, 2001	130.11
NOV 28	130.22	FEB 15	129.90	MAY 31	129.77	AUG 28	130.24
DEC 14	130.17	MAR 22	129.74	JUN 27	129.97	SEP 26	130.53

WATER YEAR 2001 HIGHEST 129.74 MAR 22, 2001 LOWEST 130.53 SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fd 54. SITE ID.--382407076260301. PERMIT NUMBER.--CA-73-2892.

LOCATION.--Lat 38°24'07", long 76°26'03", Hydrologic Unit 02060004, at Calvert Cliffs State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 698 ft; casing diameter 4 in., to 234 ft; casing diameter 2 in. from 234 to 641 ft, and 651 to 698 ft; screen diameter 3 in. from 641 to 651 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 129.4 ft above sea level.

Measuring point: Top of casing, 1.92 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

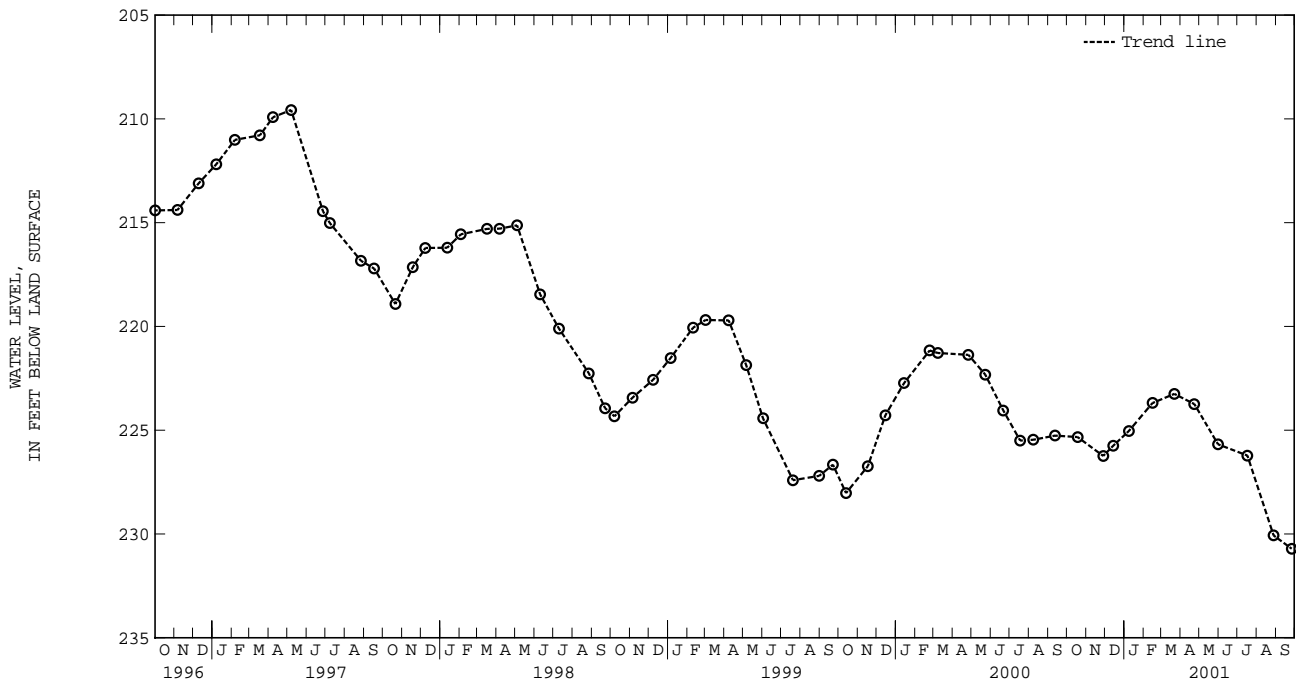
PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.69 ft below land surface, April 21, 1980; lowest measured, 230.71 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	225.33	JAN 08, 2001	225.04	APR 23, 2001	223.74	AUG 28, 2001	230.07
NOV 28	226.24	FEB 15	223.69	MAY 31	225.68	SEP 26	230.71
DEC 14	225.75	MAR 22	223.25	JUL 17	226.22		

WATER YEAR 2001 HIGHEST 223.25 MAR 22, 2001 LOWEST 230.71 SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fe 22. SITE ID.--382318076242401. PERMIT NUMBER.--CA-73-1386.

LOCATION.--Lat 38°23'18", long 76°24'24", Hydrologic Unit 02060004, at Williams LNG Plant, Cove Point.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 350 ft; casing diameter 6 in., to 10 ft; casing diameter 2 in. from 10 to 340 ft; screen diameter 2 in. from 340 to 350 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 113.89 ft above sea level.

Measuring point: Top of casing, 2.82 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

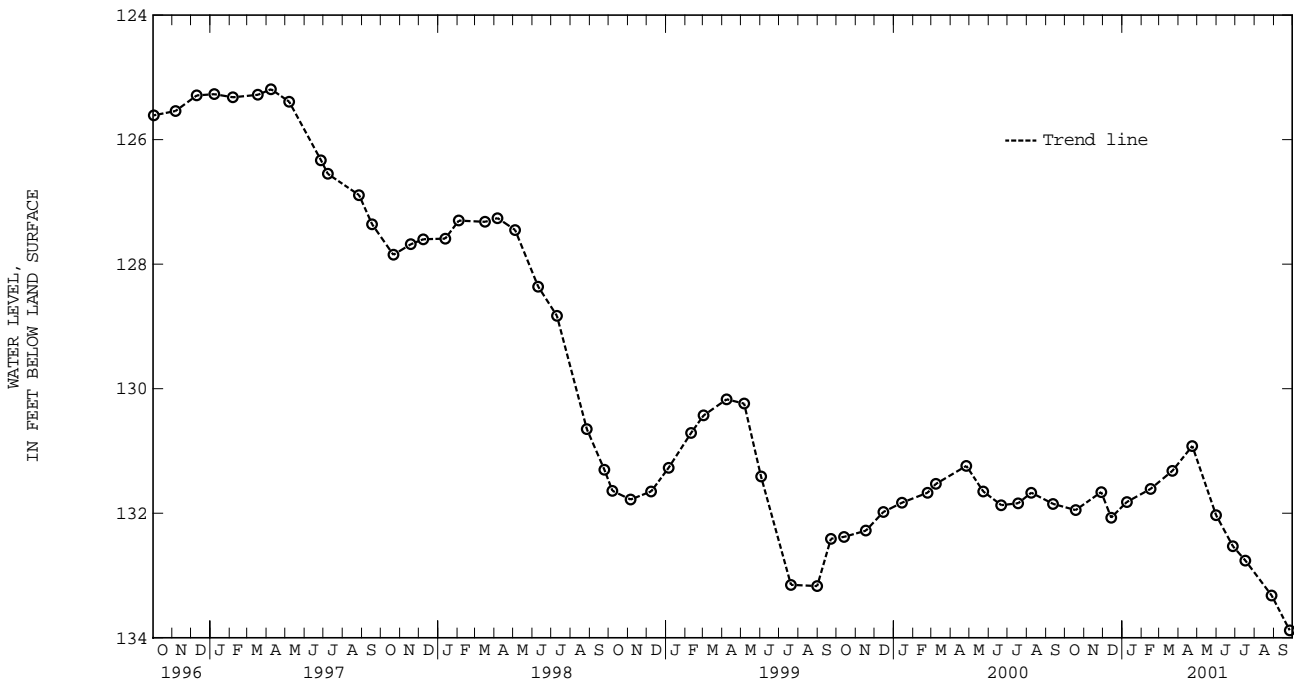
PERIOD OF RECORD.--June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 111.50 ft below land surface, Oct. 5, 1976; lowest measured, 133.88 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	131.95	JAN 08, 2001	131.82	APR 23, 2001	130.92	JUL 17, 2001	132.76
NOV 28	131.66	FEB 15	131.61	MAY 31	132.03	AUG 28	133.32
DEC 14	132.07	MAR 22	131.32	JUN 27	132.53	SEP 26	133.88

WATER YEAR 2001 HIGHEST 130.92 APR 23, 2001 LOWEST 133.88 SEP 26, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CALVERT COUNTY--Continued

WELL NUMBER.--CA Gd 6. SITE ID.--381952076270901.

LOCATION.--Lat 38°19'52", long 76°27'09", Hydrologic Unit 02060006, at the Lord Calvert Yacht Club, 0.5 mi northeast of Solomons.

Owner: Calvert Marina.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 493 ft; casing diameter 8 in., to 272 ft; casing diameter 6 in. from 272 to 472 ft; screened from 472 to 493 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with a graphic water-level recorder from Oct. 19, 1949 to Feb. 25, 1960.

DATUM.--Elevation of land surface is 12.73 ft above sea level.

Measuring point: Top of manhole rim, 6.59 ft above land surface.

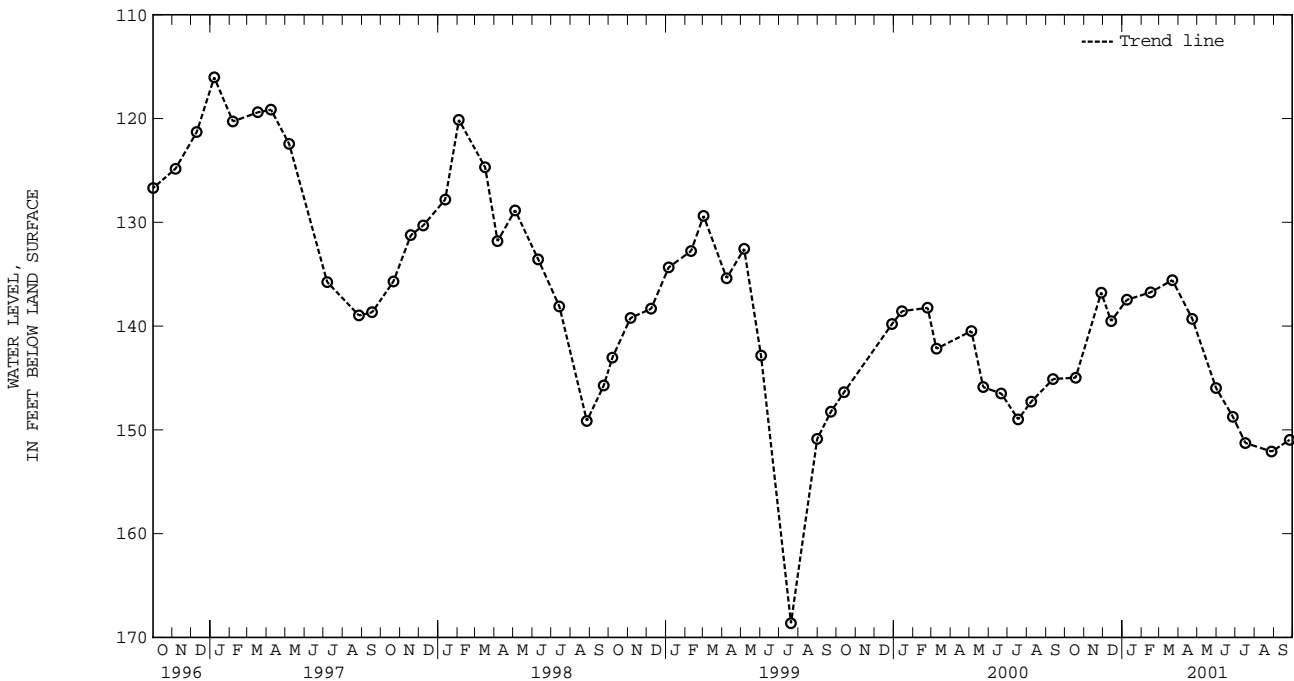
REMARKS.--Maryland Water-Level Network observation well. Water level reported at land surface 1942; water-level measured 58.9 ft below land surface, Jan. 13, 1944. Well not measured from April through July 1988 during building construction at well site. On July 18, 1991 the water-level measured, 119.93 ft below land surface during an extended pumping period. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.-- October 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.15 ft below land surface, May 18, 1950; lowest measured, 168.63 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	144.97	JAN 08, 2001	137.47	APR 23, 2001	139.30	JUL 17, 2001	151.26
NOV 28	136.77	FEB 15	136.75	MAY 31	145.97	AUG 28	152.09
DEC 14	139.52	MAR 22	135.57	JUN 27	148.74	SEP 26	150.96
WATER YEAR 2001		HIGHEST	135.57	MAR 22, 2001	LOWEST	152.09	AUG 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CAROLINE COUNTY

WELL NUMBER.--CO Bc 1. SITE ID.--390333075504501.

LOCATION.--Lat 39°03'33", long 75°50'45", Hydrologic Unit 02060005, at Baltimore Corner.

Owner: Maryland State Highway Administration.

AQUIFER.--Pensauken Formation (fluvial facies) of Miocene age. Aquifer code: 122PNSK.

WELL CHARACTERISTICS.--Driven, observation, water-table well, depth 20.5 ft; well point diameter 1.25 in., to 20.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 54 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.10 ft below land surface.

REMARKS.--Maryland Water-Level Network observation well.

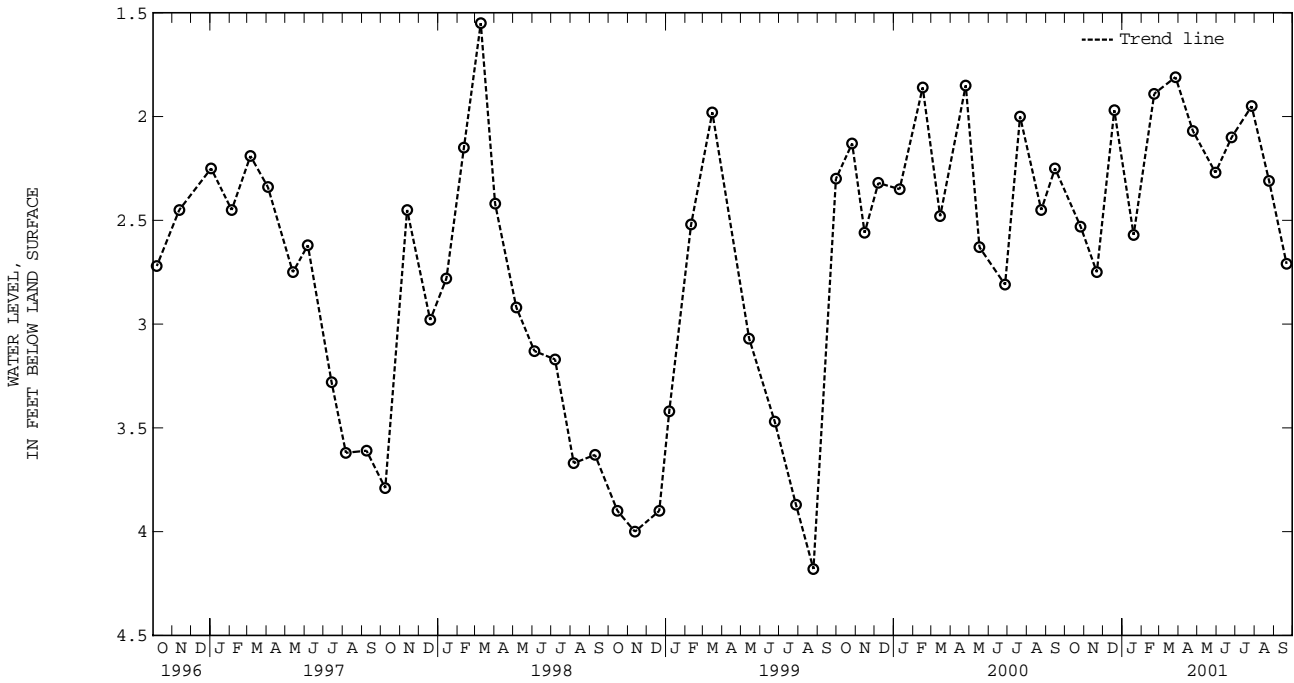
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft above land surface, Nov. 27, 1951;

lowest measured, 4.37 ft below land surface, Oct. 11, 1957.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	2.53	JAN 19, 2001	2.57	APR 24, 2001	2.07	JUL 27, 2001	1.95
NOV 21	2.75	FEB 21	1.89	MAY 30	2.27	AUG 24	2.31
DEC 19	1.97	MAR 27	1.81	JUN 25	2.10	SEP 21	2.71
WATER YEAR 2001 HIGHEST		1.81	MAR 27, 2001 LOWEST		2.75	NOV 21, 2000	





CAROLINE COUNTY--Continued

WELL NUMBER.--CO Bd 53. SITE ID.--390227075470201. PERMIT NUMBER.--CO-73-0541.

LOCATION.--Lat 39°02'27", long 75°47'02", Hydrologic Unit 02060005, near MD Rt. 311, Goldsboro.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 312 ft; casing diameter 6 in., to 70 ft; casing diameter 2 in. from 70 to 300 ft; screen diameter 2 in. from 300 to 312 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.45 ft above land surface.

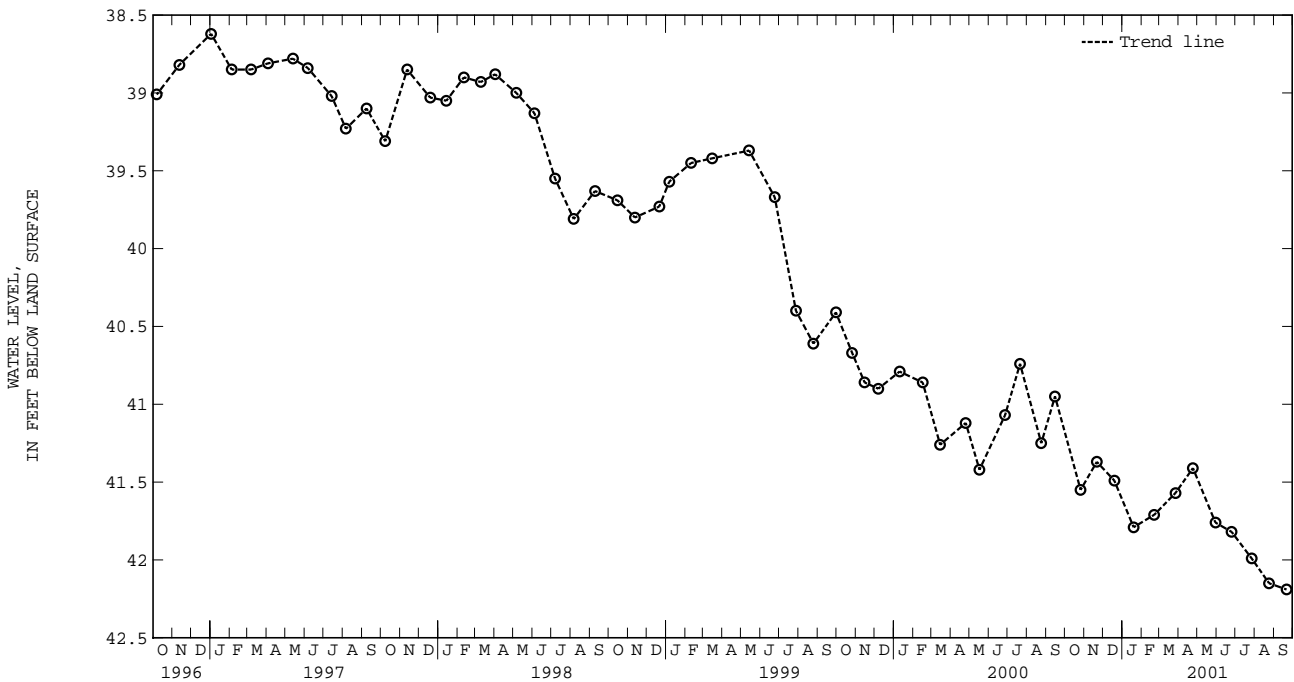
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.64 ft below land surface, Dec. 10, 1976; lowest measured, 42.19 ft below land surface, Sept. 21, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	41.55	JAN 19, 2001	41.79	APR 24, 2001	41.41	JUL 27, 2001	41.99
NOV 21	41.37	FEB 21	41.71	MAY 30	41.76	AUG 24	42.15
DEC 19	41.49	MAR 27	41.57	JUN 25	41.82	SEP 21	42.19
WATER YEAR 2001 HIGHEST 41.37 NOV 21, 2000		LOWEST 42.19		SEP 21, 2001			



CARROLL COUNTY

WELL NUMBER.--CL Ad 47. SITE ID.--394008077005601. PERMIT NUMBER.--CL-73-3178.

LOCATION.--Lat 39°40'08", long 77°00'56", Hydrologic Unit 02070009, at Union Mills Homestead Park.

Owner: U.S. Geological Survey.

AQUIFER.--Marburg Formation of Paleozoic age. Aquifer code: 300MRBG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 310 ft; casing diameter 6 in., to 35 ft.; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 540 ft above sea level, from topographic map.

Measuring point: Top of casing 2.97 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

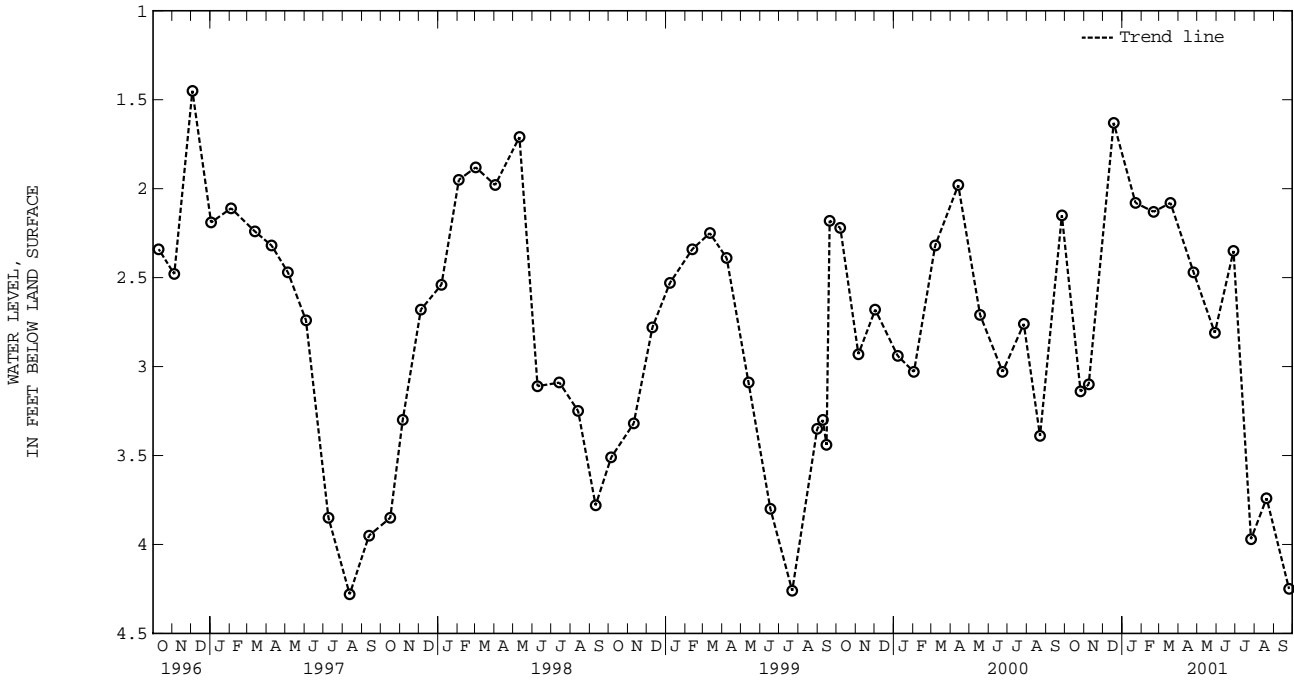
PERIOD OF RECORD.--August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft below land surface, Jan. 29, 1996;

lowest measured, 4.28 ft below land surface, August 12, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	3.14	JAN 22, 2001	2.08	APR 25, 2001	2.47	JUL 26, 2001	3.97
NOV 08	3.10	FEB 20	2.13	MAY 29	2.81	AUG 20	3.74
DEC 18	1.63	MAR 19	2.08	JUN 28	2.35	SEP 25	4.25
WATER YEAR 2001		HIGHEST	1.63	DEC 18, 2000	LOWEST	4.25	SEP 25, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CARROLL COUNTY--Continued

WELL NUMBER.--CL Bf 1. SITE ID.--393638076510001.

LOCATION.--Lat 39°36'38", long 76°51'00", Hydrologic Unit 02060003, on Hillcrest St., Hampstead.  
 Owner: Town of Hampstead.

AQUIFER.-- Prettyboy Schist of Paleozoic age. Aquifer code: 300PRTB.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 407 ft; casing diameter 8 in., to approximately 65 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from July 1, 1952, to Nov. 7, 1962.

DATUM.--Elevation of land surface is 933 ft above sea level, from topographic map.

Measuring point: Top of 2 in. casing extension, 2.35 ft above land surface.

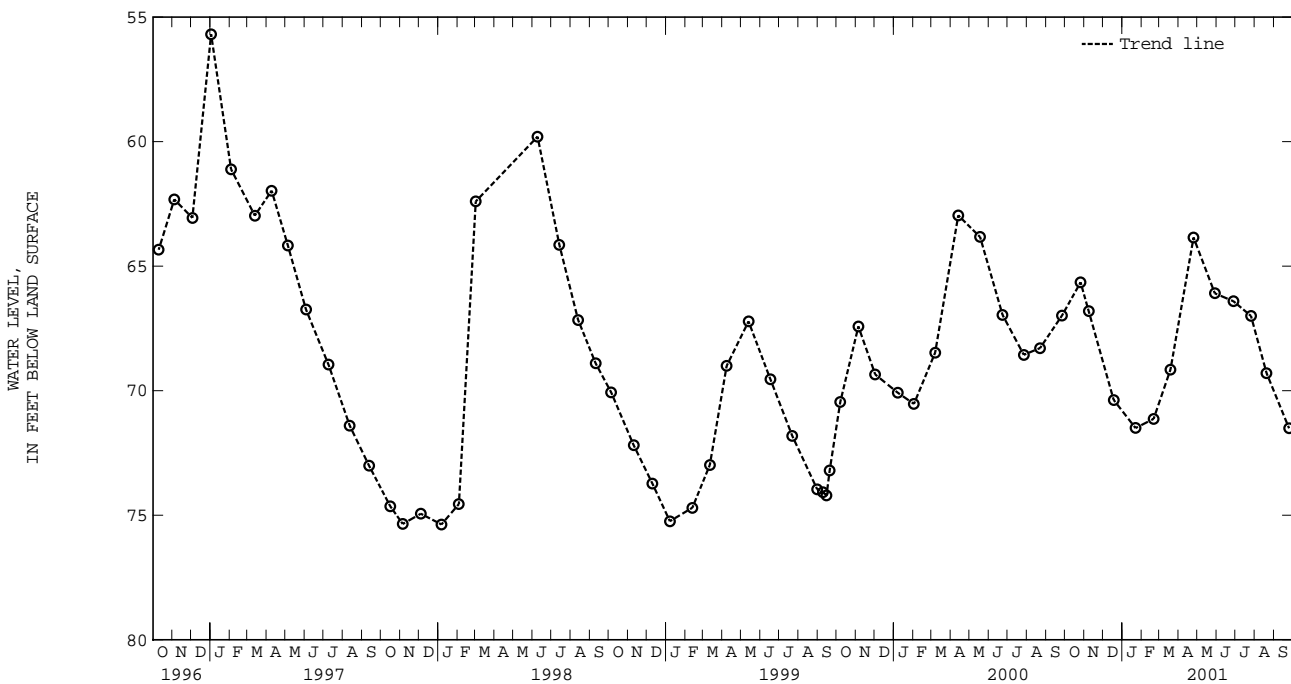
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--September and December 1946, April and September 1947, February 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.10 ft below land surface, June 13, 1989; lowest measured, 76.76 ft below land surface, March 4, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	65.65	JAN 22, 2001	71.50	APR 25, 2001	63.85	JUL 26, 2001	67.00
NOV 08	66.81	FEB 20	71.13	MAY 29	66.09	AUG 20	69.30
DEC 18	70.37	MAR 19	69.15	JUN 28	66.41	SEP 25	71.51
WATER YEAR 2001 HIGHEST 63.85		APR 25, 2001		LOWEST 71.51		SEP 25, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

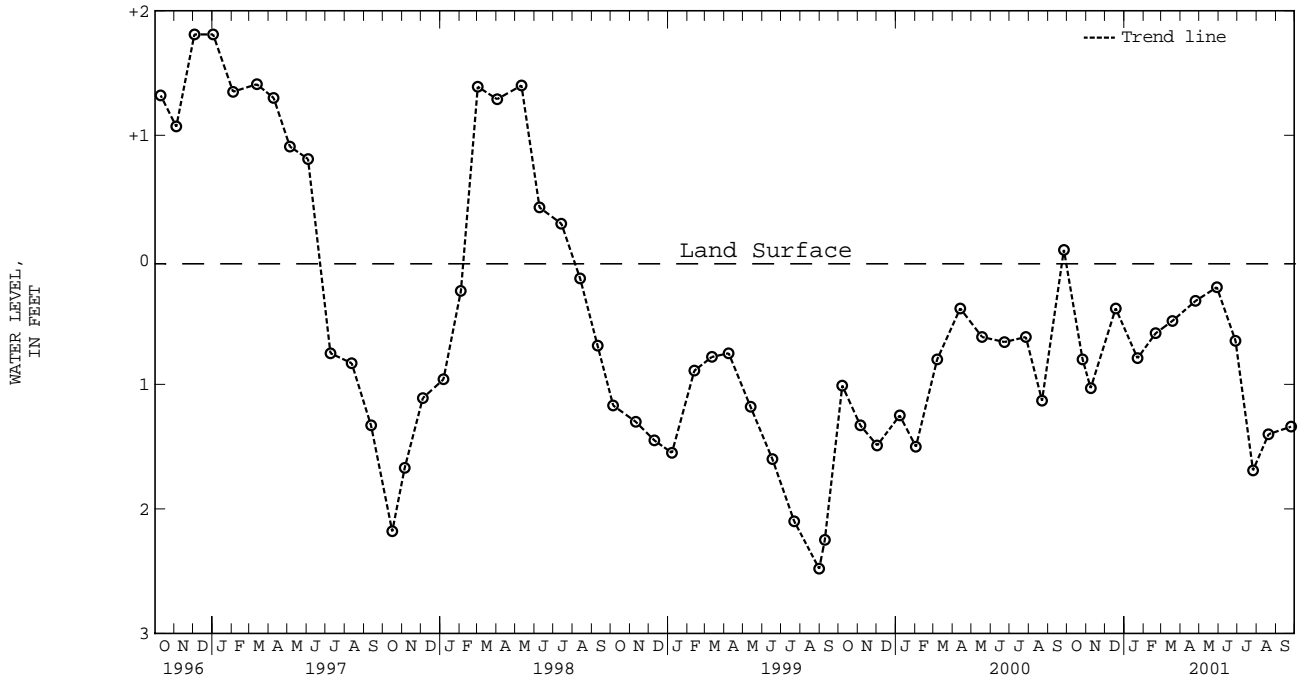
GROUND-WATER LEVELS IN MARYLAND--Continued

CARROLL COUNTY--Continued

WELL NUMBER.--CL Bf 184. SITE ID.--393754076512401. PERMIT NUMBER.--CL-73-6466.  
 LOCATION.--Lat 39°37'54", long 76°51'24", Hydrologic Unit 02060003, near Utz Rd., Greenmount.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Prettyboy Schist of Paleozoic age. Aquifer code: 300PRTB.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 339 ft; casing diameter 6 in., to 50 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 785 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.81 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--August 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.81 ft above land surface, Dec. 3, 1996, and Jan. 2, 1997;  
 lowest measured, 3.24 ft below land surface, Oct. 3, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	.80	JAN 22, 2001	.79	APR 25, 2001	.33	JUL 26, 2001	1.69
NOV 08	1.03	FEB 20	.59	MAY 29	.22	AUG 20	1.40
DEC 18	.39	MAR 19	.49	JUN 28	.65	SEP 25	1.34
WATER YEAR 2001 HIGHEST		.22	MAY 29, 2001 LOWEST		1.69	JUL 26, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CARROLL COUNTY--Continued

WELL NUMBER.--CL Ec 75. SITE ID.--392259077052401. PERMIT NUMBER.--CL-73-2722.

LOCATION.--Lat 39°22'59", long 77°05'24", Hydrologic Unit 02060003, 2.3 mi northwest of Woodbine, at Gills Falls Park.

Owner: U.S. Geological Survey.

AQUIFER.--Prettyboy Schist of Paleozoic age. Aquifer code: 300PRTB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 248 ft; casing diameter 6 in., to 21 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly from October 1990 to

April 1998. Equipped with graphic recorder December 26, 1974 to July 19, 1980.

DATUM.--Elevation of land surface is 550 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.31 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1980 to current year.

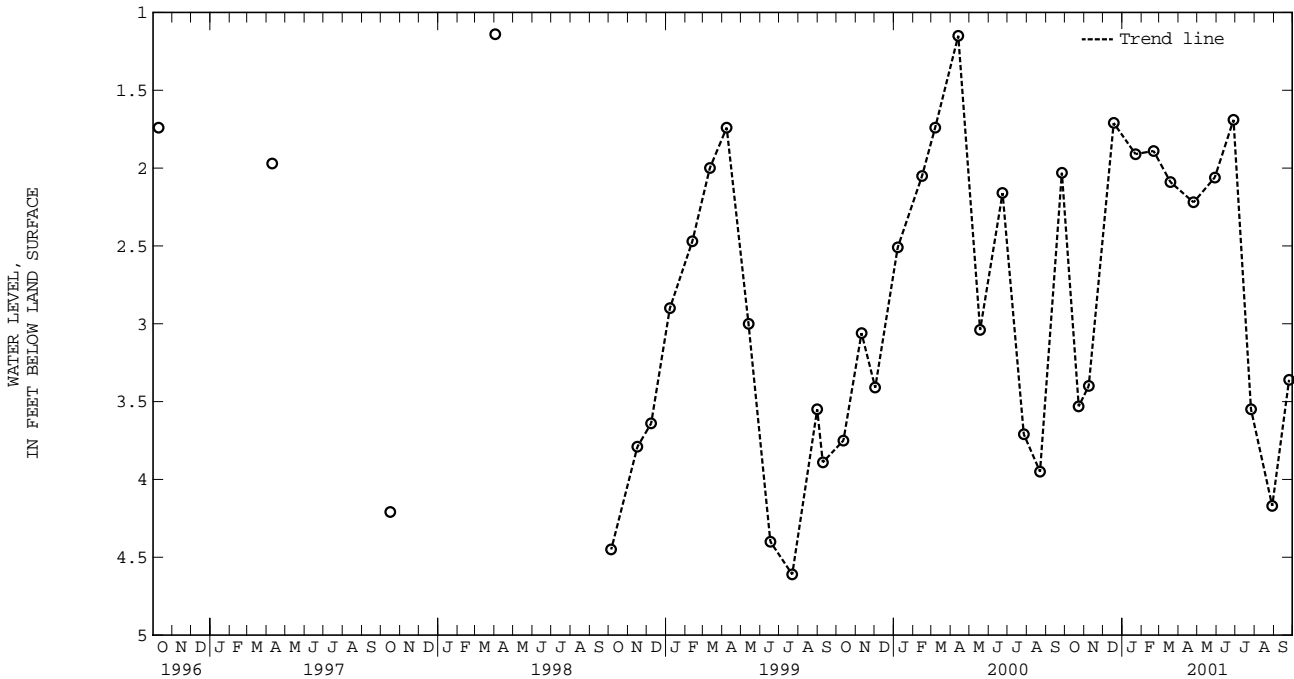
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.76 ft below land surface, April 5, 1993;

lowest measured, 5.23 ft below land surface, Aug. 7, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	3.53	JAN 22, 2001	1.91	APR 25, 2001	2.22	JUL 26, 2001	3.55
NOV 08	3.40	FEB 20	1.89	MAY 29	2.06	AUG 29	4.17
DEC 18	1.71	MAR 19	2.09	JUN 28	1.69	SEP 25	3.36

WATER YEAR 2001 HIGHEST 1.69 JUN 28, 2001 LOWEST 4.17 AUG 29, 2001



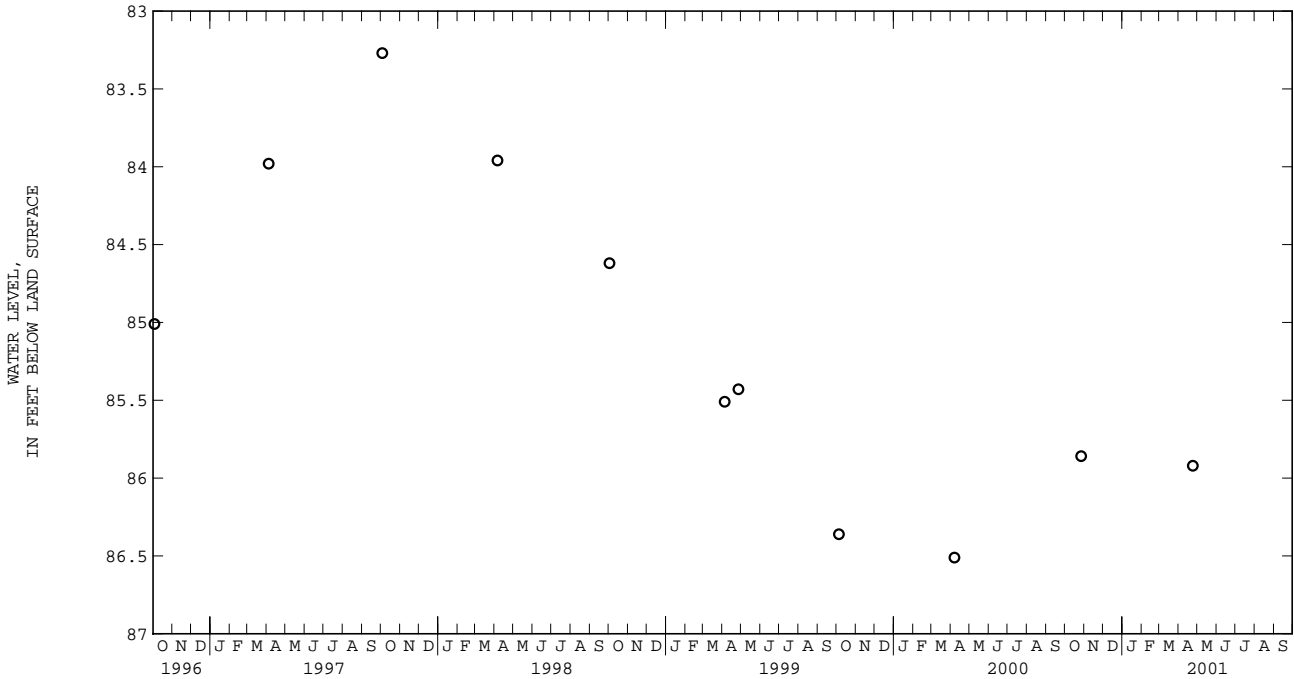
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CECIL COUNTY

WELL NUMBER.--CE Be 73. SITE ID.--393637075535001. PERMIT NUMBER.--CE-81-0464.  
 LOCATION.--Lat 39°36'37", long 75°53'50", Hydrologic Unit 02060002, 2 mi west of Elkton near US Rt. 40.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 152 ft; casing diameter 2 in., to 147 ft; screen diameter 2 in. from 147 to 152 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 162 ft above sea level, from topographic map.  
 Measuring Point: Top of casing, 1.95 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since April 1988.  
 PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.06 ft below land surface, July 31, 1984; lowest measured, 86.51 ft below land surface, April 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	85.86	APR 24, 2001	85.92
WATER YEAR 2001 HIGHEST 85.86 OCT 27, 2000		LOWEST 85.92 APR 24, 2001	



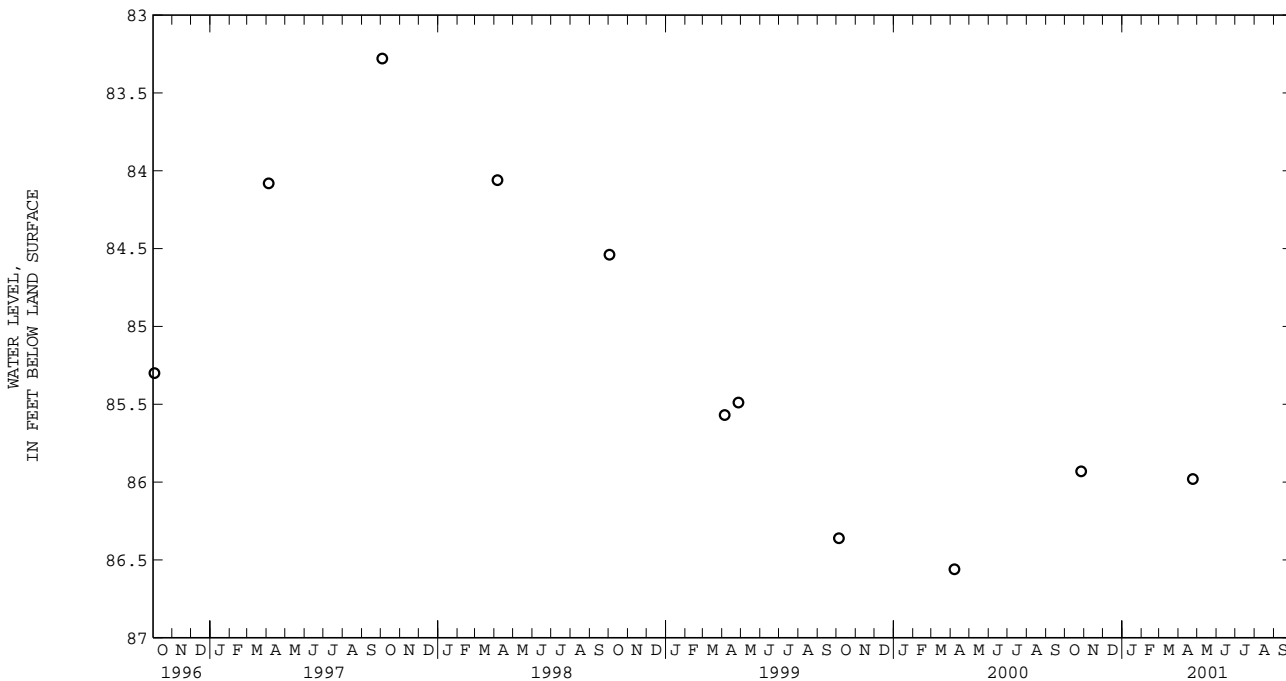
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CECIL COUNTY--Continued

WELL NUMBER.--CE Be 74. SITE ID.--393637075535002. PERMIT NUMBER.--CE-81-0464.  
 LOCATION.--Lat 39°36'37", long 75°53'50", Hydrologic Unit 02060002, 2 mi west of Elkton near US Rt. 40.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 115 ft; casing diameter 2 in., to 110 ft; screen diameter 2 in. from 110 to 115 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 162 ft above sea level, from topographic map.  
 Measuring Point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since April 1988.  
 PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.12 ft below land surface, July 31, 1984; lowest measured, 86.56 ft below land surface, April 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	85.93	APR 24, 2001	85.98
WATER YEAR 2001 HIGHEST 85.93		OCT 27, 2000 LOWEST 85.98	
		APR 24, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Bf 81. SITE ID.--393615075475901. PERMIT NUMBER.--CE-81-0537.

LOCATION.--Lat 39°36'15", long 75°47'59", Hydrologic Unit 02060002, at Thompson Estates Elementary School, Elkton.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 55.5 ft; casing diameter 4 in., to 50 ft; screen diameter 2 in. from 50 to 55 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 90 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal..

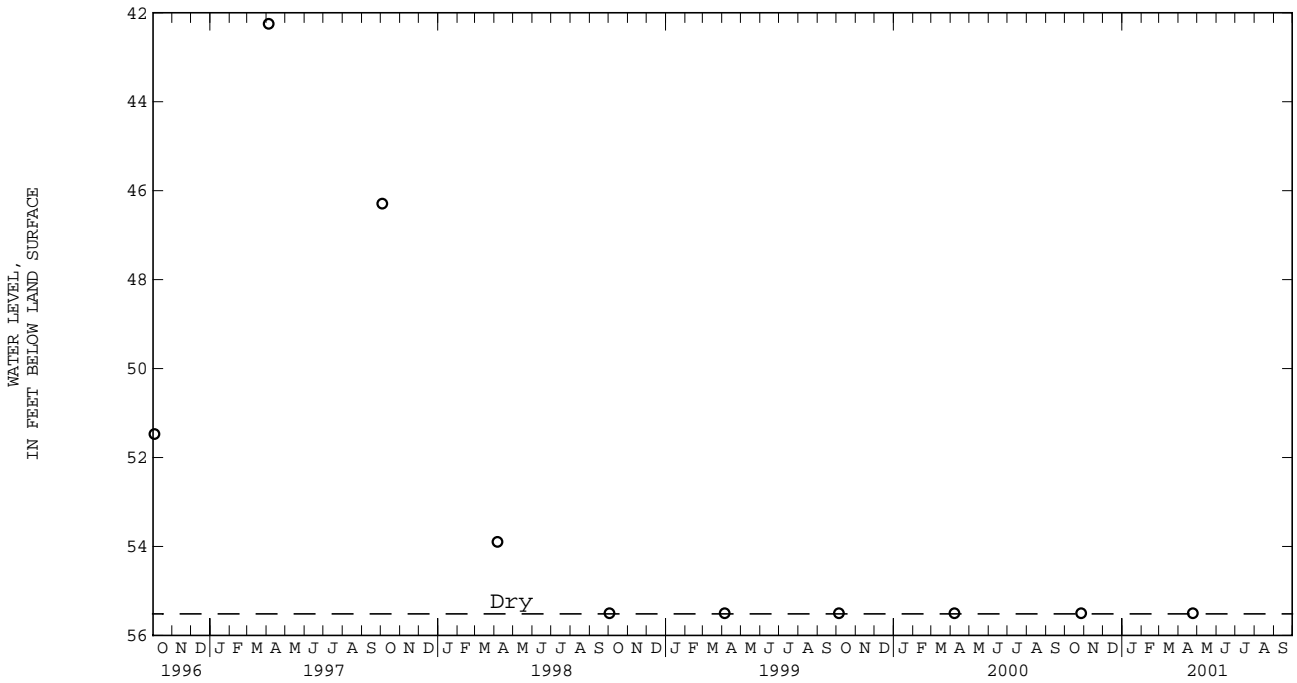
PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.26 ft below land surface, July 9, 1983;

lowest measured, dry, Nov. 6, 1985, April 8, 1986, May 12, 1986, May 10, 1988, June 21, 1988, Oct. 6, 1988, Oct. 2, 1992, Oct. 4, 1995, April 3, 1996, Oct. 2, 1998, April 5, 1999, Oct. 5, 1999, April 7, 2000, Oct. 27, 2000 and April 24, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	DRY	APR 24, 2001	DRY
WATER YEAR 2001 HIGHEST		DRY	
WATER YEAR 2001 LOWEST		DRY	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



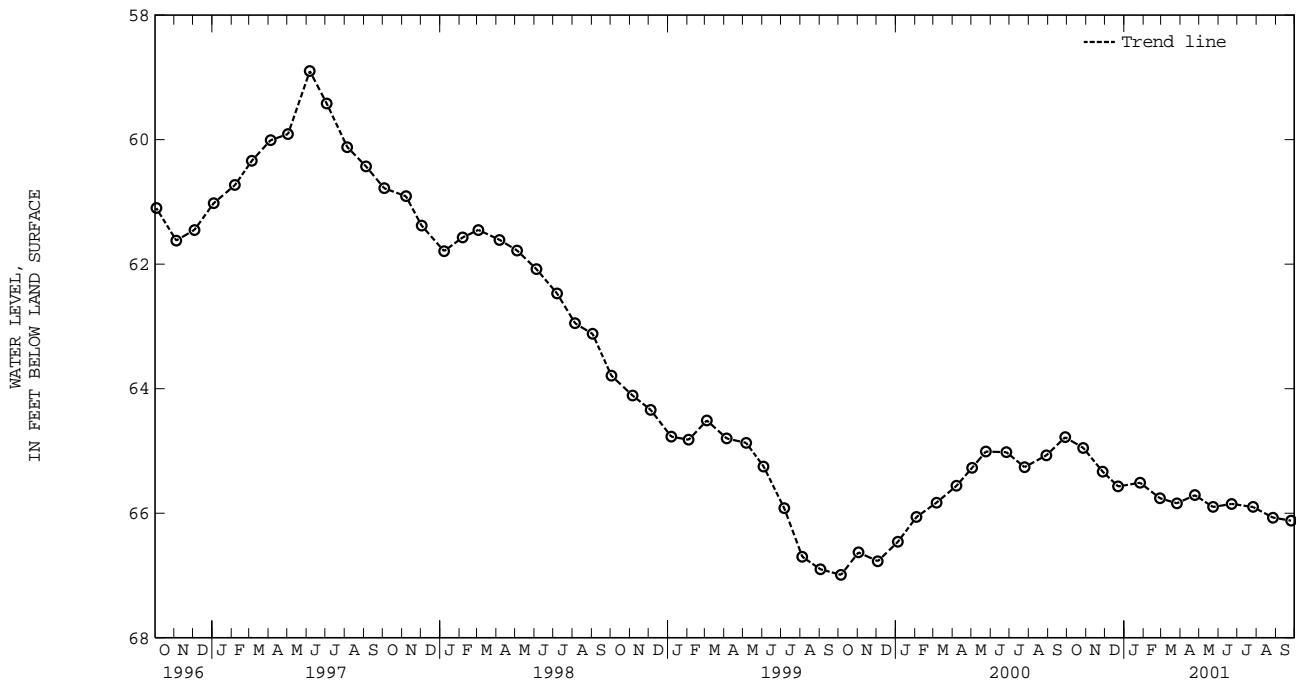
CECIL COUNTY--Continued

WELL NUMBER.--CE Bf 82. SITE ID.--393537075492001. PERMIT NUMBER.--CE-81-0470.  
 LOCATION.--Lat 39°35'37", long 75°49'20", Hydrologic Unit 02060002, at Holly Hall Elementary School, Elkton.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 125 ft; casing diameter 4 in., to 120 ft; screen diameter 2 in. from 120 to 125 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder July 1, 1983 to Nov. 6, 1984.  
 DATUM.--Elevation of land surface is 70 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--February 1983 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.13 ft below land surface, July 1, 1983; lowest measured, 66.77 ft below land surface, Dec. 3, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	64.95	JAN 26, 2001	65.51	APR 24, 2001	65.71	JUL 26, 2001	65.90
NOV 27	65.33	FEB 27	65.76	MAY 23	65.90	AUG 27	66.07
DEC 22	65.57	MAR 26	65.84	JUN 22	65.85	SEP 25	66.12

WATER YEAR 2001    HIGHEST    64.95    OCT 27, 2000    LOWEST    66.12    SEP 25, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Cd 51. SITE ID.--393432075593601. PERMIT NUMBER.--CE-81-0440.

LOCATION.--Lat 39°34'32", long 75°59'36", Hydrologic Unit 02060002, near intersection of MD Rts. 7 and 267, 1 mi west of Charlestown.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 125 ft; casing diameter 4 in., to 120 ft; screen diameter 2 in. from 120 to 125 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 70 ft above sea level, from topographic map.

Measuring Point: Top of casing, 3.12 ft above land surface.

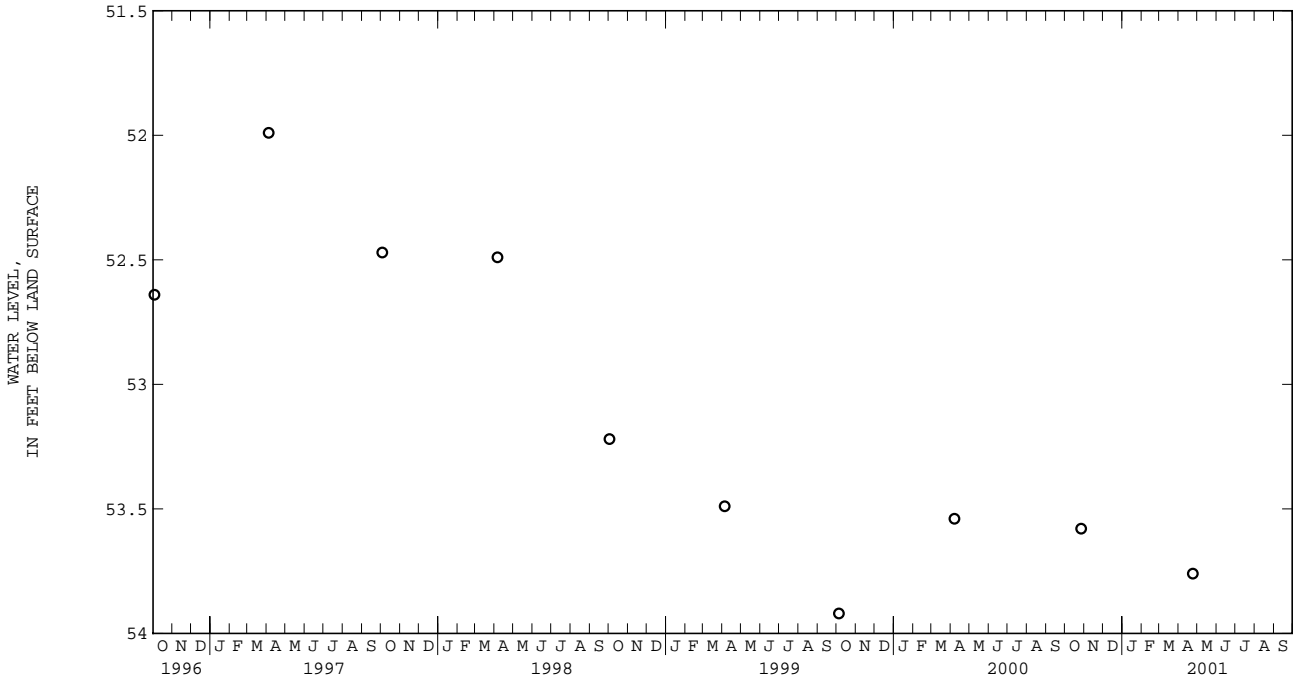
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.80 ft below land surface, April 6, 1984; lowest measured, 53.92 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	53.58	APR 24, 2001	53.76
WATER YEAR 2001 HIGHEST 53.58 OCT 27, 2000		LOWEST 53.76 APR 24, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CECIL COUNTY--Continued

WELL NUMBER.--CE Cd 52. SITE ID.--393432075593602. PERMIT NUMBER.--CE-81-0440.

LOCATION.--Lat 39°34'32", long 75°59'36", Hydrologic Unit 02060002, near intersection of MD Rts. 7 and 267, 1 mi west of Charlestown.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 48 ft; casing diameter 4 in., to 43 ft; screen diameter 2 in. from 43 to 48 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 70 ft above sea level, from topographic map.

Measuring Point: Top of casing, 3.18 ft above land surface.

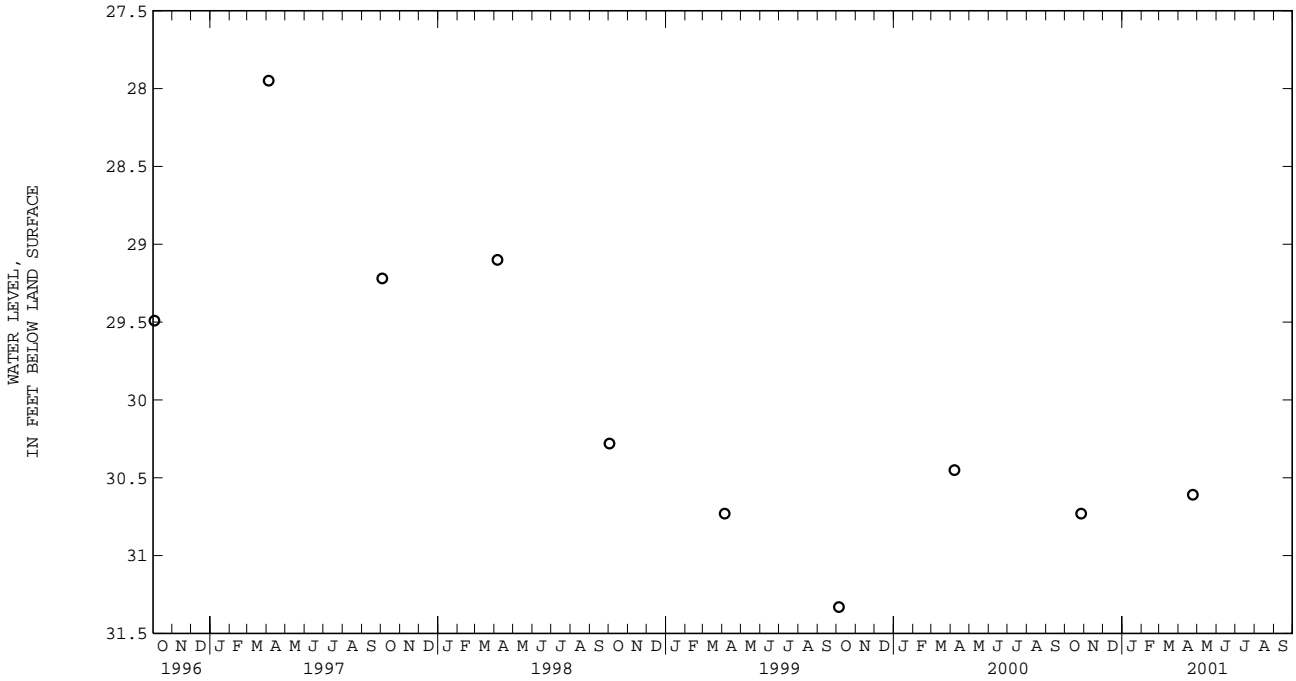
REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly starting April 1988.

PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.75 ft below land surface, July 5, 1983; lowest measured, 31.33 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	30.73	APR 24, 2001	30.61
WATER YEAR 2001 HIGHEST 30.61		APR 24, 2001 LOWEST 30.73	
		OCT 27, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CECIL COUNTY--Continued

WELL NUMBER.--CE Cd 53. SITE ID.--393216075564201. PERMIT NUMBER.--CE-81-0463.

LOCATION.--Lat 39°32'16", long 75°56'42", Hydrologic Unit 02060002, Elk Neck State Forest, 0.5 mi north of Black Hill Lookout Tower.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 350 ft; casing diameter 4 in., to 345 ft; screen diameter 2 in. from 345 to 350 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from July 22, 1983 to Oct. 24, 1984.

DATUM.--Elevation of land surface is 135 ft above , from topographic map.

Measuring Point: Top of casing, 2.00 ft above land surface.

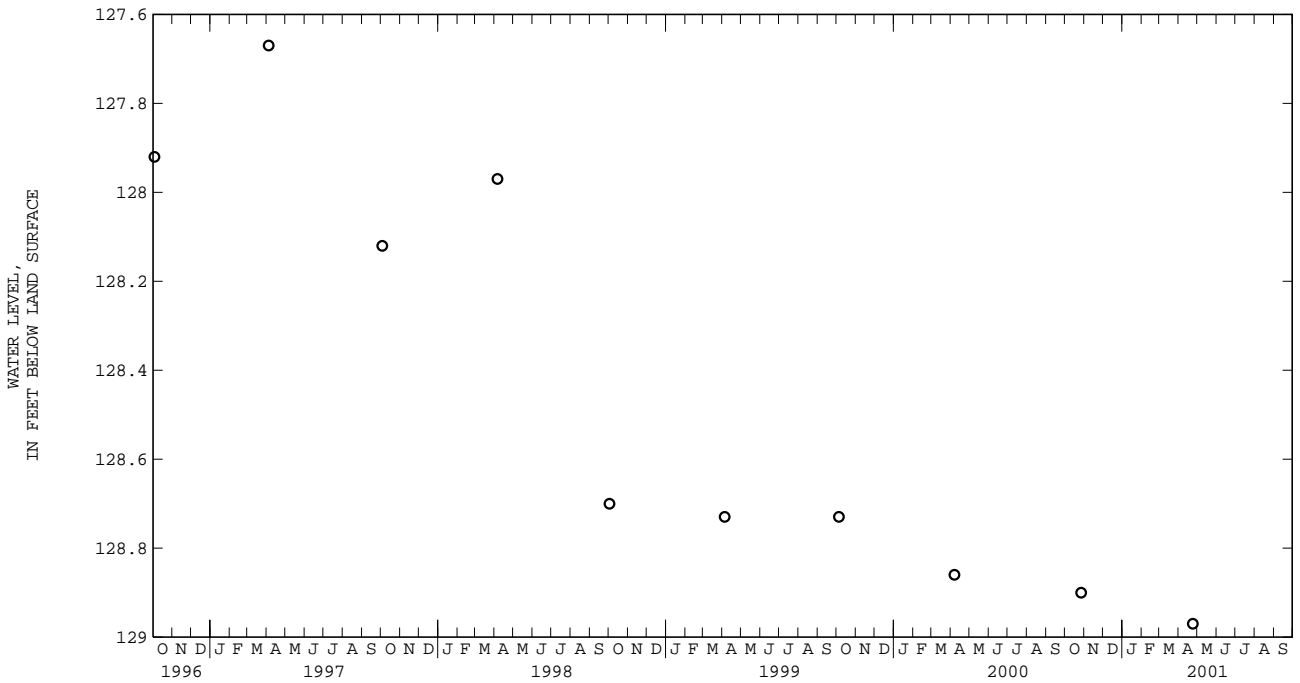
REMARKS.--Maryland Water-Level Network observation well. Water levels affected by local ground-water withdrawal.

PERIOD OF RECORD.--March 1983 to October 1984, October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.65 ft below land surface, April 6, 1984; lowest measured, 128.97 ft below land surface, April 24, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	128.90	APR 24, 2001	128.97
WATER YEAR 2001 HIGHEST 128.90 OCT 27, 2000		LOWEST 128.97 APR 24, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

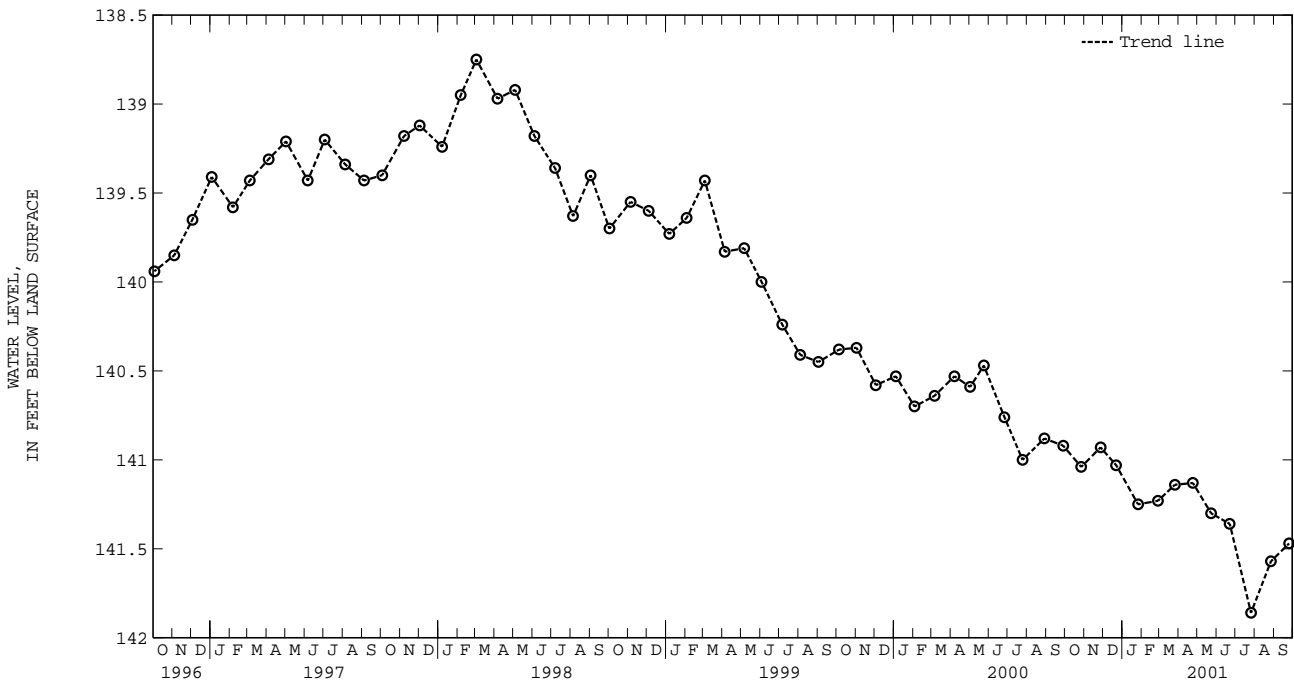
CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 54. SITE ID.--393433075544901. PERMIT NUMBER.--CE-81-0461.  
 LOCATION.--Lat 39°34'33", long 75°54'49", Hydrologic Unit 02060002, Elk Neck State Forest near Irishtown Road.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 4 in., to 245 ft; screen diameter 2 in. from 245 to 250 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder July 21, 1983 to Nov. 6, 1984.  
 DATUM.--Elevation of land surface is 180 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--March 1983 to November 1984, July 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 136.10 ft below land surface, March 29, 1984, April 6, 1984, and Nov. 6, 1984; lowest measured, 141.86 ft below land surface, July 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	141.04	JAN 26, 2001	141.25	APR 24, 2001	141.13	JUL 26, 2001	141.86
NOV 27	140.93	FEB 27	141.23	MAY 23	141.30	AUG 27	141.57
DEC 22	141.03	MAR 26	141.14	JUN 22	141.36	SEP 25	141.47

WATER YEAR 2001    HIGHEST 140.93 NOV 27, 2000    LOWEST 141.86 JUL 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 55. SITE ID.--393241075500201. PERMIT NUMBER.--CE-81-0465.  
 LOCATION.--Lat 39°32'41", long 75°50'02", Hydrologic Unit 02060002, Canal National Wildlife Refuge near Elk Forest Rd.  
 Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 375 ft; casing diameter 4 in., to 370 ft;  
 screen diameter 2 in. from 370 to 375 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic  
 water-level recorder from July 21, 1983 to Nov. 6, 1984.

DATUM.--Elevation of land surface is 55 ft above , from topographic map.  
 Measuring point: Top of casing 2.40 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. During August 1995, a new well field located 3 miles northwest  
 of this site began pumping groundwater at approximately 2.4 million gallons per day. Water levels are affected by  
 local ground-water withdrawal.

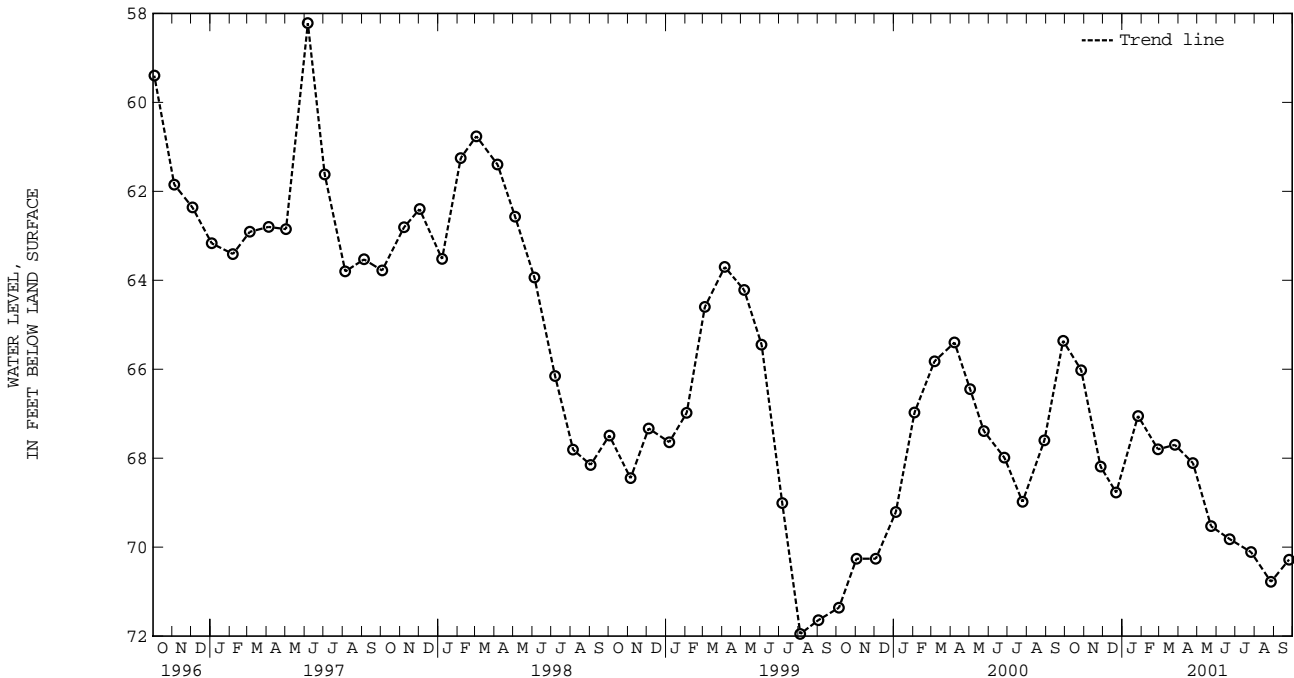
PERIOD OF RECORD.--March 1983 to November 1984, July 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.56 ft below land surface, April 17, 1984;  
 lowest measured, 71.95 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	66.02	JAN 26, 2001	67.05	APR 24, 2001	68.11	JUL 26, 2001	70.11
NOV 27	68.19	FEB 27	67.80	MAY 23	69.53	AUG 27	70.78
DEC 22	68.77	MAR 26	67.70	JUN 22	69.82	SEP 25	70.28

WATER YEAR 2001      HIGHEST    66.02    OCT 27, 2000      LOWEST    70.78    AUG 27, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

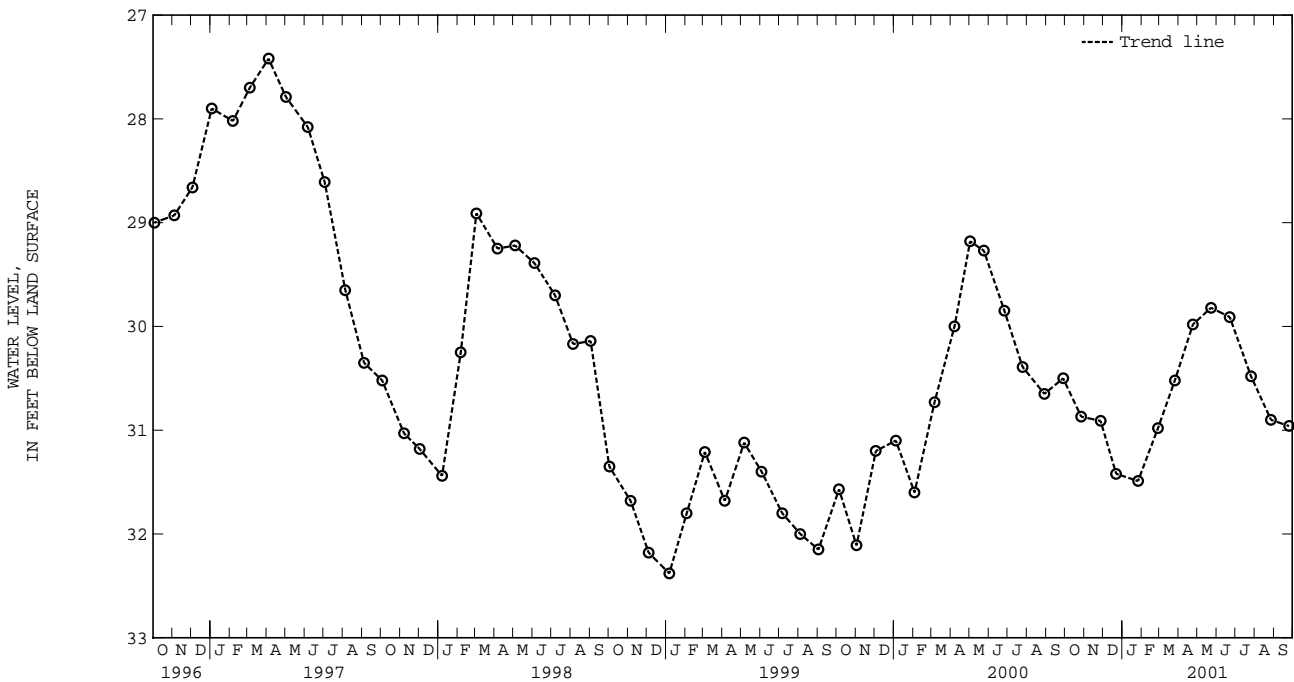
CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 56. SITE ID.--393026075523101. PERMIT NUMBER.--CE-81-0466.  
 LOCATION.--Lat 39°30'26", long 75°52'31", Hydrologic Unit 02060002, 1.2 mi east of Courthouse Point.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 121 ft; casing diameter 4 in., to 116 ft; screen diameter 2 in. from 116 to 121 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from April 1988 to April 1994.  
 DATUM.--Elevation of land surface is 38 ft above sea level.  
 Measuring Point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1983 to September 1984, April 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.42 ft below land surface, April 4, 1997; lowest measured, 34.48 ft below land surface, Nov. 19, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	30.87	JAN 26, 2001	31.49	APR 24, 2001	29.98	JUL 26, 2001	30.48
NOV 27	30.91	FEB 27	30.98	MAY 23	29.82	AUG 27	30.90
DEC 22	31.42	MAR 26	30.52	JUN 22	29.91	SEP 25	30.96

WATER YEAR 2001    HIGHEST    29.82    MAY 23, 2001    LOWEST    31.49    JAN 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

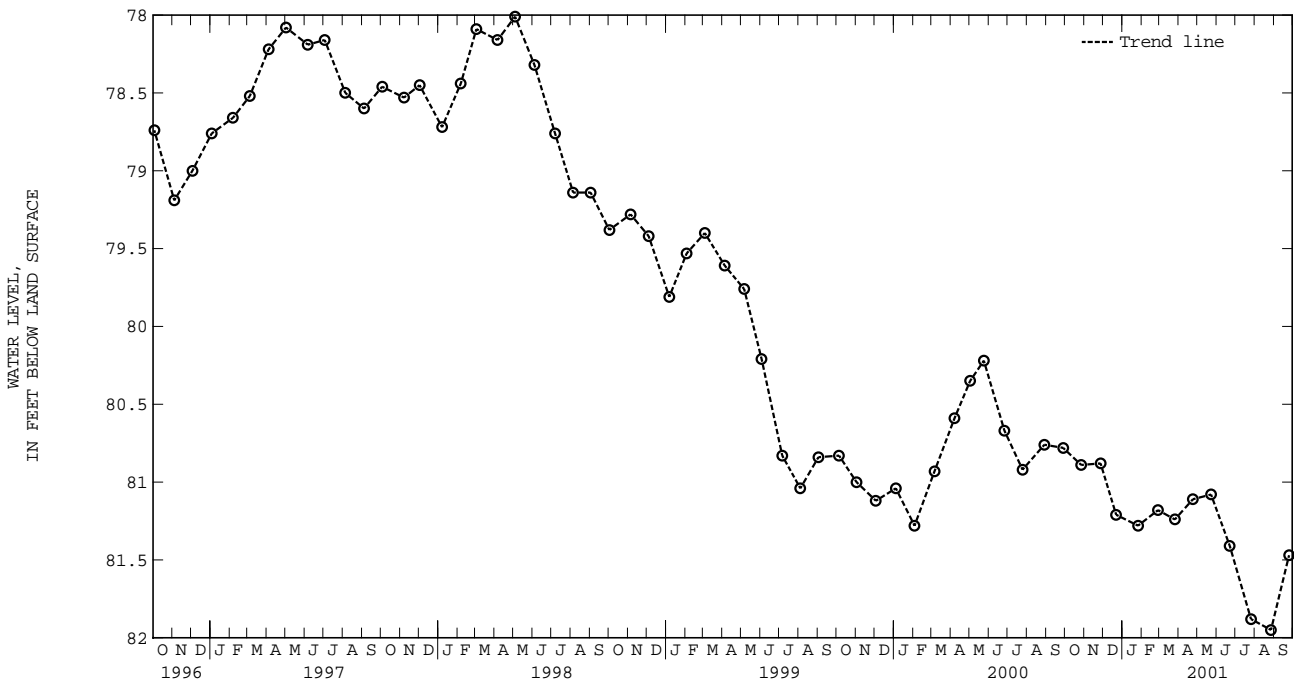
CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 82. SITE ID.--393209075541301. PERMIT NUMBER.--CE-94-1417.  
 LOCATION.--Lat 39°32'09", long 75°54'13", Hydrologic Unit 02060002, 4.0 mi southeast of North East, at Village of Elk Neck, 0.1 mi north of Racine-School Rd.  
 Owner: Stuart Associates.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PTMC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 210 ft; casing diameter 4 in., to 205 ft; screen diameter 4 in. from 205 to 210 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 120 ft above sea level, from topographic map.  
 Measuring Point: Top of casing, 1.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--August 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.76 ft below land surface, July 7, 1998; lowest measured, 81.95 ft below land surface, Aug. 27, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	80.89	JAN 26, 2001	81.28	APR 24, 2001	81.11	JUL 26, 2001	81.88
NOV 27	80.88	FEB 27	81.18	MAY 23	81.08	AUG 27	81.95
DEC 22	81.21	MAR 26	81.24	JUN 22	81.41	SEP 25	81.47

WATER YEAR 2001      HIGHEST    80.88    NOV 27, 2000      LOWEST    81.95    AUG 27, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

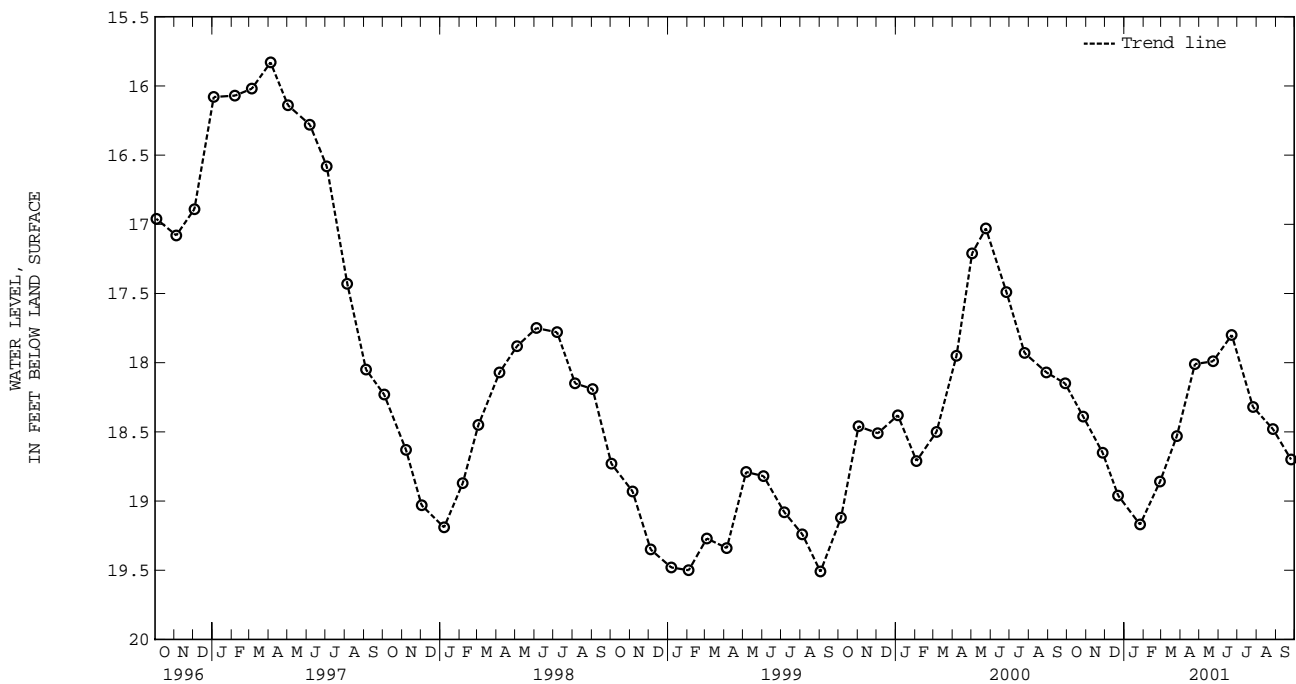


CECIL COUNTY--Continued

WELL NUMBER.--CE Dd 81. SITE ID.--392536075593201. PERMIT NUMBER.--CE-81-0469.  
 LOCATION.--Lat 39°25'36", long 75°59'32", Hydrologic Unit 02060002, at dredge spoil site, off Pond Neck Road, near West View Shores.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 115 ft; casing diameter 4 in., to 110 ft; screen diameter 2 in. from 110 to 115 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from April 1988 to April 1994.  
 DATUM.--Elevation of land surface is 24 ft above sea level.  
 Measuring Point: Top of casing, 1.80 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--March 1983 to October 1983, April 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.25 ft below land surface, July 1, 1983; lowest measured, 19.61 ft below land surface, Oct. 2, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	18.39	JAN 26, 2001	19.17	APR 24, 2001	18.01	JUL 26, 2001	18.32
NOV 27	18.65	FEB 27	18.86	MAY 23	17.99	AUG 27	18.48
DEC 22	18.96	MAR 26	18.53	JUN 22	17.80	SEP 25	18.70
WATER YEAR 2001 HIGHEST 17.80 JUN 22, 2001		LOWEST 19.17 JAN 26, 2001					



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

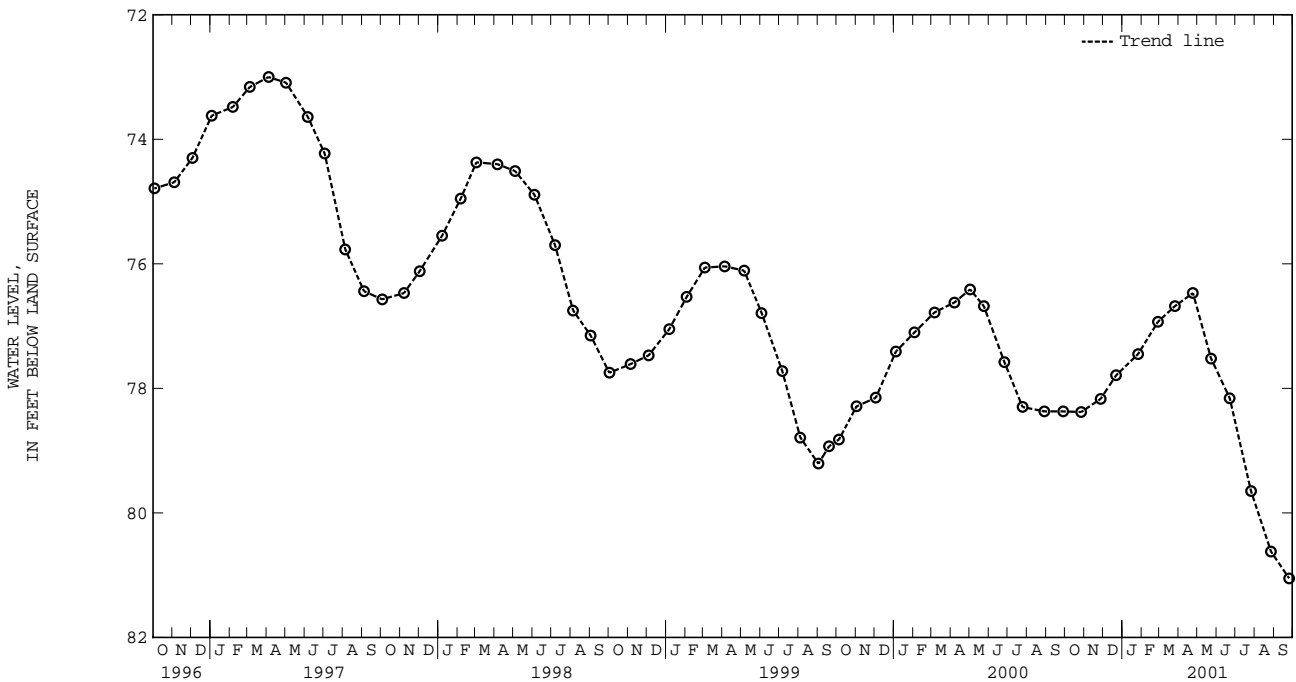
CECIL COUNTY--Continued

WELL NUMBER.--CE Ee 29. SITE ID.--392403075521801. PERMIT NUMBER.--CE-73-2266.  
 LOCATION.--Lat 39°24'03", long 75°52'18", Hydrologic Unit 02060002, 0.3 mi southwest of MD Rts. 213 and 282, Cecilton.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 547 ft; casing diameter 10 in., to 158 ft; casing diameter 4 in., to 515 ft and 525 to 547 ft; screen diameter 4 in. from 515 to 525 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with a digital water-level recorder from Aug. 22, 1979 to Dec. 4, 1979.  
 DATUM.--Elevation of land surface is 75 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.35 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal  
 PERIOD OF RECORD.--August 1978 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.99 ft below land surface, March 25, 1979;  
 lowest measured, 81.05 ft below land surface, Sept. 25, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	78.38	JAN 26, 2001	77.45	APR 24, 2001	76.47	JUL 26, 2001	79.65
NOV 27	78.17	FEB 27	76.93	MAY 23	77.52	AUG 27	80.62
DEC 22	77.79	MAR 26	76.68	JUN 22	78.16	SEP 25	81.05

WATER YEAR 2001    HIGHEST    76.47    APR 24, 2001    LOWEST    81.05    SEP 25, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

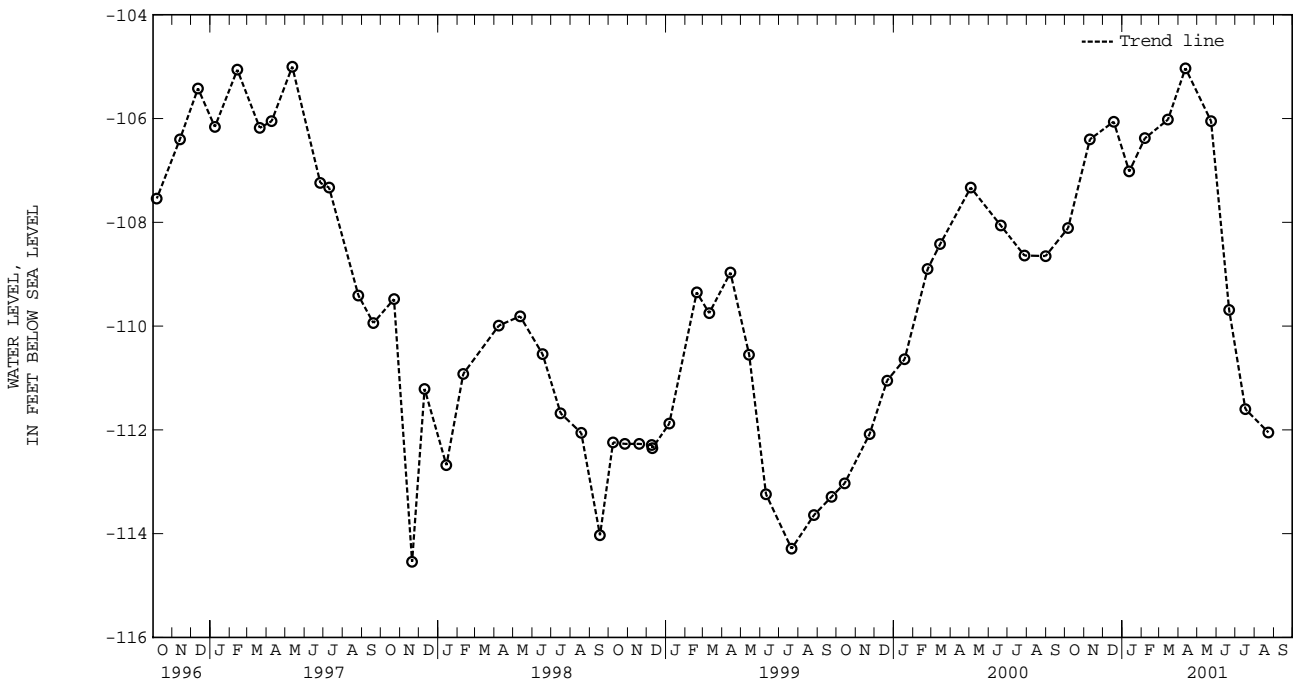
CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 24. SITE ID.--383633077083001. PERMIT NUMBER.--CH-02-0874.  
 LOCATION.--Lat 38°36'33", long 77°08'30", Hydrologic Unit 0207001, at Cedar Lane, Potomac Heights.  
 Owner: Potomac Heights Mutual Home Owners Association.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 435 ft; casing diameter 10 in., to 383.5 ft; and 398.5 to 415 ft; screen diameter 10 in. from 383.5 to 398.5 ft and 415 to 435 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Equipped with digital water-level recorder--60-minute recorder interval, April 30, 1988 to Nov. 20, 1997. Equipped with digital water-level recorder--30-minute recorder interval, Nov. 20, 1997 to June 20, 2000.  
 DATUM.--Elevation of land surface is 72 ft above sea level.  
 Measuring Point: Top of casing, 1.55 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--May 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.26 ft below sea level, April 30, 1988; lowest measured, 114.86 ft below sea level, November 20, 1997.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-108.11	JAN 12, 2001	-107.02	APR 12, 2001	-105.03	JUL 17, 2001	-111.60
NOV 10	-106.40	FEB 06	-106.38	MAY 23	-106.05	AUG 23	-112.05
DEC 18	-106.06	MAR 15	-106.02	JUN 21	-109.69		

WATER YEAR 2001 HIGHEST -105.03 APR 12, 2001 LOWEST -112.05 AUG 23, 2001



CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 75. SITE ID.--383645077062401. PERMIT NUMBER.--CH-92-0500.

LOCATION.--Lat 38°36'45", long 77°06'24", Hydrologic Unit 02070011, Chapmans Landing.

Owner: Maryland Department of Natural Resources.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 940 ft; casing diameter 8 in., to 820 ft, 825 to 860 ft, 880 to 898 ft, and 923 to 940 ft; screen diameter 8 in. from 820 to 825 ft, 860 to 880 ft, and 898 to 923 ft.

INSTRUMENTATION.--Monthly measurements with steel tape by Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 124.59 ft above sea level.

Measuring Point: Top of casing, 1.98 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

A 48-hour pump test occurred on Nov. 18-20, 1996. The lowest water level measured during this period was 82.53 ft below sea level on Nov. 20, 1996.

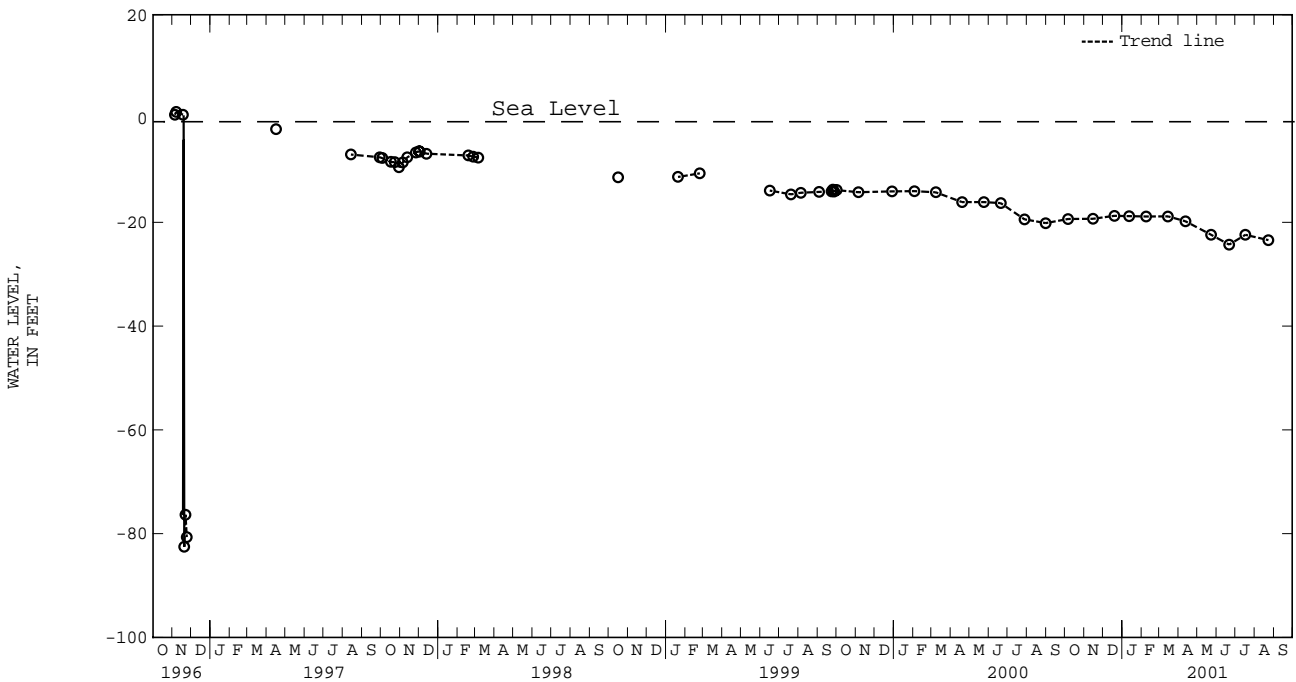
PERIOD OF RECORD.--June 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft above sea level, Sept. 26, 1994; lowest measured, 82.53 ft below sea level, Nov. 20, 1996.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-19.36	JAN 12, 2001	-18.81	APR 12, 2001	-19.80	JUL 17, 2001	-22.41
NOV 15	-19.32	FEB 08	-18.88	MAY 23	-22.39	AUG 23	-23.43
DEC 19	-18.75	MAR 15	-18.85	JUN 21	-24.30		

WATER YEAR 2001 HIGHEST -18.75 DEC 19, 2000 LOWEST -24.30 JUN 21, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 77. SITE ID.--383644077055501. PERMIT NUMBER.--CH-88-1028.  
 LOCATION.--Lat 38°36'44", long 77°05'55", Hydrologic Unit 02070011, 2.75 mi southwest of intersection with MD Rts 210 and 227, 0.25 mi south of MD 210.  
 Owner: The Arden Group.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 955 ft; casing diameter 16 in., to 60 ft; casing diameter 8 in. from 0 to 845 ft; and casing diameter 6 in., from 845 to 925 ft; screen diameter 6 in. from 925 to 955 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, August 28, 1995 to current year.

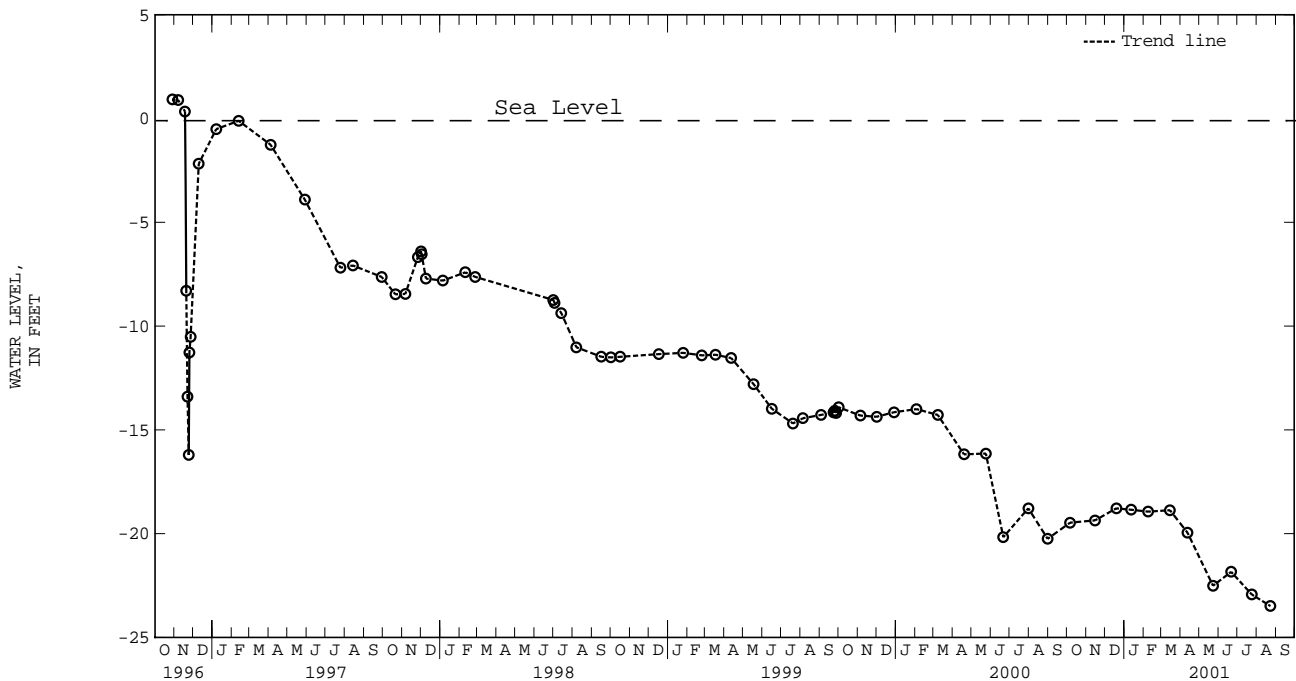
DATUM.--Elevation of land surface is 96.64 ft above sea level.  
 Measuring Point: Top of recorder shelf, 3.38 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal. Missing data due to recorder malfunction. A 48-hour pump test occurred in a nearby well on Nov. 22, and 23, 1996. The lowest water level measured during this period was 15.54 ft below sea level

PERIOD OF RECORD.--August 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.76 ft above sea level, Aug. 29, 1995; lowest measured, 23.49 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-19.47	JAN 12, 2001	-18.85	APR 12, 2001	-19.95	JUL 24, 2001	-22.93
NOV 15	-19.36	FEB 08	-18.94	MAY 23	-22.51	AUG 23	-23.49
DEC 19	-18.78	MAR 15	-18.87	JUN 21	-21.84		
WATER YEAR 2001		HIGHEST	-18.78	DEC 19, 2000	LOWEST	-23.49	AUG 23, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 80. SITE ID.--383645077062402. PERMIT NUMBER.--CH-94-0898.

LOCATION.--Lat 38°36'45", long 77°06'24", Hydrologic Unit 02070011, 2.0 southwest of intersection with MD Rts. 210 and 227, 100 ft south of MD Rt. 210.

Owner: Maryland Geological Survey.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,120 ft; casing diameter 4 in., to 1,085 ft, and 1,095 to 1,105 ft; screen diameter 4 in. from 1,085 to 1,095 ft and 1,105 to 1,115 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, Oct. 22, 1996 to July 17, 2001.

DATUM.--Elevation of land surface is 123.06 ft above sea level.

Measuring Point: Top of recorder shelf, 13.6 ft below land surface (land graded to 13.6 ft below original elevation).

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal. Missing data due to recorder malfunction.

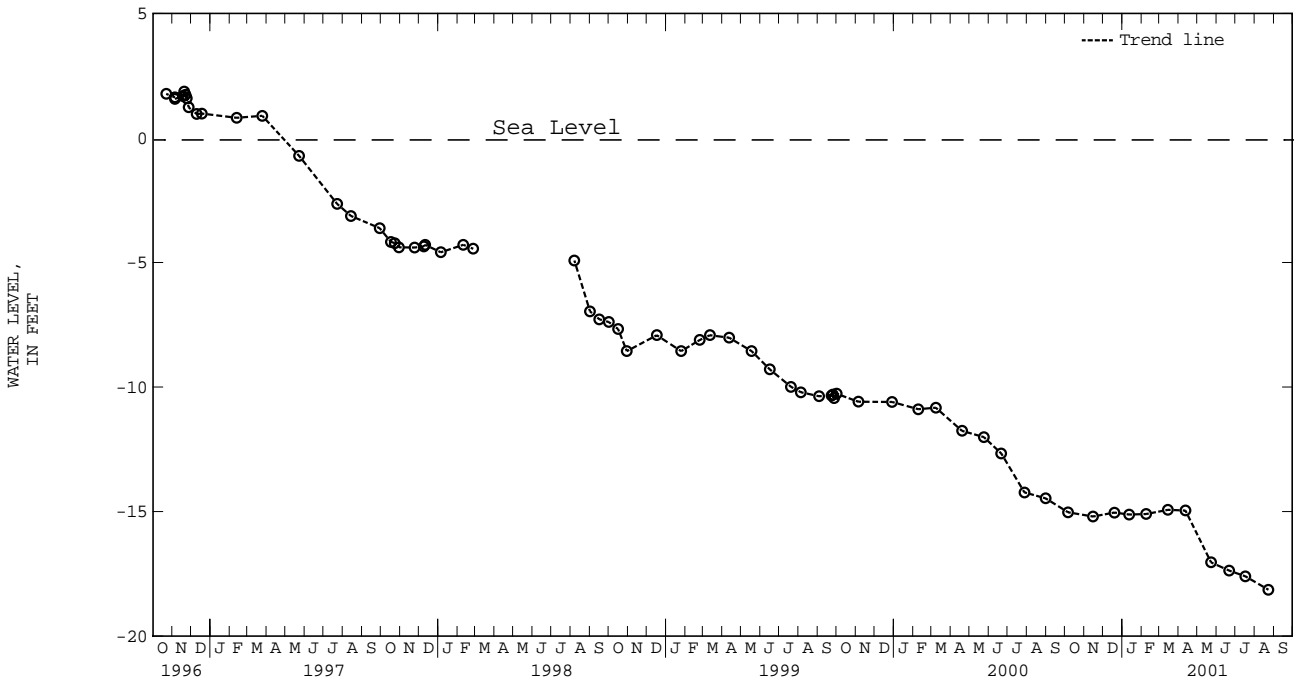
PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.93 ft above sea level, Oct. 30, 1996; lowest measured, 18.14 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-15.03	JAN 12, 2001	-15.12	APR 12, 2001	-14.96	JUL 17, 2001	-17.60
NOV 15	-15.20	FEB 08	-15.10	MAY 23	-17.04	AUG 23	-18.14
DEC 19	-15.04	MAR 15	-14.93	JUN 21	-17.37		

WATER YEAR 2001 HIGHEST -14.93 MAR 15, 2001 LOWEST -18.14 AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 81. SITE ID.--383709077061002. PERMIT NUMBER.--CH-88-0482.

LOCATION.--Lat 38°37'09", long 77°06'10", Hydrologic Unit 02070010, 1.7 mi southwest of intersection with MD Rts. 210 and 227, on northwest side of Chapmans Landing Rd.

Owner: Montrose Farms.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 656 ft; casing diameter 6 in., to 541 ft, casing diameter 4 in. from 531 to 556 ft, 588 to 642 ft, 646 to 656 ft; screen diameter 4 in. from 556 to 588 ft, 642 to 646 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, Aug. 28, 1996 to current year.

DATUM.--Elevation of land surface is 156.46 ft above sea level.

Measuring Point: Top of recorder shelf, 2.07 ft above land surface.

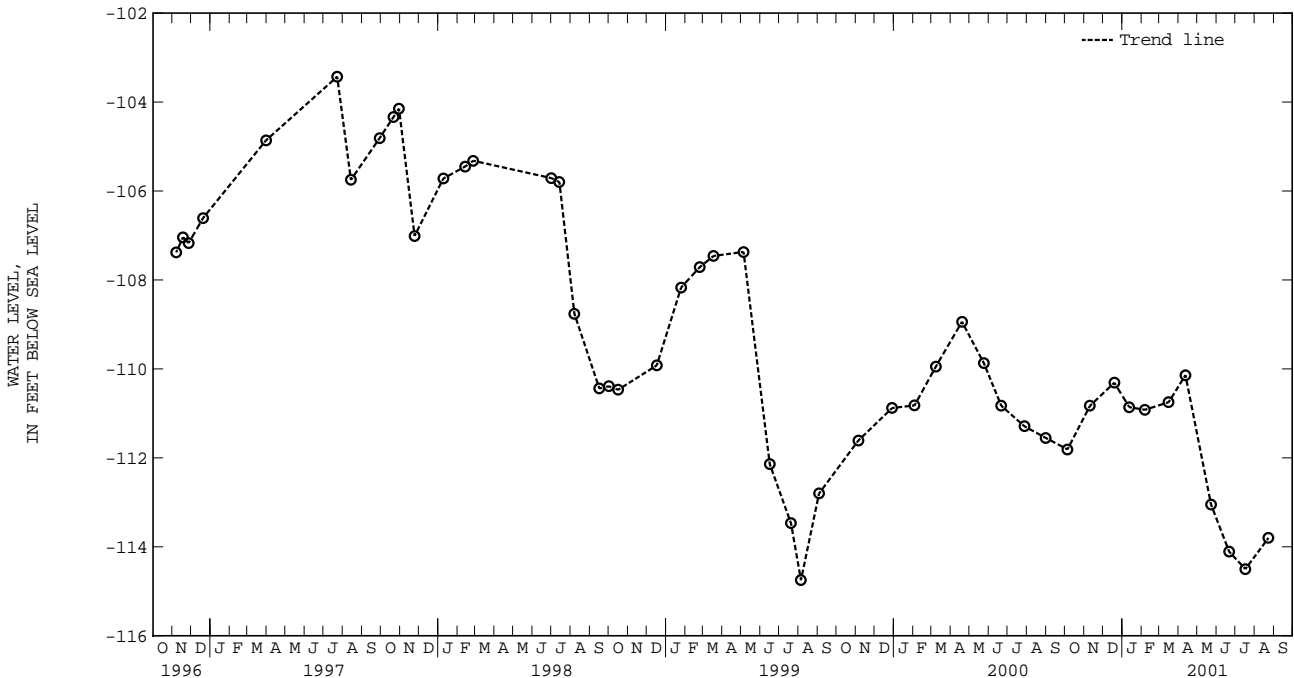
REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--August 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.97 ft below sea level, July 3, and 4, 1997; lowest measured, 114.85 ft below sea level, Aug. 5, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-111.81	JAN 12, 2001	-110.86	APR 12, 2001	-110.14	JUL 17, 2001	-114.50
NOV 10	-110.83	FEB 06	-110.92	MAY 23	-113.05	AUG 23	-113.80
DEC 19	-110.31	MAR 16	-110.75	JUN 21	-114.11		
WATER YEAR 2001		HIGHEST -110.14		APR 12, 2001		LOWEST -114.50	
						JUL 17, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

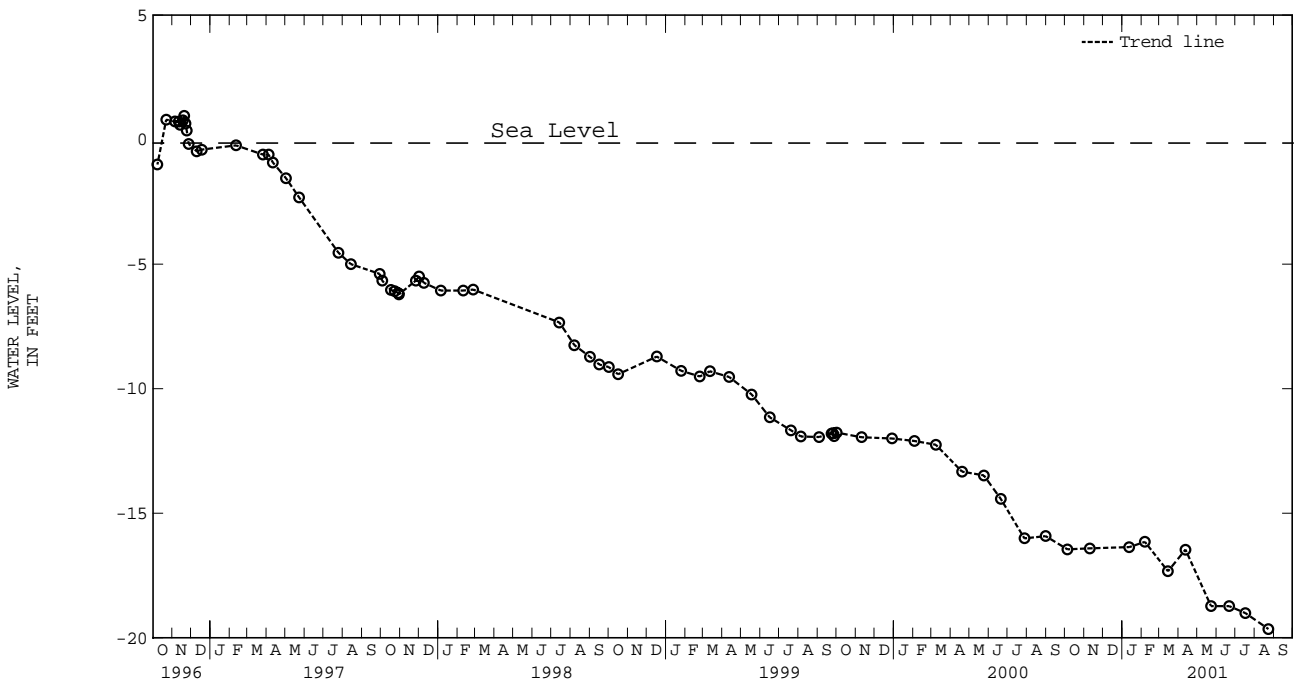
CHARLES COUNTY--Continued

WELL NUMBER.--CH Bd 52. SITE ID.--383553077032401. PERMIT NUMBER.--CH-94-0899.  
 LOCATION.--Lat 38°35'53", long 77°03'24", Hydrologic Unit 02070011, 2.5 mi southeast of Pomonkey, on east side of MD Rt. 227.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,105 ft; casing diameter 4 in., to 1,040 ft, and 1,050 to 1,085 ft, and 1,095 to 1,105 ft; screen diameter 4 in. from 1,040 to 1,050 ft, and 1,085 to 1,095 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by Maryland Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval, Sept. 1, 1998 to April 19, 2000.  
 DATUM.--Elevation of land surface is 47.50 ft above sea level.  
 Measuring Point: Top of flange, 3.00 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal..  
 PERIOD OF RECORD.--October 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.03 ft above sea level, Nov. 9, 1996;  
 lowest measured, 19.65 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-16.45	FEB 06, 2001	-16.15	MAY 23, 2001	-18.73	AUG 23, 2001	-19.65
NOV 10	-16.41	MAR 15	-17.33	JUN 21	-18.73		
JAN 12, 2001	-16.36	APR 12	-16.46	JUL 17	-19.01		

WATER YEAR 2001      HIGHEST -16.15 FEB 06, 2001      LOWEST -19.65 AUG 23, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

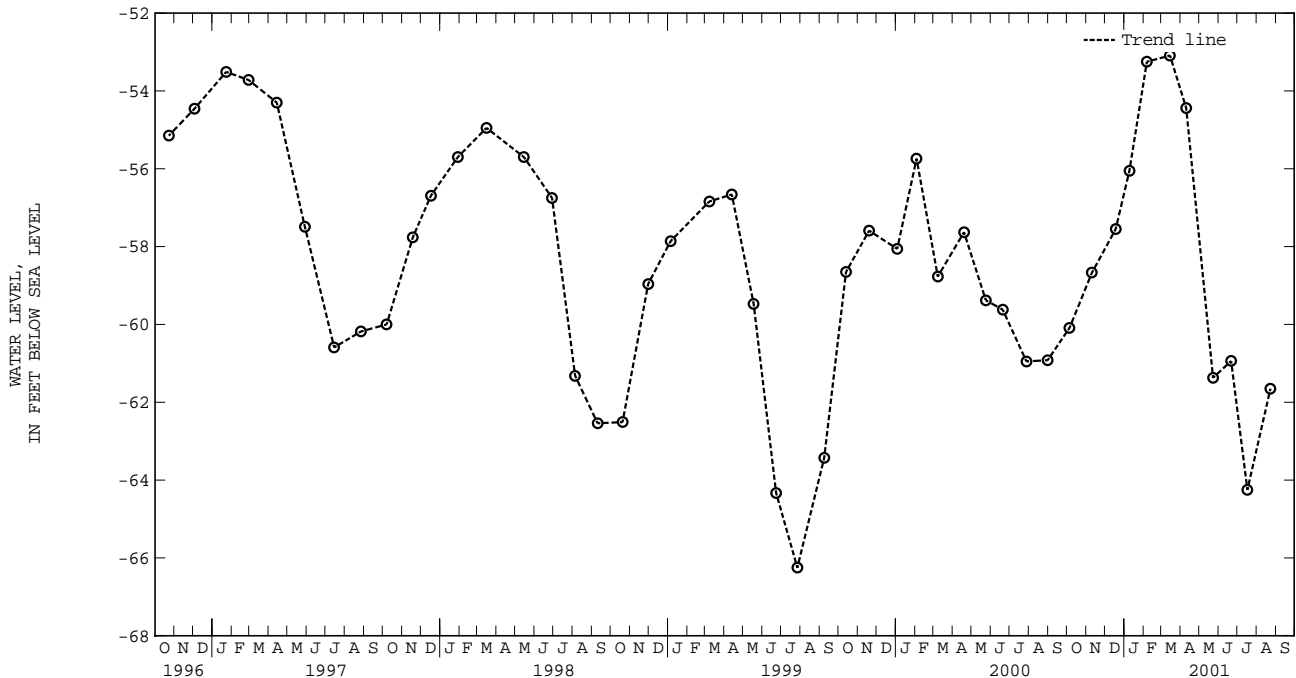


CHARLES COUNTY--Continued

WELL NUMBER.--CH Be 43. SITE ID.--38381907655501. PERMIT NUMBER.--CH-71-0066.  
 LOCATION.--Lat 38°38'19", long 76°55'55", Hydrologic Unit 02070011, at northeast end of Joy Lane, 0.2 mi east of Sun Valley Drive, Waldorf.  
 Owner: Lennart Larson.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 459 ft; casing diameter 6 in., to 428 ft; screen diameter 5 in. from 433 to 459 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from Feb. 10, 1977 to Jan. 27, 1978. Equipped with digital water-level recorder--60-minute recorder interval from Feb. 27, 1978 to Jan. 3, 2000.  
 DATUM.--Elevation of land surface is 216.79 ft above sea level.  
 Measuring Point: Top of casing, 2.0 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--February 1977 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.05 ft above sea level, Feb. 22, 1977; lowest measured, 66.69 ft below sea level, July 22-24, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-60.09	JAN 09, 2001	-56.05	APR 10, 2001	-54.44	JUL 17, 2001	-64.25
NOV 10	-58.67	FEB 06	-53.25	MAY 23	-61.37	AUG 23	-61.65
DEC 18	-57.55	MAR 15	-53.09	JUN 21	-60.94		
WATER YEAR 2001 HIGHEST -53.09 MAR 15, 2001		LOWEST -64.25 JUL 17, 2001					



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Be 57. SITE ID.--383706076575601. PERMIT NUMBER.--CH-81-1194.

LOCATION.--Lat 38°37'06", long 76°57'56", Hydrologic Unit 02070011, St. John's pumping station, St. Charles.

Owner: Charles County Department of Public Works.

AQUIFER.--Upper Patuxant aquifer of the Patuxant Formation of Lower Cretaceous age. Aquifer code: 217PTXNU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,696 ft; casing diameter 6 in., to 400 ft; casing diameter 4 in. from 400 to 1,660 ft, screen diameter 4 in. from 1,660 to 1,696 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel from April 1992 to current year.

DATUM.--Elevation of land surface is 213.00 ft above sea level.

Measuring Point: Top of flange, 2.00 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

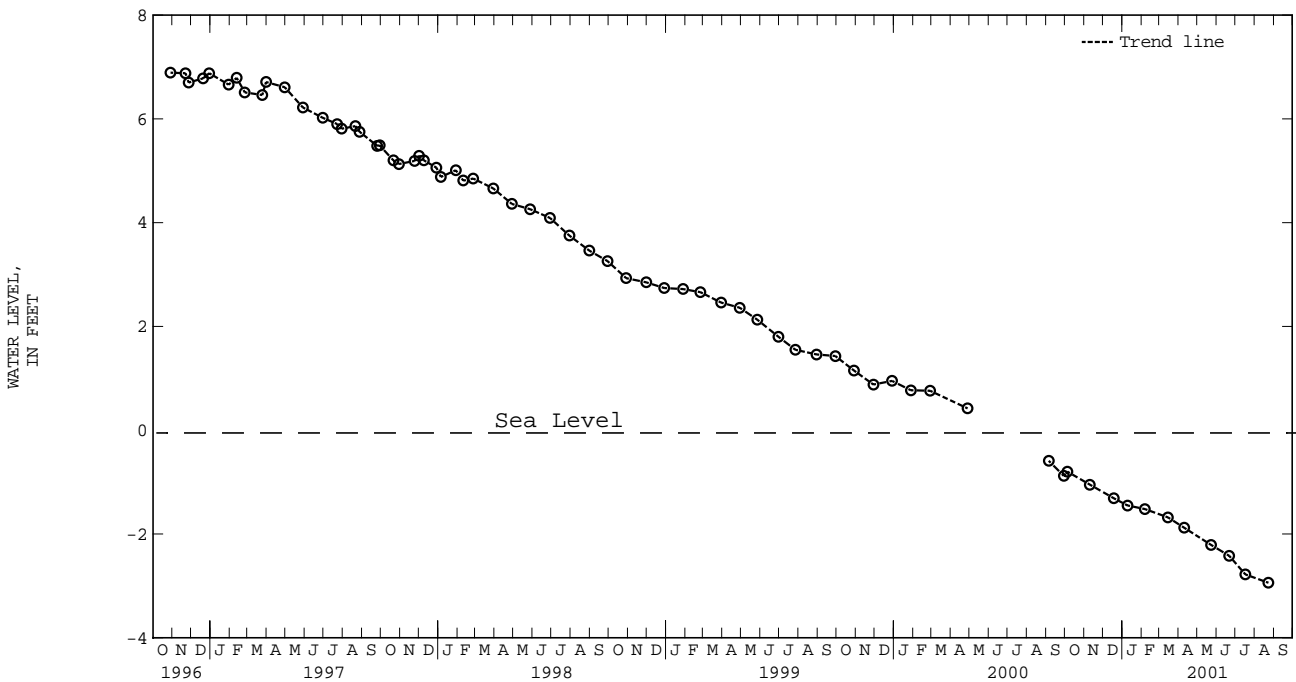
PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.90 ft above sea level, April 3, 1986; lowest measured, 2.94 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-0.80	JAN 09, 2001	-1.45	APR 10, 2001	-1.88	JUL 17, 2001	-2.78
NOV 10	-1.05	FEB 06	-1.52	MAY 23	-2.21	AUG 23	-2.94
DEC 18	-1.31	MAR 15	-1.68	JUN 21	-2.42		

WATER YEAR 2001 HIGHEST -0.80 OCT 05, 2000 LOWEST -2.94 AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

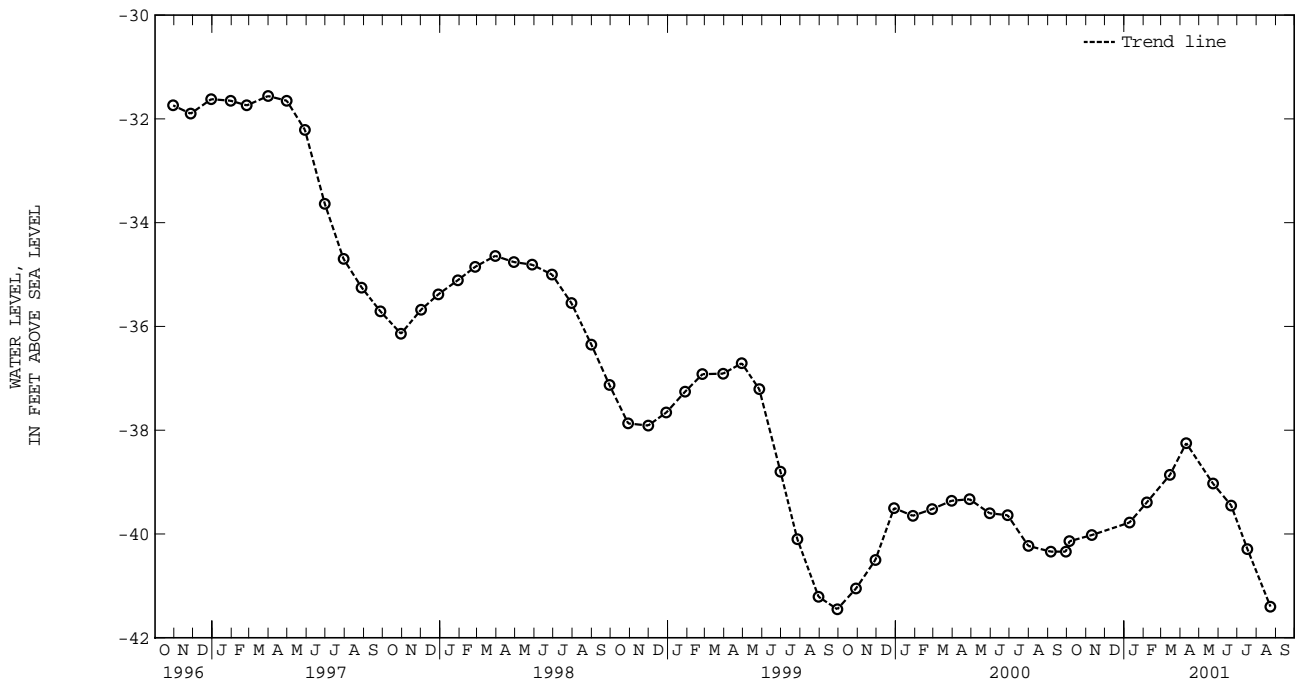
CHARLES COUNTY--Continued

WELL NUMBER.--CH Be 60. SITE ID.--383706076575604. PERMIT NUMBER.--CH-81-1468.  
 LOCATION.--Lat 38°37'06", long 76°57'56", Hydrologic Unit 02070011, St. John's pumping station, St. Charles.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 625 ft; casing diameter 6 in., to 401 ft; casing diameter 4 in. from 401 ft to 610 ft, and 625 to 635 ft; screen diameter 4 in. from 610 to 625 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological personnel from April 1992 to current year.  
 DATUM.--Elevation of land surface is 212.80 ft above sea level.  
 Measuring Point: Top of flange, 2.20 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--November 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.30 ft below sea level, April 10, 1987; lowest measured, 41.45 ft below sea level, Sept. 29, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-40.14	FEB 06, 2001	-39.39	MAY 23, 2001	-39.03	AUG 23, 2001	-41.40
NOV 10	-40.02	MAR 15	-38.86	JUN 21	-39.45		
JAN 09, 2001	-39.78	APR 10	-38.25	JUL 17	-40.29		

WATER YEAR 2001      HIGHEST -38.25 APR 10, 2001      LOWEST -41.40 AUG 23, 2001



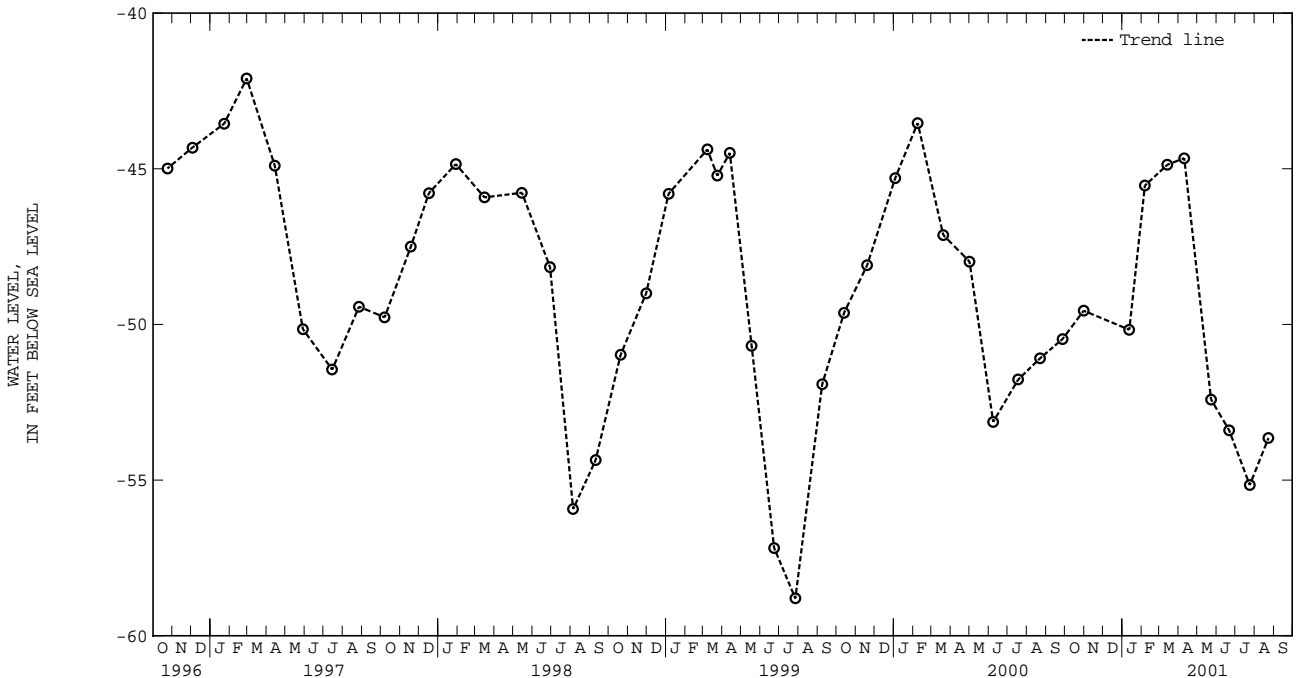
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 101. SITE ID.--383853076532601. PERMIT NUMBER.--CH-01-1882.  
 LOCATION.--Lat 38°38'53", long 76°53'26", Hydrologic Unit 02070011, at Sam's Club, 1.7 mi. northwest of Waldorf.  
 Owner: Sam's Club.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 475 ft; casing diameter 6 in., to 423 ft, and 438 to 449 ft; screen diameter 6 in. from 423 to 438 ft, and 449 to 475 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from Nov. 20, 1976 to Feb. 6, 1978. Equipped with digital water-level recorder--60-minute recorder interval from Feb. 26, 1978 to Oct. 21, 2000. Recorder removed from May 14, 1991 to November 19, 1991 during construction at the site.  
 DATUM.--Elevation of land surface is 216.45 ft above sea level.  
 Measuring Point: Top of shelter platform, 1.18 ft above land surface.  
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local and regional ground-water withdrawal. Recorder removed May 14, 1991 to Nov. 19, 1991 during building construction.  
 PERIOD OF RECORD.--November 1976 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft above sea level, Jan. 16, 1977; lowest measured, 61.25 ft below sea level, June 14, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	-49.56	MAR 14, 2001	-44.87	JUN 21, 2001	-53.40
JAN 12, 2001	-50.17	APR 10	-44.66	JUL 24	-55.16
FEB 06	-45.54	MAY 23	-52.41	AUG 23	-53.65
WATER YEAR 2001 HIGHEST -44.66 APR 10, 2001		LOWEST -55.16 JUL 24, 2001			

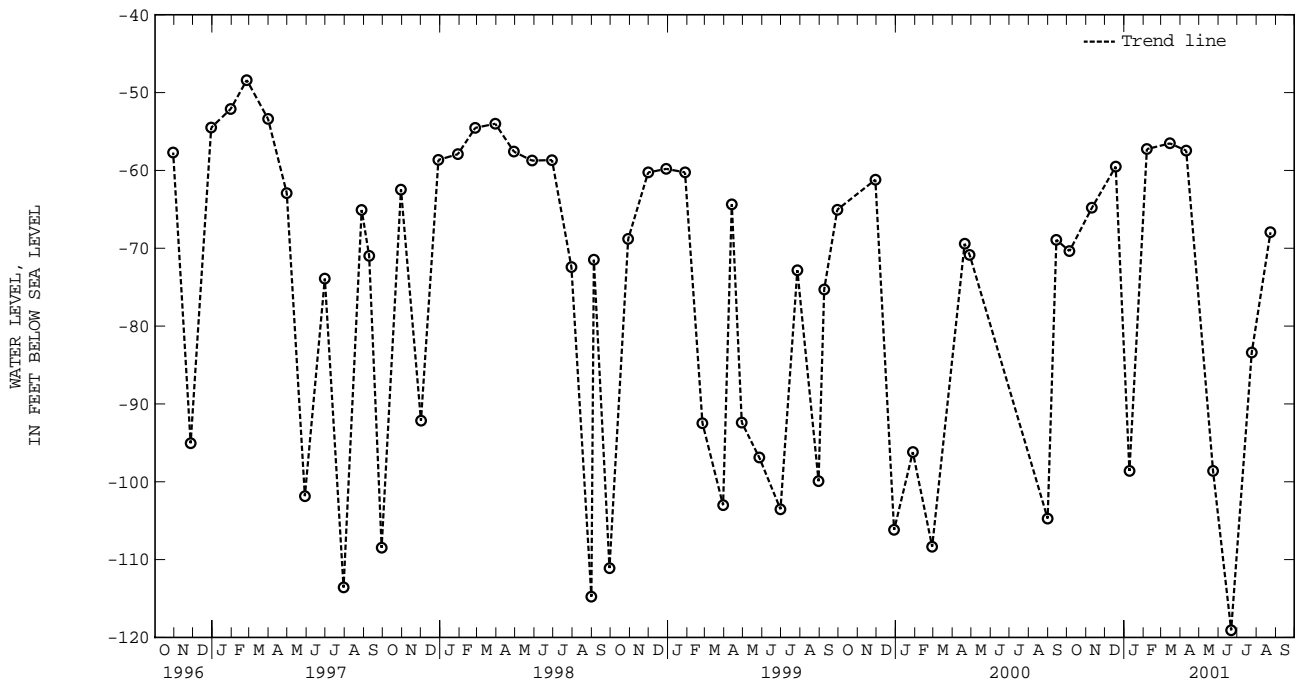


CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 133. SITE ID.--383640076545901. PERMIT NUMBER.--CH-70-0069.  
 LOCATION.--Lat 38°36'40", long 76°54'59", Hydrologic Unit 02070011, at St. Charles, Copely Rd. pumping station.  
 Owner: Charles County Department of Public Works.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 510 ft; casing diameter 10 in., to 77 ft;  
 casing diameter 6 in. from -2 to 420 ft, casing diameter 4 in. from 420 to 436 ft and 506 to 510 ft;  
 screen diameter 4 in. from 436 to 506 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel  
 from April 1992 to current year. Twice yearly measurements from April 1974 to April 1992.  
 DATUM.--Elevation of land surface is 223.50 ft above sea level.  
 Measuring Point: Top of casing, 0.82 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1974 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.82 ft above sea level, April 26, 1974;  
 lowest measured, 119.08 ft below sea level, June 21, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-70.37	JAN 09, 2001	-98.61	APR 10, 2001	-57.46	JUL 24, 2001	-83.38
NOV 10	-64.79	FEB 06	-57.26	MAY 23	-98.62	AUG 23	-67.95
DEC 18	-59.51	MAR 15	-56.52	JUN 21	-119.08		
WATER YEAR 2001		HIGHEST	-56.52	MAR 15, 2001	LOWEST	-119.08	JUN 21, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

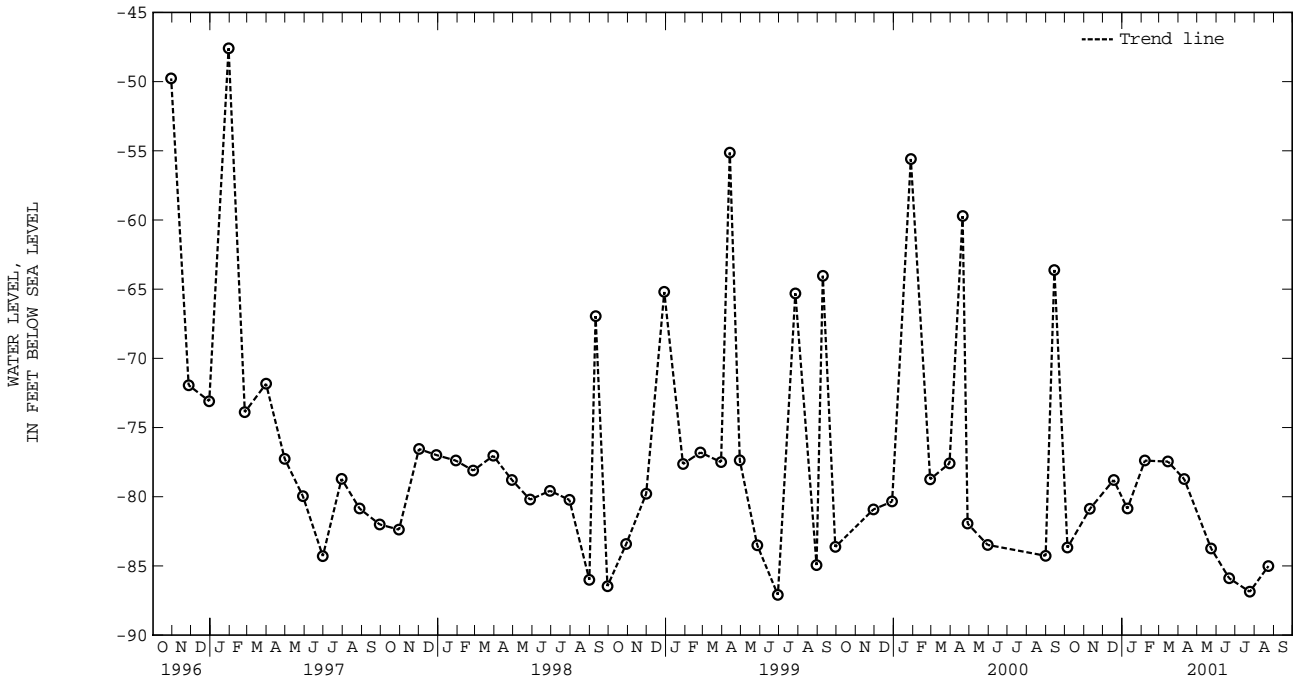
CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 134. SITE ID.--383728076531701. PERMIT NUMBER.--CH-70-0067.  
 LOCATION.--Lat 38°37'28", long 76°53'17", Hydrologic Unit 02070011, at John Hansen Middle School parking lot, at Waldorf.  
 Owner: Charles County Department of Public Works.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 546 ft; casing diameter 6 in., to 402 ft; casing diameter 4 in. from 422 to 485 ft; screen diameter 4 in. from 402 to 422 ft and 485 to 546 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 202.09 ft above sea level.  
 Measuring point: Top of casing, 1.52 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1974 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.22 ft above sea level, April 26, 1974;  
 lowest measured, 87.09 ft below sea level, June 29, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-83.68	JAN 09, 2001	-80.86	APR 10, 2001	-78.73	JUL 24, 2001	-86.87
NOV 10	-80.87	FEB 06	-77.39	MAY 23	-83.73	AUG 23	-85.01
DEC 18	-78.79	MAR 15	-77.46	JUN 21	-85.89		

WATER YEAR 2001      HIGHEST -77.39 FEB 06, 2001      LOWEST -86.87 JUL 24, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 146. SITE ID.--383508076540701. PERMIT NUMBER.--CH-81-0593.

LOCATION.--Lat 38°35'08", long 76°54'07", Hydrologic Unit 02070011, 0.3 mi south of the intersection of St. Pauls Dr. and Piney Church Rd., St. Charles.

Owner: Charles County Department of Public Works.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,427 ft; casing diameter 6 in., to 1,059 ft, 1,069 to 1,073 ft, 1,083 to 1,161 ft, 1,166 to 1,170 ft, 1,180 to 1,184 ft, 1,189 to 1,195 ft, 1,205 to 1,244 ft, 1,249 to 1,252 ft, 1,262 to 1,298 ft, 1,328 to 1,342 ft, and 1,417 to 1,427 ft; screen diameter 10 in. from 1,059 to 1,069 ft, 1,073 to 1,083 ft, 1,161 to 1,166 ft, 1,170 to 1,180 ft, 1,184 to 1,189 ft, 1,195 to 1,205 ft, 1,244 to 1,249 ft, 1,252 to 1,262 ft, 1,298 to 1,328 ft, and 1,342 to 1,417 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 192.80 ft above sea level.

Measuring Point: Top of casing, 2.10 ft above land surface.

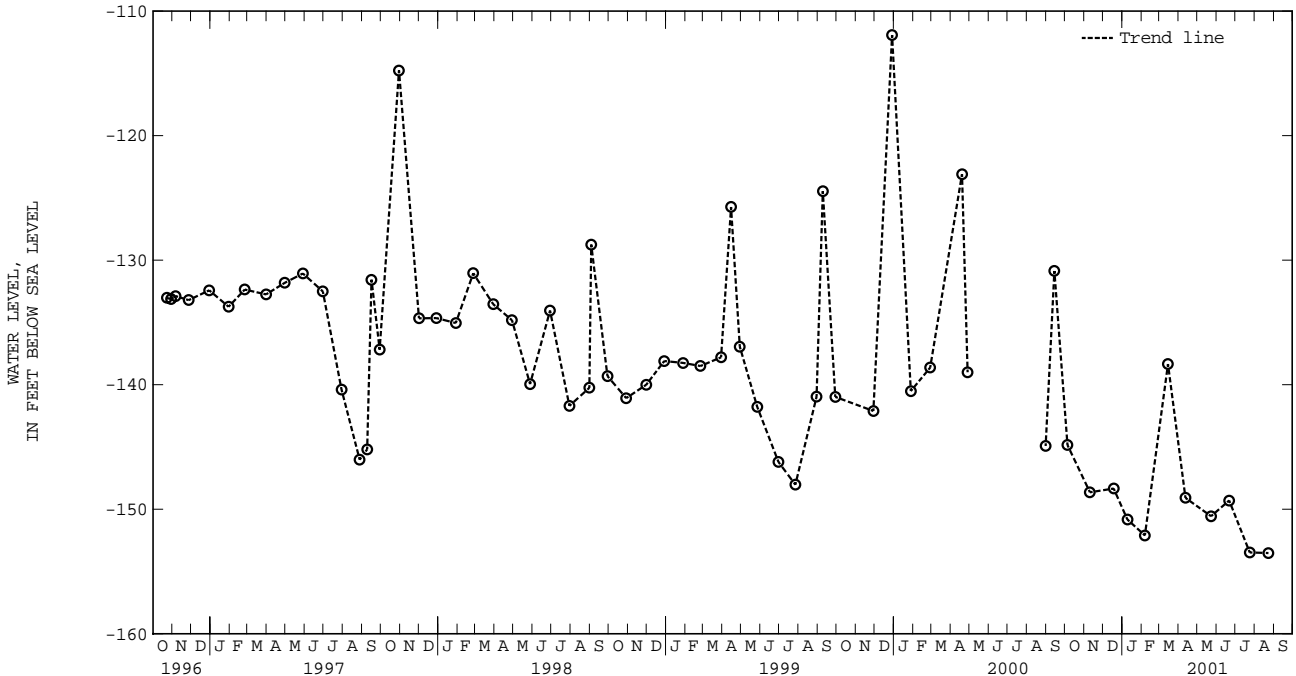
REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft below sea level, April 4, 1985; lowest measured, 153.52 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-144.85	JAN 09, 2001	-150.83	APR 12, 2001	-149.09	JUL 24, 2001	-153.47
NOV 10	-148.64	FEB 06	-152.10	MAY 23	-150.56	AUG 23	-153.52
DEC 18	-148.34	MAR 15	-138.34	JUN 21	-149.30		
WATER YEAR 2001		HIGHEST -138.34	MAR 15, 2001		LOWEST -153.52	AUG 23, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 151 . SITE ID.--383508076540703 . PERMIT NUMBER.--CH-81-1265.  
 LOCATION.--Lat 38°35'08", long 76°54'07", Hydrologic Unit 02070011, 0.3 mi south of the intersection of St. Pauls Dr. and Piney Church Rd., St. Charles.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 660 ft; casing diameter 6 in., to 399 ft; casing diameter 4 in. from 399 to 645 ft; screen diameter 4 in. from 645 to 660 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from August 18, 1987 to current year.  
 DATUM.--Elevation of land surface is 192.8 ft above sea level.  
 Measuring Point: Top of casing, 2.20 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--August 1987 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.39 ft below sea level, March 27, 1988; lowest measured, 60.93 ft below sea level, July 20, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	-53.66	-53.67	-52.75	-52.79	-52.07	-52.18
2	---	---	---	---	---	---	---	---	-52.71	-52.79	---	---
3	---	---	-56.24	-56.34	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	-51.84	-51.89
6	-56.55	-56.59	---	---	---	---	---	---	---	---	-51.76	-51.85
7	-56.59	-56.60	---	---	---	---	-53.41	-53.44	-52.55	-52.63	-51.80	-51.91
8	---	---	---	---	---	---	-53.36	-53.42	-52.57	-52.63	-51.87	-51.91
9	---	---	---	---	---	---	---	---	-52.36	-52.57	---	---
10	---	---	---	---	---	---	---	---	-52.30	-52.47	---	---
11	-56.72	-56.77	---	---	---	---	---	---	-52.47	-52.54	-51.84	-51.87
12	---	---	---	---	-54.62	-54.88	---	---	-52.48	-52.54	-51.74	-51.88
13	---	---	---	---	---	---	-53.86	-53.88	-52.40	-52.48	-51.59	-51.74
14	---	---	---	---	---	---	-53.77	-53.87	-52.26	-52.40	-51.60	-51.83
15	---	---	-55.66	-55.79	---	---	---	---	-52.23	-52.30	-51.82	-51.83
16	-56.83	-57.04	---	---	---	---	---	---	-52.26	-52.30	-51.59	-51.82
17	---	---	---	---	---	---	---	---	---	---	-51.52	-51.59
18	---	---	-55.77	-55.87	---	---	-53.51	-53.60	---	---	-51.53	-51.59
19	---	---	-55.76	-55.83	---	---	-53.37	-53.51	---	---	-51.59	-51.65
20	---	---	---	---	---	---	-53.19	-53.47	-52.25	-52.33	-51.65	-51.71
21	---	---	---	---	---	---	---	---	-52.25	-52.49	-51.52	-51.71
22	---	---	---	---	---	---	---	---	---	---	-51.52	-51.67
23	---	---	---	---	---	---	---	---	---	---	-51.67	-51.78
24	-57.25	-57.32	---	---	---	---	---	---	-52.55	-52.60	-51.78	-51.87
25	---	---	---	---	---	---	---	---	-52.27	-52.59	-51.87	-51.91
26	---	---	---	---	---	---	---	---	-52.27	-52.29	-51.90	-51.97
27	-56.79	-57.05	---	---	---	---	-52.93	-53.01	-52.24	-52.38	-51.97	-52.07
28	-56.74	-56.79	---	---	---	---	---	---	-52.18	-52.24	-52.07	-52.14
29	---	---	-55.66	-55.69	---	---	---	---	---	---	-52.05	-52.15
30	---	---	---	---	---	---	-52.69	-52.95	---	---	-51.98	-52.05
31	---	---	---	---	---	---	---	---	---	---	-52.01	-52.02
MONTH	-56.55	-57.32	-55.66	-56.34	-54.62	-54.88	-52.69	-53.88	-52.18	-52.79	-51.52	-52.18



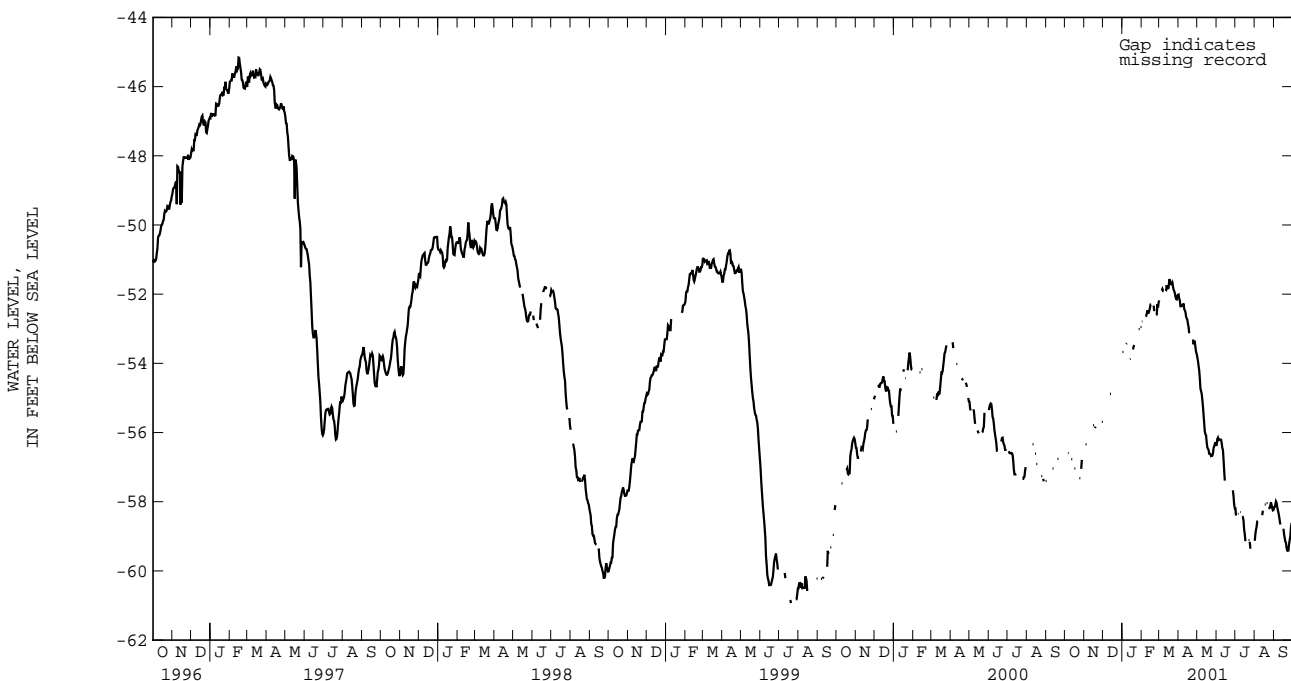
CHARLES COUNTY--Continued

CH Bf 151 --Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-51.98	-52.01	-53.73	-53.82	-56.19	-56.36	-58.19	-58.19	-58.93	-59.13	-58.15	-58.16
2	-52.01	-52.13	-53.82	-53.93	-56.15	-56.19	-58.19	-58.40	-58.81	-58.93	-58.08	-58.15
3	-52.13	-52.18	-53.93	-54.07	-56.14	-56.15	---	---	-58.72	-58.81	-57.99	-58.08
4	-52.18	-52.35	-54.07	-54.20	-56.15	-56.22	---	---	-58.57	-58.72	-57.93	-57.99
5	-52.34	-52.35	-54.20	-54.43	-56.18	-56.21	-58.23	-58.35	-58.56	-58.57	-57.94	-58.03
6	-52.23	-52.34	-54.43	-54.73	-56.19	-56.20	-58.23	-58.35	-58.56	-58.56	-58.03	-58.16
7	-52.24	-52.32	-54.73	-54.80	-56.19	-56.21	---	---	---	---	-58.16	-58.24
8	-52.26	-52.32	-54.80	-54.88	-56.21	-56.21	---	---	---	---	-58.24	-58.32
9	-52.22	-52.27	-54.88	-55.04	-56.21	-56.30	-58.29	-58.30	---	---	-58.32	-58.42
10	-52.24	-52.43	-55.04	-55.25	-56.30	-56.44	-58.27	-58.30	---	---	-58.42	-58.54
11	-52.43	-52.47	-55.25	-55.48	-56.44	-56.50	---	---	---	---	-58.54	-58.66
12	-52.47	-52.52	-55.48	-55.74	-56.50	-56.77	-58.29	-58.42	---	---	---	---
13	-52.52	-52.65	-55.74	-55.97	-56.77	-57.10	-58.42	-58.44	-58.26	-58.39	---	---
14	-52.65	-52.70	-55.97	-56.05	-57.10	-57.39	-58.44	-58.54	-58.18	-58.26	---	---
15	-52.70	-52.74	-56.05	-56.08	---	---	-58.54	-58.81	---	---	---	---
16	-52.73	-52.86	-56.08	-56.28	---	---	-58.81	-58.93	---	---	-58.77	-58.78
17	-52.86	-52.95	-56.28	-56.43	---	---	-58.93	-59.14	-58.03	-58.08	-58.78	-58.94
18	-52.95	-53.13	-56.43	-56.47	---	---	---	---	---	---	-58.93	-59.05
19	---	---	-56.47	-56.50	---	---	---	---	---	---	-59.05	-59.15
20	---	---	-56.50	-56.61	---	---	---	---	-58.04	-58.04	-59.12	-59.19
21	---	---	-56.60	-56.61	---	---	---	---	---	---	-59.19	-59.33
22	---	---	-56.60	-56.63	---	---	-59.03	-59.11	---	---	-59.33	-59.41
23	---	---	-56.61	-56.68	---	---	---	---	-58.19	-58.20	-59.41	-59.42
24	-53.12	-53.31	-56.67	-56.67	---	---	-59.07	-59.16	-58.18	-58.19	-59.22	-59.41
25	-53.30	-53.45	-56.61	-56.67	---	---	-59.16	-59.36	-58.10	-58.18	-59.11	-59.22
26	-53.30	-53.37	-56.45	-56.61	---	---	---	---	-58.02	-58.10	-59.00	-59.11
27	-53.36	-53.37	-56.40	-56.45	-57.61	-57.67	---	---	-58.02	-58.02	-58.74	-59.00
28	-53.37	-53.54	-56.34	-56.40	-57.67	-57.84	---	---	-58.02	-58.10	-58.61	-58.74
29	-53.54	-53.67	-56.27	-56.34	-57.84	-58.08	---	---	-58.10	-58.18	-58.45	-58.61
30	-53.67	-53.73	-56.27	-56.28	-58.08	-58.19	---	---	-58.18	-58.25	---	---
31	---	---	-56.28	-56.36	---	---	---	---	-58.15	-58.24	---	---
MONTH	-51.98	-53.73	-53.73	-56.68	-56.14	-58.19	-58.19	-59.36	-58.02	-59.13	-57.93	-59.42
YEAR	-51.52	-59.42										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

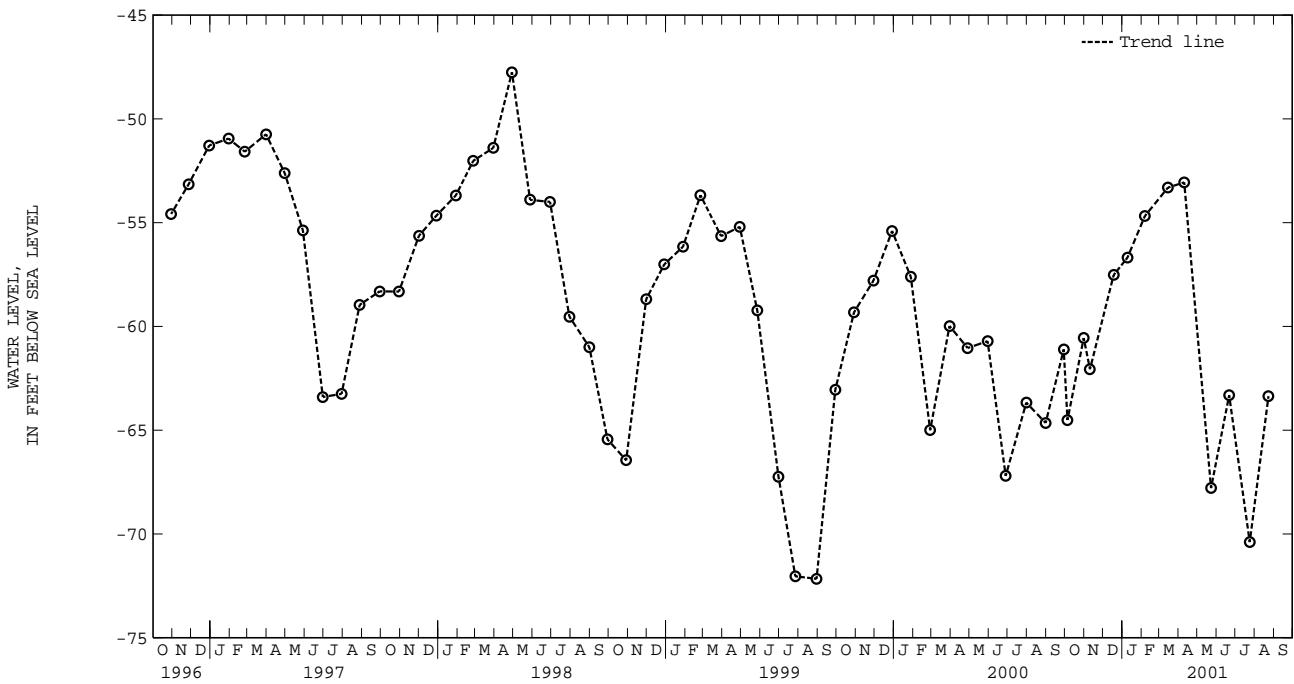
GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 157. SITE ID.--383637076545803. PERMIT NUMBER.--CH-81-1846.  
 LOCATION.--Lat 38°36'40", long 76°54'59", Hydrologic Unit 02070011, at St. Charles, Copely Rd. pumping station.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 623 ft; casing diameter 6 in., to 396 ft; casing diameter 4 in. from 396 to 608 ft; screen diameter 4 in. from 608 to 623 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 225.00 ft above sea level.  
 Measuring point: Top of casing, 1.70 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--November 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.75 ft below sea level, April 29, 1998; lowest measured, 72.16 ft below sea level, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-64.51	DEC 18, 2000	-57.52	MAR 15, 2001	-53.31	JUN 21, 2001	-63.32
31	-60.56	JAN 09, 2001	-56.69	APR 10	-53.06	JUL 24	-70.39
NOV 10	-62.06	FEB 06	-54.68	MAY 23	-67.79	AUG 23	-63.36
WATER YEAR 2001 HIGHEST -53.06		APR 10, 2001		LOWEST -70.39		JUL 24, 2001	





GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bg 12. SITE ID.--383746076482901. PERMIT NUMBER.--CH-81-0600.

LOCATION.--Lat 38°37'46", long 76°48'29", Hydrologic Unit 02070011, Cedarville State Forest, near Forest Rd.

Owner: U.S. Geological Survey.

AQUIFER.--Calvert Formation of Lower middle Miocene age. Aquifer code: 122CLVR.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 24.5 ft; casing diameter 4 in., to 13.5 ft; casing diameter 2 in., from 18.5 to 24.5 ft; screen diameter 2 in. from 13.5 to 18.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 149.69 ft above sea level.

Measuring Point: Top of casing, 2.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

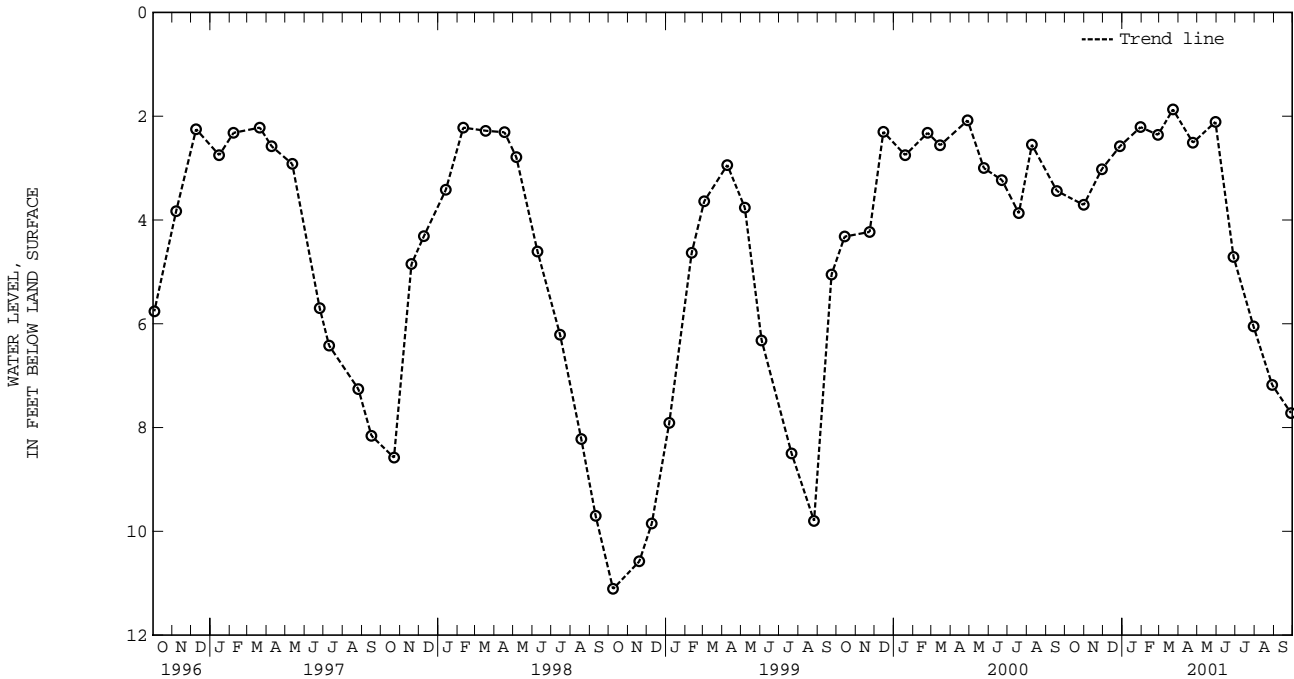
PERIOD OF RECORD.--August 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.87 ft below land surface, March 23, 2001;

lowest measured, 11.11 ft below land surface, Oct. 8, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	3.71	JAN 30, 2001	2.21	APR 24, 2001	2.51	JUL 30, 2001	6.05
NOV 29	3.02	FEB 27	2.36	MAY 30	2.11	AUG 29	7.18
DEC 28	2.58	MAR 23	1.87	JUN 28	4.71	SEP 28	7.72
WATER YEAR 2001 HIGHEST		1.87 MAR 23, 2001	LOWEST		7.72 SEP 28, 2001		



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Cb 7. SITE ID.--383422077114601. PERMIT NUMBER.--CH-01-1908.

LOCATION.--Lat 38°34'22", long 77°11'46", Hydrologic Unit 02070011, at Caffee and Greenslade Rds., U.S. Naval Ordnance Station, about 2.5 mi southwest of Indian Head.

Owner: U.S. Navy.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 167 ft; casing diameter 8 in., to 144 ft; screen diameter 6 in. from 144 to 167 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder Sept. 21, 1953 to July 8, 1965 and digital water-level recorder--60-minute recorder interval, April 28, 1988 to June 20, 2000.

DATUM.--Elevation of land surface is 36.0 ft above sea level.

Measuring point: Top of casing, 1.08 ft above land surface.

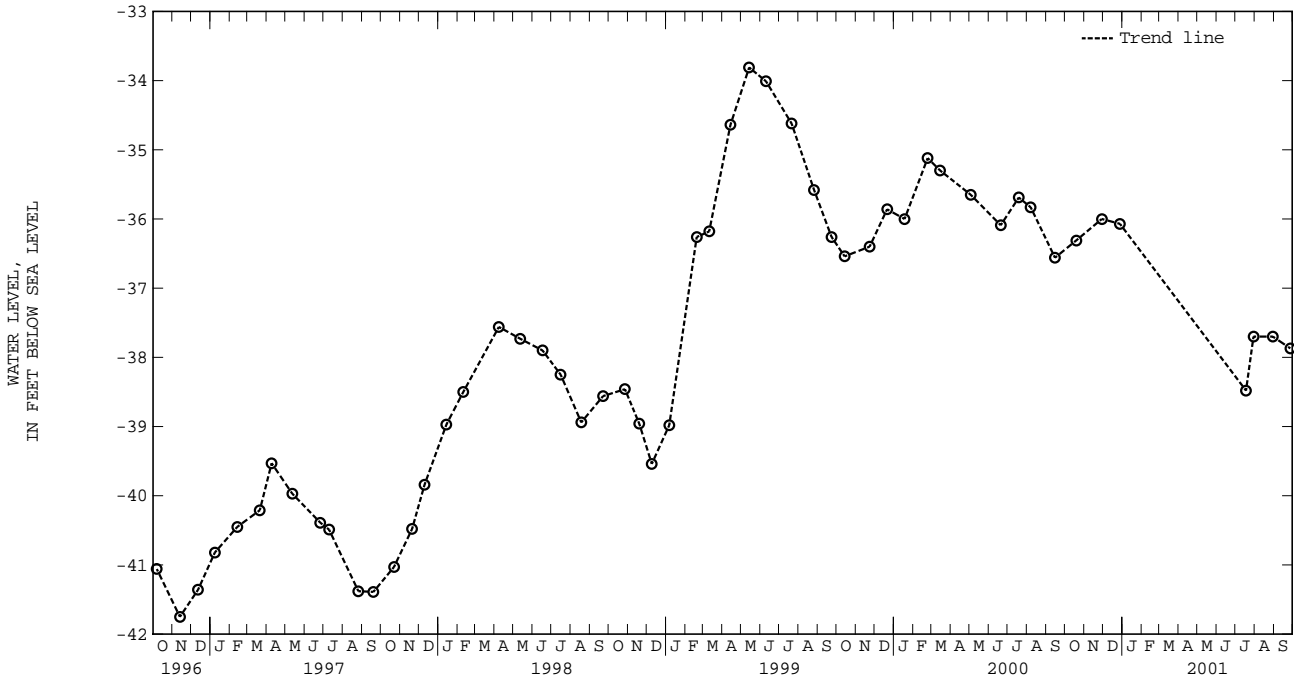
REMARKS.--Maryland Water-Level Network and Indian Head Project observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--March and April 1952, August 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.35 ft below sea level, April 18, 1952; lowest measured, 53.33 ft below sea level, Aug. 12, 14, 1989.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	-36.31	DEC 28, 2000	-36.07	JUL 30, 2001	-37.70	SEP 27, 2001	-37.87
NOV 29	-36.00	JUL 18, 2001	-38.48	AUG 30	-37.70		
WATER YEAR 2001 HIGHEST -36.00 NOV 29, 2000		LOWEST -38.48 JUL 18, 2001					



GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Cc 31. SITE ID.--383455077074401. PERMIT NUMBER.--CH-73-1416.

LOCATION.--Lat 38°34'55", long 77°07'44", Hydrologic Unit 02070011, at Mattawoman Natural Environment Area, approximately 2,000 ft west of the intersection of MD Rts. 224, and 425.

Owner: Maryland Department of Natural Resources.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 559 ft; casing diameter 6 in., to 200 ft; casing diameter 4 in., from 200 to 438 ft., 453 to 480 ft, 505 to 540 ft, and 554 to 559 ft; screen diameter 4 in. from 438 to 453 ft, 480 to 505 ft, and 540 to 554 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, Oct. 27, 1998 to June 20, 2000 and from July 11, 2001 to current year.

DATUM.--Elevation of land surface is 35.00 ft above sea level.

Measuring point: Top of shelter platform, 3.75 ft above land surface.

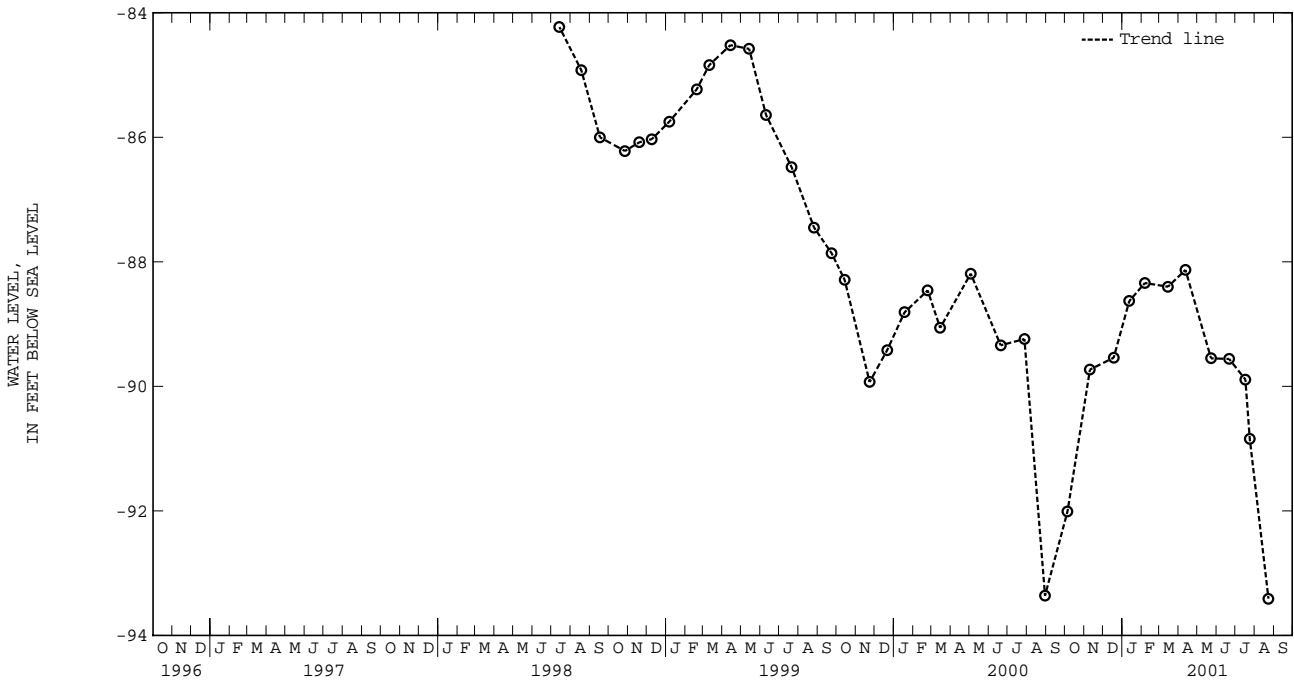
REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 84.23 ft below sea level, July 14, 1998; lowest measured, 94.29 ft below sea level, Oct. 14, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-92.01	JAN 12, 2001	-88.63	APR 12, 2001	-88.13	JUL 17, 2001	-89.89
NOV 10	-89.73	FEB 06	-88.34	MAY 23	-89.55	24	-90.84
DEC 18	-89.54	MAR 15	-88.40	JUN 21	-89.56	AUG 23	-93.41
WATER YEAR 2001		HIGHEST	-88.13	APR 12, 2001	LOWEST	-93.41	AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Cc 34. SITE ID.--383441077063901. PERMIT NUMBER.--CH-94-0897.

LOCATION.--Lat 38°34'41", long 77°06'39", Hydrologic Unit 02070011, at Mattawoman Water Treatment Plant.

Owner: Maryland Geological Survey.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 975 ft; casing diameter 4 in., to 874 ft, 884 to 945 ft, and 965 to 975 ft; screen diameter 4 in. from 874 to 884 ft, and 945 to 955 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recorder interval, Aug. 28, 1996 to current year.

DATUM.--Elevation of land surface is 41.82 ft above sea level.

Measuring Point: Top of recorder shelf, 3.0 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

A well pump test occurred on Sept. 21, 1999 at a nearby production well.

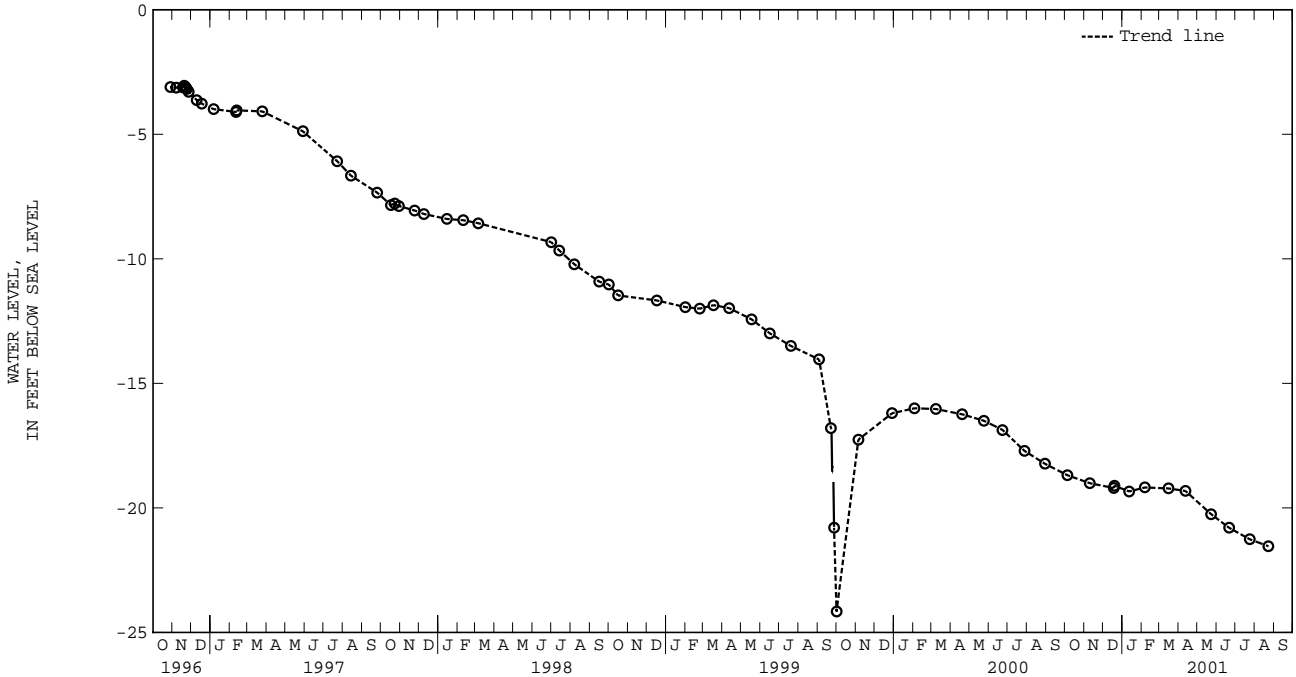
PERIOD OF RECORD.--August 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.80 ft below sea level, Oct. 8, 1996;  
lowest measured, 25.75 ft below sea level, September 29, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-18.69	DEC 19, 2000	-19.11	MAR 16, 2001	-19.22	JUN 21, 2001	-20.80
NOV 10	-19.01	JAN 12, 2001	-19.34	APR 12	-19.32	JUL 24	-21.26
DEC 18	-19.20	FEB 06	-19.18	MAY 23	-20.25	AUG 23	-21.54

WATER YEAR 2001    HIGHEST -18.69 OCT 05, 2000    LOWEST -21.54 AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ce 37. SITE ID.--383236076563901. PERMIT NUMBER.--CH-73-0219.

LOCATION.--Lat 38°32'36", long 76°56'39", Hydrologic Unit 02070011, at LaPlata Water Treatment Plant, 2.0 mi. northeast of La Plata.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1340 ft; casing diameter 6 in., to 300 ft;

casing diameter 4 in. from 300 to 1,174 ft, 1,184 to 1,250 ft, and 1,260 to 1,330 ft;

screen diameter 4 in. from 1,174 to 1,184 ft, 1,250 to 1,260 ft, and 1,330 to 1,340 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with graphic water-level recorder from Nov. 23, 1973 to Dec. 10, 1975. Equipped with digital water-level

recorder--15-minute recorder interval from July 12, 1976 to October 1998.

DATUM.--Elevation of land surface is 184.95 ft above sea level.

Measuring Point: Top of casing, 3.62 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--November 1973 to current year.

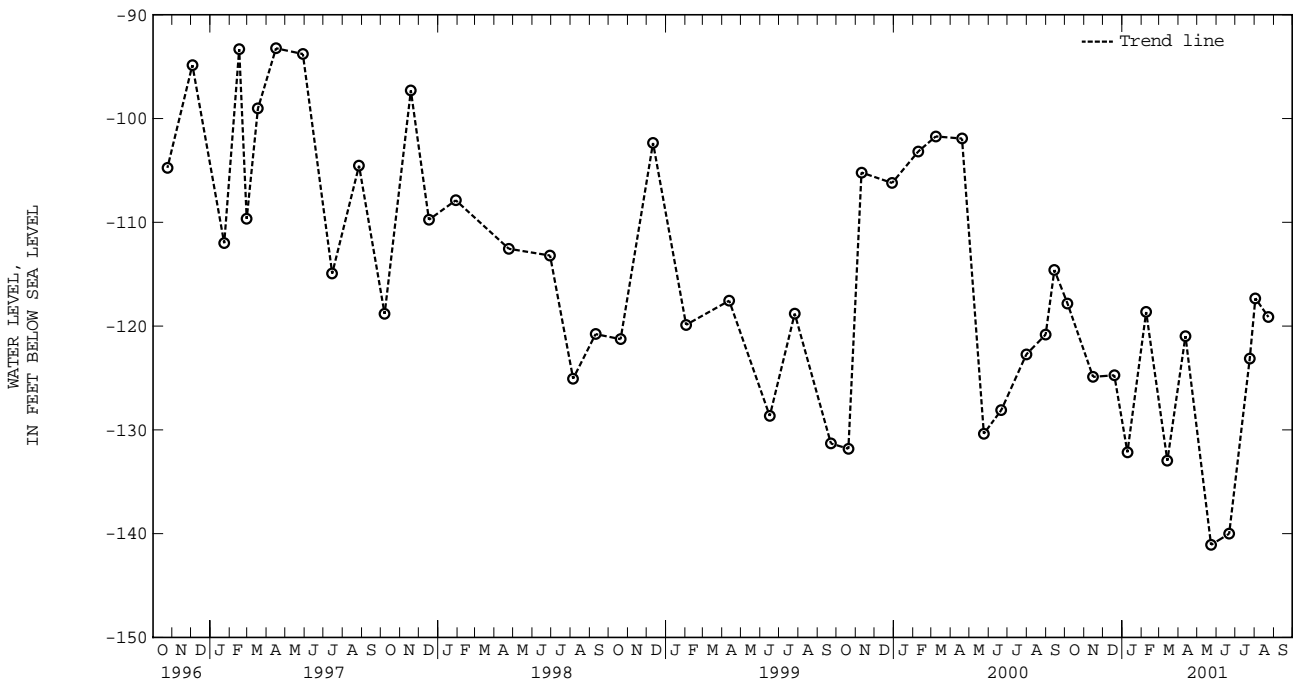
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .19 ft below sea level, Nov. 5, 1973;

lowest measured, 141.08 ft below sea level, May 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-117.82	JAN 09, 2001	-132.16	APR 12, 2001	-120.96	JUL 24, 2001	-123.14
NOV 15	-124.89	FEB 08	-118.64	MAY 23	-141.08	AUG 02	-117.32
DEC 19	-124.74	MAR 14	-132.96	JUN 21	-140.01	23	-119.13

WATER YEAR 2001 HIGHEST -117.32 AUG 02, 2001 LOWEST -141.08 MAY 23, 2001





## CHARLES COUNTY--Continued

WELL NUMBER.--CH Ce 56. SITE ID.--383251076583901. PERMIT NUMBER.--CH-94-1111

LOCATION.--Lat 38°32'51", long 76°58'39", Hydrologic Unit 02070011, Heritage Green, LaPlata.

Owner: Town of La Plata.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,268 ft; casing diameter 6 in., to 475 ft; 4 in., from 475 to 896 ft, 906 to 945 ft, 950 to 957 ft, 962 to 993 ft, 1,008 to 1,024 ft, 1,029 to 1,037 ft, 1,042 to 1,094 ft, 1,134 to 1,166 ft, 1,186 to 1,204 ft, 1,214 to 1,248 ft and 1,258 to 1,268ft;

Screen diameter 4 in. from 896 to 906 ft, 945 to 950 ft, 957 to 962 ft, 993 to 1,008 ft, 1,024 to 1,029 ft, 1,037 to 1,042 ft, 1,094 to 1,134 ft, 1,166 to 1,186 ft, 1,204 to 1,214 ft and 1,248 to 1,258 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--15-minute recorder interval, Aug. 28, 1997 To current year.

DATUM.--Elevation of land surface is 196.48 ft above sea level.

Measuring point: Top of recorder platform 2.85 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction

PERIOD OF RECORD.--March 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87.67 ft below sea level, July 15, 1997;

lowest measured, 174.15 ft below sea level, Aug. 25, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-109.26	-109.69	-124.49	-124.70	---	---	-129.71	-130.38	-109.53	-109.60	---	---
2	-109.16	-119.65	-124.64	-124.83	---	---	-130.23	-130.44	-109.49	-133.85	-113.88	-114.41
3	-109.56	-119.78	-124.83	-126.09	---	---	-129.86	-130.46	-110.31	-110.98	-113.42	-113.88
4	-109.66	-119.93	-126.09	-126.24	---	---	-129.73	-129.99	-110.03	-110.31	-112.89	-113.42
5	-109.69	-119.17	-126.14	-126.87	---	---	-129.64	-129.86	-110.00	-143.21	-112.50	-112.89
6	-109.59	-120.55	-126.87	-127.16	---	---	-118.06	-130.33	-111.93	-132.64	-112.28	-112.50
7	-109.41	-110.56	-127.05	-127.25	-128.80	-128.99	-114.97	-118.06	-111.82	-145.78	-112.07	-112.28
8	-109.08	-109.41	-127.22	-127.37	-128.85	-129.06	-113.76	-114.97	-114.64	-149.01	-111.78	-112.07
9	-109.00	-117.75	-127.32	-127.50	---	---	-113.13	-113.76	-116.71	-149.75	-111.61	-111.78
10	-109.03	-122.85	---	---	---	---	-112.66	-113.13	-116.66	-149.22	---	---
11	-115.54	-124.11	---	---	-128.67	-128.94	-112.13	-112.66	---	---	---	---
12	-111.91	-122.41	---	---	-128.71	-129.06	-111.84	-112.13	---	---	-110.88	-111.26
13	-110.81	-121.33	---	---	---	---	-111.46	-111.84	-117.77	-151.42	-110.81	-110.88
14	-109.58	-111.39	---	---	-128.57	-128.89	-111.12	-111.46	-118.66	-153.15	-110.84	-110.88
15	-109.28	-118.01	---	---	-128.80	-128.99	-110.76	-111.12	-130.14	-156.85	-110.67	-110.84
16	-109.21	-119.72	---	---	-128.66	-138.80	-110.62	-110.76	-131.35	-158.27	-110.58	-110.67
17	-109.67	-119.79	---	---	-128.64	-129.28	-110.34	-110.62	---	---	-110.54	-110.60
18	-109.78	-120.90	---	---	---	---	-109.99	-110.34	---	---	-110.55	-110.58
19	-109.86	-122.27	---	---	---	---	-109.71	-109.99	---	---	-110.45	-110.56
20	-122.27	-124.42	---	---	-128.70	-128.98	-109.48	-109.72	-135.58	-160.81	-110.10	-110.46
21	-124.42	-125.26	---	---	-128.32	-129.00	-109.41	-109.52	---	---	-109.88	-110.11
22	-125.26	-125.61	---	---	-128.50	-129.20	-109.20	-109.41	---	---	-109.89	-147.44
23	-125.37	-125.77	---	---	-129.20	-129.40	-109.07	-109.21	---	---	-115.29	-148.03
24	-124.90	-125.37	---	---	-129.22	-129.75	-109.07	-109.15	-120.59	-124.87	-112.61	-115.29
25	-125.25	-125.46	---	---	-129.25	-130.02	-109.15	-109.29	-118.38	-120.59	-111.61	-112.61
26	-115.31	-125.25	---	---	-129.26	-129.70	-109.14	-109.28	-117.05	-118.38	-111.53	-130.54
27	-123.43	-125.23	---	---	-129.20	-129.80	-109.13	-109.34	-115.99	-117.05	---	---
28	-114.29	-125.40	---	---	-129.23	-129.70	-109.33	-109.43	---	---	---	---
29	-112.98	-123.05	---	---	-129.39	-129.81	-109.34	-109.45	---	---	-129.51	-153.68
30	-123.05	-124.22	---	---	-129.39	-129.95	-109.28	-109.35	---	---	-128.46	-154.30
31	-124.22	-124.50	---	---	-129.62	-129.89	-109.34	-109.53	---	---	-132.04	-156.60
MONTH	-109.00	-125.77	-124.49	-127.50	-128.32	-138.80	-109.07	-130.46	-109.49	-160.81	-109.88	-156.60

GROUND-WATER LEVELS IN MARYLAND--Continued

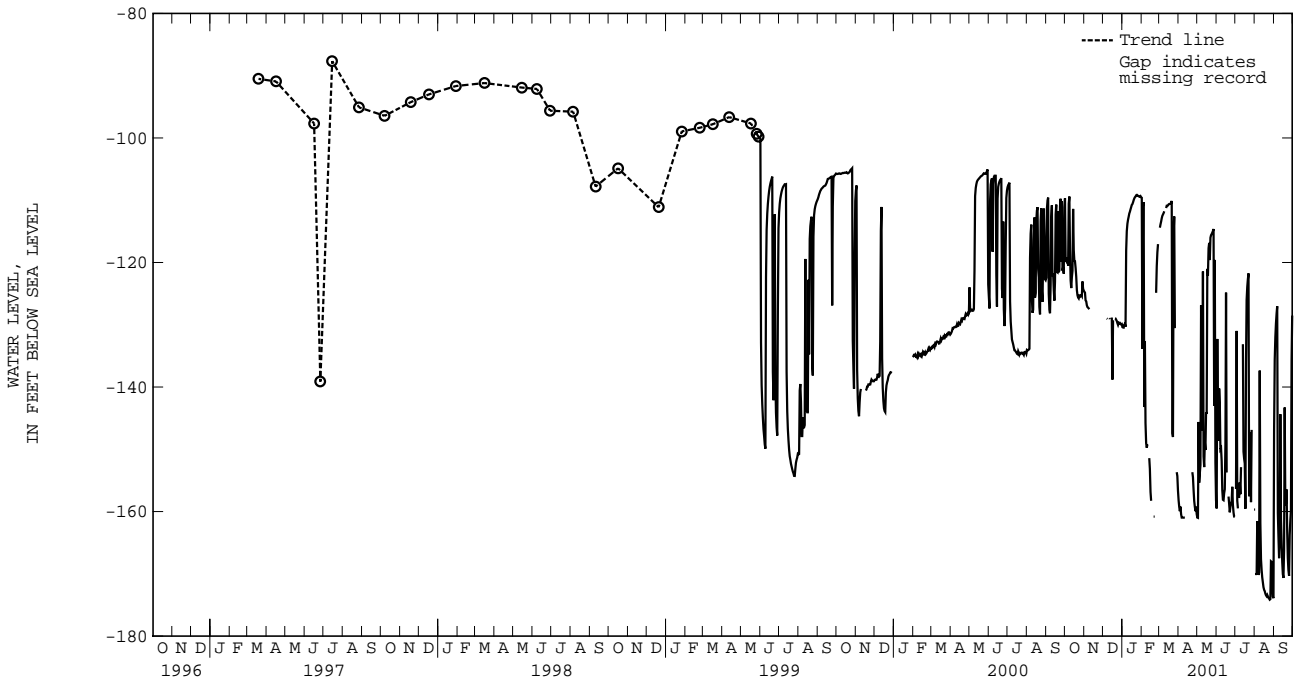
CHARLES COUNTY--Continued

CH Ce 56--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-133.59	-158.18	-135.18	-160.97	-132.28	-159.50	---	---	---	---	-135.57	-146.94
2	-133.85	-159.23	-140.99	-161.01	-121.61	-132.28	-130.52	-156.38	---	---	-132.00	-135.57
3	-133.78	-159.94	-123.05	-145.61	-120.37	-147.78	-125.53	-130.99	-168.61	-169.85	-129.78	-132.00
4	-133.38	-159.21	-121.77	-155.37	-120.17	-148.59	-124.63	-158.26	-148.36	-170.18	-128.19	-129.78
5	-137.90	-160.43	-123.04	-153.84	-119.68	-140.24	-130.13	-159.49	-133.19	-161.58	-127.02	-128.19
6	-135.68	-160.97	-122.55	-152.54	-118.79	-142.61	---	---	-161.58	-168.91	-126.02	-127.02
7	-136.95	-160.97	-120.42	-126.88	-118.66	-150.02	-126.93	-157.83	-168.91	-170.17	-125.64	-160.21
8	-137.75	-160.97	-118.92	-145.53	-119.83	-149.85	-127.33	-155.32	-137.36	-169.82	-130.65	-164.08
9	-134.37	-160.98	-120.18	-146.98	-120.16	-151.87	-129.35	-157.21	-130.05	-137.36	-160.80	-167.49
10	-139.02	-160.97	-118.37	-121.45	-121.00	-156.53	-129.08	-152.87	-128.43	-161.87	-135.97	-165.21
11	-136.94	-160.97	-117.95	-151.15	-129.33	-158.10	---	---	-161.87	-167.66	-130.50	-144.36
12	---	---	-120.43	-152.86	-126.97	-158.17	---	---	-166.61	-169.36	-129.06	-161.25
13	---	---	-120.25	-148.81	-127.19	-157.04	-126.99	-133.12	-169.36	-170.56	-131.37	-164.75
14	---	---	-121.61	-150.11	-125.34	-156.42	-125.67	-150.38	-170.49	-171.37	-164.75	-168.05
15	---	---	-120.34	-144.04	-124.84	-149.26	-124.93	-151.52	-171.27	-172.14	-168.05	-170.05
16	---	---	-119.48	-144.32	-121.60	-124.84	-126.14	-152.28	-172.12	-172.57	-148.83	-170.66
17	---	---	-118.50	-121.02	-120.95	-153.72	-133.62	-159.54	-172.36	-172.78	-125.64	-160.21
18	---	---	-117.70	-122.10	---	---	-126.01	-136.12	-172.75	-173.18	-130.78	-143.29
19	---	---	-116.85	-117.70	---	---	-123.91	-126.01	-173.07	-173.44	-129.66	-158.98
20	---	---	-116.41	-116.85	-128.11	-157.59	-122.67	-123.91	-173.18	-173.59	-130.99	-158.76
21	---	---	-116.02	-119.61	-126.12	-158.80	-121.75	-122.67	-173.07	-173.39	-129.41	-156.45
22	---	---	-115.61	-116.02	-127.26	-160.12	-121.06	-121.75	-173.21	-173.64	-128.52	-163.26
23	-125.24	-153.68	-115.42	-115.61	-128.89	-159.22	-120.83	-157.57	-173.26	-173.86	-163.26	-167.49
24	-128.49	-154.47	-115.20	-115.42	-127.55	-158.64	---	---	-173.71	-173.97	-167.36	-169.42
25	-128.03	-156.54	-114.96	-115.20	-127.32	-158.34	-126.23	-147.29	-173.76	-174.15	-144.10	-170.32
26	-133.59	-158.28	-114.62	-114.96	-127.56	-156.02	-124.84	-158.49	-146.54	-174.06	-135.38	-163.77
27	-133.85	-159.20	-114.40	-114.62	-126.26	-158.92	-125.64	-146.88	-138.68	-167.99	-134.09	-161.45
28	-133.27	-159.94	-114.29	-143.02	-127.55	-160.15	---	---	-137.37	-168.08	-130.79	-159.78
29	-132.92	-159.21	-115.25	-119.59	-129.02	-160.82	---	---	-168.08	-171.66	-128.52	-135.67
30	-137.08	-160.42	-114.94	-152.09	-129.82	-160.86	---	---	-171.66	-173.67	-126.47	-128.52
31	---	---	-152.09	-158.24	---	---	-129.96	-159.68	-146.94	-173.91	---	---
MONTH	-125.24	-160.98	-114.29	-161.01	-118.66	-160.86	-120.83	-159.68	-128.43	-174.15	-125.64	-170.66
YEAR	-109.00	-174.15										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ce 57. SITE ID.--383250076584001. PERMIT NUMBER.--CH-94-1112

LOCATION.--Lat 38°32'50", long 76°58'40", Hydrologic Unit 02070011, Heritage Green, LaPlata.

Owner: Town of La Plata.

AQUIFER.--Upper Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,703 ft; casing diameter 6 in., to 400 ft; 4 in from 400 to 1,406 ft, 1,421 to 1,500 ft, 1,515 to 1,668 ft and 1,698 to 1,703 ft. Screen diameter 4 in. from 1,406 to 1,421 ft, 1,500 to 1,515 ft and 1,668 to 1,698 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recorder interval, March 18, 1997 to July 1998.

DATUM.--Elevation of land surface is 193.47 ft above sea level.

Measuring point: Top of recorder platform 5.0 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

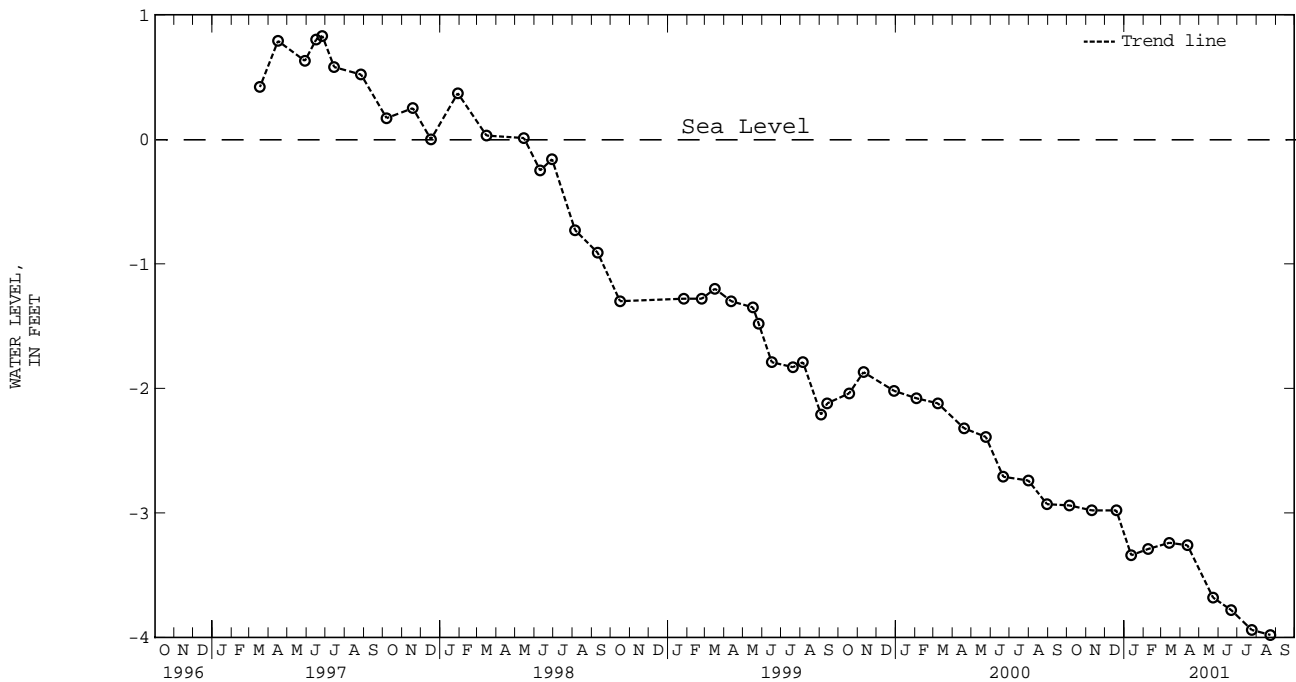
PERIOD OF RECORD.--March 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.13 ft above sea level, May 1, 1997;  
lowest measured, 3.98 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 2000	-2.94	JAN 12, 2001	-3.34	APR 12, 2001	-3.26	JUL 24, 2001	-3.94
NOV 10	-2.98	FEB 08	-3.29	MAY 23	-3.68	AUG 23	-3.98
DEC 19	-2.98	MAR 14	-3.24	JUN 21	-3.78		

WATER YEAR 2001    HIGHEST    -2.94    OCT 05, 2000    LOWEST    -3.98    AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Da 18. SITE ID.--382654077152501.

LOCATION.--Lat 38°26'54", long 77°15'25", Hydrologic Unit 02070011, nr. Douglas Point.

Owner: Potomac Edison Power Company.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled observation, artesian well, depth 740 ft; casing diameter 8 in., to 684 ft; and 694 to 730 ft; screen diameter 8 in. from 684 to 694 ft, and 730 to 740 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. twice yearly measurements from September 1976 to April 1996. Equipped with digital water-level recorder--60-minute recorder interval, April 3, 1996 to June 3, 1998.

DATUM.--Elevation of land surface is 89.90 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.10 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network.. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--September 1976 to current year.

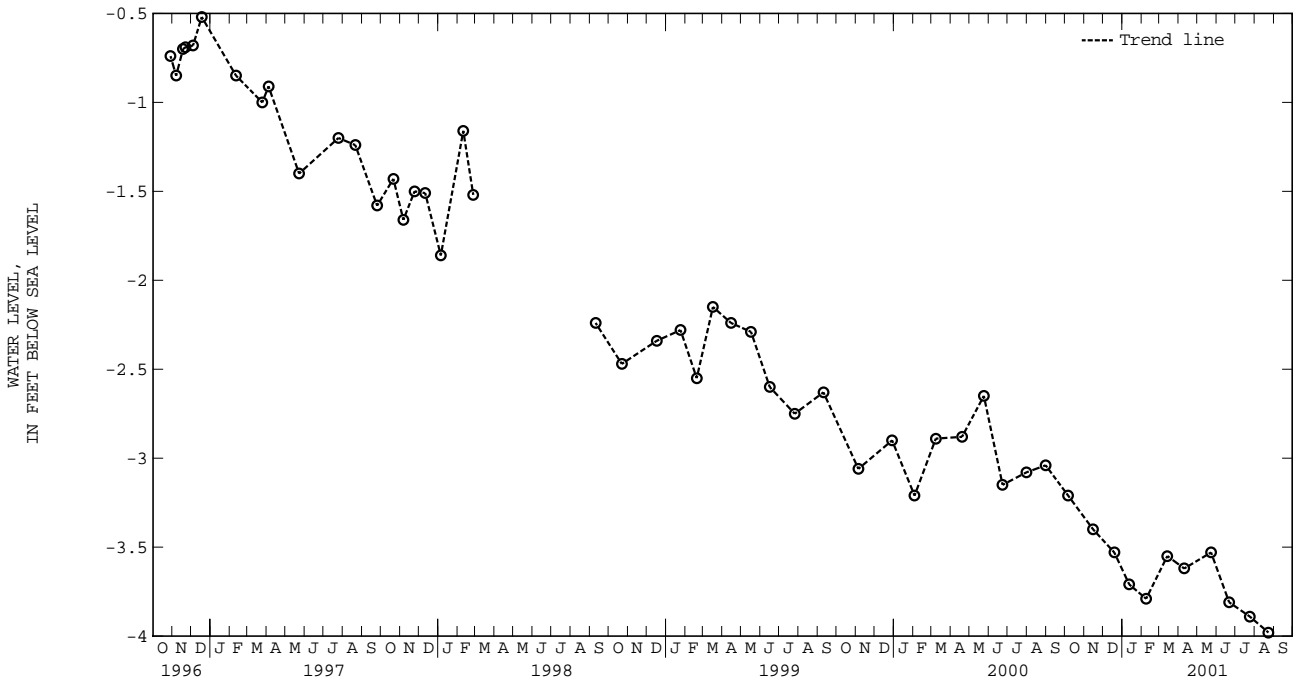
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.89 ft above sea level, Aug. 21, 1976;

lowest measured, 3.98 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-3.21	JAN 12, 2001	-3.71	APR 10, 2001	-3.62	JUL 24, 2001	-3.89
NOV 15	-3.40	FEB 08	-3.79	MAY 23	-3.53	AUG 23	-3.98
DEC 19	-3.53	MAR 14	-3.55	JUN 21	-3.81		

WATER YEAR 2001 HIGHEST -3.21 OCT 06, 2000 LOWEST -3.98 AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

CHARLES COUNTY--Continued

WELL NUMBER.--CH Da 20. SITE ID.--382654077152701.

LOCATION.--Lat 38°26'54", long 77°15'27", Hydrologic Unit 02070011, nr Douglas Point.

Owner: Potomac Edison Power Company.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PSCL.

WELL CHARACTERISTICS.--Drilled observation, artesian well, depth 522 ft; casing diameter 6 in., to 420 ft; 425 to 444 ft;

449 to 481 ft, and 486 to 517 ft; screen diameter 6 in. from 420 to 425 ft, 444 to 449 ft, 481 to 486 ft, and 517 to 522 ft..

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 90 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--September 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level reported, 22.00 ft above sea level, Sept. 21, 1976.

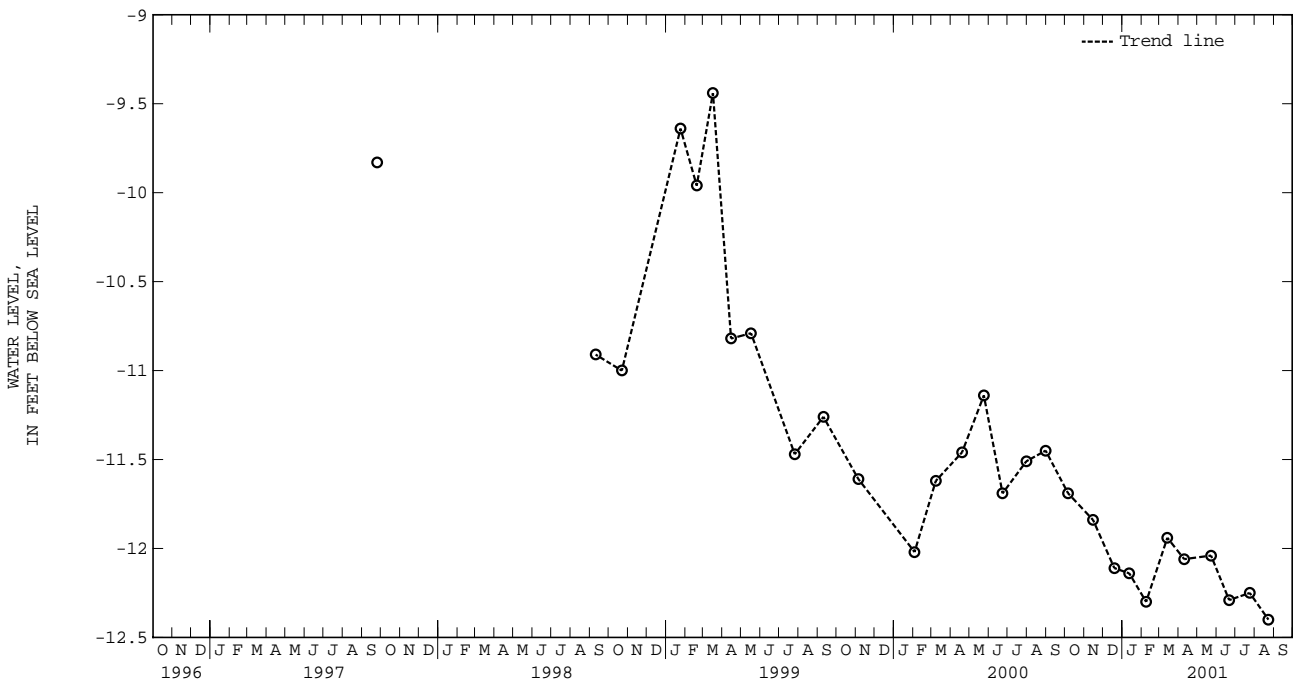
Highest water level measured .86 ft below sea level March 22, 1979 and March 25, 1980;

lowest measured, 12.40 ft below sea level, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-11.69	JAN 12, 2001	-12.14	APR 10, 2001	-12.06	JUL 24, 2001	-12.25
NOV 15	-11.84	FEB 08	-12.30	MAY 23	-12.04	AUG 23	-12.40
DEC 19	-12.11	MAR 14	-11.94	JUN 21	-12.29		

WATER YEAR 2001    HIGHEST -11.69 OCT 06, 2000    LOWEST -12.40 AUG 23, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

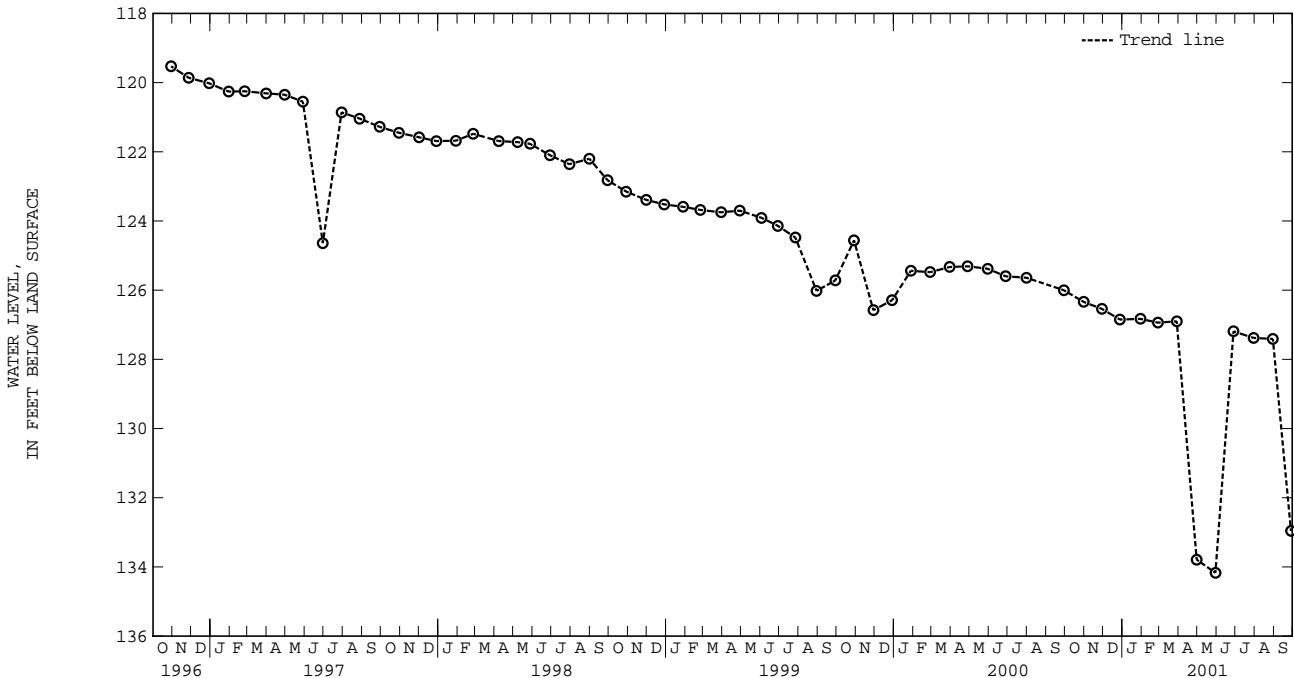
CHARLES COUNTY--Continued

WELL NUMBER.--CH Dd 33. SITE ID.--382607077002601. PERMIT NUMBER.--CH-02-6769.  
 LOCATION.--Lat 38°25'09", long 77°00'00", Hydrologic Unit 02070011, 1.8 mi southwest of Faulkner off Popes Creek Rd.  
 Owner: Jesuit Order (Loyola Retreat House).  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 694 ft; casing diameter 6 in., to 564 ft; casing diameter 4 in. from 532 to 688 ft; screen diameter 4 in. from 687 to 694 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 99.8 ft above sea level.  
 Measuring point: Top of casing, 1.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water level reported 104 ft below land surface, June 27, 1957. Water levels are affected by local and regional ground-water withdrawal. The June 30, 1997 water level of 124.64 ft below land surface resulted from an extended period of ground-water pumping.  
 PERIOD OF RECORD.--March 1962 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.28 ft below land surface, March 14, 1962; lowest measured, 134.17 ft below land surface, May 30, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	126.34	JAN 30, 2001	126.83	APR 30, 2001	133.79	JUL 30, 2001	127.38
NOV 29	126.54	FEB 27	126.94	MAY 30	134.17	AUG 30	127.41
DEC 28	126.85	MAR 29	126.90	JUN 28	127.19	SEP 28	132.96

WATER YEAR 2001      HIGHEST 126.34 OCT 31, 2000      LOWEST 134.17 MAY 30, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

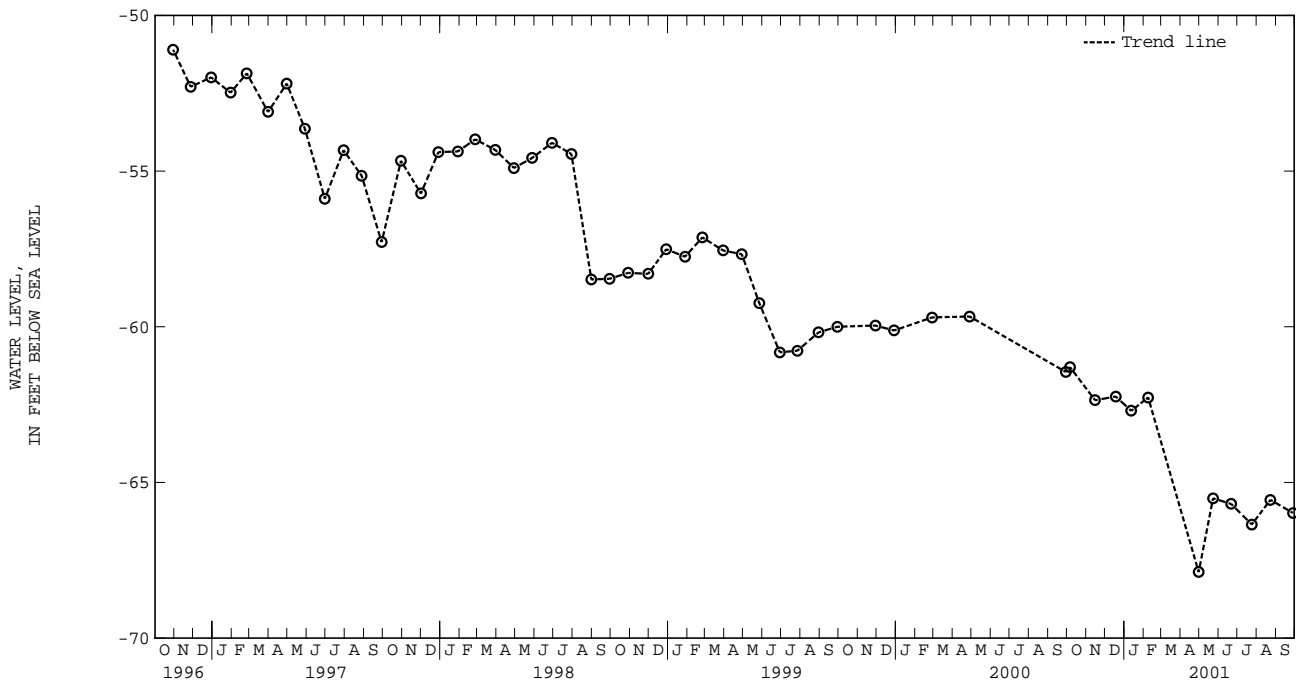
CHARLES COUNTY--Continued

WELL NUMBER.--CH Dd 38. SITE ID.--382925077010101. PERMIT NUMBER.--CH-81-0358.  
 LOCATION.--Lat 38°29'25", long 77°01'01", Hydrologic Unit 02070011, 0.8 mi south of Port Tobacco.  
 Owner: Robert W. Snow and Debra L. Snow.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, domestic, artesian well, depth 597 ft; casing diameter 4 in., to 297 ft;  
 casing diameter 2 in. from 297 to 429 ft, 434 to 575 ft, 580 to 585 ft, and 590 to 597 ft;  
 screen diameter 2 in. from 429 to 434 ft, 575 to 580 ft, and 585 to 590 ft.  
 INSTRUMENTATION.--Monthly measurements from April 1993 to Dec. 1999 and Oct. 2000 to current year. Twice yearly measurements  
 April 2000 with chalked steel tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.  
 Measuring Point: Top of casing, 1.00 ft above land surface.  
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water  
 withdrawal.  
 PERIOD OF RECORD.--April 1993 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.97 ft below sea level, May 5, 1993;  
 lowest measured, 67.88 ft below sea level, April 30, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 2000	-61.30	JAN 12, 2001	-62.70	MAY 23, 2001	-65.51	AUG 23, 2001	-65.56
NOV 15	-62.36	FEB 08	-62.27	JUN 21	-65.69	SEP 28	-65.98
DEC 18	-62.24	APR 30	-67.88	JUL 24	-66.35		

WATER YEAR 2001      HIGHEST -61.30 OCT 06, 2000      LOWEST -67.88 APR 30, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH De 45. SITE ID.--382927076552301. PERMIT NUMBER.--CH-81-0604.

LOCATION.--Lat 38°29'27", long 76°55'23", Hydrologic Unit 02070011, north side of MD Rt. 6, 4.1 mi southeast of La Plata.

Owner: U.S. Geological Survey.

AQUIFER.--Alluvium of Pleistocene age and Nanjemoy Formation of Lower Eocene age. Aquifer codes: 112ALVM, 124NNJM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well; depth 25.5 ft; casing diameter 4 in., to 15.5 ft, casing diameter 2 in. from 20.5 to 25.5 ft; screen diameter 2 in. from 15.5 to 20.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 44.77 ft above sea level.

Measuring Point: Top of casing, 2.35 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

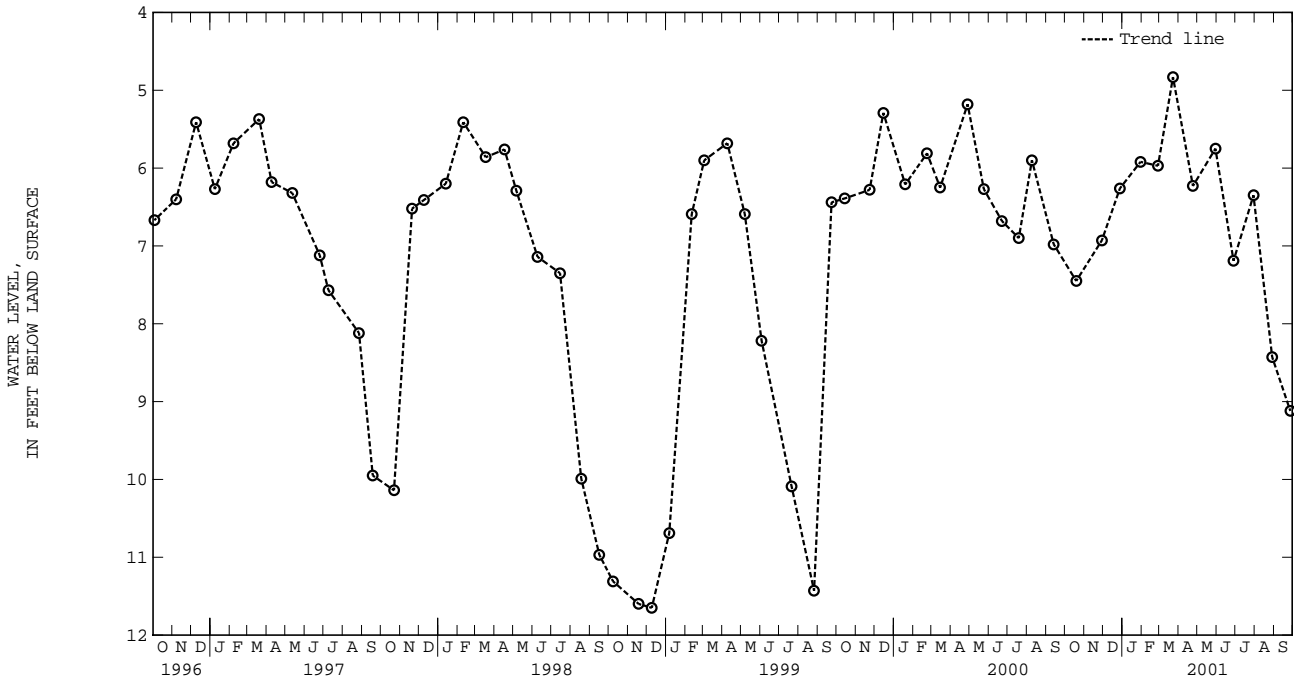
PERIOD OF RECORD.--August 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.83 ft below land surface, May 30, 1990 and March 23, 2001; lowest measured, 11.65 ft below land surface, Dec. 9, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	7.45	JAN 30, 2001	5.92	APR 24, 2001	6.23	JUL 30, 2001	6.35
NOV 29	6.93	FEB 27	5.97	MAY 30	5.75	AUG 29	8.43
DEC 28	6.26	MAR 23	4.83	JUN 28	7.19	SEP 27	9.12

WATER YEAR 2001      HIGHEST    4.83    MAR 23, 2001      LOWEST    9.12    SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 16. SITE ID.--382103076560201.

LOCATION.--Lat 38°21'03", long 76°56'02", Hydrologic Unit 02070010, near Wayside.

Owner: Harry Ferris.

AQUIFER.--Ravens Crest Formation of Upper Pliocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Dug, unused, water-table well, measured depth 20.7 ft; casing diameter 42 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with water-level recorder from March 29, 1966 to Oct. 11, 1967.

DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.80 ft above land surface.

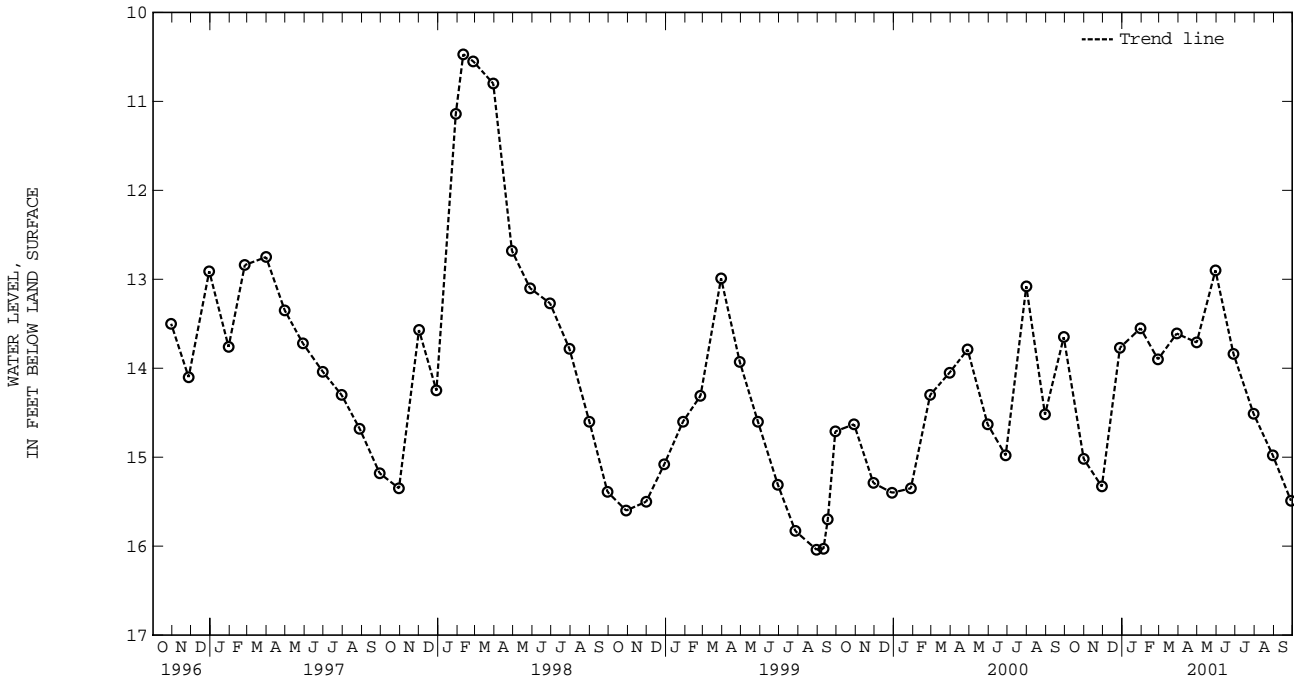
REMARKS.--Maryland Water-Level Network observation well and Maryland Water Quality Network observation well.

PERIOD OF RECORD.--May 1946, January 1947 to November 1947, March 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.41 ft below land surface, March 30, 1994;  
lowest measured, 20.65 ft below land surface, Dec. 20, 1949.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	15.02	JAN 30, 2001	13.55	APR 30, 2001	13.71	JUL 30, 2001	14.51
NOV 29	15.33	FEB 27	13.90	MAY 30	12.90	AUG 30	14.98
DEC 28	13.77	MAR 29	13.61	JUN 28	13.84	SEP 28	15.49
WATER YEAR 2001 HIGHEST		12.90	MAY 30, 2001		LOWEST		15.49
							SEP 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 78. SITE ID.--382240076582801. PERMIT NUMBER.--CH-73-1965.

LOCATION.--Lat 38°22'40", long 76°58'28", Hydrologic Unit 02070011, located at Clifton on the Potomac, on the east side of Ingleside Road, 0.3 mi north of Clifton Drive.

Owner: Charles County Department of Public Works.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, used, artesian well, depth 1,220 ft; casing diameter 6.7 in., to 1,148 ft, and 1,168 to 1,189 ft, and 1,199 to 1,220 ft; screen diameter 7 in. from 1,148 to 1,168 ft, and 1,189 to 1,199 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from August 5, 1993 to current year.

DATUM.--Elevation of land surface is 75 ft above sea level, from topographic map.

Measuring Point: Top of recorder platform, 2.60 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--August 5, 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.87 ft below sea level, April 3, 1986; lowest measured, 87.72 ft below sea level, Sept. 27, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-77.97	-78.71	-80.04	-80.65	-80.76	-81.90	-83.75	-84.03	-85.31	-85.99	-80.53	-81.30
2	-78.17	-79.04	-80.05	-80.55	-81.90	-82.96	-83.90	-84.55	-84.84	-85.31	-80.07	-80.54
3	-78.47	-78.80	-80.54	-80.75	-82.73	-83.03	-84.07	-84.65	-85.28	-86.37	-80.30	-81.02
4	-78.80	-79.23	-80.49	-81.03	-82.73	-83.15	-83.84	-84.15	-84.94	-86.37	-80.13	-80.76
5	-79.18	-80.28	-79.96	-80.49	-82.59	-82.99	-83.42	-83.96	-84.22	-84.94	-79.75	-80.30
6	-79.94	-80.42	-79.84	-80.22	-82.99	-83.81	-83.62	-83.93	-84.12	-84.39	-80.30	-80.79
7	-80.10	-80.42	-79.90	-81.01	-83.55	-84.06	-83.03	-83.64	-83.82	-84.16	-80.21	-80.76
8	-79.90	-80.14	-81.01	-82.11	-84.06	-84.50	-83.14	-83.37	-83.21	-83.85	-80.46	-81.06
9	-79.91	-81.09	-82.11	-82.37	-83.97	-84.50	-83.37	-83.95	-83.08	-83.43	-80.74	-81.04
10	-81.09	-81.53	-82.01	-82.36	-83.93	-84.17	-83.95	-84.41	-82.78	-83.24	-80.13	-80.74
11	-81.49	-82.20	-81.27	-82.33	-83.97	-84.34	-84.41	-84.79	-82.27	-82.82	-80.18	-80.46
12	-81.70	-82.23	-80.58	-81.27	-84.21	-84.95	-84.24	-84.41	-82.32	-82.59	-79.67	-80.20
13	-81.87	-82.33	-79.43	-80.58	-84.02	-84.95	-83.16	-84.24	-82.59	-83.20	-79.39	-79.80
14	-81.56	-82.32	-79.81	-81.29	-84.04	-84.29	-83.29	-83.73	-82.74	-83.26	-78.81	-79.39
15	-80.86	-81.56	-81.29	-82.41	-84.23	-84.43	-82.85	-83.64	-82.74	-82.94	-79.00	-79.25
16	-80.76	-81.08	-82.27	-82.67	-83.51	-84.41	-82.87	-83.66	-82.94	-83.26	-78.31	-79.06
17	-80.31	-81.08	-81.39	-82.33	-82.05	-83.51	-83.66	-84.74	-82.38	-83.04	-78.31	-78.93
18	-79.90	-80.54	-81.37	-81.71	-81.39	-82.05	-84.74	-85.75	-82.44	-82.92	-78.79	-79.01
19	-79.52	-79.97	-80.24	-81.37	-82.00	-83.00	-85.32	-85.76	-82.33	-82.70	-79.01	-79.08
20	-79.74	-79.95	-79.92	-80.49	-83.00	-83.80	-84.94	-85.35	-82.61	-83.00	-78.96	-79.35
21	-79.52	-79.91	-80.27	-80.88	-83.80	-84.19	-84.29	-84.94	-82.76	-83.06	-78.18	-78.96
22	-79.54	-80.02	-80.88	-81.74	-84.19	-84.58	-83.70	-84.29	-82.41	-82.80	-78.30	-78.95
23	-79.30	-79.72	-81.74	-82.36	-84.58	-84.84	-83.79	-84.66	-82.42	-82.86	-78.59	-79.00
24	-79.60	-80.84	-81.43	-82.35	-83.97	-84.67	-84.66	-85.06	-82.33	-82.86	-78.91	-79.07
25	-80.84	-81.33	-81.27	-81.61	-84.00	-84.63	-84.72	-85.06	-81.55	-82.34	-78.56	-78.91
26	-80.74	-81.38	-80.19	-81.27	-84.63	-84.84	-84.04	-85.06	-81.88	-82.26	-78.72	-79.07
27	-80.51	-80.85	-79.95	-80.38	-84.76	-85.20	-84.04	-85.04	-81.96	-82.30	-79.07	-79.38
28	-80.16	-80.70	-80.38	-81.26	-85.20	-85.49	-84.12	-85.04	-81.30	-81.97	-79.36	-80.10
29	-80.00	-80.37	-80.59	-81.31	-84.48	-85.21	-84.09	-84.86	---	---	-79.74	-80.20
30	-80.34	-80.60	-80.42	-80.76	-83.62	-84.48	-84.86	-85.28	---	---	-79.69	-80.12
31	-80.39	-80.80	---	---	-83.73	-84.16	-85.28	-85.99	---	---	-80.09	-80.35
MONTH	-77.97	-82.33	-79.43	-82.67	-80.76	-85.49	-82.85	-85.99	-81.30	-86.37	-78.18	-81.30

GROUND-WATER LEVELS IN MARYLAND--Continued

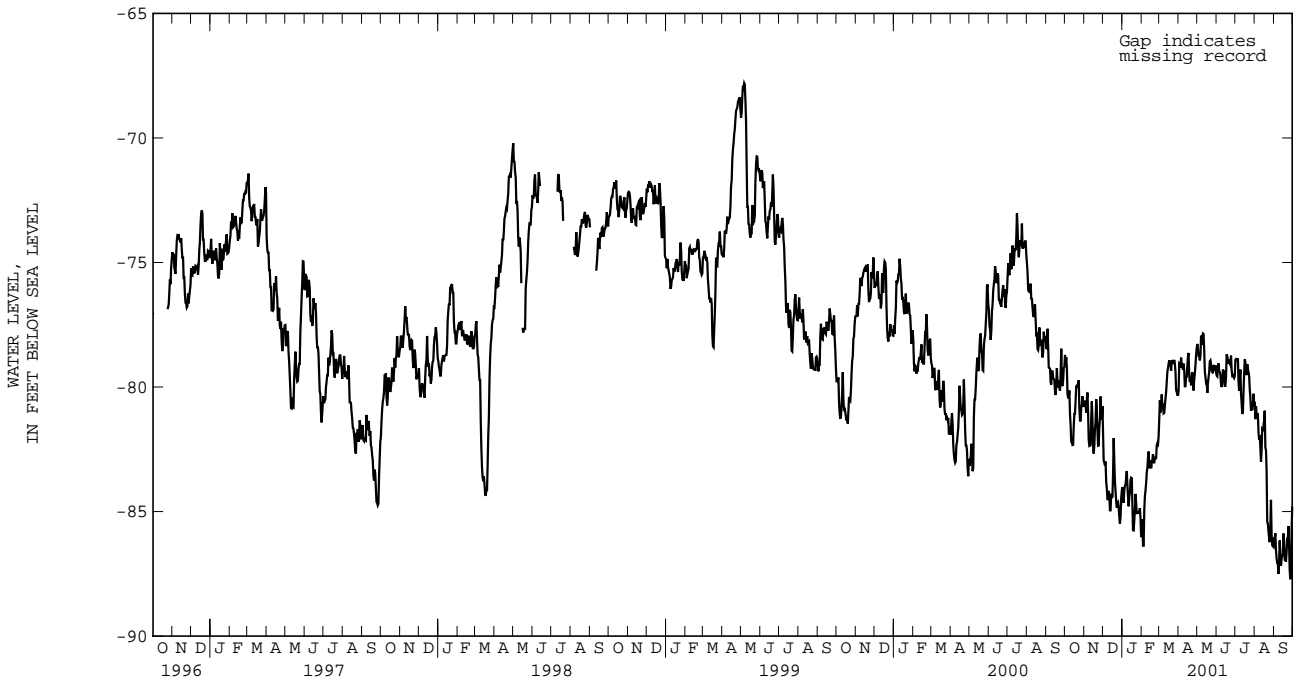
CHARLES COUNTY--Continued

CH Ee 78--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-79.07	-80.17	-77.75	-78.27	-79.22	-79.54	-78.13	-78.91	-80.53	-80.59	-85.58	-86.07
2	-78.57	-79.07	-77.95	-78.45	-79.17	-79.57	-78.26	-78.87	-80.54	-81.29	-85.59	-86.07
3	-78.75	-79.11	-78.45	-78.74	-78.80	-79.17	-78.70	-78.87	-80.62	-80.78	-85.47	-85.87
4	-78.82	-79.22	-78.58	-78.73	-78.76	-79.05	-78.81	-78.91	-80.64	-81.11	-85.87	-86.54
5	-78.33	-78.82	-78.69	-78.93	-78.93	-79.35	-78.18	-78.85	-80.71	-81.11	-86.54	-86.88
6	-78.71	-79.14	-77.93	-78.76	-79.08	-79.40	-78.54	-79.80	-80.70	-81.10	-86.81	-87.07
7	-79.00	-79.18	-77.36	-77.94	-79.31	-79.51	-79.67	-80.14	-81.10	-81.81	-86.73	-87.09
8	-79.06	-79.30	-77.92	-78.30	-79.37	-79.90	-78.75	-79.67	-81.71	-82.12	-87.07	-87.50
9	-78.36	-79.06	-77.32	-77.99	-79.64	-80.00	-78.47	-79.30	-81.48	-81.94	-85.97	-87.07
10	-78.68	-79.34	-77.57	-77.85	-79.30	-79.85	-79.06	-80.30	-81.69	-82.44	-85.65	-86.16
11	-79.34	-79.97	-77.57	-77.87	-78.78	-79.30	-80.21	-80.63	-82.44	-82.99	-86.16	-86.74
12	-79.07	-79.97	-77.67	-78.51	-79.09	-79.38	-80.63	-81.08	-81.62	-82.53	-86.73	-87.18
13	-79.29	-79.60	-78.51	-79.36	-79.03	-79.38	-79.88	-81.01	-81.21	-81.67	-86.02	-86.89
14	-79.11	-79.59	-79.28	-79.59	-79.38	-79.95	-79.46	-80.20	-81.21	-81.70	-86.02	-86.75
15	-77.99	-79.11	-79.44	-79.83	-79.49	-79.95	-78.81	-79.46	-80.91	-81.57	-85.79	-86.75
16	-78.14	-78.78	-79.51	-79.81	-78.69	-79.58	-78.44	-78.88	-80.91	-81.33	-85.51	-85.88
17	-78.06	-78.63	-79.78	-80.24	-78.38	-78.69	-78.47	-78.99	-80.75	-80.95	-85.84	-86.18
18	-78.58	-79.55	-79.53	-79.85	-78.09	-78.77	-78.99	-79.45	-80.82	-82.43	-86.18	-86.92
19	-79.55	-79.79	-79.13	-79.60	-78.67	-78.91	-79.08	-79.52	-82.33	-82.53	-86.77	-86.92
20	-79.23	-79.67	-78.97	-79.41	-78.75	-79.06	-78.73	-79.08	-82.32	-83.33	-86.64	-87.01
21	-79.50	-79.93	-78.44	-78.97	-78.63	-78.99	-79.05	-79.29	-83.33	-85.43	-85.85	-86.64
22	-78.83	-79.50	-78.46	-78.93	-78.77	-79.06	-79.07	-79.39	-84.96	-85.47	-85.94	-86.08
23	-78.89	-79.41	-78.62	-79.09	-78.72	-79.11	-79.07	-79.55	-85.19	-85.79	-84.93	-86.06
24	-79.37	-79.88	-78.99	-79.35	-78.13	-78.74	-79.55	-80.09	-85.79	-86.06	-84.75	-85.58
25	-79.71	-80.14	-79.12	-79.38	-78.46	-79.33	-79.93	-80.43	-85.56	-86.23	-85.58	-86.36
26	-79.32	-79.71	-79.11	-79.45	-79.33	-79.55	-80.43	-80.95	-84.38	-85.56	-86.36	-87.36
27	-79.13	-79.47	-78.57	-79.11	-79.09	-79.53	-80.49	-80.86	-83.96	-84.53	-87.36	-87.72
28	-78.73	-79.13	-78.87	-79.21	-79.27	-79.60	-80.57	-80.93	-84.53	-85.93	-85.82	-87.51
29	-78.27	-78.73	-78.89	-79.33	-79.33	-79.64	-79.67	-80.70	-85.81	-86.36	-84.79	-85.82
30	-78.27	-78.43	-78.88	-79.13	-78.91	-79.55	-79.70	-80.27	-86.21	-86.39	-83.30	-84.80
31	---	---	-78.93	-79.40	---	---	-80.27	-80.72	-86.07	-86.42	---	---
MONTH	-77.99	-80.17	-77.32	-80.24	-78.09	-80.00	-78.13	-81.08	-80.53	-86.42	-83.30	-87.72
YEAR	-77.32	-87.72										

Daily Low Water Levels



DORCHESTER COUNTY

WELL NUMBER.--DO Bg 59. SITE ID.--383708075503801. PERMIT NUMBER.--DO-73-0612.

LOCATION.--Lat 38°37'08" long 75°50'38", Hydrologic Unit 02060008, at Hurlock Sewage Treatment Plant.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 537 ft; casing diameter 6 in., to 65 ft; casing diameter 2 in. from 65 to 527 ft; screen diameter 2 in. from 527 to 537 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Prior to the Nov. 20, 2001 water-level measurement, the Hurlock

Water Municipality increased their ground-water withdrawal for a 3 month period.

PERIOD OF RECORD.--October 1976 to current year.

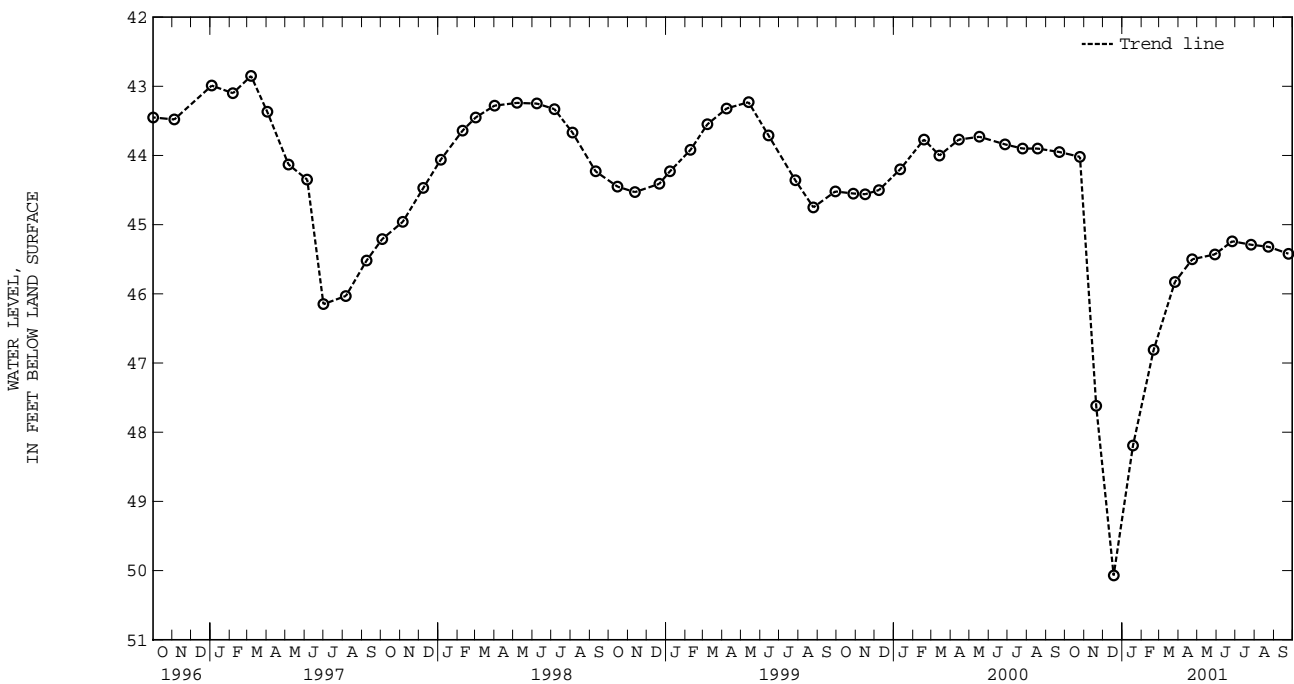
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.79 ft below land surface, Aug. 2, 1978;

lowest measured, 50.07 ft below land surface, Dec. 18, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	44.02	JAN 18, 2001	48.19	APR 23, 2001	45.50	JUL 26, 2001	45.29
NOV 20	47.62	FEB 20	46.81	MAY 29	45.43	AUG 23	45.32
DEC 18	50.07	MAR 26	45.83	JUN 26	45.24	SEP 24	45.42

WATER YEAR 2001 HIGHEST 44.02 OCT 25, 2000 LOWEST 50.07 DEC 18, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Cd 1. SITE ID.--383151076080801.

LOCATION.--Lat 38°31'51", long 76°08'08", Hydrologic Unit 02060005, near Christs Rock, off Pigs Neck Rd.

Owner: Kevin Morgan.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 390 ft; casing diameter 2 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.35 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

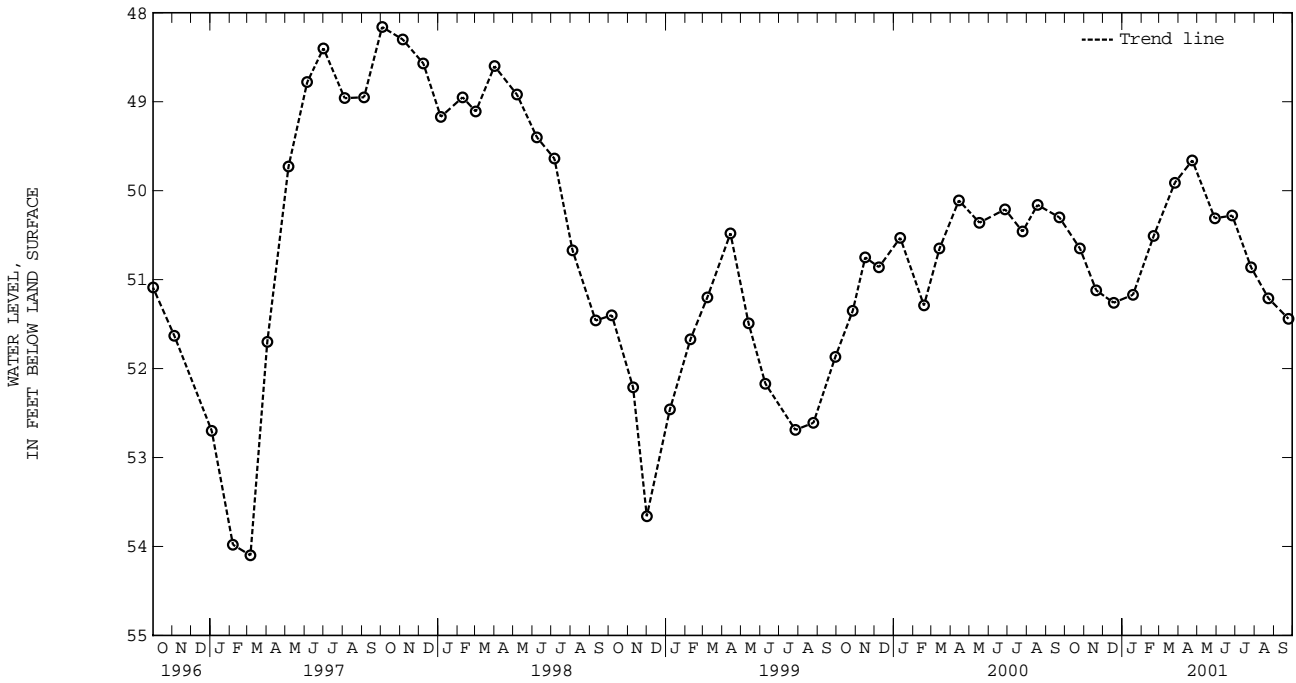
PERIOD OF RECORD.--October 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.07 ft below land surface, Oct. 2, 1990;

lowest measured, 80.32 ft below land surface, Oct. 16, 1970.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	50.65	JAN 18, 2001	51.17	APR 23, 2001	49.66	JUL 26, 2001	50.86
NOV 20	51.12	FEB 20	50.51	MAY 29	50.31	AUG 23	51.21
DEC 18	51.26	MAR 26	49.91	JUN 26	50.28	SEP 24	51.44
WATER YEAR 2001 HIGHEST		49.66	APR 23, 2001		LOWEST		51.44
						SEP 24, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 5. SITE ID.--383340076041601.

LOCATION.--Lat 38°33'40", long 76°04'16", Hydrologic Unit 02060005, at Cambridge Pumping Station, off Lake St.

Owner: Municipal Utilities Commission.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 405 ft; casing diameter 2 in. to land surface ; casing diameter 12 in., from 0 to 385 ft; open hole

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 18 ft above sea level, from topographic map.

Measuring point: Top of casing, 4.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. The drop in water levels in July of 1999 is the result of using the pumping station at Lake St. until March of 2001. Water levels are affected by local ground-water withdrawal.

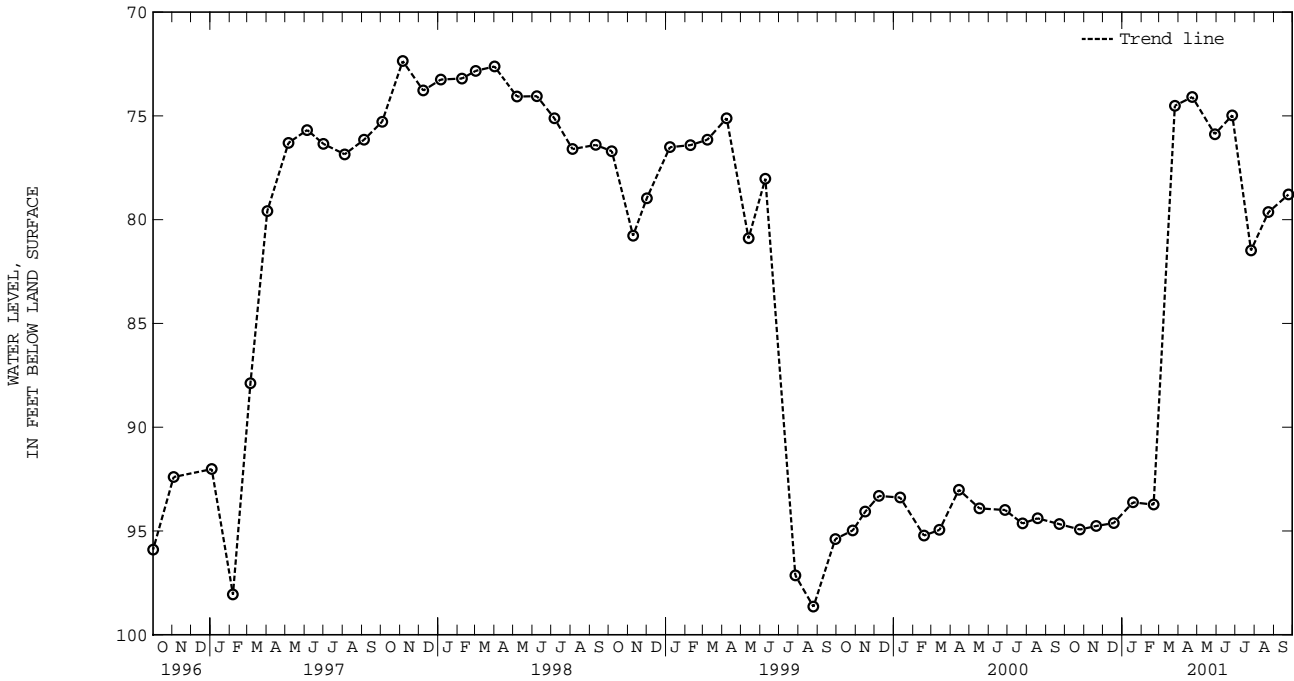
PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 66.23 ft below land surface, May 1, 1990;  
lowest measured, 115.06 ft below land surface, Aug. 29, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	94.93	JAN 18, 2001	93.62	APR 23, 2001	74.09	JUL 26, 2001	81.48
NOV 20	94.76	FEB 20	93.73	MAY 29	75.88	AUG 23	79.64
DEC 18	94.62	MAR 26	74.51	JUN 26	74.97	SEP 24	78.79

WATER YEAR 2001 HIGHEST 74.09 APR 23, 2001 LOWEST 94.93 OCT 25, 2000

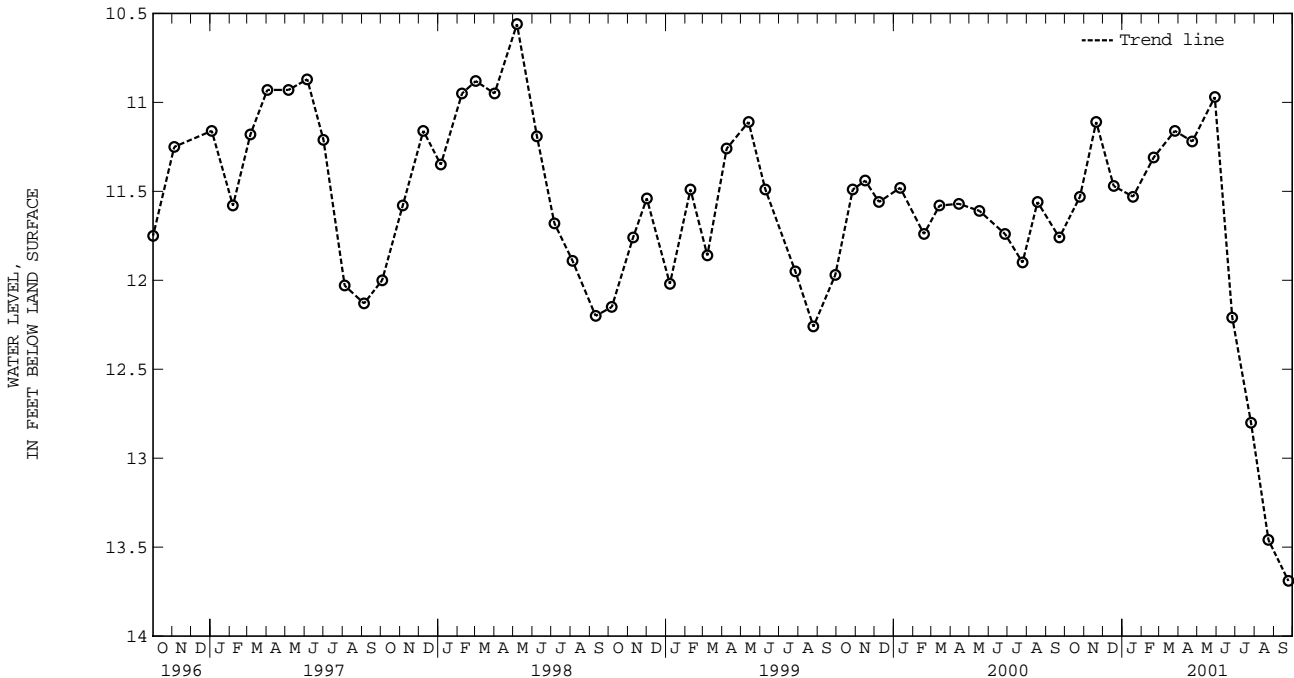


DORCHESTER COUNTY--Continued

WELL LOCATION.--DO Ce 15. SITE ID.--383408076042402. PERMIT NUMBER.--DO-00-1220.  
 LOCATION.--Lat 38°34'08", long 76°04'23", Hydrologic Unit 02060005, near Cambridge Creek, near Trenton St., Cambridge.  
 Owner: Carroll W. Thomas & Sons., Inc.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 970.5 ft; casing diameter 10 in., to 25 ft.; casing diameter 8 in. from 25 to 236.5 ft; casing diameter 6 in. from 230 to 513.5 ft; casing diameter 4 in. from 468 to 911.5 ft; casing diameter 3 in. from 902.3 to 950.5 ft; screen diameter 3 in. (?) from 950.5 to 970.5 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 6 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water level reported 68 ft below land surface Aug. 30, 1947. The drop in water-level in June 2001 is the result of increased ground-water withdrawal by Municipal Utilities. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--June 1958 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.41 ft below land surface, March 1, 1960; lowest measured, 41.12 ft below land surface, Aug. 7, 1959.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	11.53	JAN 18, 2001	11.53	APR 23, 2001	11.22	JUL 26, 2001	12.80
NOV 20	11.11	FEB 20	11.31	MAY 29	10.97	AUG 23	13.46
DEC 18	11.47	MAR 26	11.16	JUN 26	12.21	SEP 24	13.69
WATER YEAR 2001		HIGHEST	10.97	MAY 29, 2001	LOWEST	13.69	SEP 24, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 21. SITE ID.--383346076030301.

LOCATION.--Lat 38°33'46", long 76°03'03", Hydrologic Unit 02060005, on Shoal Creek about 1.5 mi southeast of Cambridge.

Owner: formerly Eastern Shore State Hospital.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, reported depth 370 ft; casing diameter 8 in., to 239 ft; casing diameter 4.5 in., 239 to 368.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with graphic water-level recorder Aug. 23, 1956 to Nov. 6, 1958, and Sept. 11, 1965 to Oct. 13, 1966.

DATUM.--Elevation of land surface is 11.7 ft above sea level.

Measuring point: Top of casing at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured 73.77 ft below land surface, Feb. 14, 1952.

Water levels are affected by local ground-water withdrawal. Access to well blocked by construction equipment, from

January 1988 through September 1988. Well destroyed in August 2001.

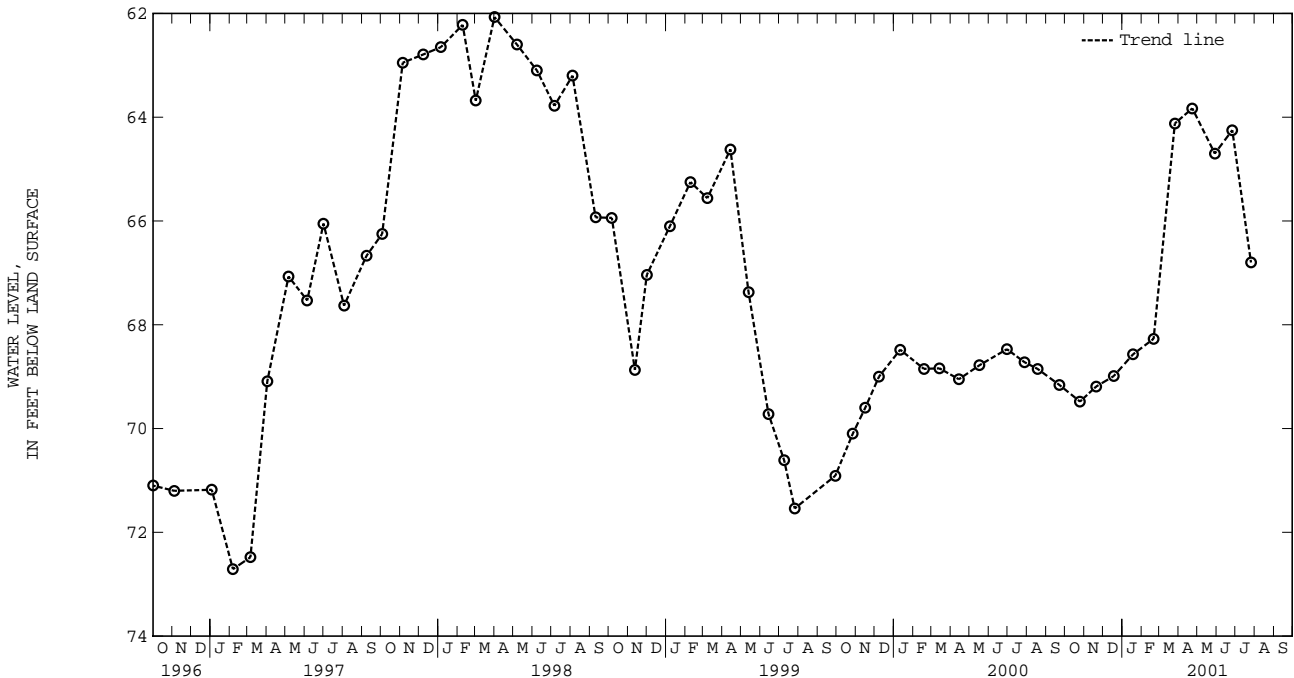
PERIOD OF RECORD.--August 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level reported, 14.00 ft below land surface, August 1914; highest water level measured, 55.88 ft below land surface, May 1, 1990; lowest measured, 132.95 ft, below land surface, Sept. 6, 1956.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	69.48	JAN 18, 2001	68.57	APR 23, 2001	63.83	JUL 26, 2001	66.80
NOV 20	69.19	FEB 20	68.27	MAY 29	64.70		
DEC 18	68.99	MAR 26	64.12	JUN 26	64.25		

WATER YEAR 2001      HIGHEST    63.83    APR 23, 2001      LOWEST    69.48    OCT 25, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 85. SITE ID.--383256076035301. PERMIT NUMBER.--DO-73-0281.

LOCATION.--Lat 38°32'56", long 76°03'53", Hydrologic Unit 02060005, at Woods Rd. water tower, Cambridge.

Owner: U.S. Geological Survey.

AQUIFER.--Cheswold aquifer of the Calvert Formation of Lower middle Miocene age. Aquifer code: 122CSLD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 230 ft; casing diameter 4 in., to 220 ft; screen diameter 4 in. from 220 to 230 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.10 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Reported as DO Ce 78 in previous reports.

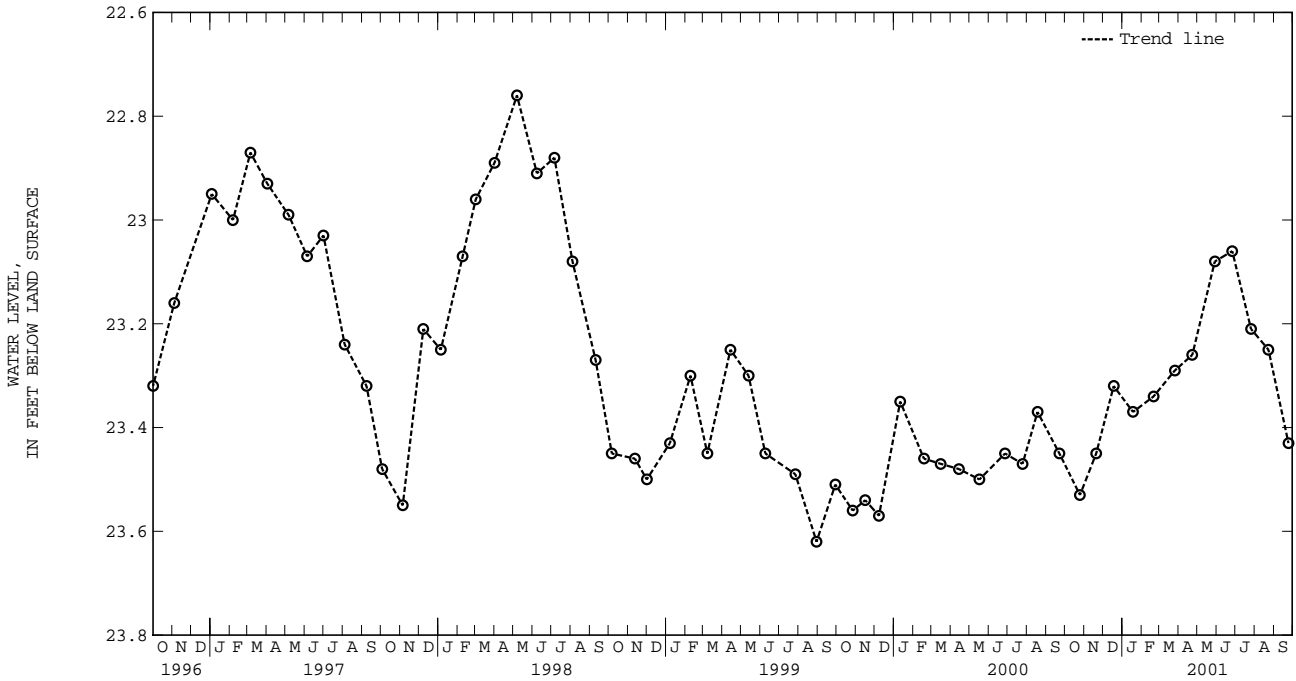
PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.74 ft below land surface, June 3, 1993;

lowest measured, 26.39 ft below land surface, Oct. 4, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	23.53	JAN 18, 2001	23.37	APR 23, 2001	23.26	JUL 26, 2001	23.21
NOV 20	23.45	FEB 20	23.34	MAY 29	23.08	AUG 23	23.25
DEC 18	23.32	MAR 26	23.29	JUN 26	23.06	SEP 24	23.43
WATER YEAR 2001 HIGHEST		23.06	JUN 26, 2001 LOWEST		23.53	OCT 25, 2000	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Db 17. SITE ID.--382800076180701. PERMIT NUMBER.--DO-73-0557.

LOCATION.--Lat 38°28'00", long 76°18'07", Hydrologic Unit 02060005, off MD Rt. 16, nr Old Taylors Island School, Taylor Island.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 320 ft; casing diameter 6 in., to 55 ft; casing diameter 2 in. from 55 to 270 ft; screen diameter 2 in. from 270 to 280 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.65 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water-levels are affected by regional ground-water withdrawal.

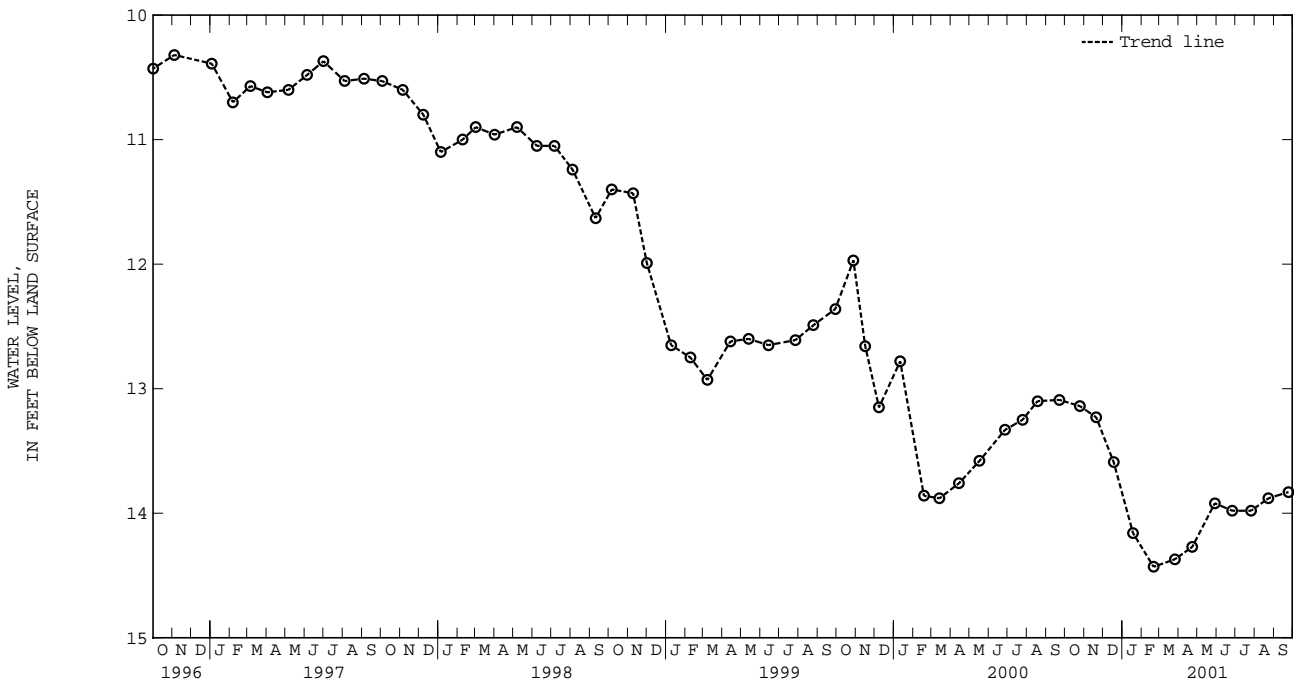
PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.18 ft below land surface, Dec. 5, 1990; lowest measured, 14.43 ft below land surface, Feb. 20, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	13.14	JAN 18, 2001	14.16	APR 23, 2001	14.27	JUL 26, 2001	13.98
NOV 20	13.23	FEB 20	14.43	MAY 29	13.92	AUG 23	13.88
DEC 18	13.59	MAR 26	14.37	JUN 26	13.98	SEP 24	13.83

WATER YEAR 2001 HIGHEST 13.14 OCT 25, 2000 LOWEST 14.43 FEB 20, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Db 18. SITE ID.--382807076175801. PERMIT NUMBER.--DO-81-1314.

LOCATION.-- Lat 38°28'07", long 76°17'58", Hydrologic Unit 02060005, off MD Rt. 16, Taylors Island.

Owner: Eleanor Polley.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, depth 540 ft; casing diameter 4 in., to 140 ft; casing diameter 2 in. from 140 to 520 ft; screen diameter 2 in. from 520 to 540 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 2 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water-levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--November 1988 to current year.

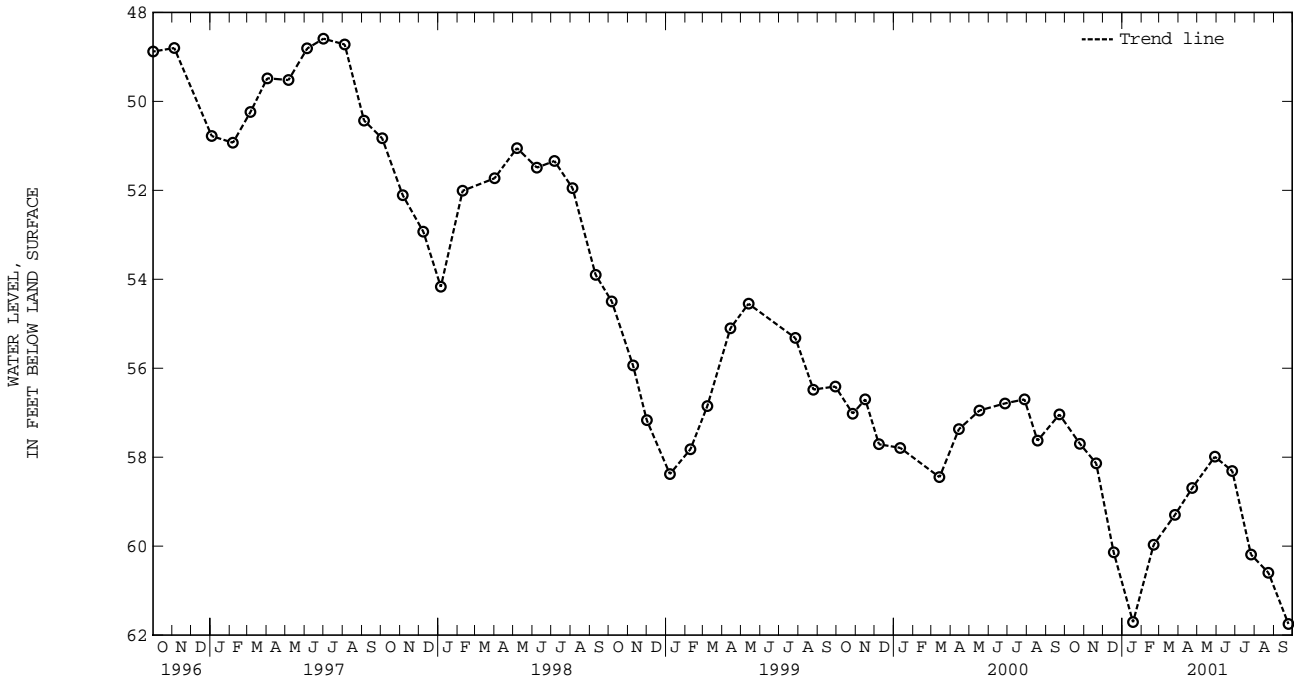
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.44 ft below land surface, Feb. 2, 1989;

lowest measured, 61.75 ft below land surface, Sept. 24, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	57.70	JAN 18, 2001	61.71	APR 23, 2001	58.69	JUL 26, 2001	60.19
NOV 20	58.14	FEB 20	59.97	MAY 29	57.99	AUG 23	60.60
DEC 18	60.14	MAR 26	59.30	JUN 26	58.31	SEP 24	61.75

WATER YEAR 2001 HIGHEST 57.70 OCT 25, 2000 LOWEST 61.75 SEP 24, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Db 19. SITE ID.--382847076190901. PERMIT NUMBER.--DO-81-1164.

LOCATION.--Lat 38°28'47", long 76°19'09", Hydrologic Unit 02060005, Taylors Island, off Bay Shore Road.

Owner: Elmer Wiley.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, depth 540 ft; casing diameter 4 in. to 140 ft; casing diameter 2 in. from 140 to 520 ft; screen diameter 2 in. from 520 to 540 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water-levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--March 1989 to current year.

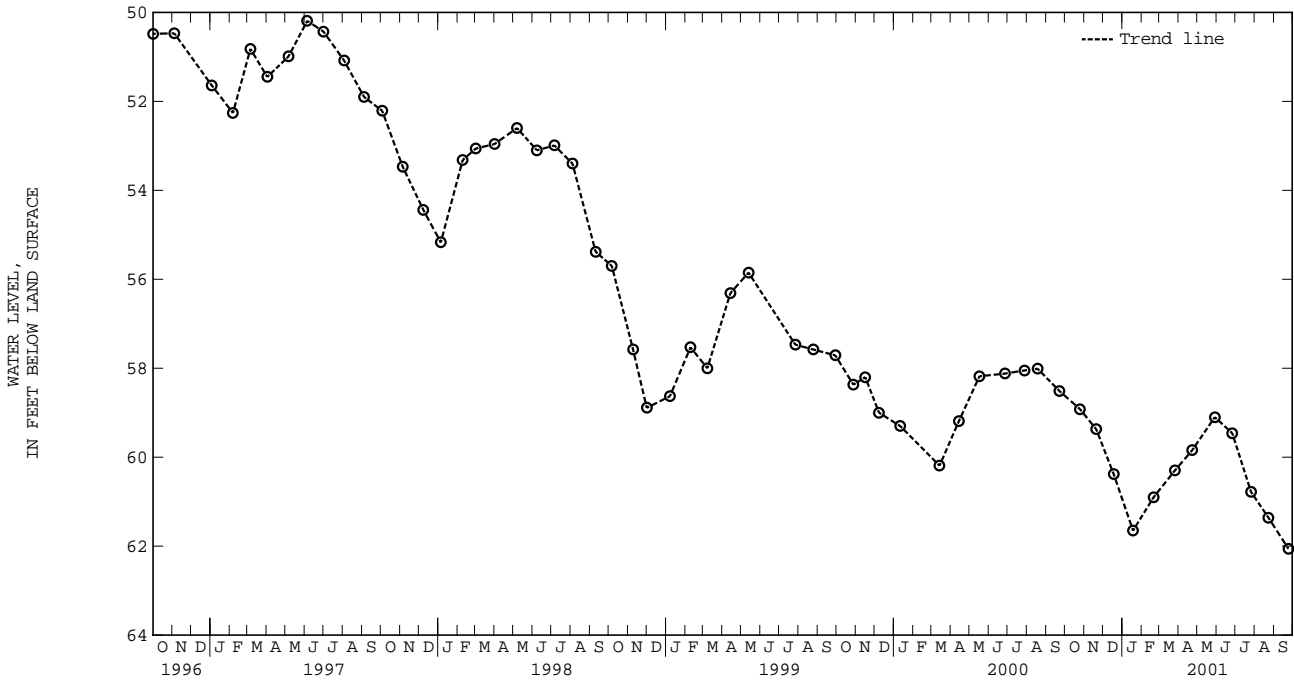
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.50 ft below land surface, Aug. 2, 1989;

lowest measured, 62.06 ft below land surface, Sept. 24, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	58.92	JAN 18, 2001	61.65	APR 23, 2001	59.84	JUL 26, 2001	60.78
NOV 20	59.37	FEB 20	60.90	MAY 29	59.10	AUG 23	61.36
DEC 18	60.38	MAR 26	60.30	JUN 26	59.46	SEP 24	62.06

WATER YEAR 2001 HIGHEST 58.92 OCT 25, 2000 LOWEST 62.06 SEP 24, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Dh 27. SITE ID.--382916075491702. PERMIT NUMBER.--DO-71-0001.  
 LOCATION.--Lat 38°29'16", Long 75°49'17", Hydrologic Unit 02060008, Vienna power plant.  
 Owner: Vienna Power LLC.  
 AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 63 ft; casing diameter 12 in., to 20 ft; casing diameter 8 in., to 33 ft; screen diameter 6 in. from 33 to 63 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from May 1990 to current year.  
 DATUM.--Elevation of land surface is 9.10 ft above sea level.  
 Measuring Point: Top of shelter platform, 2.69 ft above land surface.  
 REMARKS.-- Southern Maryland observation well network. Water levels are affected by local ground-water withdrawal at the powerplant. The April 1, 1997 record low water level is due to an extended period of pumping to fill the storage tank, which was drained for maintenance.  
 PERIOD OF RECORD.--April 1990 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured (recorder), 4.34 ft above sea level, February 7, 1998; lowest measured (recorder), 11.11 ft below sea level, April 1, 1997.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 (READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	2.94	-2.43	2.53	1.74	1.65	-5.66	1.98	-6.82	2.76	-4.44	2.89	2.42				
2	2.87	-1.79	2.46	-4.36	2.08	1.48	1.04	-6.99	2.23	-4.99	2.85	-4.02				
3	2.84	-1.88	2.78	2.29	2.01	1.62	1.28	-6.45	2.41	1.96	2.93	2.39				
4	2.87	-.02	2.78	2.49	2.13	-4.53	1.70	-5.78	2.50	1.99	2.97	-5.44				
5	2.86	-1.76	2.78	2.20	2.13	-6.09	1.67	-5.40	2.49	-4.84	2.22	-5.11				
6	2.87	-8.40	2.53	-5.67	1.46	-5.86	2.22	1.66	2.86	1.98	2.65	2.00				
7	2.42	2.00	1.98	-5.68	1.66	-5.40	2.56	1.99	2.79	2.12	2.31	-5.62				
8	2.49	2.06	2.07	-5.32	1.64	-5.92	2.44	-5.26	2.47	-3.60	2.50	-5.30				
9	2.41	1.93	2.31	-4.74	1.95	1.06	2.12	-5.05	2.78	1.98	2.88	-5.39				
10	2.50	-5.72	2.54	-4.66	2.34	1.68	2.15	-5.06	2.92	2.23	2.42	-5.85				
11	2.07	-5.02	2.38	1.65	2.23	-5.98	2.01	-5.94	2.28	1.79	2.39	-5.57				
12	1.80	-6.85	2.49	1.65	1.87	-6.08	1.92	-5.76	2.11	-4.24	2.32	-6.12				
13	1.50	-6.54	2.64	-4.68	1.36	-6.77	2.36	1.46	2.36	1.60	2.45	-4.83				
14	1.85	-6.42	2.37	-5.78	1.49	-6.44	2.54	2.00	2.77	2.06	2.51	-5.60				
15	1.70	-6.27	2.23	1.24	1.62	-5.66	2.44	-4.68	2.77	-6.08	2.14	-6.34				
16	2.27	1.32	2.19	-5.95	2.31	1.25	2.47	1.84	1.81	-5.97	1.74	-6.34				
17	2.22	-6.07	1.91	-5.86	3.11	2.08	2.47	-2.18	2.41	1.58	2.56	1.48				
18	2.07	-5.97	1.98	1.13	3.11	-5.30	2.26	-3.08	2.34	1.84	2.56	1.94				
19	1.93	-6.09	2.09	1.54	1.80	-5.51	2.52	1.44	2.80	2.10	2.24	-6.30				
20	2.26	-4.52	2.10	-5.36	1.82	-5.70	2.75	2.30	2.74	2.23	1.70	-6.21				
21	2.41	1.98	1.87	-5.62	1.58	-5.79	2.80	2.17	2.62	-5.07	1.86	-5.61				
22	2.41	1.77	1.44	-7.22	1.70	-5.77	2.50	-4.86	2.02	-5.62	2.62	-4.96				
23	2.37	-4.13	.79	-6.58	1.30	-6.56	2.24	-3.94	2.04	-5.29	2.64	-5.26				
24	2.49	2.00	1.69	.79	1.57	-6.28	2.60	-3.22	2.50	1.91	2.98	1.98				
25	2.51	-5.69	2.07	1.37	1.48	-5.51	2.78	-5.38	3.00	2.11	2.80	2.26				
26	1.99	-6.10	2.84	1.75	1.16	-6.67	2.00	-5.50	2.97	-5.26	2.99	-5.23				
27	1.97	-5.77	2.64	2.14	1.33	-6.81	2.72	1.78	2.66	1.85	2.33	-5.96				
28	2.35	1.71	2.38	1.92	1.39	-6.96	2.52	2.07	2.74	2.28	2.34	-6.01				
29	2.41	1.78	2.15	-5.94	1.33	-6.52	2.49	-5.12	---	---	2.38	-6.01				
30	2.23	-5.92	1.78	-6.42	1.87	-6.24	2.99	1.97	---	---	2.76	-5.31				
31	2.07	-5.35	---	---	2.12	1.55	2.99	2.57	---	---	2.97	2.20				
MONTH	2.94	-8.40	2.84	-7.22	3.11	-6.96	2.99	-6.99	3.00	-6.08	2.99	-6.34				

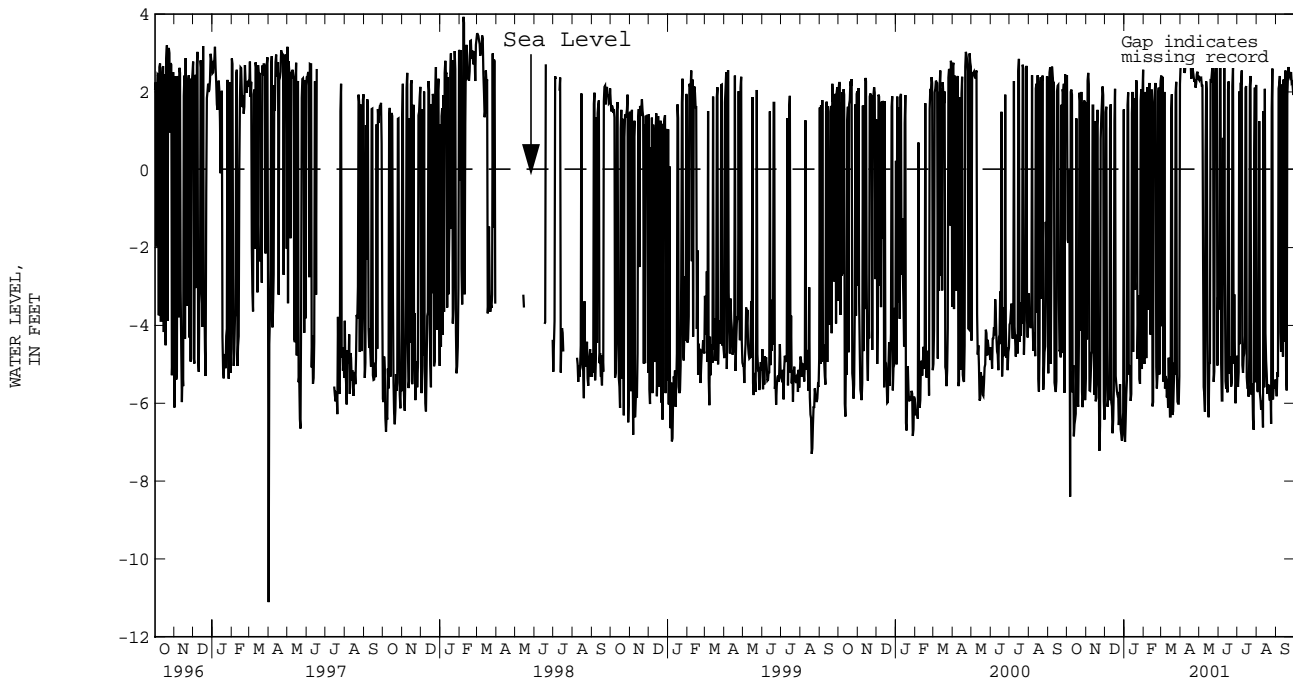
DORCHESTER COUNTY--Continued

DO Dh 27--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.16	2.66	2.85	2.31	3.01	-3.59	2.68	-5.36	2.93	-5.06	2.68	-5.53
2	3.46	2.93	2.88	2.37	3.26	-3.31	2.43	-5.58	2.60	-5.68	2.42	-5.82
3	3.33	2.86	2.92	2.35	3.20	2.75	2.28	-5.20	2.50	-5.71	2.36	-5.20
4	3.21	2.67	2.85	2.36	3.16	2.64	2.76	2.01	2.49	-4.85	2.78	-5.32
5	3.17	2.67	2.90	2.16	3.18	-4.98	2.91	-4.48	2.57	1.25	2.57	2.09
6	3.35	2.83	2.72	2.16	2.70	-5.93	2.82	2.21	2.71	-5.74	2.79	2.19
7	3.21	2.49	2.88	-2.26	2.36	-5.93	2.89	2.21	2.41	-5.91	2.88	2.41
8	3.19	2.53	2.94	-5.58	2.88	.82	3.17	2.55	2.20	-6.17	2.85	-4.18
9	3.31	2.76	2.46	-5.78	3.06	-2.95	2.92	-5.02	1.96	-6.03	2.65	-4.68
10	3.31	2.75	2.34	-6.22	3.18	2.68	2.58	-5.22	2.12	-5.94	2.79	2.19
11	3.22	2.70	2.53	.36	3.14	-2.82	2.57	-4.81	1.94	-6.62	2.78	1.98
12	3.29	2.79	2.77	2.27	3.09	-5.43	2.38	-4.72	2.58	1.51	2.56	-4.80
13	3.36	2.90	2.50	1.99	2.46	-5.63	2.45	-4.27	2.60	-5.59	2.76	2.32
14	3.15	2.71	2.50	-4.40	2.45	-4.94	2.59	2.10	2.65	2.08	2.96	-4.42
15	3.19	2.78	2.31	-6.04	2.50	-5.72	2.65	2.15	2.77	-4.20	2.61	1.86
16	3.32	2.85	1.88	-6.36	2.78	2.06	2.72	-5.33	3.00	-4.91	2.97	2.55
17	3.36	2.87	2.48	-4.95	2.90	2.27	2.40	-5.59	3.03	-5.25	3.05	-5.17
18	3.16	2.34	2.65	-4.99	2.96	-5.08	2.46	-5.58	2.63	-5.76	2.72	-5.67
19	2.96	2.42	2.67	2.29	2.85	-5.24	2.32	-5.83	2.63	-5.56	2.80	1.91
20	3.12	2.62	2.76	2.28	2.85	-4.80	2.43	-4.82	2.65	-5.52	3.08	2.40
21	3.06	2.52	2.95	2.46	2.74	-5.57	2.83	2.15	2.64	-5.78	3.08	2.64
22	3.02	2.38	3.14	2.67	2.79	-5.46	2.91	2.41	2.50	-5.93	2.91	2.44
23	2.83	2.26	3.14	2.44	3.30	2.16	2.82	-5.74	2.40	-5.54	2.86	2.39
24	2.91	2.31	3.02	-5.45	3.20	2.64	2.41	-5.78	2.35	-6.53	3.14	2.46
25	2.69	2.11	2.76	-5.18	2.96	-4.98	2.28	-5.50	2.84	1.57	3.16	2.51
26	2.78	2.22	3.18	2.30	2.75	-3.20	2.01	-6.42	3.15	2.60	2.78	2.23
27	3.10	2.46	3.31	2.83	2.70	-4.71	1.54	-6.68	3.17	-5.90	2.76	2.25
28	3.14	2.52	3.43	2.98	2.60	-6.00	2.41	.48	2.23	-5.52	2.59	2.05
29	2.82	2.31	3.38	2.96	2.22	-5.44	2.64	2.11	2.36	-5.60	2.48	1.92
30	2.89	2.35	3.33	-5.03	2.49	-4.78	2.75	-5.46	2.44	-5.60	2.62	2.02
31	---	---	2.78	-3.28	---	---	2.76	2.18	2.60	-5.39	---	---
MONTH	3.46	2.11	3.43	-6.36	3.30	-6.00	3.17	-6.68	3.17	-6.62	3.16	-5.82
YEAR	3.46	-8.40										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

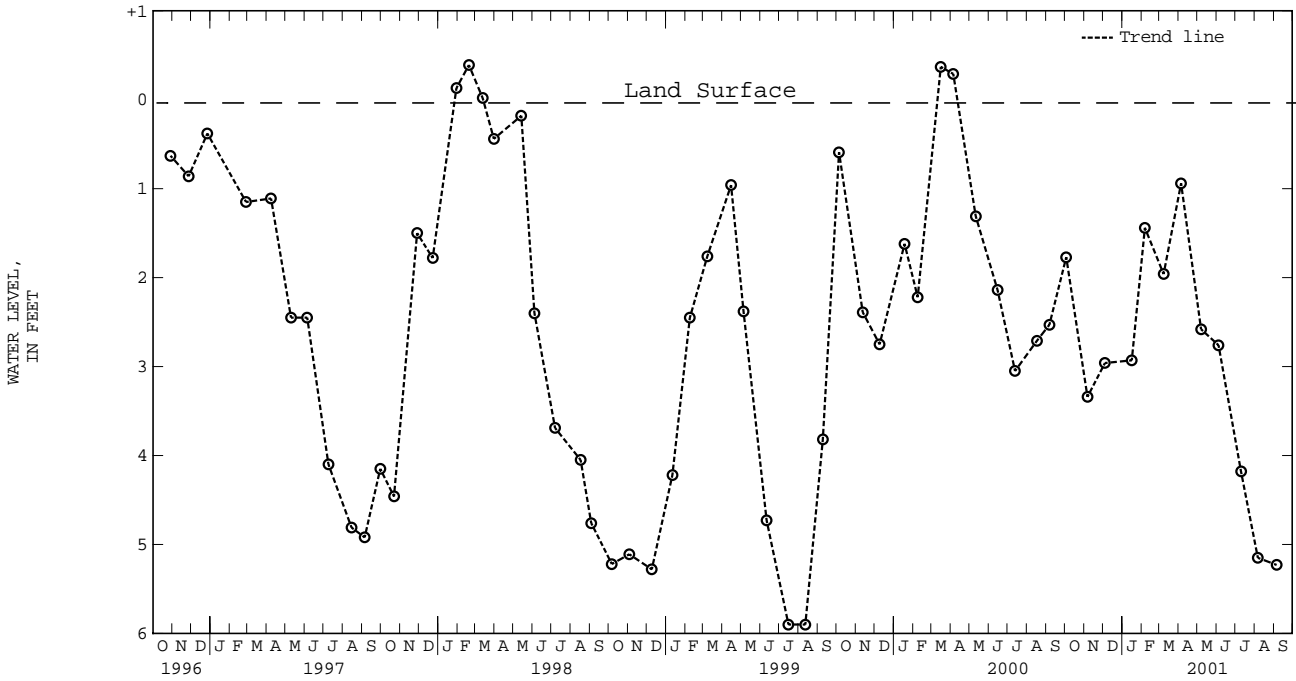
GROUND-WATER LEVELS IN MARYLAND--Continued

FREDERICK COUNTY

WELL NUMBER.--FR Af 27. SITE ID.--394200077190701. PERMIT NUMBER.--FR-73-7155.  
 LOCATION.--Lat 39°42'00", long 77°19'07", Hydrologic Unit 02070009, 0.3 mi southwest of U.S. Rt. 15 and MD Rt. 140, Emmitsburg.  
 Owner: City of Emmitsburg.  
 AQUIFER.--Gettysburg Shale of Upper Triassic age. Aquifer code: 231GBRG.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 365 ft; casing diameter 6 in., to 41 ft; open hole.  
 DATUM.--Elevation of land surface is 385 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 0.81 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--April 1982 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.69 ft above land surface, July 31, 1996;  
 lowest measured, 5.90 ft below land surface, July 16, 1999, and Aug. 12, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	1.77	JAN 16, 2001	2.93	APR 05, 2001	.94	JUL 10, 2001	4.18
NOV 06	3.34	FEB 06	1.44	MAY 07	2.58	AUG 06	5.15
DEC 04	2.96	MAR 08	1.96	JUN 04	2.76	SEP 05	5.23
WATER YEAR 2001		HIGHEST	.94	APR 05, 2001	LOWEST	5.23	SEP 05, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



FREDERICK COUNTY--Continued

WELL NUMBER.--FR Bd 96. SITE ID.--393733077274801.

LOCATION.--Lat 39°37'33", long 77°27'48", Hydrologic Unit 02070009, 0.4 mi west of Hunting Creek Lake, Cunningham Falls State Park.

Owner: State of Maryland.

AQUIFER.--Catoctin Metabasalt of Precambrian age. Aquifer code: 400CTCN.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 189 ft; casing diameter 6 in., to 22 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with water-level recorder April 5, 1982 to Feb. 21, 1984, and a digital water-level recorder--15-minute recorder interval from June 23, 1991 to May 4, 1993.

DATUM.--Elevation of land surface is 1,150 ft above sea level, from topographic map.

Measuring point: Top of casing at land surface.

REMARKS.--Maryland Water-Level Network observation well.

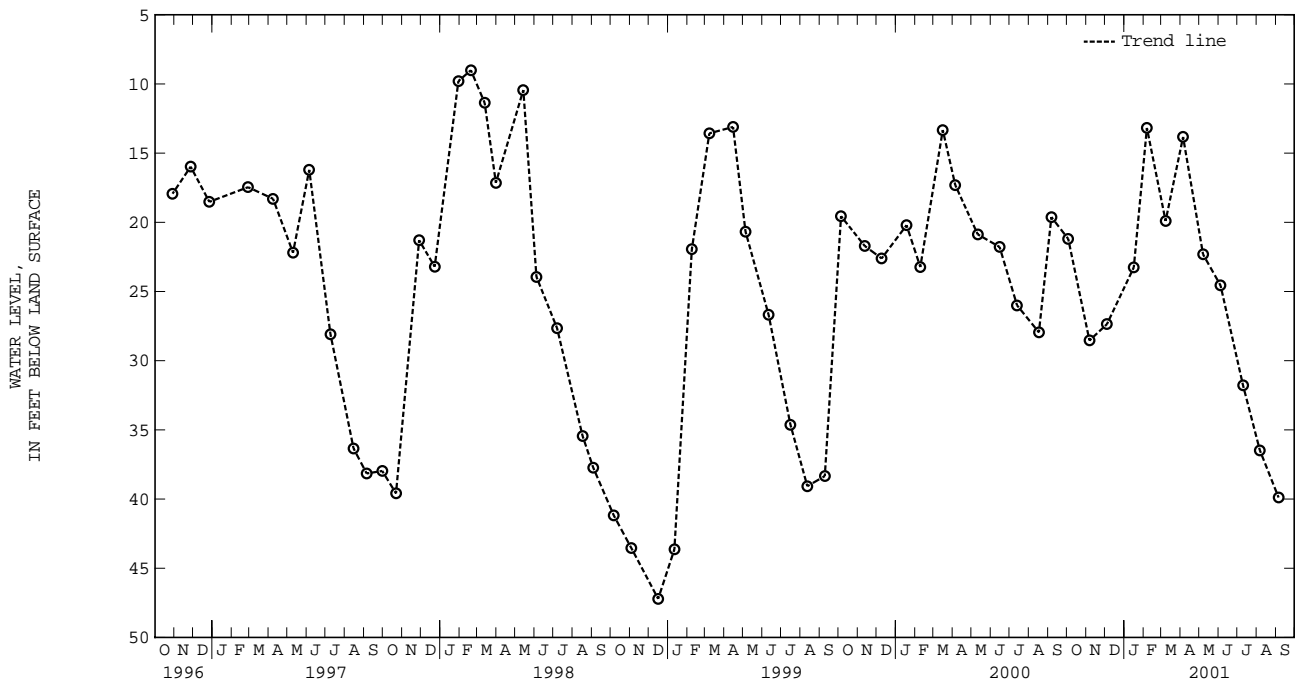
PERIOD OF RECORD.--April 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.54 ft below land surface, May 11, 1989; lowest measured, 47.21 ft below land surface, Dec. 16, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	21.20	JAN 16, 2001	23.26	APR 05, 2001	13.83	JUL 10, 2001	31.78
NOV 06	28.54	FEB 06	13.18	MAY 07	22.32	AUG 06	36.48
DEC 04	27.36	MAR 08	19.90	JUN 04	24.56	SEP 05	39.89

WATER YEAR 2001 HIGHEST 13.18 FEB 06, 2001 LOWEST 39.89 SEP 05, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

FREDERICK COUNTY--Continued

WELL NUMBER.--FR Cg 1. SITE ID.--393156077135701.

LOCATION.--Lat 39°31'56", long 77°13'57", Hydrologic Unit 02070009, at Johnsville.

Owner: Evan B. Evans, Jr.

AQUIFER.--Ijamsville Formation of Paleozoic age. Aquifer code: 300IJMV.

WELL CHARACTERISTICS.--Dug, stone-lined, domestic, water-table well, depth 42.5 ft; diameter 36 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 600 ft above sea level, from topographic map.

Measuring point: Top of wooden well cover, 0.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Residents use well as their primary water source.

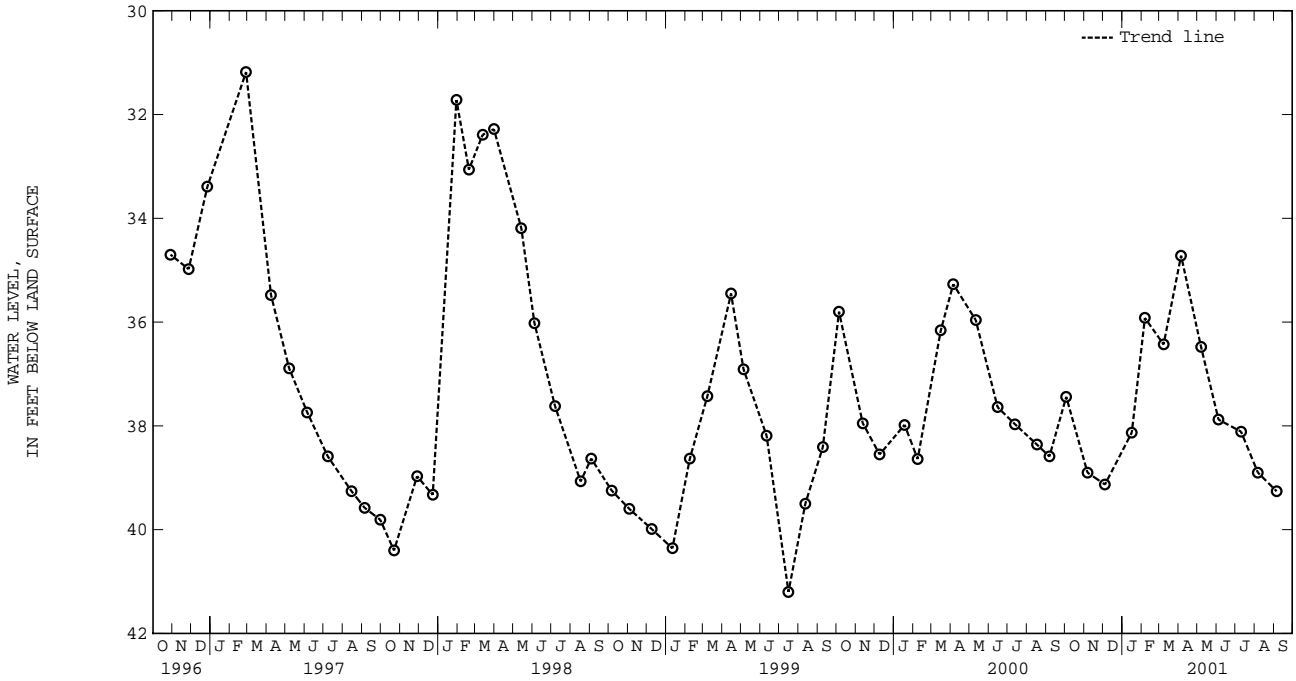
PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.63 ft below land surface, Sept. 29, 1975;

lowest measured, 42.02 ft below land surface, Oct. 5, 1982.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	37.44	JAN 16, 2001	38.13	APR 05, 2001	34.72	JUL 10, 2001	38.11
NOV 06	38.90	FEB 06	35.92	MAY 07	36.48	AUG 06	38.90
DEC 04	39.13	MAR 08	36.43	JUN 04	37.88	SEP 05	39.26
WATER YEAR 2001		HIGHEST	34.72	APR 05, 2001	LOWEST	39.26	SEP 05, 2001

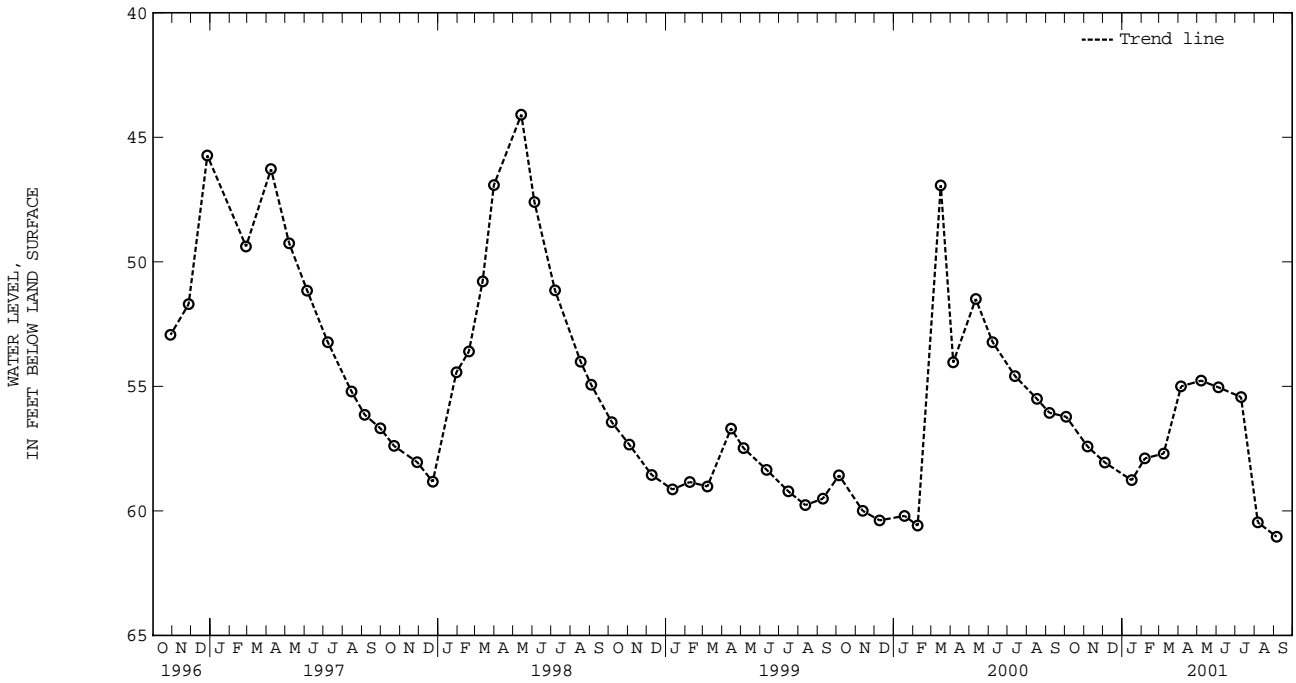


FREDERICK COUNTY--Continued

WELL NUMBER.--FR Df 35. SITE ID.--392517077190401. PERMIT NUMBER.--FR-73-0852.  
 LOCATION.--Lat 39°25'17", long 77°19'04", Hydrologic Unit 02070009, north of Eaglehead Drive, near Lake Linganore.  
 Owner: Lake Linganore Association.  
 AQUIFER.--Sams Creek Metabasalt of Paleozoic age. Aquifer code: 300SMCK.  
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 302 ft, casing diameter 6 in., to 26 ft, open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 570 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--May 1982 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.09 ft below land surface, May 14, 1998;  
 lowest measured, 62.27 ft below land surface, Feb. 9, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	56.22	JAN 16, 2001	58.77	APR 05, 2001	55.00	JUL 10, 2001	55.43
NOV 06	57.41	FEB 06	57.89	MAY 07	54.77	AUG 06	60.46
DEC 04	58.06	MAR 08	57.70	JUN 04	55.04	SEP 05	61.04
WATER YEAR 2001		HIGHEST	54.77	MAY 07, 2001	LOWEST	61.04	SEP 05, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY

WELL NUMBER.--GA Ag 1. SITE ID.--394017078581701.

LOCATION.--Lat 39°40'17", long 78°58'17", Hydrologic Unit 02070002, in the Savage River Valley, 2.5 mi northwest of Frostburg.

Owner: Town of Frostburg.

AQUIFER.--Pocono Formation of Lower Mississippian age. Aquifer code: 337POCN.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, Reported depth 30 ft, measured depth 14 ft; casing diameter 8 in., to unknown depth; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing at land surface.

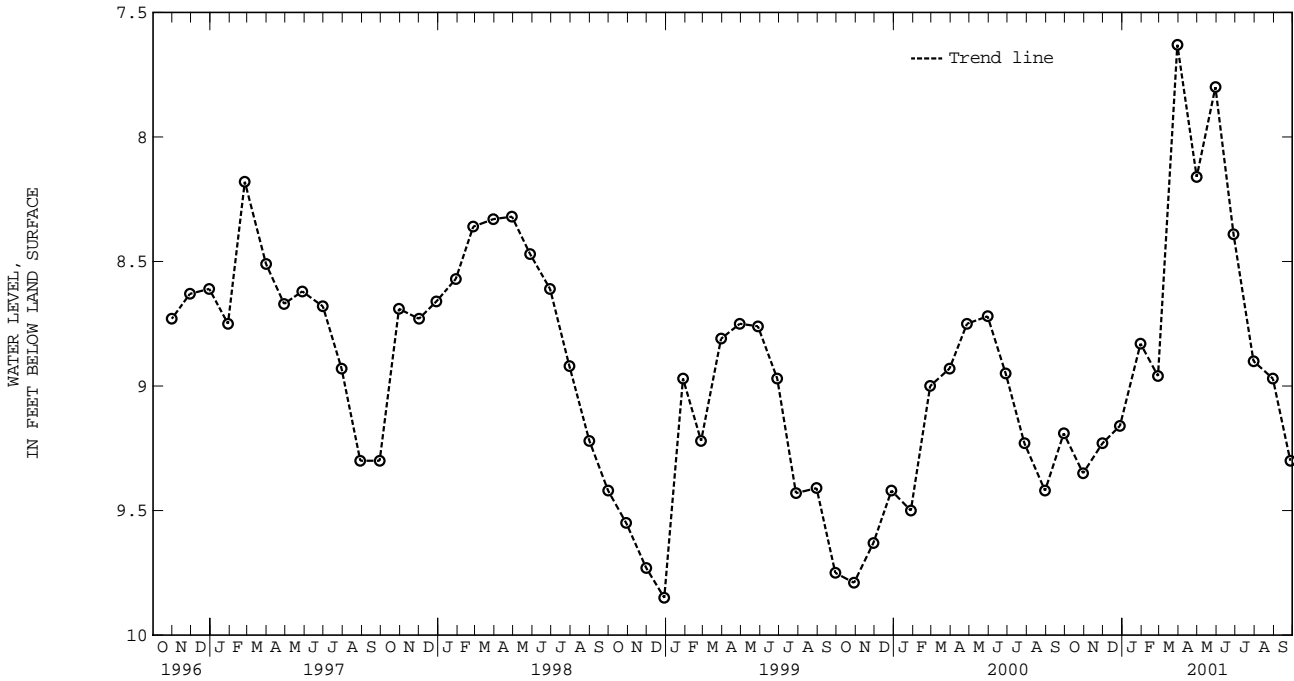
REMARKS.--Maryland Water-Level Network observation well. Water levels affected by nearby pumping.

PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.71 ft below land surface, Jan. 14, 1950; lowest measured, 14.59 ft below land surface, Jan. 28, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	9.35	JAN 30, 2001	8.83	APR 30, 2001	8.16	JUL 30, 2001	8.90
NOV 30	9.23	FEB 27	8.96	MAY 30	7.80	AUG 30	8.97
DEC 28	9.16	MAR 30	7.63	JUN 28	8.39	SEP 27	9.30
WATER YEAR 2001		HIGHEST	7.63	MAR 30, 2001	LOWEST	9.35	OCT 30, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Bc 1. SITE ID.--393749079190301.

LOCATION.--Lat 39°37'49", long 79°19'03", Hydrologic Unit 05020006, at Accident.

Owner: Mabel A. Georg.

AQUIFER.--Hampshire Formation of Upper Devonian age. Aquifer code: 341HMPR.

WELL CHARACTERISTICS.--Dug, stone-lined, domestic, water-table well, depth 20 ft; diameter 36 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,415 ft above sea level, from topographic map.

Measuring point: Top of 1 in. board cover, 2.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

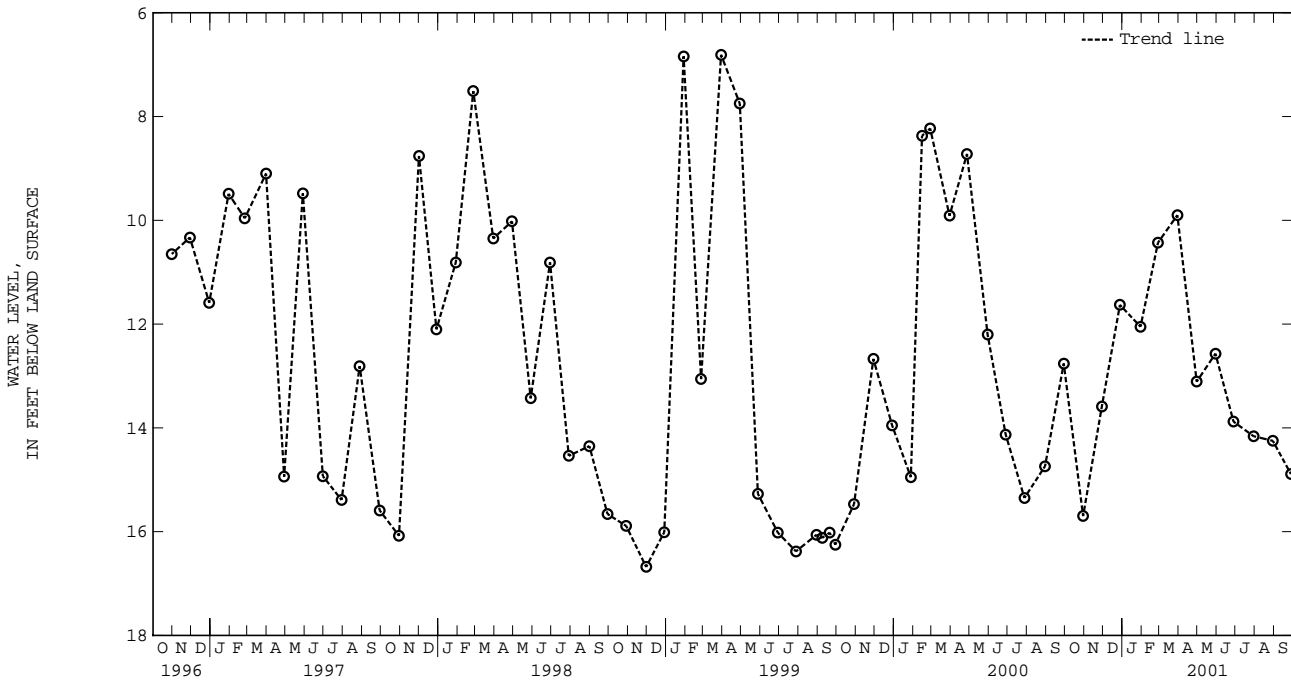
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.25 ft below land surface, March 6, 1979;

lowest measured, 19.65 ft below land surface, Dec. 9, 1953.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	15.70	JAN 30, 2001	12.05	APR 30, 2001	13.11	JUL 30, 2001	14.16
NOV 29	13.59	FEB 27	10.43	MAY 30	12.57	AUG 30	14.25
DEC 28	11.63	MAR 30	9.90	JUN 28	13.88	SEP 28	14.89
WATER YEAR 2001 HIGHEST 9.90 MAR 30, 2001		LOWEST 15.70 OCT 30, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Eb 78. SITE ID.--392439079231801. PERMIT NUMBER.--GA-88-0611.  
LOCATION.--Lat 39°24'39", long 79°23'18", Hydrologic Unit 05020006, at Southern Pines, near Broadford Road and Southern Pines Drive, Mountain Lake Park.  
Owner: Jonathan Kessler.

AQUIFER.--Jennings Formation of Upper Devonian age. Aquifer code: 341JNGS.  
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 307 ft; casing diameter 6 in., to 40 ft; open hole.  
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
DATUM.--Elevation of land surface is 2,500 ft above sea level, from topographic map.

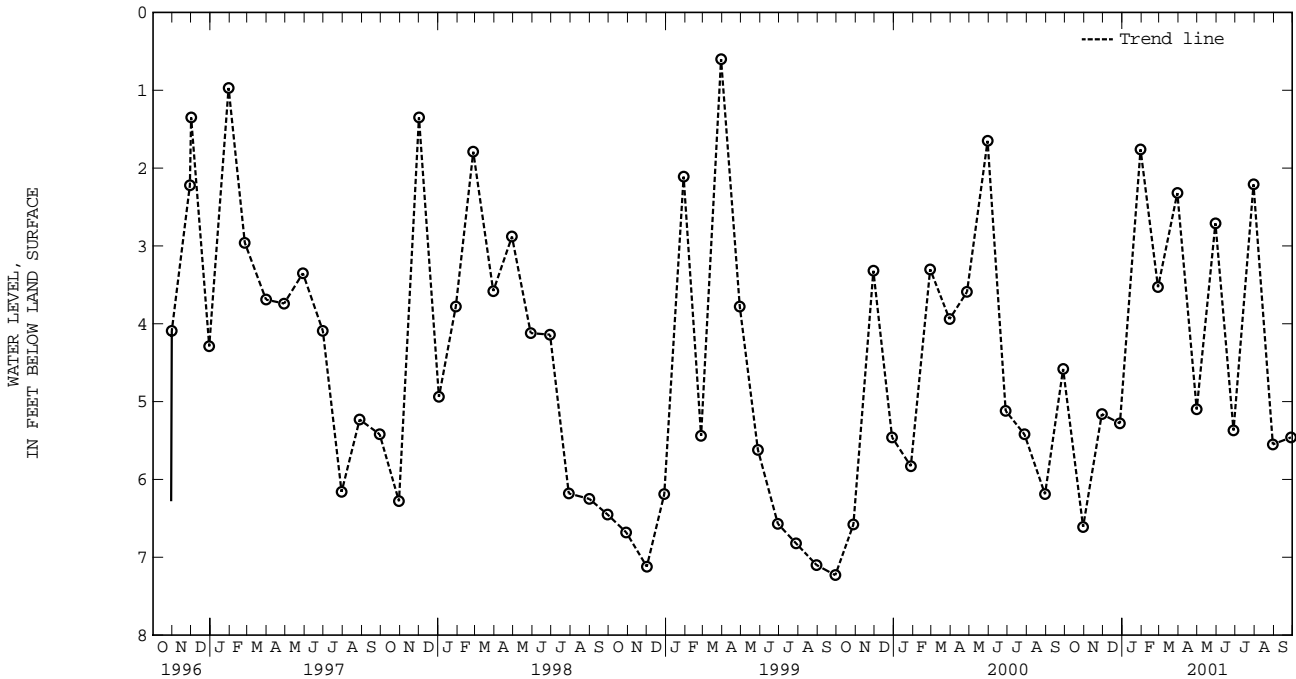
Measuring point: Top of casing 1.00 ft above land surface.  
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, flowing on March 29, 1993 and March 30, 1994; lowest measured, 9.12 ft below land surface, Aug. 30, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	6.61	JAN 30, 2001	1.76	APR 30, 2001	5.10	JUL 30, 2001	2.21
NOV 29	5.16	FEB 27	3.53	MAY 30	2.71	AUG 30	5.55
DEC 28	5.28	MAR 30	2.32	JUN 28	5.37	SEP 28	5.46
WATER YEAR 2001 HIGHEST		1.76 JAN 30, 2001	LOWEST		6.61 OCT 30, 2000		

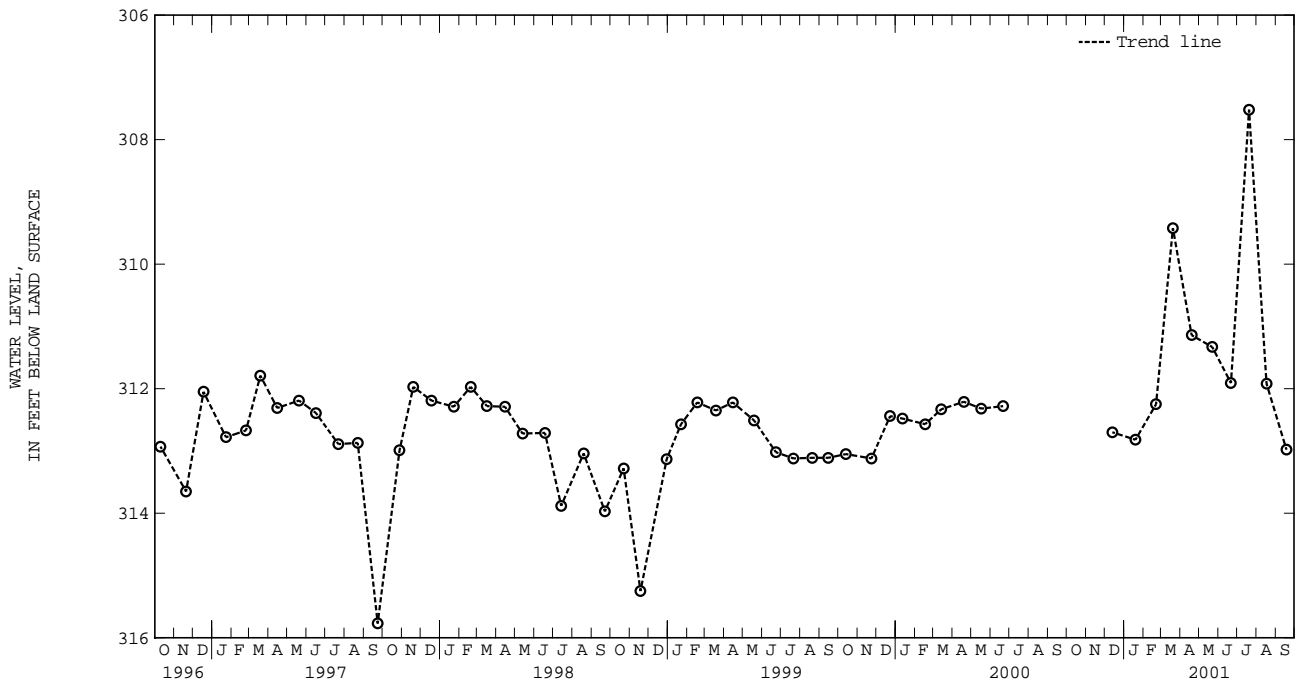


5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 28. SITE ID.--391512079270901. PERMIT NUMBER.--GA-73-1697.  
 LOCATION.--Lat 39°15'12", long 79°27'09", Hydrologic Unit 02070002, on south side of Red Oak Road, 0.6 mi west from the intersection with Kempton Road, 2.6 mi west of Wilson.  
 Owner: Mettiki Coal Corp.  
 AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 341 ft; casing diameter 6 in., to 317 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 2,890 ft above sea level, from topographic map.  
 Measuring Point: Top of casing, 1.50 ft above land surface.  
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations. Water level measurements could not be measured from July 2000 through November 2000 because of an obstruction in the well.  
 PERIOD OF RECORD.--June 1978 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.60 ft below land surface, Dec. 14, 1978; lowest measured dry at 341.00 ft below land surface, May 16, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM,							
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 13, 2000	312.70	MAR 20, 2001	309.42	JUN 21, 2001	311.91	SEP 18, 2001	312.98
JAN 19, 2001	312.82	APR 19	311.14	JUL 20	307.52		
FEB 21	312.25	MAY 22	311.33	AUG 17	311.92		
WATER YEAR 2001		HIGHEST	307.52	JUL 20, 2001	LOWEST	312.98	SEP 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 29. SITE ID.--391512079270902. PERMIT NUMBER.--GA-73-1698.

LOCATION.--Lat 39°15'12", long 79°27'09", Hydrologic Unit 02070002, on south side of Red Oak Road, 0.9 mi west from intersection with Kempton Road, 2.6 mi west of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 226 ft; casing diameter 6 in., to 203 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,890 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

PERIOD OF RECORD.--June 1978 to current year.

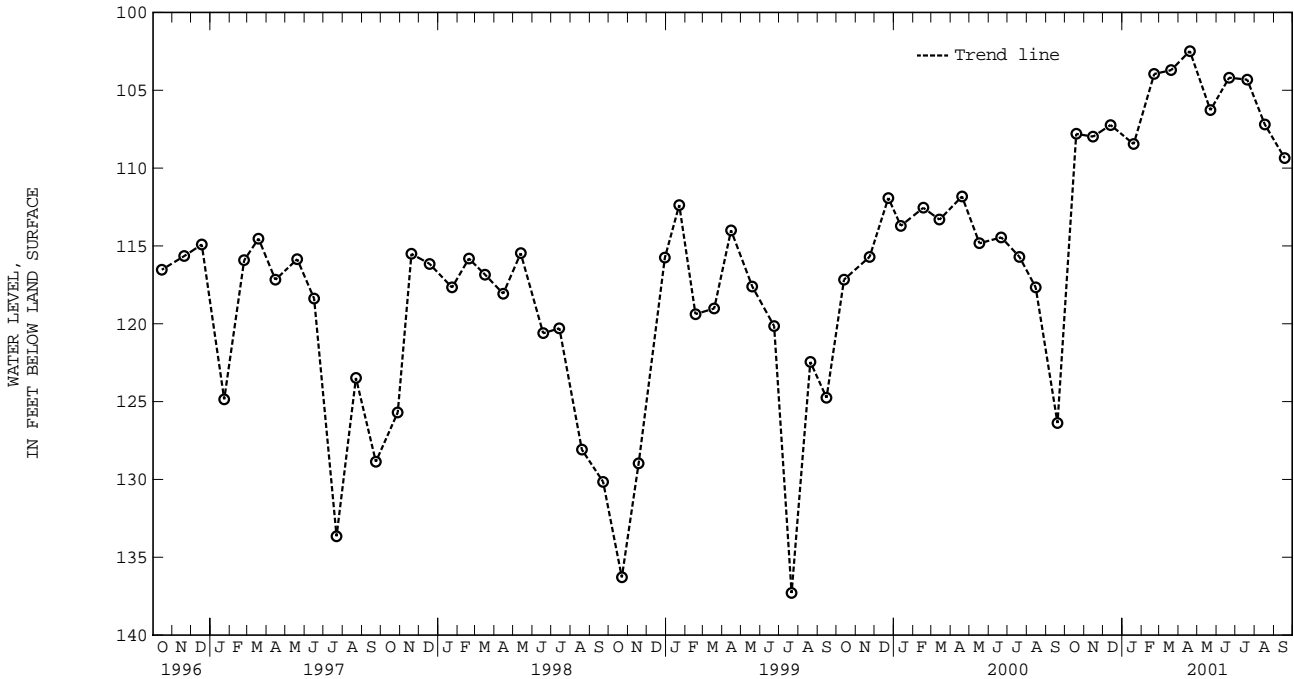
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.48 ft below land surface, April 19, 2001;

lowest water level measured, dry on Nov. 17, 18, 1982, Dec. 28, 1982, Feb. 18, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	107.80	JAN 19, 2001	108.46	APR 19, 2001	102.48	JUL 20, 2001	104.32
NOV 15	107.98	FEB 21	103.95	MAY 22	106.28	AUG 17	107.19
DEC 13	107.23	MAR 20	103.71	JUN 21	104.19	SEP 18	109.36

WATER YEAR 2001 HIGHEST 102.48 APR 19, 2001 LOWEST 109.36 SEP 18, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



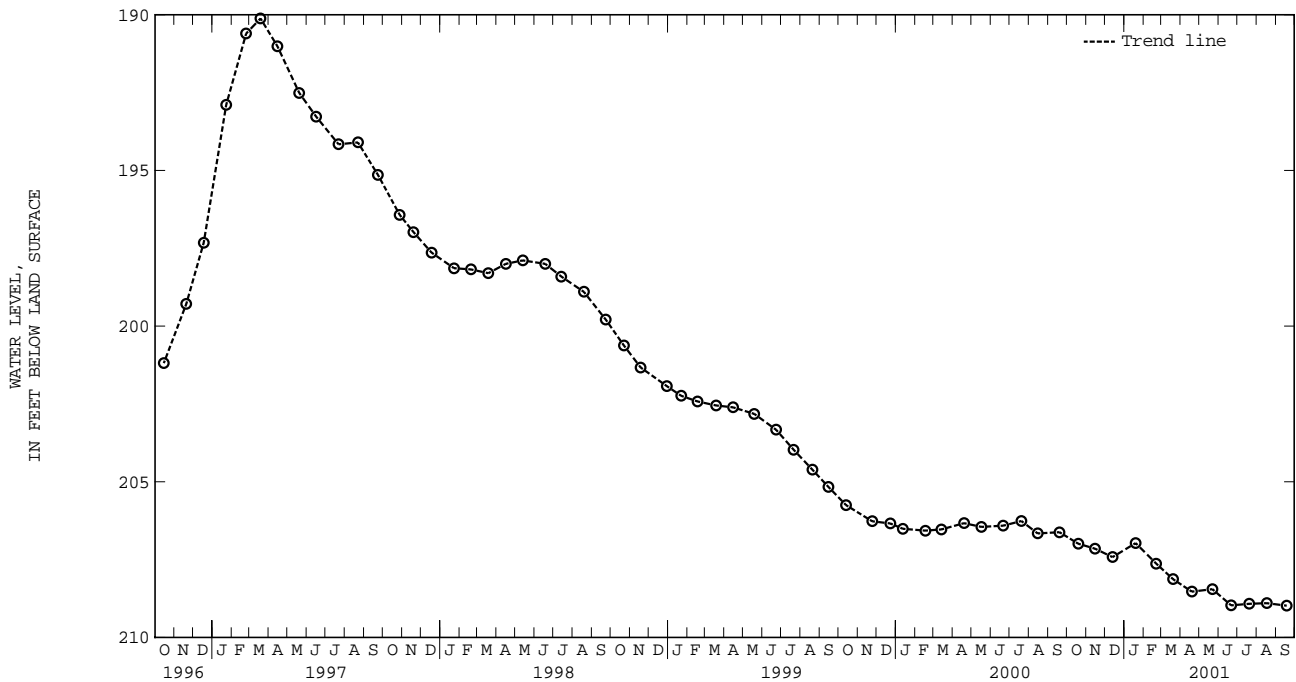
GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 31. SITE ID.--391539079254601. PERMIT NUMBER.--GA-73-2142.  
 LOCATION.--Lat 39°15'37", long 79°25'45", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Allegheny Formation of Middle Pennsylvanian age. Aquifer code: 324ALGN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 606 ft; casing diameter 8 in., to 25.5 ft; casing diameter 4 in., to 470 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.  
 DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.60 ft above land surface.  
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.  
 PERIOD OF RECORD.--April 1980 to to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.31 ft below land surface, April 8, 1980;  
 lowest measured, 208.98 ft below land surface, Sept. 18, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	206.99	JAN 19, 2001	206.97	APR 19, 2001	208.53	JUL 20, 2001	208.92
NOV 15	207.15	FEB 21	207.63	MAY 22	208.45	AUG 17	208.90
DEC 13	207.42	MAR 20	208.13	JUN 21	208.97	SEP 18	208.98

WATER YEAR 2001 HIGHEST 206.97 JAN 19, 2001 LOWEST 208.98 SEP 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 32. SITE ID.--391539079254602. PERMIT NUMBER.--GA-73-2143.

LOCATION.--Lat 39°15'39", long 79°25'46", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 473 ft; casing diameter 8 in., to 23 ft; casing diameter 4 in., to 430 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 21, 1980 to April 8, 1981.

DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.15 ft above land surface.

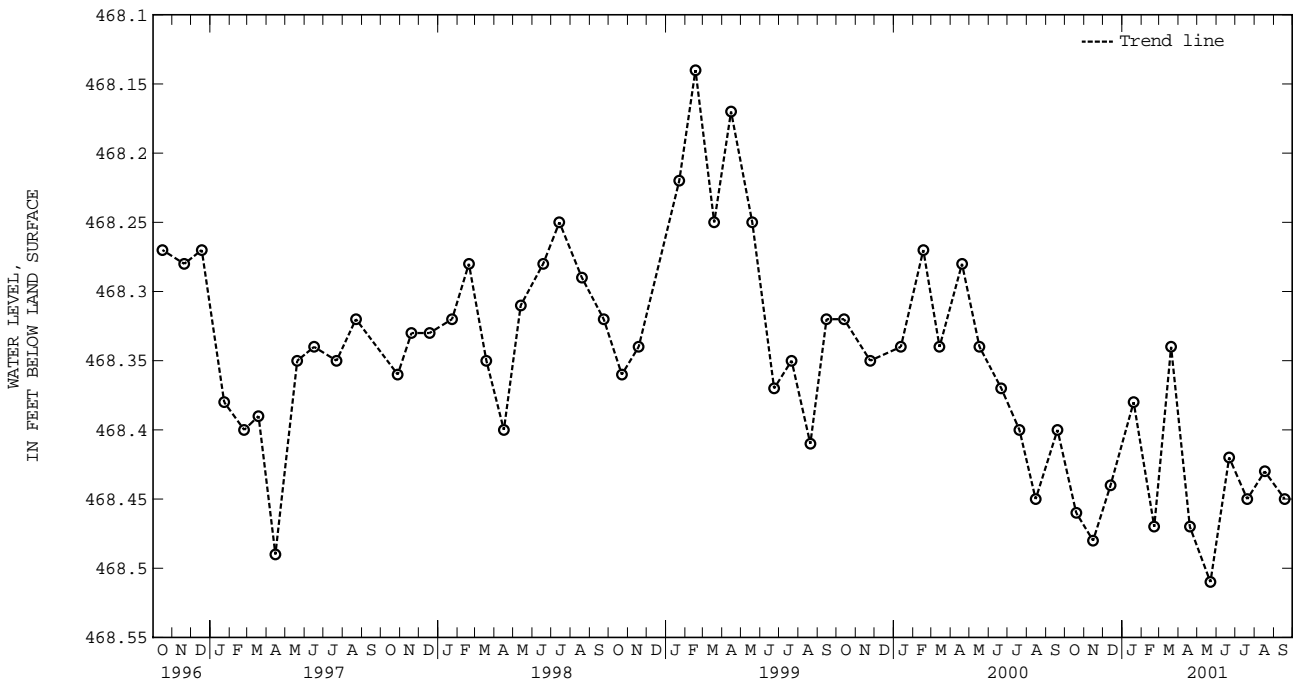
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

PERIOD OF RECORD.--February 1980 to to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.55 ft below land surface, Feb. 27, 1980; lowest measured, 474.80 ft below land surface, July 16, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	468.46	JAN 19, 2001	468.38	APR 19, 2001	468.47	JUL 20, 2001	468.45
NOV 15	468.48	FEB 21	468.47	MAY 22	468.51	AUG 17	468.43
DEC 13	468.44	MAR 20	468.34	JUN 21	468.42	SEP 18	468.45
WATER YEAR 2001 HIGHEST 468.34 MAR 20, 2001		LOWEST 468.51 MAY 22, 2001					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 33. SITE ID.--391539079254603. PERMIT NUMBER.--GA-73-2144.

LOCATION.--Lat 39°15'39", long 79°25'46", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 391 ft; measured depth of 324 ft on Dec. 15, 1995, (see REMARKS); casing diameter 8 in., to 23 ft; casing diameter 4 in., to 318 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital recorder--60-minute recorder interval from July 21, 1980 to Oct. 14, 1982.

DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

Prior to Dec. 15, 1995 the well was undermined and collapsed, the depth of the well is now 324 ft.

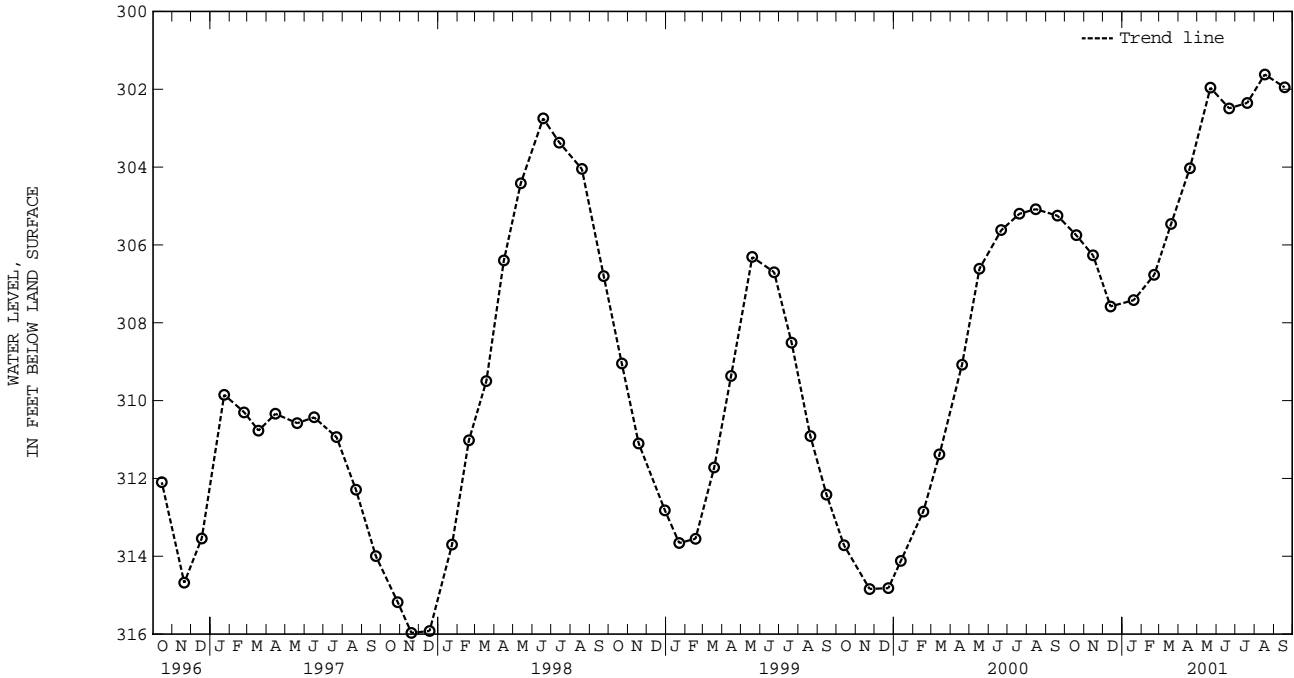
PERIOD OF RECORD.--February 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.31 ft below land surface, Feb. 27, 1978; lowest measured, dry at 324 ft below land surface on Dec. 15, 1995, Jan. 18, and June 13, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	305.75	JAN 19, 2001	307.42	APR 19, 2001	304.03	JUL 20, 2001	302.35
NOV 15	306.27	FEB 21	306.77	MAY 22	301.96	AUG 17	301.62
DEC 13	307.58	MAR 20	305.46	JUN 21	302.49	SEP 18	301.95

WATER YEAR 2001 HIGHEST 301.62 AUG 17, 2001 LOWEST 307.58 DEC 13, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 34. SITE ID.--391539079254604. PERMIT NUMBER.--GA-73-2145.  
 LOCATION.--Lat 39°15'39", long 79°25'46", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.  
 Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 115 ft; casing diameter 8 in., to 23.5 ft; casing diameter 4 in., to 96 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, from July 21, 1980 to Oct 19, 1990.

DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

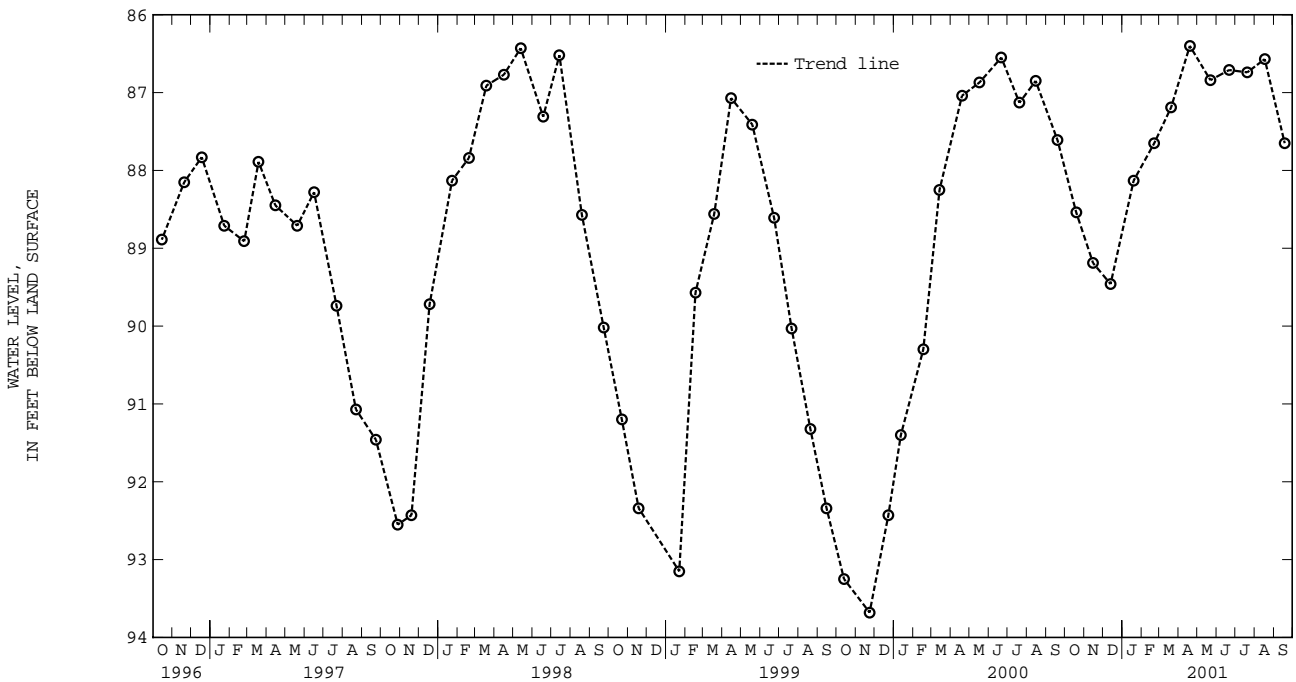
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well.

PERIOD OF RECORD.--February 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.05 ft below land surface, Feb. 26, 1980; lowest measured, 95.25 ft below land surface, Dec. 11, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	88.54	JAN 19, 2001	88.13	APR 19, 2001	86.40	JUL 20, 2001	86.74
NOV 15	89.19	FEB 21	87.65	MAY 22	86.84	AUG 17	86.57
DEC 13	89.46	MAR 20	87.19	JUN 21	86.71	SEP 18	87.65
WATER YEAR 2001 HIGHEST 86.40		APR 19, 2001		LOWEST 89.46		DEC 13, 2000	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 38. SITE ID.--391501079260001. PERMIT NUMBER.--GA-73-2125.

LOCATION.--Lat 39°15'01", long 79°26'00", Hydrologic Unit 02070002, at intersection of Kempton Road, and Dobbin Road, 3.6 mi south of Table Rock.

Owner: Curtis Glotfelty.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, domestic, water-table well, depth 118 ft, casing diameter 6 in., to 39 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,680 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by nearby mining operations.

PERIOD OF RECORD.--February 1988 to current year.

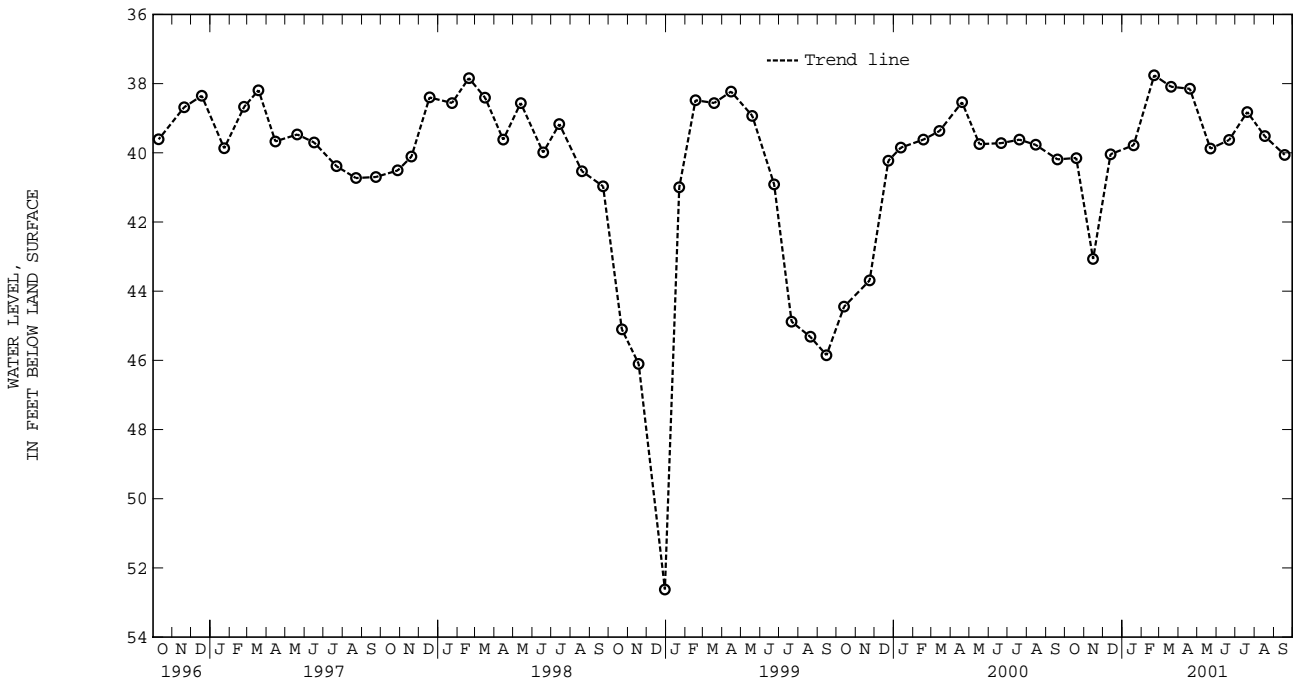
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.46 ft below land surface, March 30, 1993;

lowest measured, 59.72 ft below land surface, Oct. 14, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	40.15	JAN 19, 2001	39.78	APR 19, 2001	38.15	JUL 20, 2001	38.82
NOV 15	43.07	FEB 21	37.76	MAY 22	39.88	AUG 17	39.52
DEC 13	40.04	MAR 20	38.09	JUN 21	39.63	SEP 18	40.06

WATER YEAR 2001 HIGHEST 37.76 FEB 21, 2001 LOWEST 43.07 NOV 15, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 22. SITE ID.--391530079244401. PERMIT NUMBER.--GA-73-2146.

LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Road, 500 ft west of the intersection with Wilson-Coronna Road, 0.4 mi northwest of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Allegheny Formation of Middle Pennsylvanian age. Aquifer code: 324ALGN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 640 ft; casing diameter 4 in., to 517 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, from May 15, 1980 to Oct 1990.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.0 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

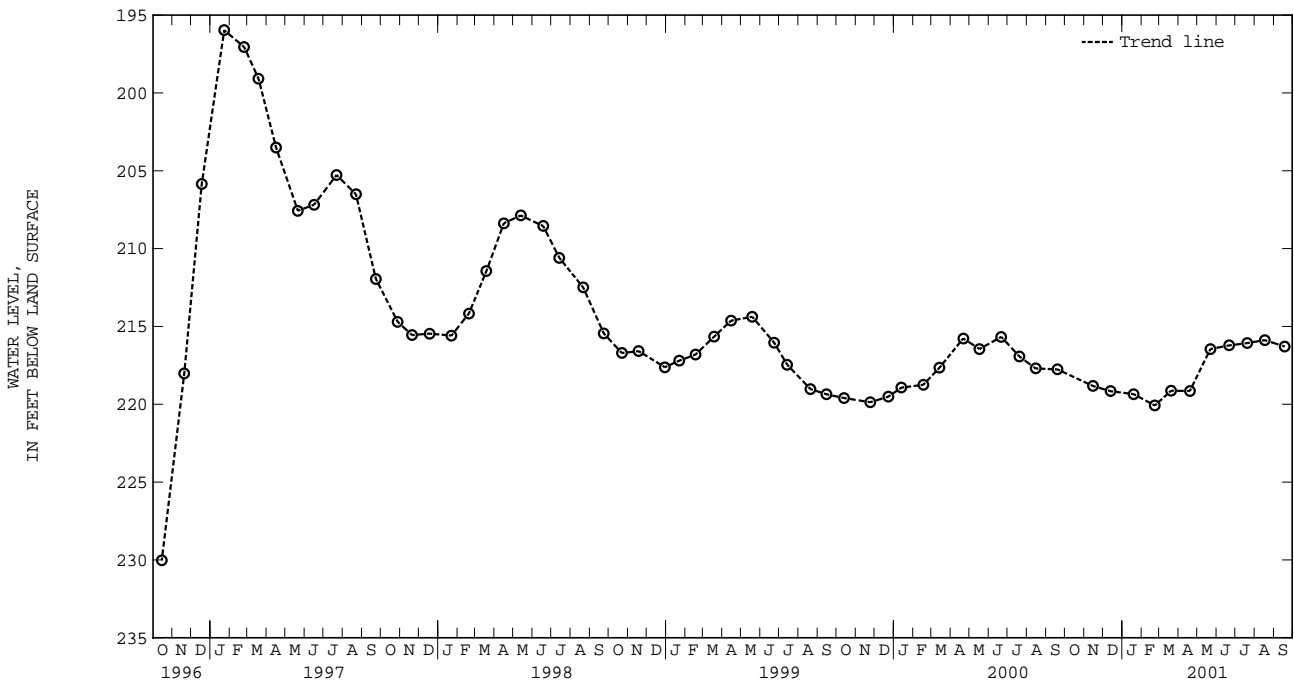
PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.59 ft below land surface, April 8, 1980; lowest measured, 253.17 ft below land surface, Oct. 16. 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 2000	218.83	FEB 22, 2001	220.08	MAY 22, 2001	216.45	AUG 17, 2001	215.88
DEC 13	219.16	MAR 20	219.13	JUN 21	216.22	SEP 18	216.29
JAN 19, 2001	219.35	APR 19	219.15	JUL 20	216.07		

WATER YEAR 2001 HIGHEST 215.88 AUG 17, 2001 LOWEST 220.08 FEB 22, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 24. SITE ID.--391530079244403. PERMIT NUMBER.--GA-73-2177.

LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Road, 500 ft west of the intersection with Wilson-Coronna Road, 0.4 mi northwest of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 400 ft; casing diameter 4 in., to 340 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, from May 15, 1980, to Oct. 19, 1990.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

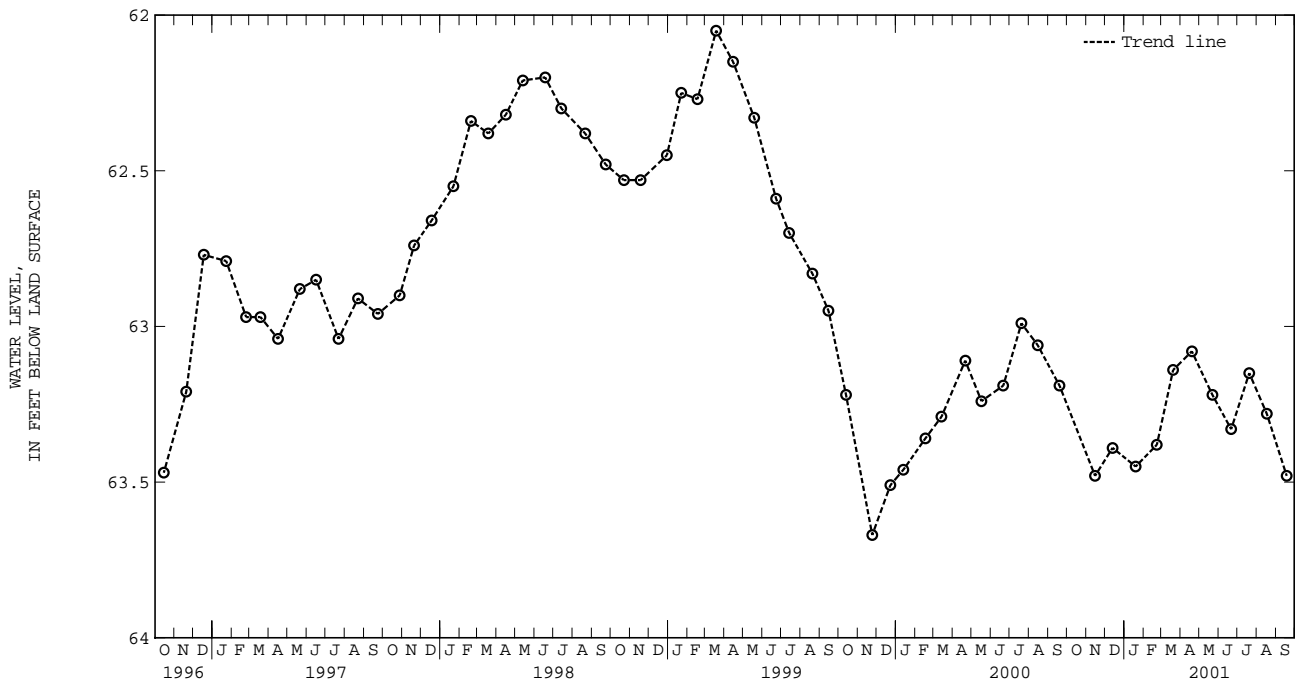
PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.08 ft below land surface, Jan. 12, 1981; lowest measured, 92.29 ft below land surface, April 28, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 2000	63.48	FEB 22, 2001	63.38	MAY 22, 2001	63.22	AUG 17, 2001	63.28
DEC 13	63.39	MAR 20	63.14	JUN 21	63.33	SEP 18	63.48
JAN 19, 2001	63.45	APR 19	63.08	JUL 20	63.15		

WATER YEAR 2001 HIGHEST 63.08 APR 19, 2001 LOWEST 63.48 NOV 15, 2000 SEP 18, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

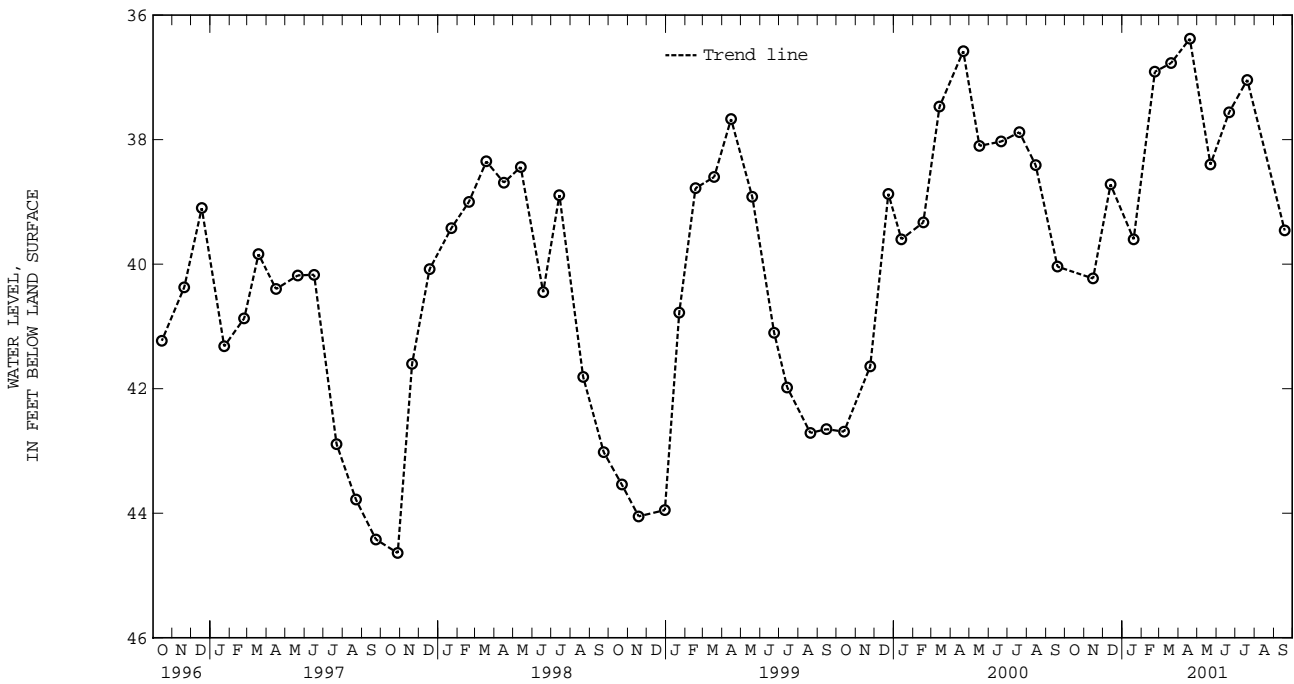
GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 25. SITE ID.--391530079244404. PERMIT NUMBER.--GA-73-2178.  
 LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Road, 500 ft west of the intersection with Wilson-Coronna Road, 0.4 mi northwest of Wilson.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 180 ft; casing diameter 4 in., to 120 ft; open hole INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from June 4, 1980 to Oct. 19,1990.  
 DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.00 ft above land surface.  
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.  
 PERIOD OF RECORD.--April 1980 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.89 ft below land surface, May 11, 1981;  
 lowest measured, 54.18 ft below land surface, May 14, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 2000	40.23	FEB 22, 2001	36.91	MAY 22, 2001	38.40	SEP 18, 2001	39.46
DEC 13	38.72	MAR 20	36.77	JUN 21	37.56		
JAN 19, 2001	39.60	APR 19	36.38	JUL 20	37.04		

WATER YEAR 2001    HIGHEST    36.38    APR 19, 2001    LOWEST    40.23    NOV 15, 2000





GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 27. SITE ID.--391513079243602. PERMIT NUMBER.--GA-73-2182.

LOCATION.--Lat 39°15'13", long 79°24'36", Hydrologic Unit 02070002, 0.6 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321°CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 656 ft; casing diameter 4 in., to 590 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital

water-level recorder--60-minute recorder interval from June 11, 1980, to July 26, 1990.

DATUM.--Elevation of land surface is 2,755 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

PERIOD OF RECORD.--June 1980 to current year.

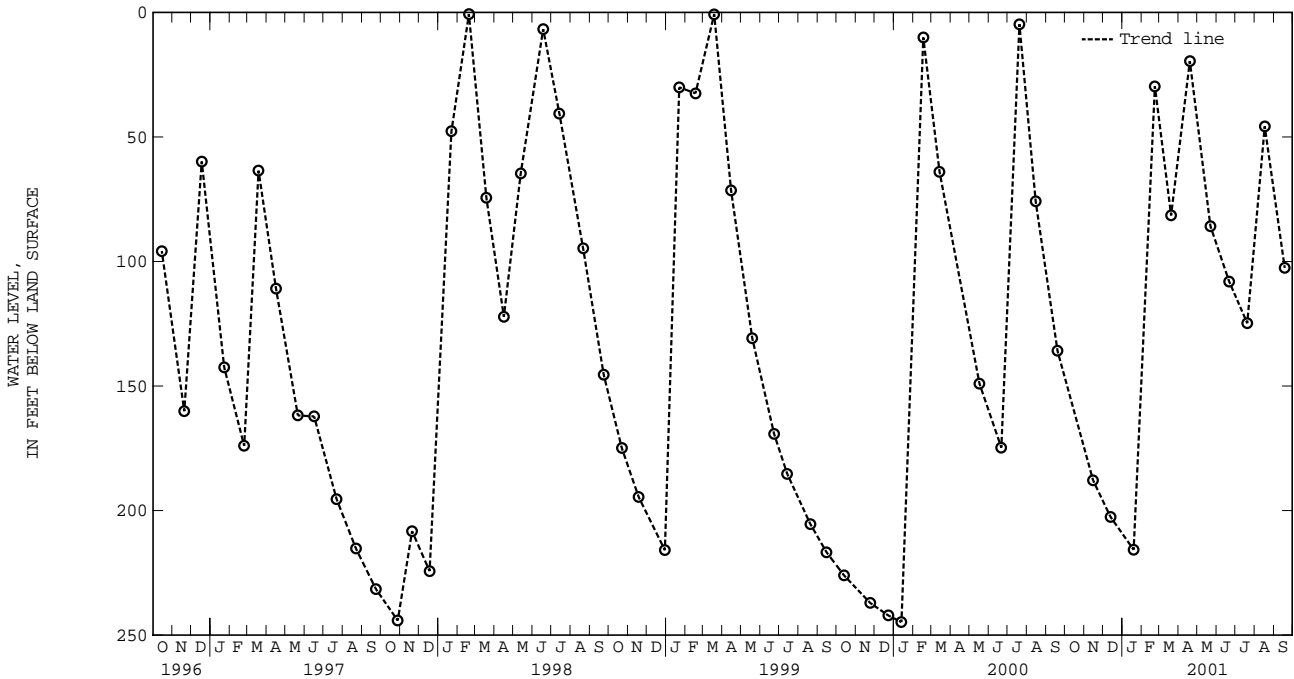
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.27 ft below land surface, Feb. 9, 1994;

lowest measured, 274.12 ft below land surface, Dec. 1, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 2000	187.86	FEB 22, 2001	29.66	MAY 22, 2001	85.85	AUG 17, 2001	45.76
DEC 13	202.57	MAR 20	81.48	JUN 21	108.03	SEP 18	102.56
JAN 19, 2001	215.72	APR 19	19.55	JUL 20	124.78		

WATER YEAR 2001 HIGHEST 19.55 APR 19, 2001 LOWEST 215.72 JAN 19, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 30. SITE ID.--391513079243605. PERMIT NUMBER.--GA-73-2185.

LOCATION.--Lat 39°15'13", long 79°24'36", Hydrologic Unit 02070002, 0.6 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 85 ft; casing diameter 4 in., to 82 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital

water-level recorder--60-minute recorder interval from June 4, 1980 to Oct. 19, 1980.

DATUM.--Elevation of land surface is 2,755 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

PERIOD OF RECORD.--June 1980 to current year.

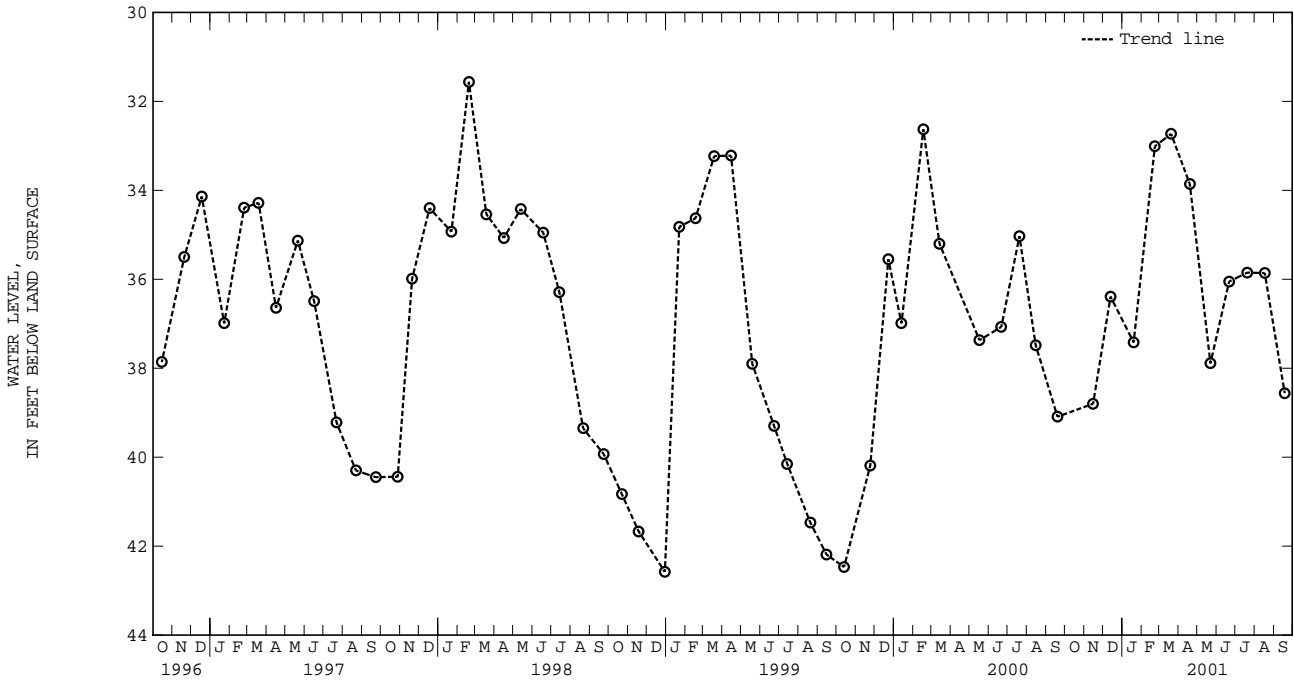
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.58 ft below land surface, April 16, 1981;

lowest measured, 45.00 ft below land surface, Nov. 6, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 2000	38.80	FEB 22, 2001	33.01	MAY 22, 2001	37.89	AUG 17, 2001	35.86
DEC 13	36.39	MAR 20	32.73	JUN 21	36.05	SEP 18	38.56
JAN 19, 2001	37.42	APR 19	33.86	JUL 20	35.85		

WATER YEAR 2001 HIGHEST 32.73 MAR 20, 2001 LOWEST 38.80 NOV 15, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 31. SITE ID.--391602079240301. PERMIT NUMBER.--GA-81-1332.

LOCATION.--Lat 39°16'02", long 79°24'03", Hydrologic Unit 02070002, east side of Wilson-Coronna Rd., 500 ft northeast of intersection with Fairview Rd., 1.0 mile north of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Allegheny Formation of Middle Pennsylvanian age. Aquifer code: 324ALGN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 795 ft; casing diameter 6 in., to 760 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,676.51 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.20 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

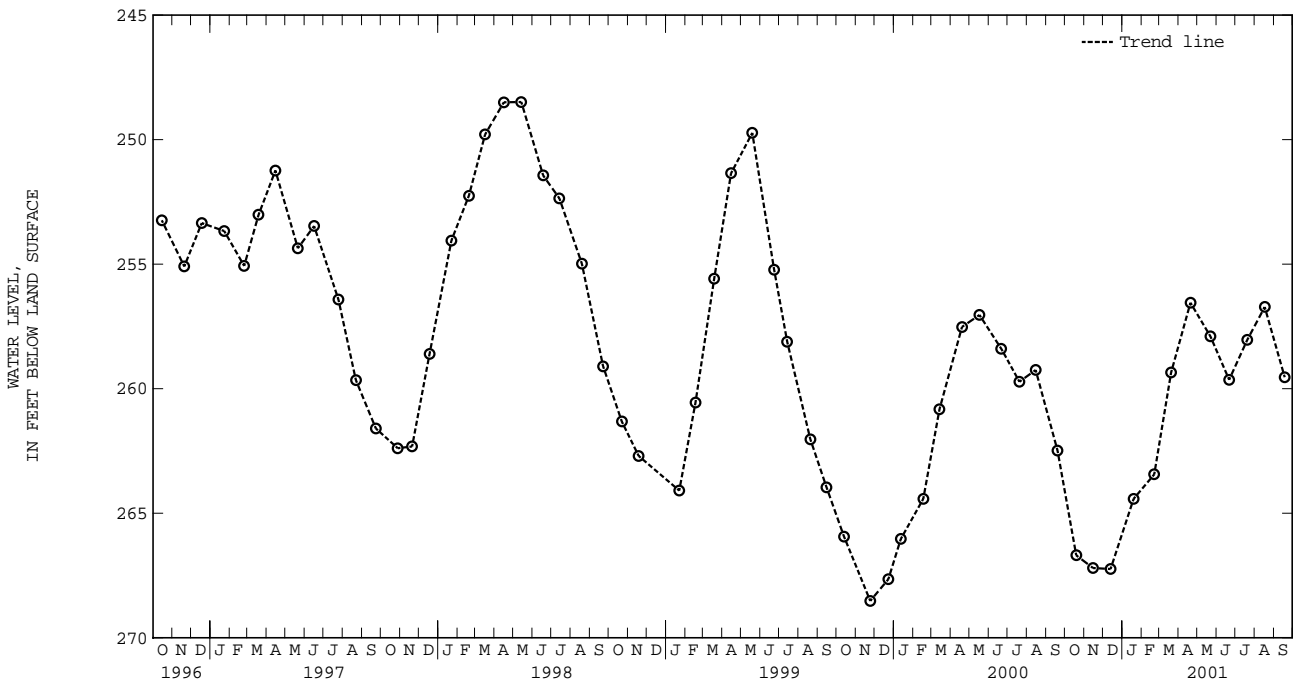
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 215.43 ft below land surface, Feb. 7, 1991; lowest measured, 269.50 ft below land surface, Oct. 7, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	266.69	JAN 19, 2001	264.42	APR 20, 2001	256.55	JUL 20, 2001	258.04
NOV 15	267.20	FEB 21	263.44	MAY 22	257.90	AUG 17	256.72
DEC 13	267.24	MAR 20	259.35	JUN 21	259.64	SEP 18	259.54

WATER YEAR 2001 HIGHEST 256.55 APR 20, 2001 LOWEST 267.24 DEC 13, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 32. SITE ID.--391602079240302. PERMIT NUMBER.--GA-81-1333.

LOCATION.--Lat 39°16'02", long 79°24'03", Hydrologic Unit 02070002, east side of Wilson-Coronna Road, 500 ft northeast of intersection with Fairview Road, 1.0 mile north of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.-- Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 736 ft; casing diameter 6 in., to 736 ft; perforated casing from 720 to 736 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by USGS personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,677.21 ft above sea level.

Measuring Point: Top of casing, 2.20 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

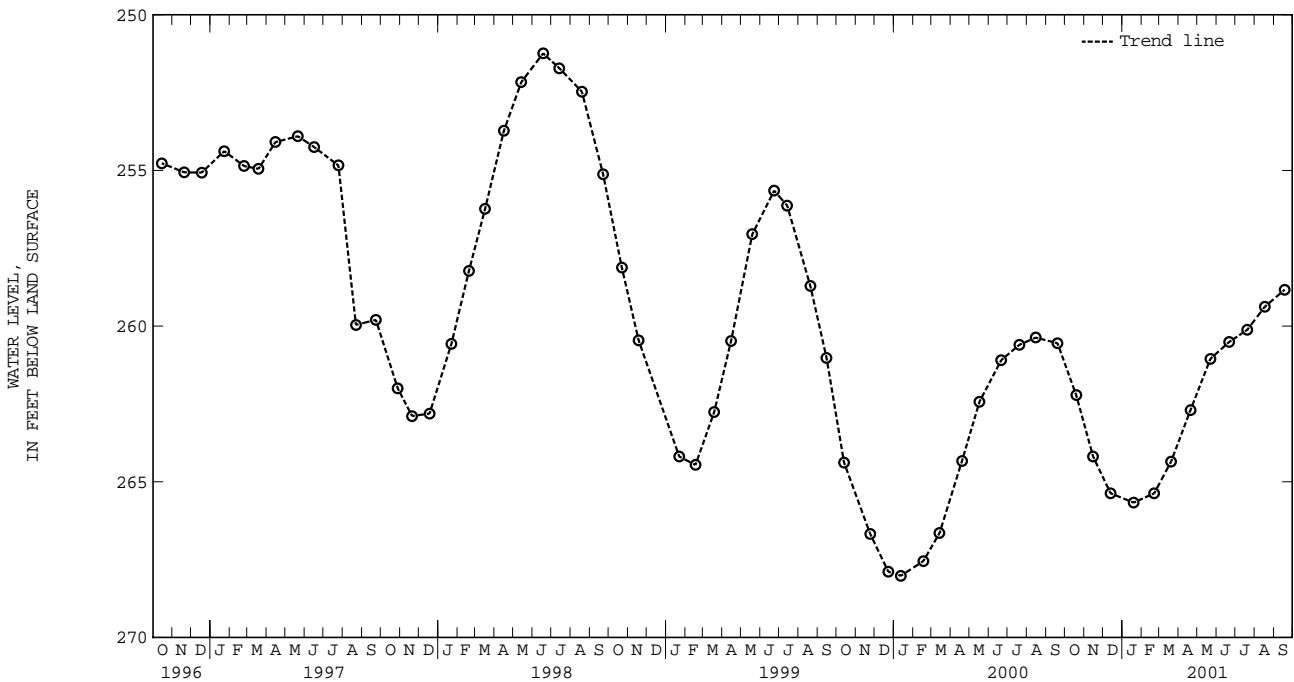
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 206.71 ft below land surface, March 25, 1988; lowest measured, 268.94 ft below land surface, Nov. 4, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	262.22	JAN 19, 2001	265.67	APR 20, 2001	262.70	JUL 20, 2001	260.12
NOV 15	264.19	FEB 21	265.37	MAY 22	261.05	AUG 17	259.38
DEC 13	265.37	MAR 20	264.35	JUN 21	260.51	SEP 18	258.83

WATER YEAR 2001 HIGHEST 258.83 SEP 18, 2001 LOWEST 265.67 JAN 19, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 34. SITE ID.--391602079240304. PERMIT NUMBER.--GA-81-1331.

LOCATION.--Lat 39°16'02", long 79°24'03", Hydrologic Unit 02070002, east side of Wilson-Coronna Road, 500 ft northeast of intersection with Fairview Road, 1.0 mile north of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.-- Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 390 ft; casing diameter 6 in., to 370 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,677 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.20 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

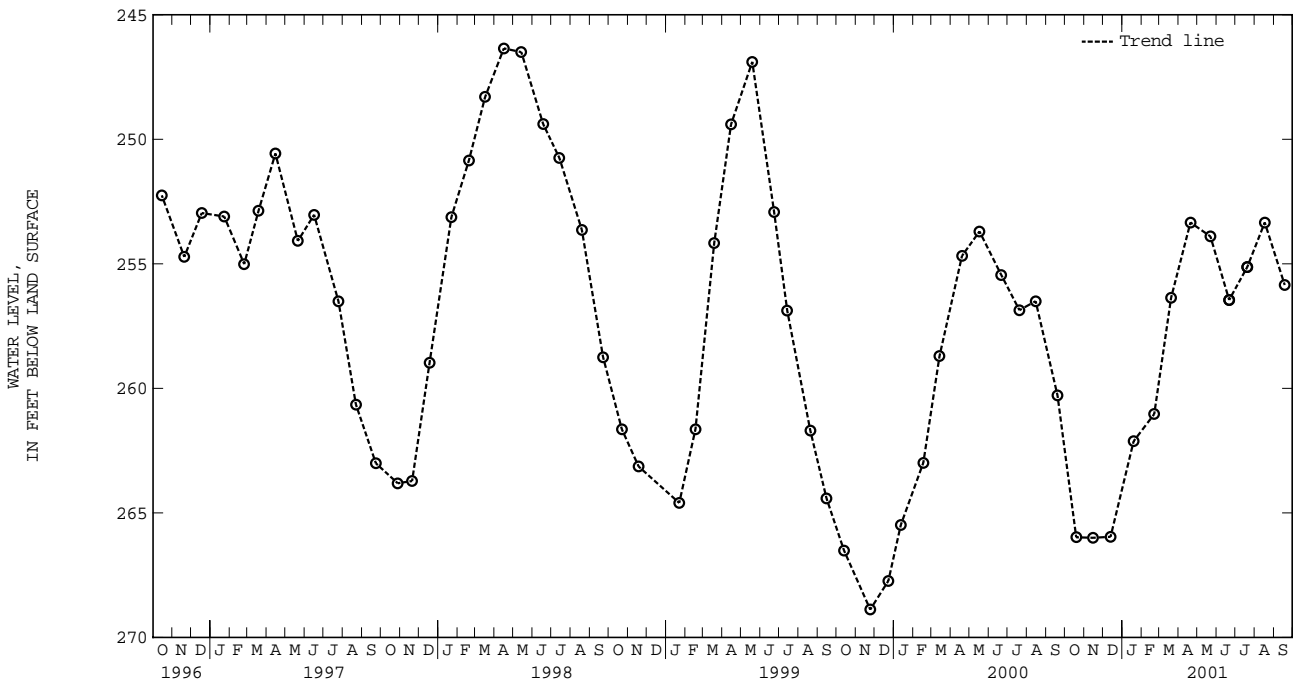
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 202.64 ft below land surface, March 25, 1989; lowest measured, 270.20 ft below land surface, Oct. 7, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	265.98	FEB 21, 2001	261.03	JUN 21, 2001	256.45	AUG 17, 2001	253.34
NOV 15	266.00	MAR 20	256.36	21	256.45	SEP 18	255.85
DEC 13	265.96	APR 20	253.34	JUL 20	255.13		
JAN 19, 2001	262.12	MAY 22	253.90	20	255.13		

WATER YEAR 2001 HIGHEST 253.34 APR 20, 2001 AUG 17, 2001 LOWEST 266.00 NOV 15, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Ga 16. SITE ID.--391420079264901. PERMIT NUMBER.--GA-81-0953.

LOCATION.--Lat 39°14'20", long 79°26'49", Hydrologic Unit 02070002, east of Kempton Road, 100 ft north of Laurel Run, 2.8 mi southwest of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 147 ft; casing diameter 6 in., to 110 ft, open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,690 ft above sea level, from topographic map.

Measuring point: Top of shelter floor, 3.20 ft above land surface.

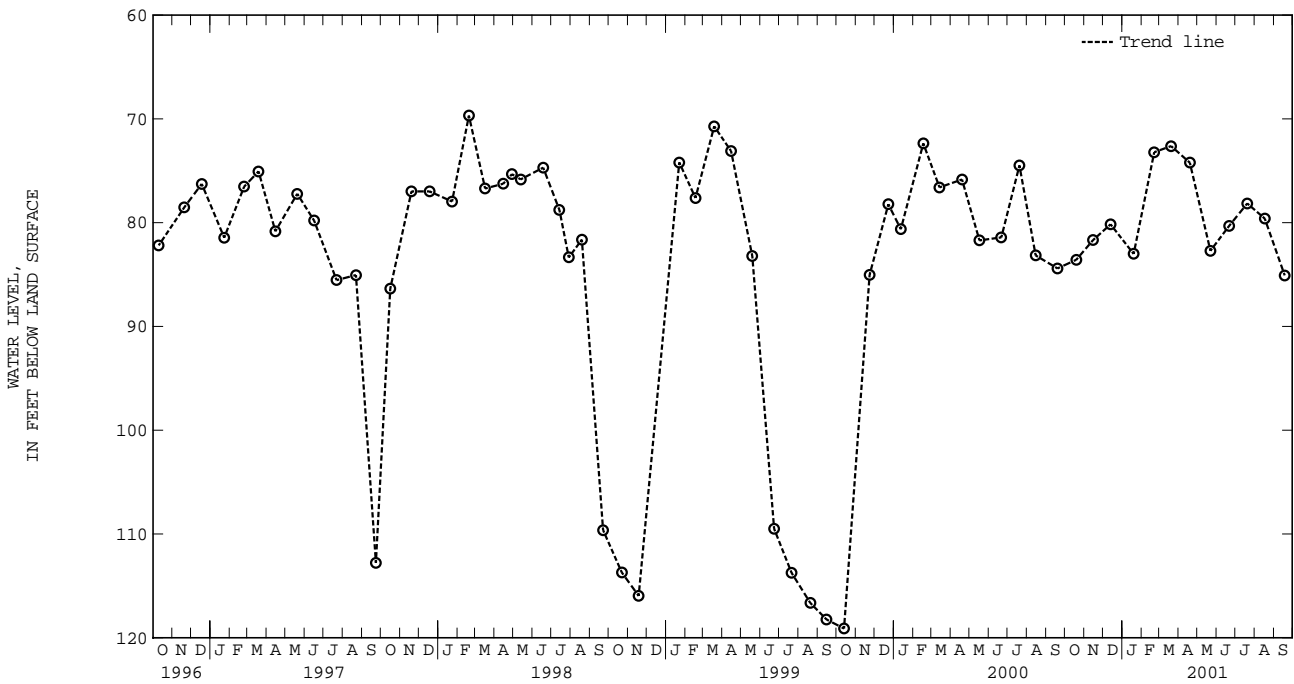
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.69 ft below land surface, Feb. 19, 1998;  
lowest measured, 145.05 ft below land surface, Sept. 22, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	83.58	JAN 19, 2001	83.01	APR 19, 2001	74.22	JUL 20, 2001	78.15
NOV 15	81.68	FEB 21	73.21	MAY 22	82.71	AUG 17	79.60
DEC 13	80.16	MAR 20	72.62	JUN 21	80.31	SEP 18	85.08
WATER YEAR 2001 HIGHEST 72.62		MAR 20, 2001		LOWEST 85.08		SEP 18, 2001	



HARFORD COUNTY

WELL NUMBER.--HA Bd 31. SITE ID.--393902076160001.

LOCATION.--Lat 39°39'02", long 76°16'00", Hydrologic Unit 02050306, at Dublin.

Owner: Walter Lee Moody, Sr.

AQUIFER.--Baltimore Gabbro Complex of Paleozoic age. Aquifer code: 300BLMR.

WELL CHARACTERISTICS.--Dug, stone-lined, water-table well, measured depth 25.9 ft; approximate diameter 36 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from July 9, 1954 to Aug. 5, 1958.

DATUM.--Elevation of land surface is 460 ft above sea level, from topographic map.

Measuring point: Top of wood floor, 0.10 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1954 to current year.

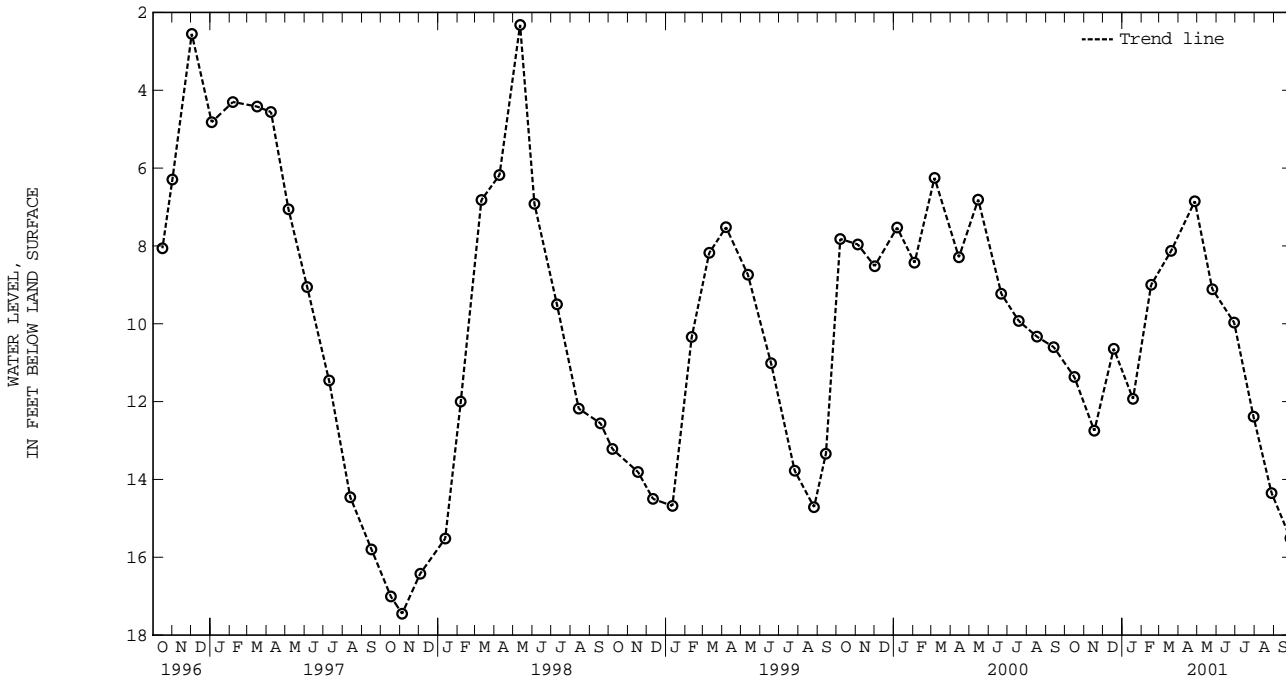
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft below land surface, March 8, 1979;

lowest measured, 19.59 ft below land surface, Feb. 7, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	11.37	JAN 18, 2001	11.93	APR 27, 2001	6.85	JUL 30, 2001	12.39
NOV 17	12.75	FEB 16	9.00	MAY 25	9.11	AUG 28	14.35
DEC 18	10.64	MAR 20	8.13	JUN 29	9.97	SEP 27	15.51

WATER YEAR 2001 HIGHEST 6.85 APR 27, 2001 LOWEST 15.51 SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ca 23. SITE ID.--393158076302601. PERMIT NUMBER.--HA-73-1630.  
 LOCATION.--Lat 39°31'58", long 76°30'26", Hydrologic Unit 02060003, at Gunpowder State Park, Hess.  
 Owner: U.S. Geological Survey.

AQUIFER.--Loch Raven Formation of Cambrian age. Aquifer code: 370LCRV.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 200 ft; casing diameter 6 in., to 24 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from July 10, 1974 to Sept. 13, 1976.

DATUM.--Elevation of land surface is 470 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

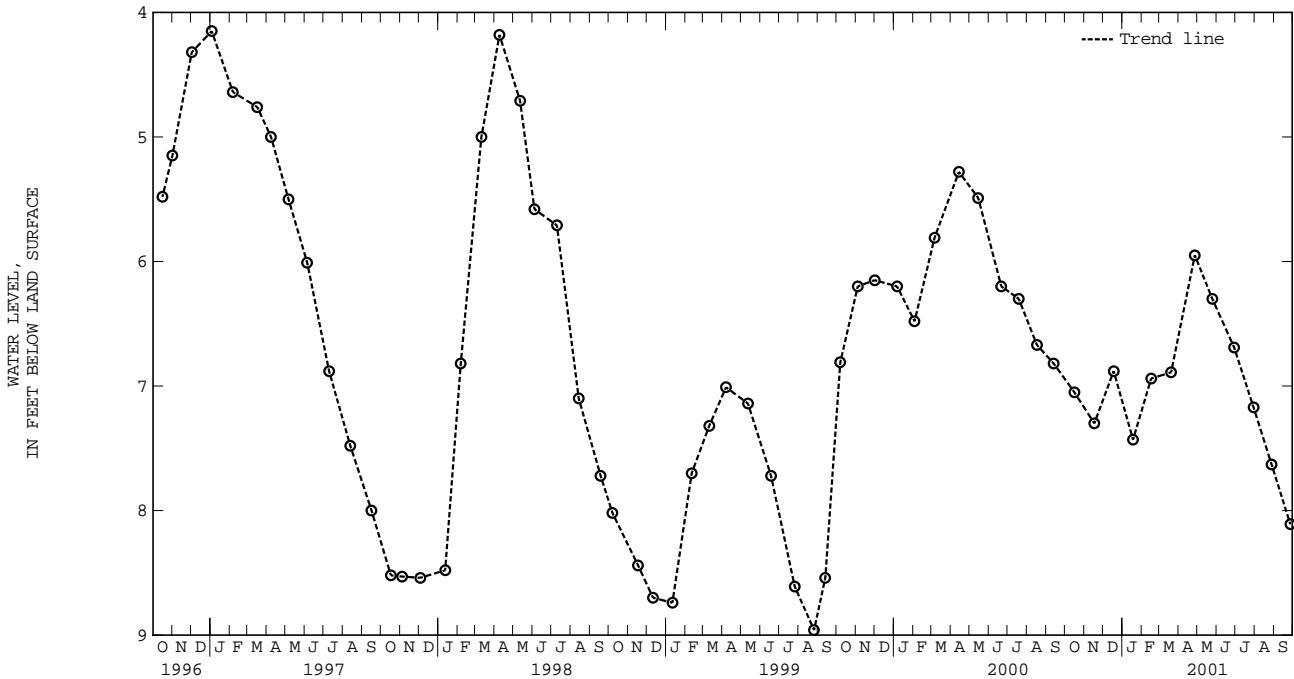
PERIOD OF RECORD.--July 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.59 ft below land surface, Sept. 27, 1975;  
 lowest measured, 9.03 ft below land surface, Dec. 15, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	7.05	JAN 18, 2001	7.43	APR 27, 2001	5.95	JUL 30, 2001	7.17
NOV 17	7.30	FEB 16	6.94	MAY 25	6.30	AUG 28	7.63
DEC 18	6.88	MAR 20	6.89	JUN 29	6.69	SEP 27	8.11

WATER YEAR 2001      HIGHEST    5.95    APR 27, 2001      LOWEST    8.11    SEP 27, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

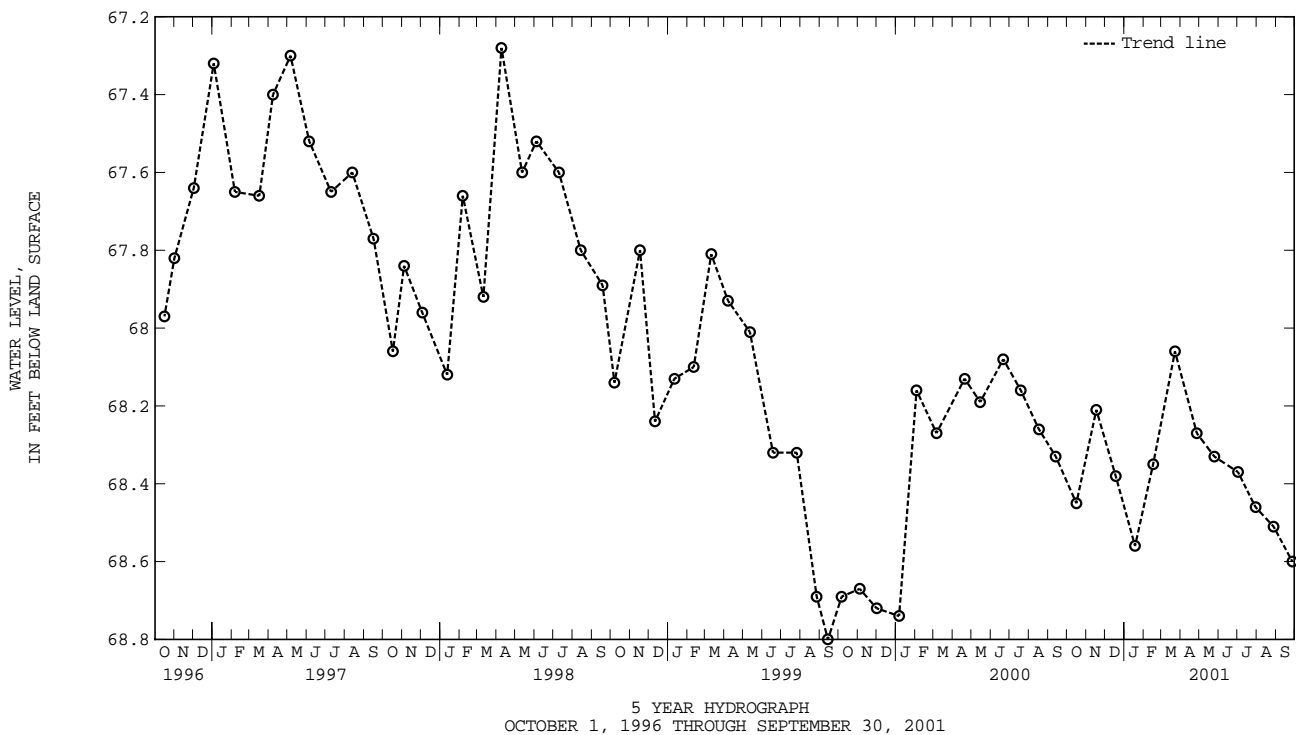


HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 89. SITE ID.--392529076180901. PERMIT NUMBER.--HA-81-4130.  
 LOCATION.--Lat 39°25'29", long 76°18'09", Hydrologic Unit 02060003, at Edgewood Elementary School on Cedar Drive, Edgewood.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 140 ft; casing diameter 4 in., to 96 ft, and 130 to 140 ft; screen diameter 4 in. from 96 to 106 ft, and 120 to 130 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological personnel. Twice yearly measurements with chalked steel tape from October 1990 to January 1996 by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from Jan. 1, 1988 to July 11, 1989.  
 DATUM.--Elevation of land surface is 99.05 ft above sea level.  
 Measuring point: Top of casing, 1.80 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--January 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.28 ft below land surface, April 9, 1998;  
 lowest measured, 69.58 ft below land surface, Feb. 3, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	68.45	JAN 18, 2001	68.56	APR 27, 2001	68.27	JUL 30, 2001	68.46
NOV 17	68.21	FEB 16	68.35	MAY 25	68.33	AUG 28	68.51
DEC 18	68.38	MAR 23	68.06	JUL 02	68.37	SEP 27	68.60
WATER YEAR 2001 HIGHEST 68.06		MAR 23, 2001		LOWEST 68.60		SEP 27, 2001	



GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 91. SITE ID.--392721076150301. PERMIT NUMBER.--HA-81-4136.

LOCATION.--Lat 39°27'21", long 76°15'03", Hydrologic Unit 02060003, at William Longley Park, near intersection of Long Bar Harbor and Longley Roads, Long Bar Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 78 ft; casing diameter 4 in., to 58 ft, and 68 to 78 ft; screen diameter 4 in. from 58 to 68 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 19.73 ft above sea level.  
Measuring Point: Top of casing, 1.90 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

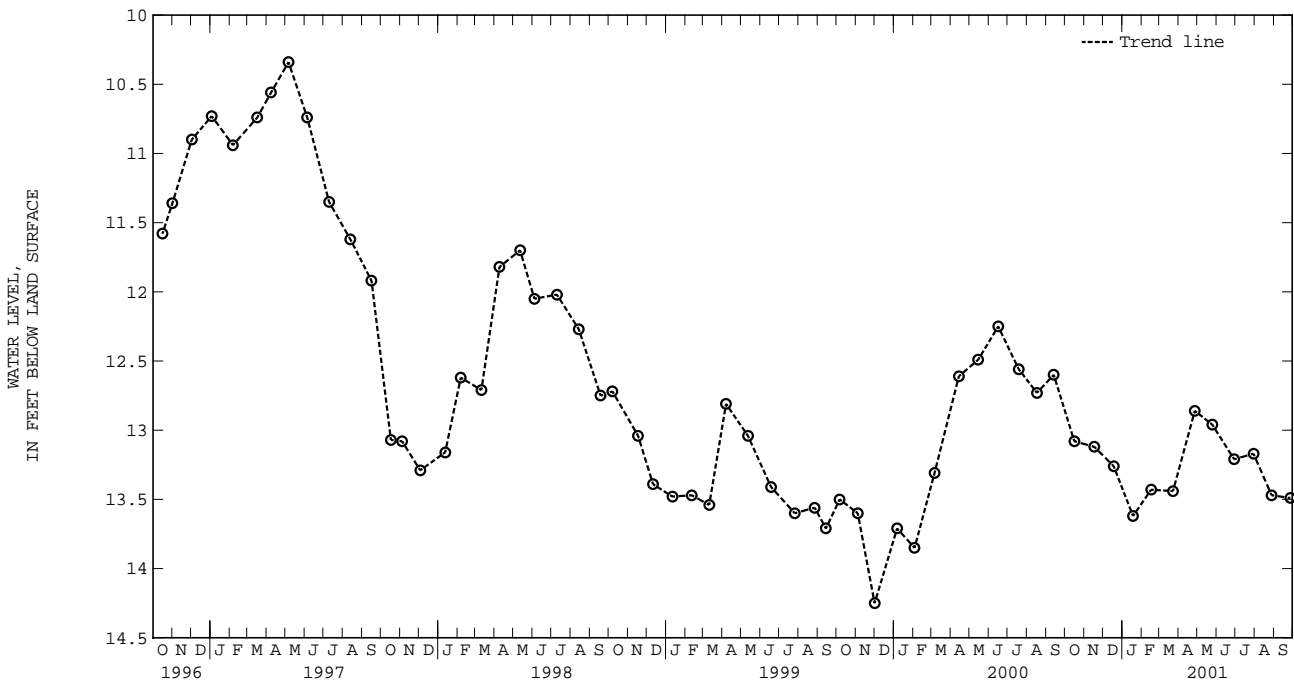
PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.34 ft below land surface, May 6, 1997;  
lowest measured, 14.25 ft below land surface, Dec. 1, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	13.08	JAN 18, 2001	13.62	APR 27, 2001	12.86	JUL 30, 2001	13.17
NOV 17	13.12	FEB 16	13.43	MAY 25	12.96	AUG 28	13.47
DEC 18	13.26	MAR 23	13.44	JUN 29	13.21	SEP 27	13.49

WATER YEAR 2001    HIGHEST 12.86 APR 27, 2001    LOWEST 13.62 JAN 18, 2001



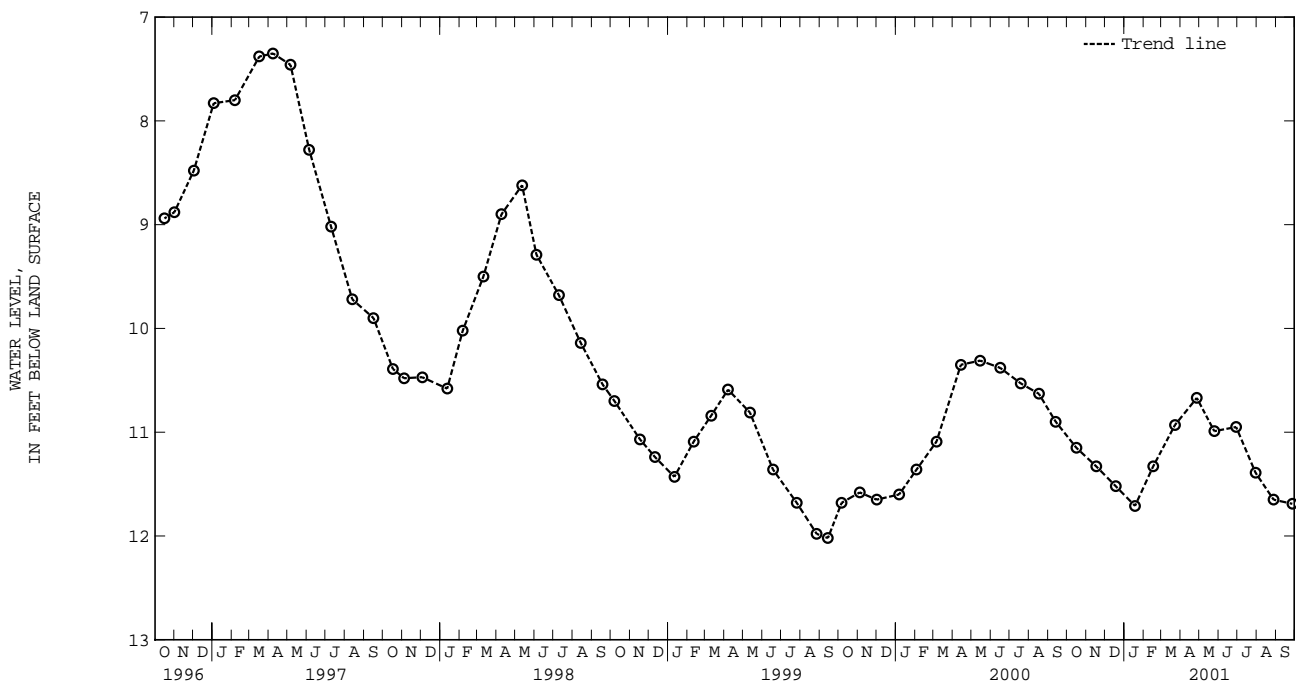
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 92. SITE ID.--392721076150302. PERMIT NUMBER.--HA-81-4137.  
 LOCATION.--Lat 39°27'21", long 76°15'03", Hydrologic Unit 02060003, at William Longley Park, near intersection of Long Bar Harbor and Longley Roads, Long Bar Harbor.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 28 ft; casing diameter 4 in., to 18 ft; screen diameter 4 in. from 18 to 28 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 20.06 ft above sea level.  
 Measuring point: Top of casing, 2.12 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--May 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.35 ft below land surface, April 8, 1997.  
 lowest measured, 12.31 ft below land surface, Jan. 17, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	11.15	JAN 18, 2001	11.71	APR 27, 2001	10.67	JUL 30, 2001	11.39
NOV 17	11.33	FEB 16	11.33	MAY 25	10.99	AUG 28	11.65
DEC 18	11.52	MAR 23	10.93	JUN 29	10.95	SEP 27	11.69
WATER YEAR 2001		HIGHEST	10.67	APR 27, 2001	LOWEST	11.71	JAN 18, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

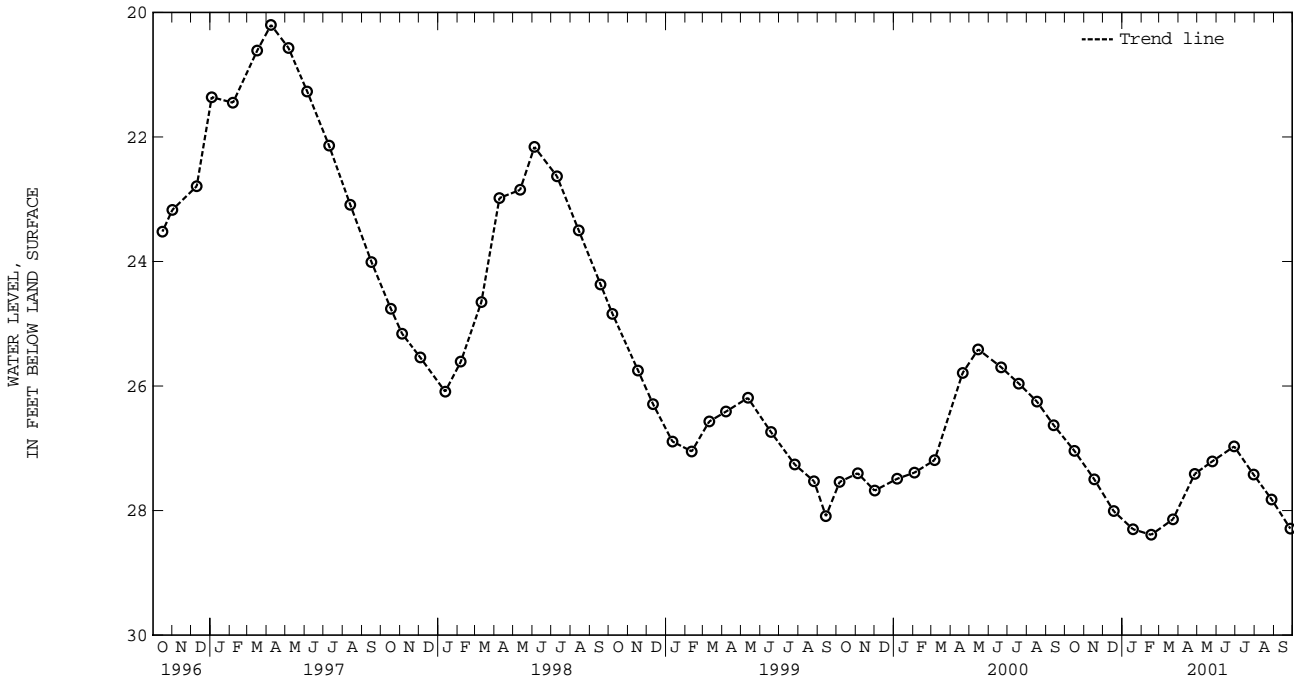
HARFORD COUNTY--Continued

WELL NUMBER.--HA De 66. SITE ID.--392921076100401. PERMIT NUMBER.--HA-69-0394.  
 LOCATION.--Lat 39°29'21", long 76°10'04", Hydrologic Unit 02060003, at Short Lane, near Aberdeen.  
 Owner: Harford County Department of Public Works.  
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 66 ft; casing diameter 4 in., to 45 ft; screen diameter 4 in. from 45 to 66 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 12, 1986 to July 11, 1989.  
 DATUM.--Elevation of land surface is 68.79 ft above sea level.  
 Measuring point: Top of casing, 1.61 ft above land surface.  
 PERIOD OF RECORD.--October 1973 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.31 ft below land surface, July 28, 1975;  
 lowest measured, 29.04 ft below land surface, Jan. 21, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	27.04	JAN 18, 2001	28.30	APR 27, 2001	27.41	JUL 30, 2001	27.42
NOV 17	27.50	FEB 16	28.39	MAY 25	27.21	AUG 28	27.82
DEC 18	28.01	MAR 23	28.14	JUN 29	26.97	SEP 27	28.29

WATER YEAR 2001 HIGHEST 26.97 JUN 29, 2001 LOWEST 28.39 FEB 16, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 181. SITE ID.--392606076145801. PERMIT NUMBER.--HA-81-4134.  
 LOCATION.--Lat 39°26'06", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave., at Willoughby Beach, Crestwood.

Owner: Maryland Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 290 ft; casing diameter 4 in., to 264 ft, 269 to 275 ft, and 280 to 290 ft; screen diameter 4 in. from 264 to 269 ft, and 275 to 280 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 24, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 12.22 ft above sea level.

Measuring point: Top of casing, 2.10 ft above land surface.

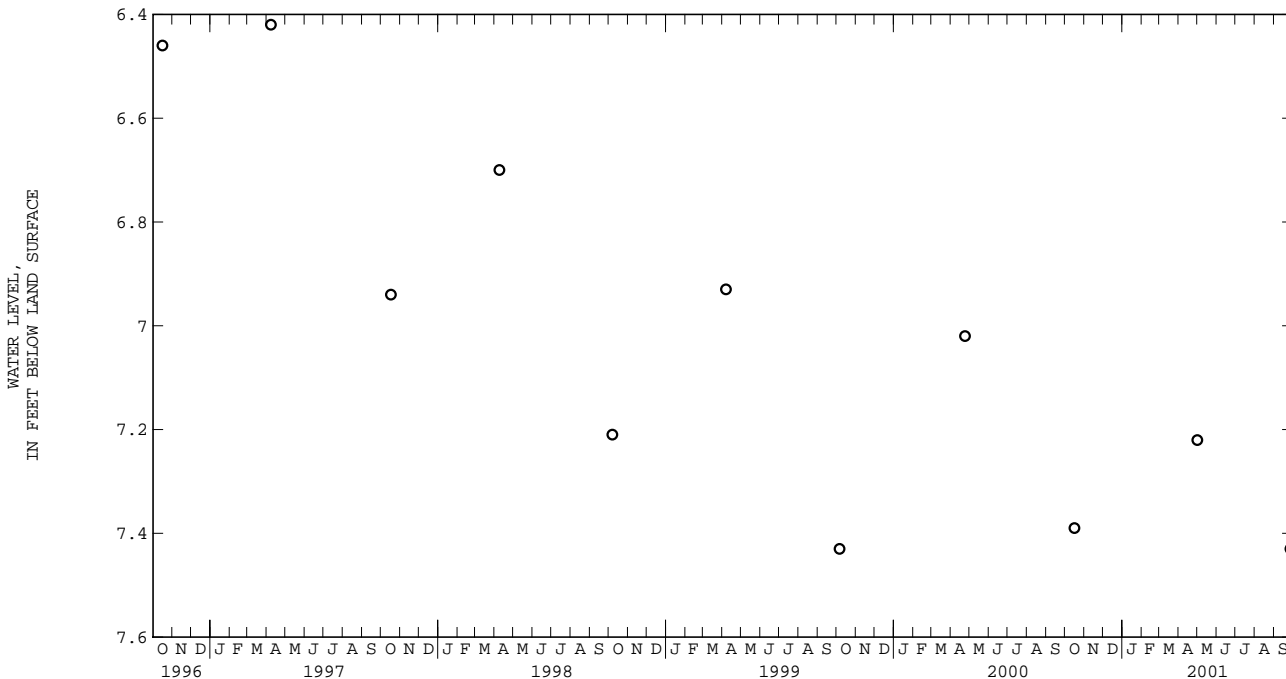
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.42 ft below land surface, April 8, 1997;  
 lowest measured, 7.93 ft below land surface, Dec. 22, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	7.39	MAY 01, 2001	7.22	SEP 27, 2001	7.43
WATER YEAR 2001 HIGHEST		7.22 MAY 01, 2001	LOWEST		7.43 SEP 27, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 182. SITE ID.--392606076145802. PERMIT NUMBER.--HA-81-4135.  
 LOCATION.--Lat 39°26'06", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave., at Willoughby Beach, Crestwood.

Owner: Maryland Geological Survey.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 50 ft; casing diameter 4 in., to 30 ft, and 40 to 50 ft; screen diameter 4 in. from 30 to 40 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from July 21, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 12.29 ft above sea level.

Measuring point: Top of casing, 2.52 ft above land surface.

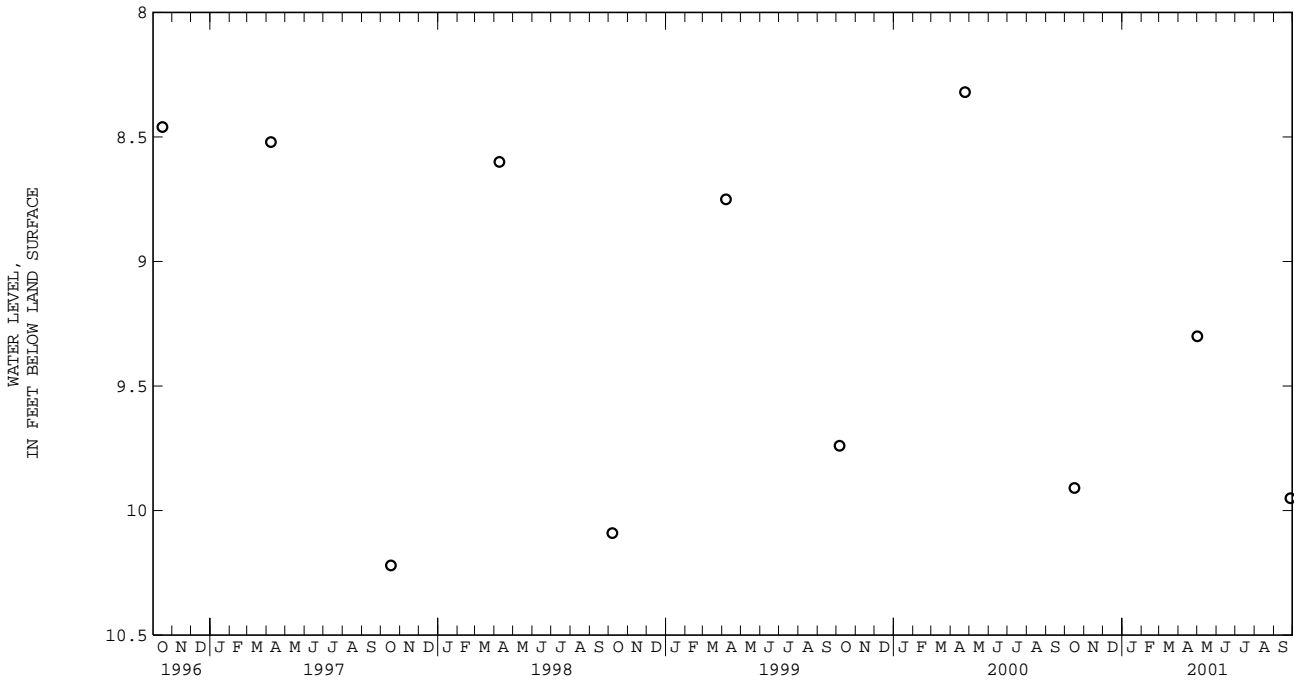
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.12 ft below land surface, June 7, 1989; lowest measured, 11.04 ft below land surface, Oct. 5, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	9.91	MAY 01, 2001	9.30	SEP 27, 2001	9.95
WATER YEAR 2001 HIGHEST		9.30	MAY 01, 2001	LOWEST	
				9.95	SEP 27, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 183. SITE ID.--392606076145803. PERMIT NUMBER.--HA-81-4577.

LOCATION.--Lat 39°26'06", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave., at Willoughby Beach, Crestwood.

Owner: Maryland Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 175 ft; casing diameter 4 in., to 155 ft, and 165 to 175 ft; screen diameter 4 in. from 155 to 165 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 24, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 12.53 ft above sea level.

Measuring point: Top of casing, 2.54 ft above land surface.

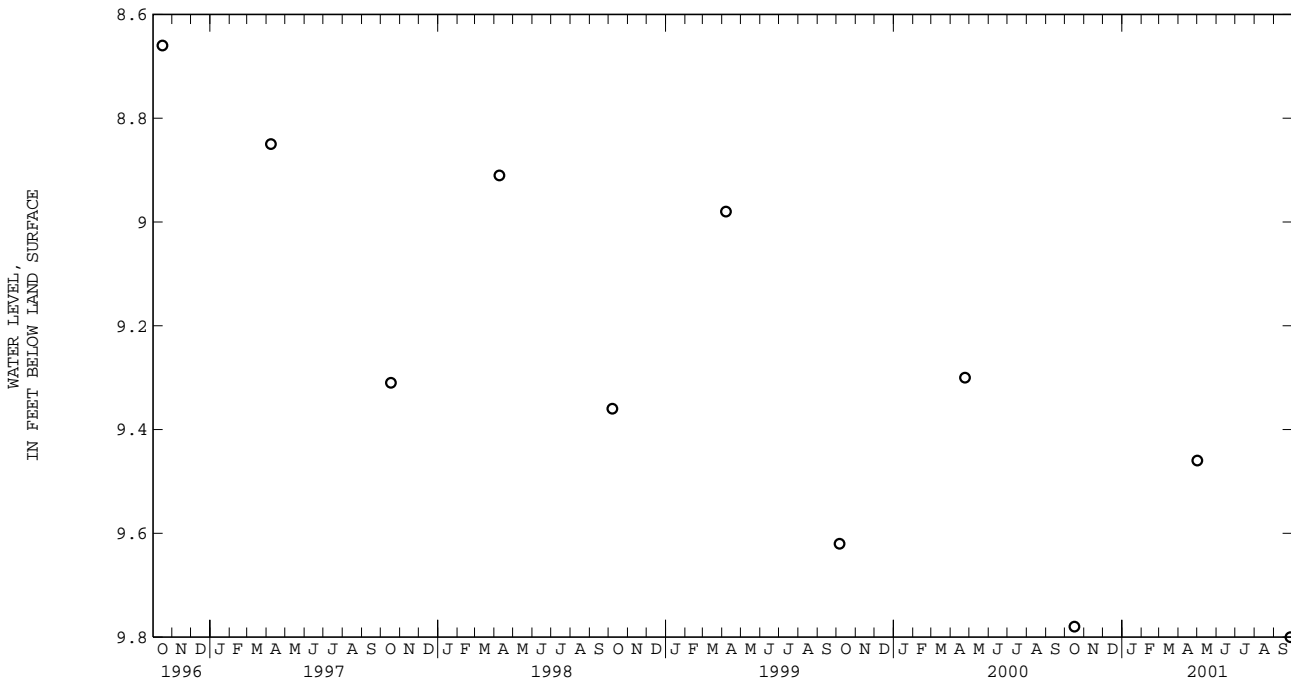
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to July 1989, April 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.66 ft below land surface, Oct. 16, 1996;  
lowest measured, 10.43 ft below land surface, Nov. 3, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	9.78	MAY 01, 2001	9.46	SEP 27, 2001	9.80
WATER YEAR 2001 HIGHEST		9.46 MAY 01, 2001	LOWEST		9.80 SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

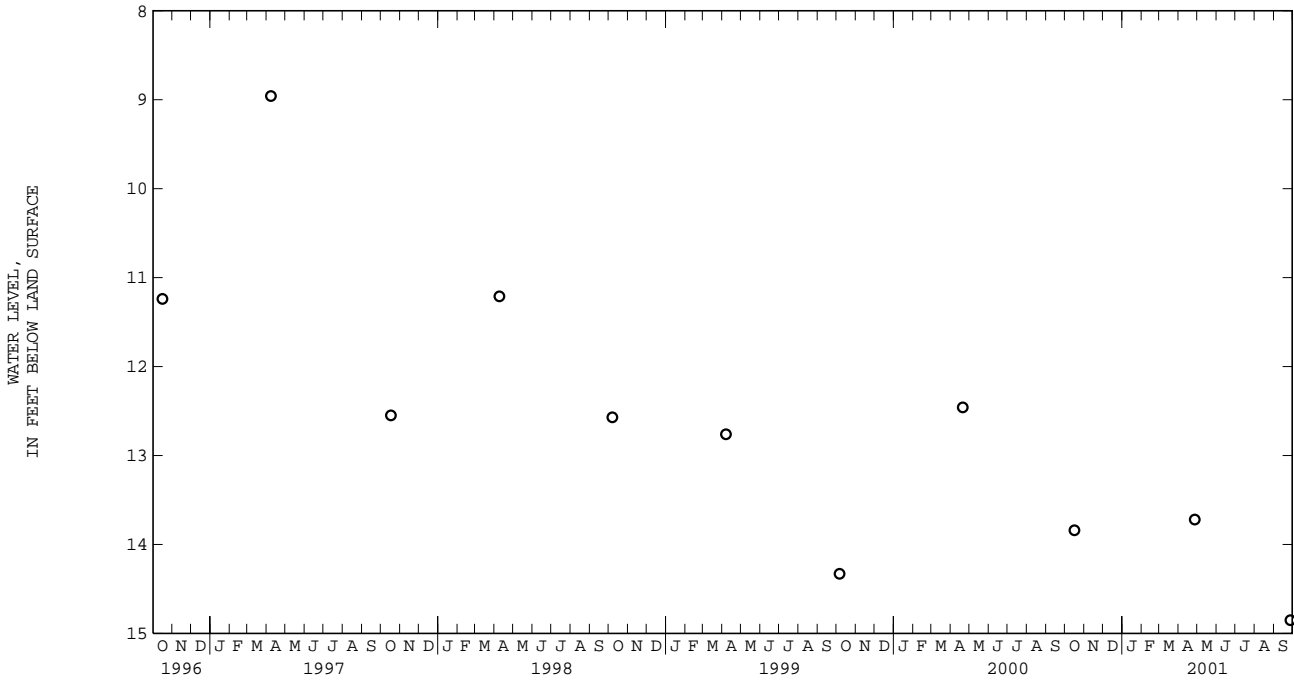
GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 195. SITE ID.--392914076110301. PERMIT NUMBER.--HA-81-4142.  
 LOCATION.--Lat 39°29'14", long 76°11'03", Hydrologic Unit 02060003, 0.2 mi east on Cranberry Run Dr., near Perryman.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TBLT.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 4 in., to 35 ft; and 45 to 55 ft; screen diameter 4 in. from 35 to 45 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from May 1988 to July 1989.  
 DATUM.--Elevation of land surface is 52.70 ft above sea level.  
 Measuring point: Top of steel casing, 1.53 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--May 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft below land surface, April 8, 1997;  
 lowest measured, 14.85 ft below land surface, Sept. 27, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	13.84	APR 27, 2001	13.72	SEP 27, 2001	14.85
WATER YEAR 2001 HIGHEST		13.72 APR 27, 2001	LOWEST		14.85 SEP 27, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## HARFORD COUNTY--Continued

WELL NUMBER.--HA De 198. SITE ID.--392819076130902. PERMIT NUMBER.--HA-81-4141.

LOCATION.--Lat 39°28'19", long 76°13'09", Hydrologic Unit 02060003, northwest end of Fords Lane, Perryman.

Owner: Kelly and George Hallgren. (formerly Maryland Geological Survey).

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 4 in., to 9 ft; screen diameter 4 in. from 9 to 19 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from January 18, 1989 to July 10, 1989 and from Jan. 4, 1991 to current year. Measured monthly from July 1988 to January 1989.

DATUM.--Elevation of land surface is 18.92 ft above sea level.

Measuring Point: Top of casing, 1.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to August 1989, July 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.57 ft above sea level, Sept. 16, 1999; lowest measured, 8.82 ft above sea level, Nov. 2, 3, 1992.

## WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.34	11.28	10.44	10.43	10.06	10.05	10.21	10.18	10.86	10.79	11.33	11.30
2	11.28	11.22	10.43	10.41	10.05	10.03	10.18	10.15	10.89	10.76	11.31	11.23
3	11.22	11.12	10.41	10.40	10.03	10.02	10.18	10.15	10.77	10.73	11.23	11.15
4	11.12	11.07	10.40	10.40	10.03	10.02	10.18	10.16	10.79	10.74	11.37	11.14
5	11.07	11.04	10.40	10.36	10.05	10.01	10.22	10.16	11.61	10.78	11.62	11.37
6	11.04	10.96	10.36	10.35	10.02	10.00	10.19	10.12	11.22	11.07	11.61	11.43
7	10.96	10.92	10.35	10.34	10.02	10.00	10.12	10.11	11.07	11.01	11.43	11.35
8	10.92	10.89	10.34	10.34	10.00	9.97	10.12	10.10	11.08	10.99	11.40	11.35
9	10.89	10.88	10.35	10.34	9.97	9.95	10.10	10.07	11.17	11.08	11.42	11.35
10	10.88	10.85	10.37	10.32	9.96	9.95	10.07	10.04	11.17	10.93	11.35	11.30
11	10.85	10.80	10.32	10.29	9.99	9.95	10.05	10.04	10.93	10.90	11.34	11.25
12	10.80	10.78	10.29	10.28	10.01	9.91	10.04	10.03	10.99	10.91	11.39	11.22
13	10.78	10.76	10.28	10.28	9.94	9.90	10.04	10.03	10.99	10.96	11.66	11.39
14	10.76	10.75	10.28	10.28	10.12	9.94	10.05	10.03	11.06	10.97	11.57	11.44
15	10.75	10.72	10.28	10.24	10.18	10.12	10.08	10.05	11.07	10.93	11.50	11.44
16	10.72	10.68	10.25	10.24	10.40	10.18	10.08	10.06	11.33	10.93	11.56	11.48
17	10.68	10.67	10.25	10.20	13.34	10.40	10.06	10.05	11.51	11.23	11.54	11.46
18	10.68	10.67	10.20	10.19	10.78	10.58	10.07	10.05	11.24	11.20	11.46	11.36
19	10.67	10.63	10.20	10.18	10.63	10.60	11.01	10.07	11.25	11.19	11.39	11.36
20	10.63	10.61	10.20	10.17	10.62	10.46	11.15	10.91	11.23	11.20	11.40	11.35
21	10.61	10.60	10.17	10.16	10.50	10.46	11.07	10.74	11.22	11.05	12.98	11.40
22	10.60	10.55	10.16	10.14	10.51	10.42	10.74	10.63	11.15	11.05	12.30	11.93
23	10.55	10.54	10.14	10.12	10.42	10.40	10.75	10.72	11.15	11.03	11.93	11.78
24	10.55	10.54	10.12	10.10	10.45	10.40	10.74	10.68	11.04	10.97	11.83	11.67
25	10.55	10.54	10.13	10.10	10.40	10.34	10.68	10.58	11.32	11.04	11.73	11.66
26	10.54	10.52	10.18	10.13	10.37	10.34	10.66	10.57	11.33	11.26	11.70	11.61
27	10.53	10.52	10.16	10.12	10.39	10.37	10.67	10.56	11.37	11.31	11.62	11.58
28	10.53	10.47	10.12	10.09	10.38	10.33	10.57	10.55	11.34	11.31	11.62	11.58
29	10.48	10.47	10.10	10.08	10.33	10.31	10.62	10.56	---	---	12.22	11.58
30	10.47	10.45	10.10	10.06	10.33	10.30	11.57	10.62	---	---	13.30	12.22
31	10.45	10.44	---	---	10.30	10.21	11.12	10.86	---	---	12.49	12.42
MONTH	11.34	10.44	10.44	10.06	13.34	9.90	11.57	10.03	11.61	10.73	13.30	11.14

GROUND-WATER LEVELS IN MARYLAND--Continued

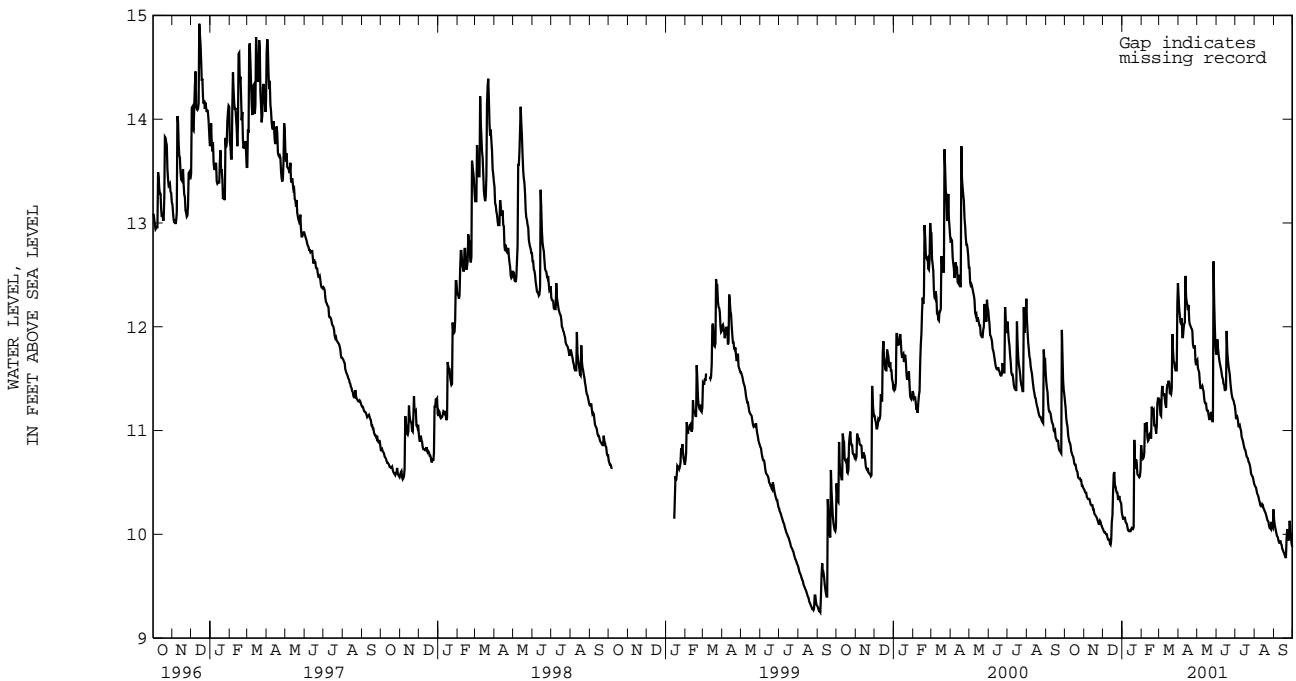
HARFORD COUNTY--Continued

HA De 198--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.42	12.29	11.72	11.68	11.88	11.74	11.24	11.19	10.49	10.47	10.24	10.14
2	12.29	12.17	11.68	11.60	12.01	11.88	11.19	11.12	10.47	10.46	10.14	10.09
3	12.22	12.11	11.60	11.58	12.00	11.80	11.14	11.12	10.46	10.45	10.09	10.06
4	12.11	12.04	11.60	11.56	11.80	11.74	11.14	11.13	10.45	10.42	10.06	10.03
5	12.11	12.03	11.58	11.47	11.74	11.69	11.14	11.10	10.42	10.39	10.03	10.00
6	12.17	12.08	11.47	11.41	11.69	11.65	11.10	11.04	10.39	10.38	10.00	9.98
7	12.10	11.90	11.44	11.41	11.66	11.62	11.06	11.04	10.38	10.36	9.98	9.97
8	12.03	11.90	11.46	11.42	11.62	11.59	11.06	11.05	10.36	10.33	9.97	9.94
9	12.06	11.98	11.45	11.43	11.59	11.55	11.05	11.02	10.33	10.31	9.94	9.92
10	12.08	12.03	11.43	11.40	11.55	11.51	11.02	11.00	10.31	10.28	9.95	9.92
11	12.49	12.04	11.40	11.38	11.53	11.50	11.00	10.94	10.29	10.27	9.96	9.94
12	12.55	12.49	11.38	11.31	11.50	11.45	10.94	10.92	10.29	10.27	9.94	9.91
13	12.51	12.29	11.31	11.27	11.48	11.44	10.92	10.90	10.32	10.29	9.91	9.90
14	12.29	12.24	11.28	11.26	11.44	11.39	10.90	10.87	10.32	10.28	9.90	9.86
15	12.28	12.21	11.31	11.26	11.41	11.39	10.87	10.84	10.28	10.25	9.86	9.85
16	12.27	12.16	11.26	11.20	12.08	11.40	10.84	10.82	10.25	10.24	9.85	9.83
17	12.27	12.21	11.21	11.19	12.16	11.96	10.82	10.81	10.24	10.22	9.83	9.82
18	12.24	12.06	11.20	11.19	11.96	11.76	10.81	10.78	10.22	10.21	9.82	9.80
19	12.08	12.02	11.20	11.15	11.76	11.68	10.78	10.75	10.21	10.19	9.80	9.78
20	12.07	12.01	11.15	11.11	11.68	11.62	10.75	10.74	10.19	10.17	9.96	9.78
21	12.04	11.99	11.14	11.11	11.62	11.58	10.74	10.73	10.17	10.14	10.15	9.96
22	12.01	11.98	11.18	11.14	11.58	11.54	10.73	10.70	10.14	10.13	10.15	10.05
23	12.02	11.96	11.27	11.18	11.54	11.46	10.70	10.69	10.13	10.12	10.05	9.96
24	12.02	11.83	11.22	11.12	11.46	11.40	10.69	10.67	10.12	10.08	9.98	9.94
25	11.84	11.80	11.12	11.09	11.40	11.35	10.67	10.64	10.08	10.06	10.18	9.98
26	11.85	11.80	13.95	11.09	11.35	11.32	10.64	10.59	10.06	10.06	10.18	10.13
27	11.88	11.82	14.66	12.63	11.32	11.30	10.59	10.57	10.12	10.05	10.13	10.04
28	11.82	11.67	12.81	12.24	11.31	11.29	10.57	10.56	10.18	10.12	10.04	9.97
29	11.69	11.63	12.24	12.01	11.29	11.26	10.57	10.55	10.13	10.07	9.97	9.91
30	11.73	11.67	12.01	11.82	11.26	11.24	10.55	10.52	10.28	10.06	9.91	9.88
31	---	---	11.82	11.74	---	---	10.52	10.49	10.30	10.24	---	---
MONTH	12.55	11.63	14.66	11.09	12.16	11.24	11.24	10.49	10.49	10.05	10.24	9.78
YEAR	14.66	9.78										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

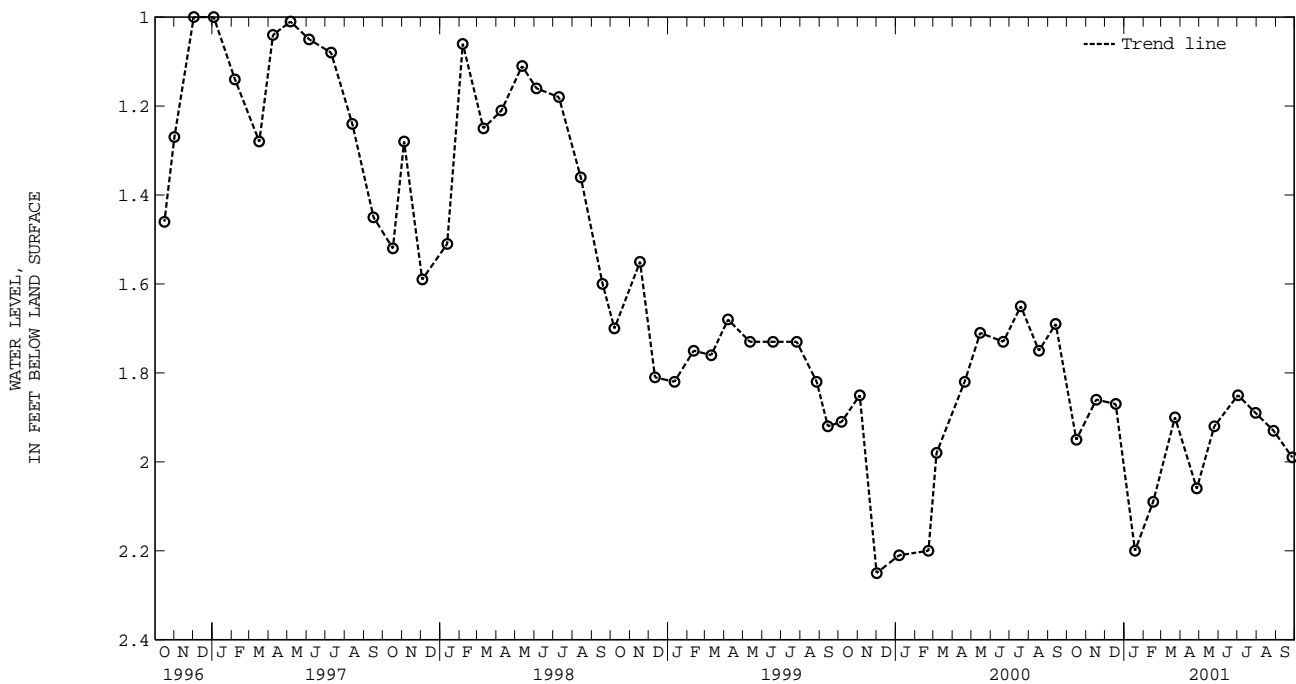
HARFORD COUNTY--Continued

WELL NUMBER.--HA Ec 11. SITE ID.--392435076203301. PERMIT NUMBER.--HA-04-7211.  
 LOCATION.--Lat 39°24'35", long 76°20'33", Hydrologic Unit 02060003, off Trimble Road, Joppatowne.  
 Owner: Harford County Department of Public Works.  
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 68 ft; diameter of casing 6 in., to 63 ft; screen diameter 2 in. from 63 to 68 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from May 23, 1962 to Dec. 17, 1983.  
 DATUM.--Elevation of land surface is 11.7 ft above sea level.  
 Measuring point: Top of casing, 3.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--May 1962 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.13 ft below land surface, May 24, 1962; lowest measured, 12.80 ft below land surface, May 26, 1972.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	1.95	JAN 18, 2001	2.20	APR 27, 2001	2.06	JUL 30, 2001	1.89
NOV 17	1.86	FEB 16	2.09	MAY 25	1.92	AUG 28	1.93
DEC 18	1.87	MAR 23	1.90	JUL 02	1.85	SEP 27	1.99

WATER YEAR 2001    HIGHEST    1.85    JUL 02, 2001    LOWEST    2.20    JAN 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ec 46. SITE ID.--392408076210101. PERMIT NUMBER.--HA-81-4124.

LOCATION.--Lat 39°24'08", long 76°21'01", Hydrologic Unit 02060003, at end of Kearney Dr. Coppenhaven Park, near Joppatowne.

Owner: Maryland Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 85 ft; diameter of casing 4 in., to 65 ft, and 75 to 85 ft; screen diameter 4 in. from 65 to 75 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from October 1989 to October 1995.

DATUM.--Elevation of land surface is 23.16 ft above sea level.

Measuring point: Top of PVC casing, 2.17 ft above land surface.

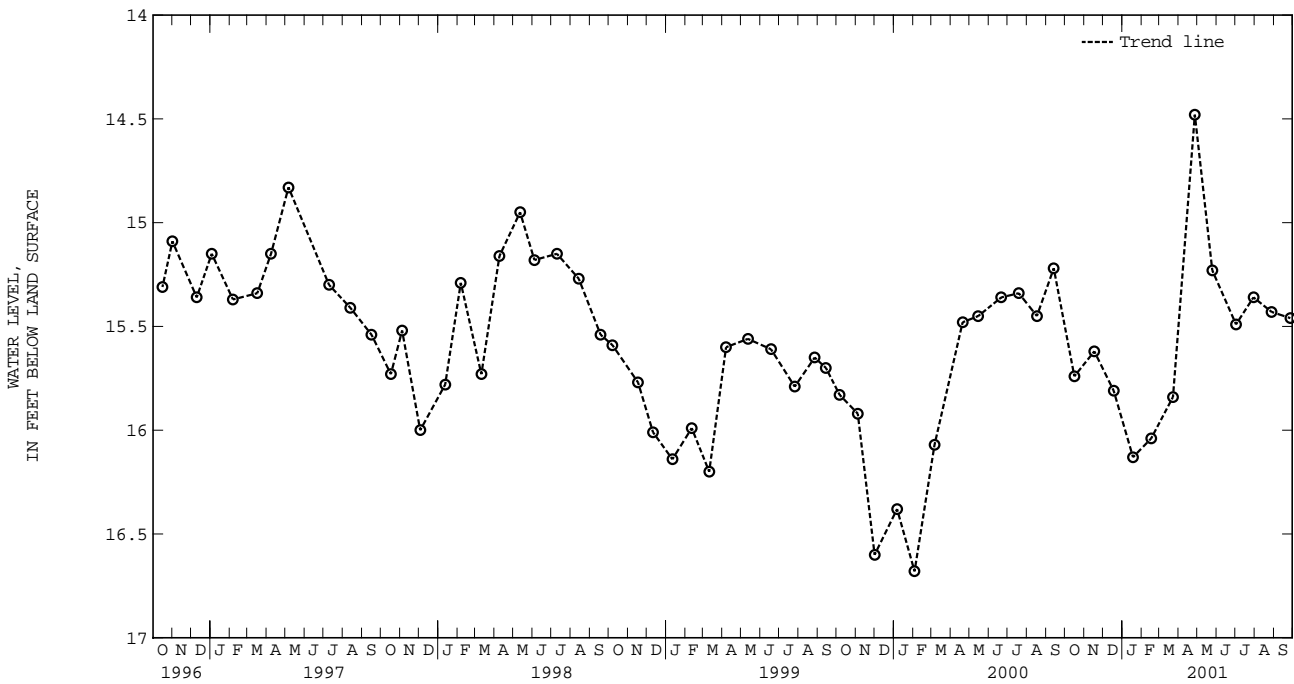
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.48 ft below land surface, April 27, 2001; lowest measured, 16.76 ft below land surface, Feb. 23, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	15.74	JAN 18, 2001	16.13	APR 27, 2001	14.48	JUL 30, 2001	15.36
NOV 17	15.62	FEB 16	16.04	MAY 25	15.23	AUG 28	15.43
DEC 18	15.81	MAR 23	15.84	JUL 02	15.49	SEP 27	15.46
WATER YEAR 2001		HIGHEST	14.48	APR 27, 2001	LOWEST	16.13	JAN 18, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 24. SITE ID.--392343076161901.

LOCATION.--Lat 39°23'43", long 76°16'19", Hydrologic Unit 02060003, at Bush River Road and 29th St., about 2 mi southeast of Edgewood.

Owner: U.S. Army (well 23M).

AQUIFER.--Canal Creek aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217CLCK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 135 ft; casing diameter 18 in., to 73 ft; casing diameter 10 in. from 65 to 120 ft; screen diameter 10 in. from 120 to 135 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Jan. 24, 1950, to June 6, 1961.

DATUM.--Elevation of land surface is 12.8 ft above sea level.

Measuring point: Top of casing, 1.44 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured, 8.24 ft below land surface, April 13, 1944.

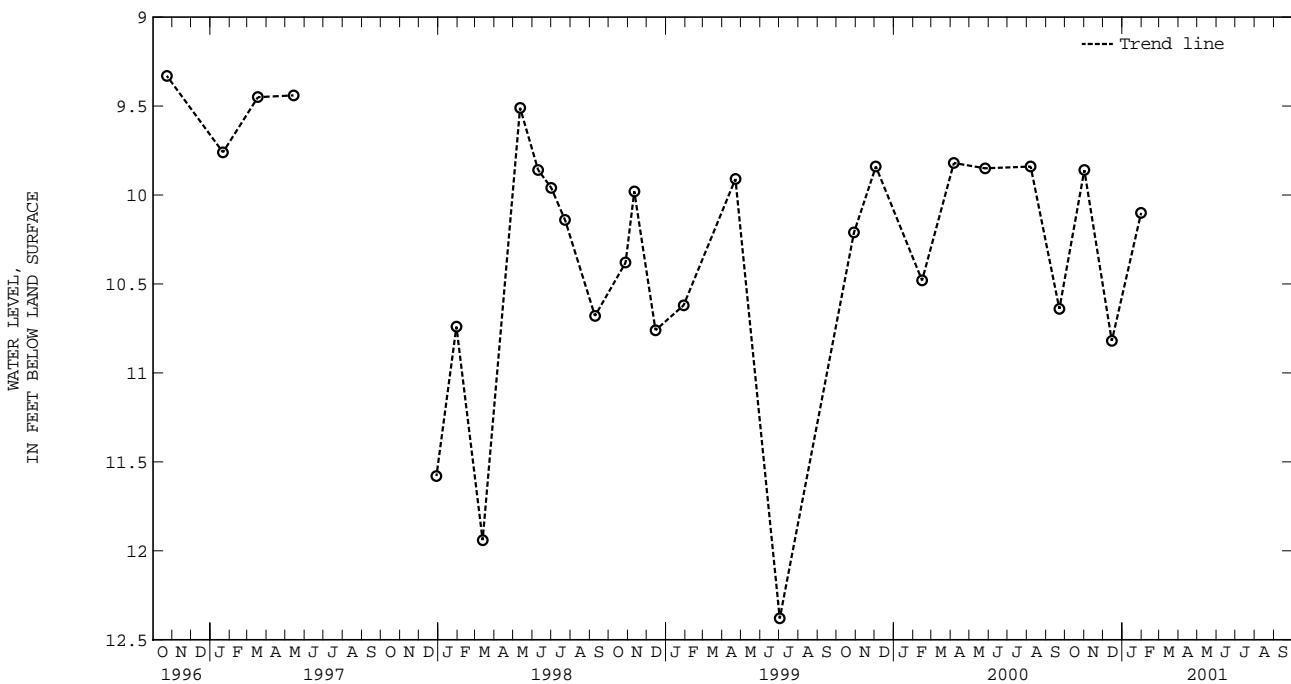
Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.-- September 1949, January 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.41 ft below land surface, Sept. 17, 1984; lowest measured, 42.55 ft below land surface, June 26, 1955.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01, 2000	9.86	DEC 15, 2000	10.82	JAN 31, 2001	10.1
WATER YEAR 2001 HIGHEST		9.86	NOV 01, 2000 LOWEST		10.82



GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 47. SITE ID.--392455076192101. PERMIT NUMBER.--HA-81-4128.

LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of intersection of MD Rt. 152 and Trimble Road, Edgewood Park.

Owner: Maryland Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 210 ft; casing diameter 4 in., to 190 ft, and 200 to 210 ft; screen diameter 4 in. from 190 to 200 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 90.50 ft above sea level.

Measuring point: Top of casing, 2.29 ft above land surface.

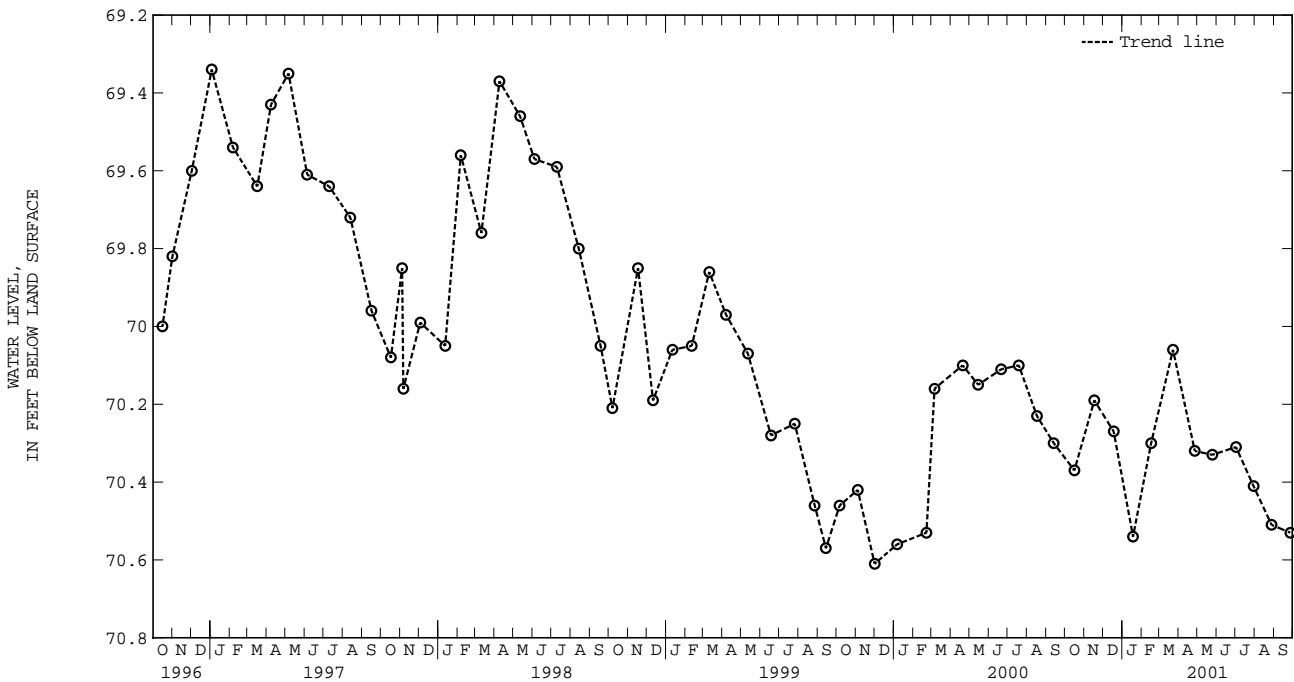
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.34 ft below land surface, Jan. 3, 1997;  
lowest measured, 72.02 ft below land surface, Nov. 9, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	70.37	JAN 18, 2001	70.54	APR 27, 2001	70.32	JUL 30, 2001	70.41
NOV 17	70.19	FEB 16	70.30	MAY 25	70.33	AUG 28	70.51
DEC 18	70.27	MAR 23	70.06	JUL 02	70.31	SEP 27	70.53
WATER YEAR 2001		HIGHEST	70.06	MAR 23, 2001	LOWEST	70.54	JAN 18, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 48. SITE ID.--392455076192102. PERMIT NUMBER.--HA-81-4578.

LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of intersection of MD Rt. 152 and Trimble Road, Edgewood Park.

Owner: Maryland Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 133 ft; casing diameter 4 in., to 118 ft, and 128 to 133 ft; screen diameter 4 in. from 118 to 128 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 91.20 ft above sea level.

Measuring point: Top of PVC casing, 2.58 ft above land surface.

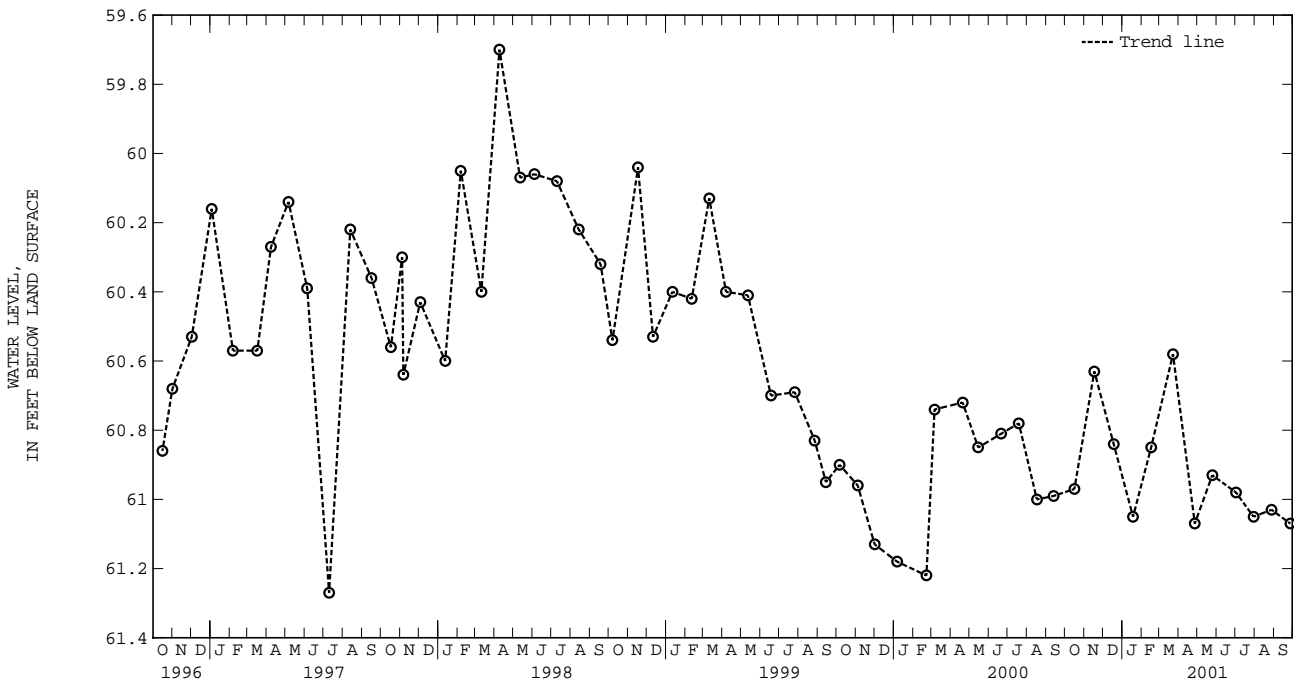
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.70 ft below land surface, April 9, 1998;  
lowest measured, 63.00 ft below land surface, May 12, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	60.97	JAN 18, 2001	61.05	APR 27, 2001	61.07	JUL 30, 2001	61.05
NOV 17	60.63	FEB 16	60.85	MAY 25	60.93	AUG 28	61.03
DEC 18	60.84	MAR 23	60.58	JUL 02	60.98	SEP 27	61.07
WATER YEAR 2001		HIGHEST	60.58	MAR 23, 2001	LOWEST	61.07	APR 27, 2001
							SEP 27, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 49. SITE ID.--392455076192103. PERMIT NUMBER.--HA-81-4129.

LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of the intersection of MD Rt. 152 and Trimble Road, Edgewood Park.

Owner: Maryland Geological Survey.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 28 ft; casing diameter 4 in., to 13 ft, and 23 to 28 ft; screen diameter 4 in. from 13 to 23 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from June 3, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 91.89 ft above sea level.

Measuring point: Top of PVC casing, 2.19 ft above land surface.

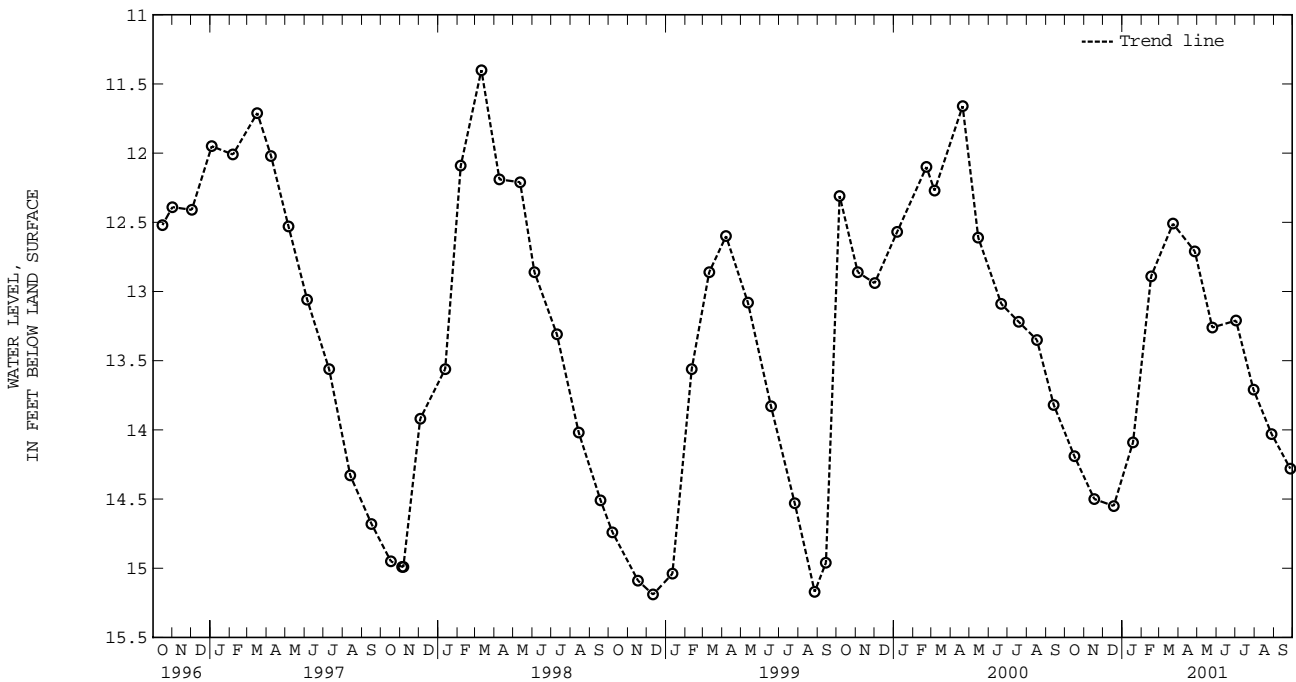
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to July 1995, January 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.40 ft below land surface, March 11, 1998; lowest measured, 15.19 ft below land surface, Dec. 11, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	14.19	JAN 18, 2001	14.09	APR 27, 2001	12.71	JUL 30, 2001	13.71
NOV 17	14.50	FEB 16	12.89	MAY 25	13.26	AUG 28	14.03
DEC 18	14.55	MAR 23	12.51	JUL 02	13.21	SEP 27	14.28
WATER YEAR 2001 HIGHEST 12.51 MAR 23, 2001		LOWEST 14.55 DEC 18, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



HOWARD COUNTY

WELL NUMBER.--HO Bd 1. SITE ID.--391910076565701.

LOCATION.--Lat 39°19'10", long 76°56'57", Hydrologic Unit 02060006, Slacks Corner near MD Rt. 32 and MD Rt. 99.

Owner: Maryland State Highway Administration.

AQUIFER.--Morgan Run Formation of Ordovician age. Aquifer code: 360MRGR.

WELL CHARACTERISTICS.--Dug, stone-lined, observation, water-table well, measured depth 48 ft; diameter 60 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 630 ft above sea level, from topographic map.

Measuring point: Hole in center of steel plate well cover, 0.40 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--October 1946 to current year.

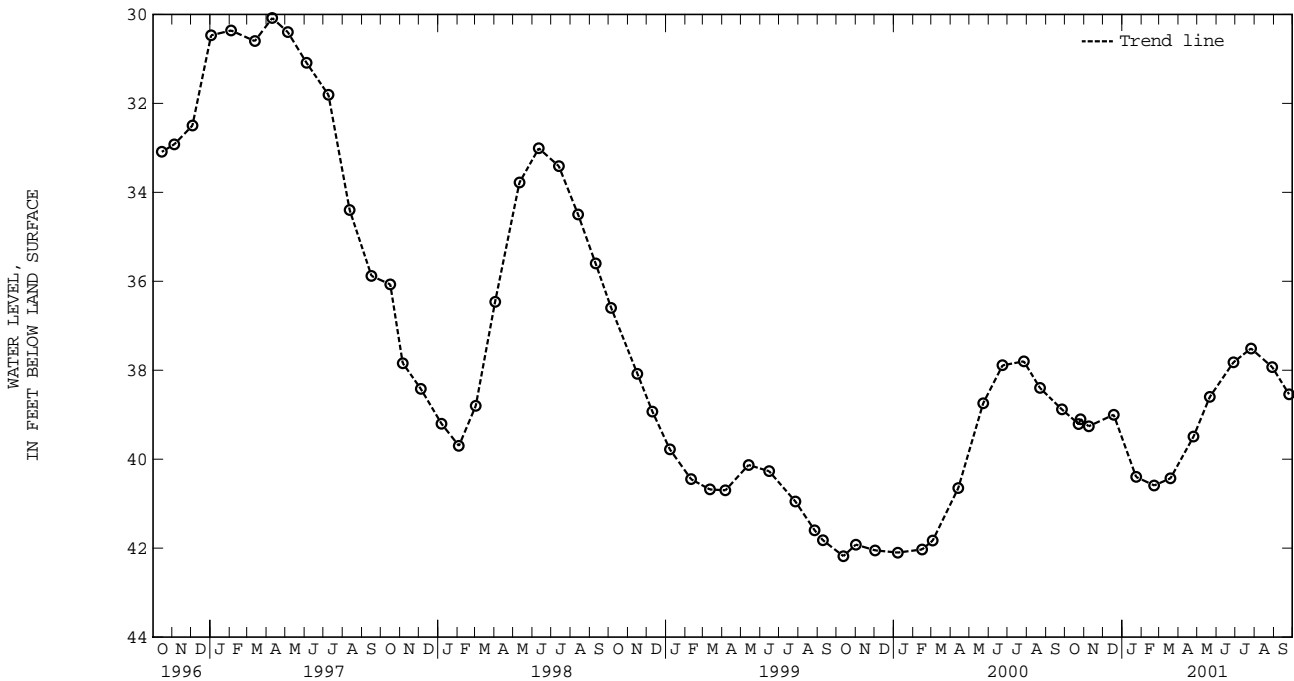
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.76 ft below land surface, July 3, 1972;

lowest measured, 46.88 ft below land surface, Sept. 10, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	39.21	JAN 23, 2001	40.40	MAY 21, 2001	38.60	SEP 25, 2001	38.54
26	39.10	FEB 21	40.59	JUN 28	37.82		
NOV 08	39.26	MAR 19	40.43	JUL 26	37.51		
DEC 18	39.00	APR 25	39.49	AUG 29	37.93		

WATER YEAR 2001 HIGHEST 37.51 JUL 26, 2001 LOWEST 40.59 FEB 21, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

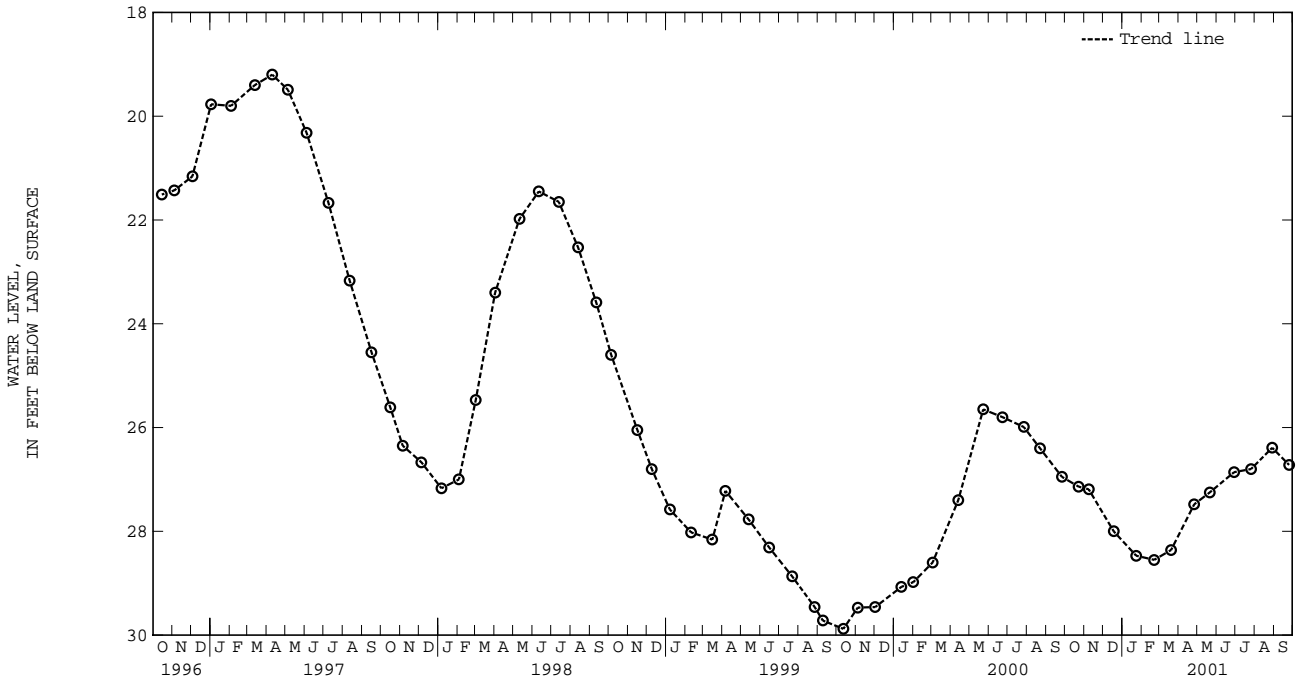
HOWARD COUNTY--Continued

WELL NUMBER.--HO Cd 79. SITE ID.--391445076555101. PERMIT NUMBER.--HO-81-2387.  
 LOCATION.--Lat 39°14'45", long 76°55'51", Hydrologic Unit 02060006, at University of Maryland Central Farm.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Loch Raven Formation of Cambrian age. Aquifer code: 360LCRV.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 6 in., to 6 ft; and casing diameter 3.5 in. to 43 ft; open hole.  
 DATUM.--Elevation of land surface is 452.37 ft above sea level.  
 Measuring point: Top of casing, 2.05 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--January 1988 to May 1993, November 1995, January 1996 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.20 ft below land surface, April 10, 1997;  
 lowest measured, 29.88 ft below land surface, Oct. 12, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	27.14	JAN 23, 2001	28.47	APR 26, 2001	27.48	JUL 26, 2001	26.80
NOV 08	27.19	FEB 21	28.55	MAY 21	27.25	AUG 29	26.39
DEC 18	28.00	MAR 20	28.36	JUN 29	26.86	SEP 25	26.72

WATER YEAR 2001      HIGHEST    26.39    AUG 29, 2001      LOWEST    28.55    FEB 21, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

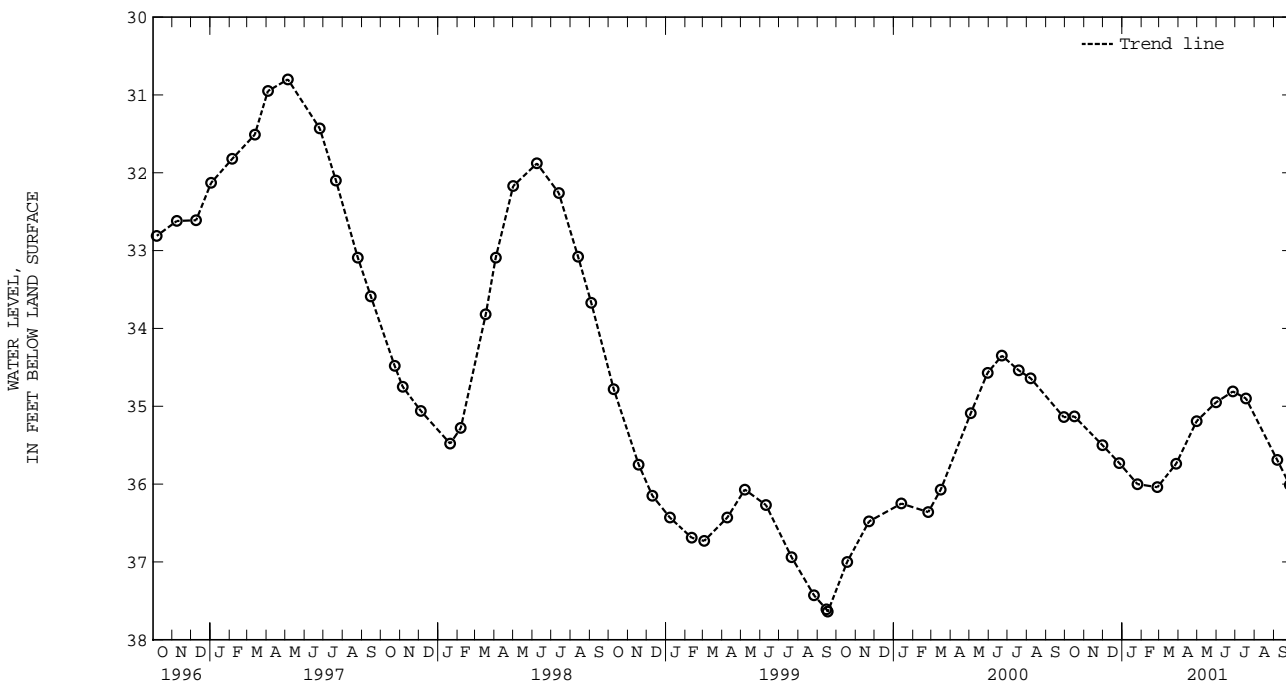
HOWARD COUNTY--Continued

WELL NUMBER.--HO Ce 38. SITE ID.--391001076540001. PERMIT NUMBER.--HO-01-1827.  
 LOCATION.--Lat 39°10'01", long 76°54'00", Hydrologic Unit 02060006, at Johns Hopkins University Applied Physics Lab, Scaggsville.  
 Owner: Johns Hopkins University.  
 AQUIFER.--Sykesville Formation of Ordovician age. Aquifer code: 360SKVL.  
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 125 ft; casing diameter 6 in., to 51.4 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 9, 1987 to April 27, 1990.  
 DATUM.--Elevation of land surface is 430 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.45 ft below land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--May 1956 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.84 ft below land surface, May 5, 1972; lowest measured, 37.64 ft below land surface, Sept. 17, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	35.13	JAN 25, 2001	36.00	APR 30, 2001	35.19	JUL 18, 2001	34.90
NOV 30	35.50	FEB 26	36.04	MAY 31	34.95	SEP 06	35.69
DEC 27	35.73	MAR 28	35.74	JUN 27	34.81	26	36.01

WATER YEAR 2001    HIGHEST    34.81    JUN 27, 2001    LOWEST    36.04    FEB 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY

WELL NUMBER.--KE Ac 20. SITE ID.--392007076075501. PERMIT NUMBER.--KE-73-0658.

LOCATION.--Lat 39°20'07", long 76°07'55", Hydrologic Unit 02060001, at U.S. Coast Guard Station at end of Still Pond Neck Road. Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 582 ft; casing diameter 10 in., to 73 ft; casing diameter 4 in., to 550 ft and 560 to 582 ft; screen diameter 4 in. from 550 to 560 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1991.

DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.30 ft above land surface.

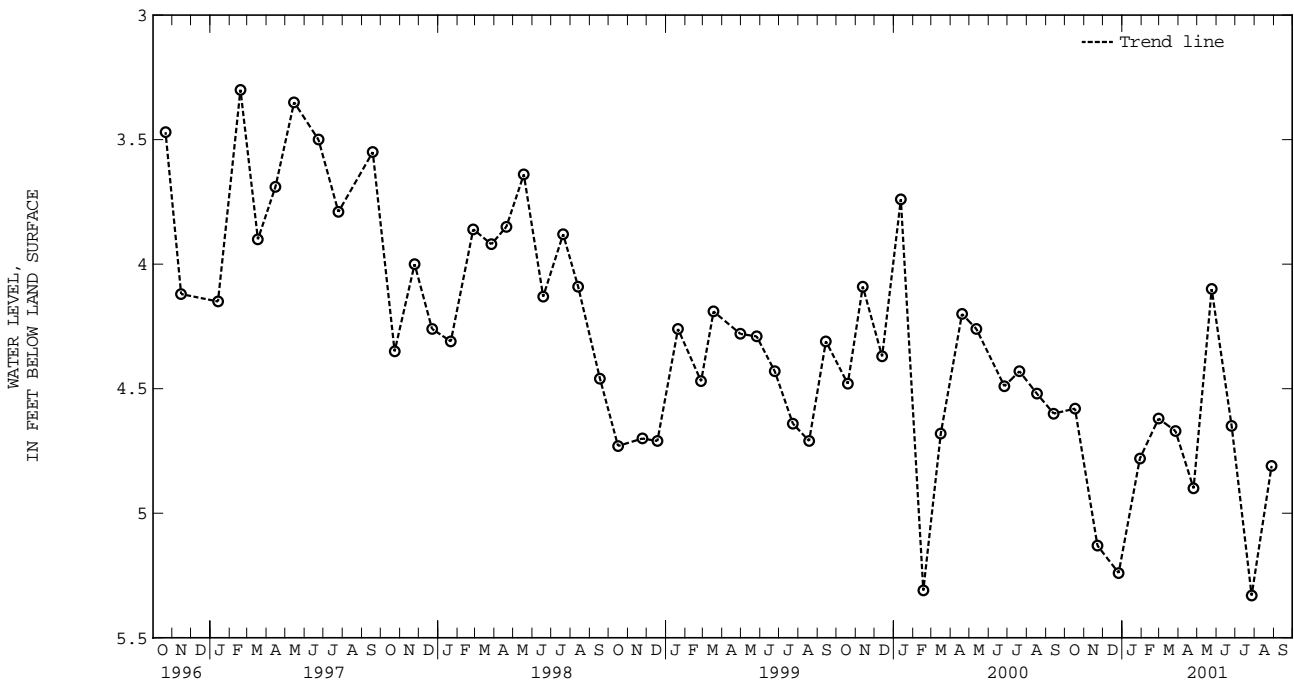
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--December 1977 to December 1978, December 1985, October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.50 ft below land surface, April 13, 1978, May 5, 1978, and Dec. 11, 1985; lowest measured, 5.33 ft below land surface, July 27, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	4.58	JAN 29, 2001	4.78	APR 25, 2001	4.90	JUL 27, 2001	5.33
NOV 22	5.13	FEB 28	4.62	MAY 24	4.10	AUG 28	4.81
DEC 26	5.24	MAR 27	4.67	JUN 25	4.65		
WATER YEAR 2001		HIGHEST	4.10	MAY 24, 2001	LOWEST	5.33	JUL 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

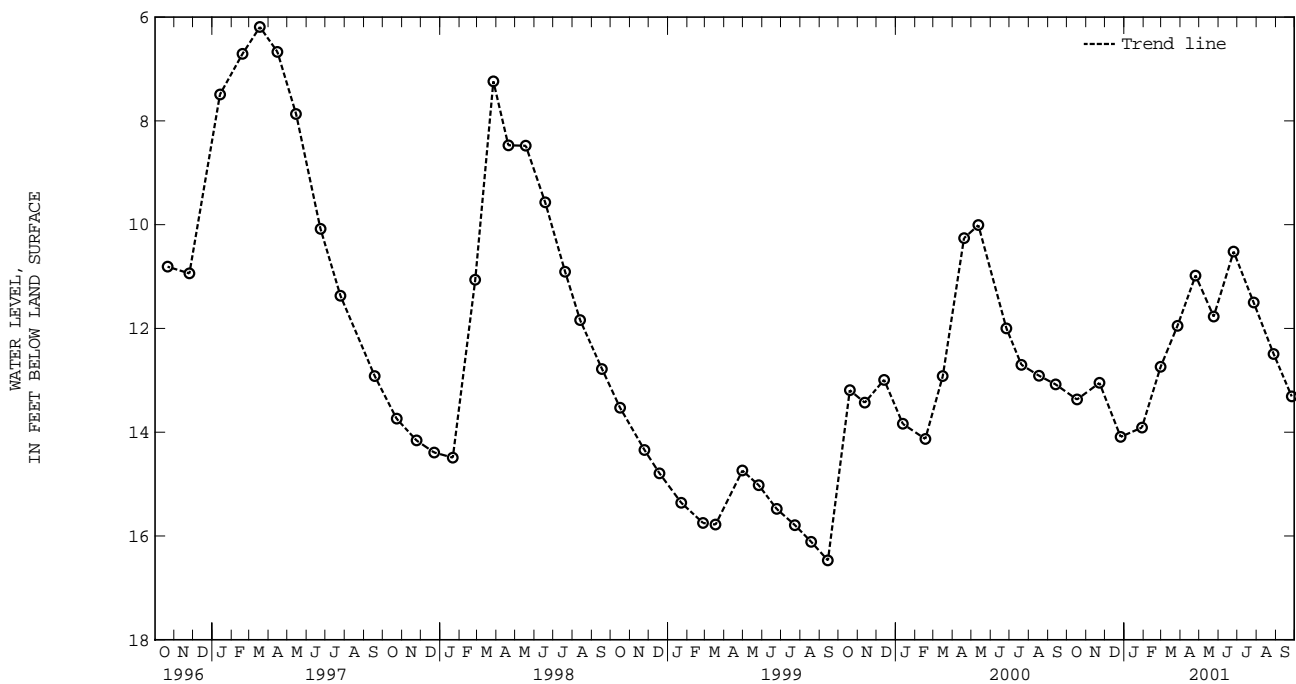
KENT COUNTY--Continued

WELL NUMBER.--KE Bc 185. SITE ID.--391650076050402. PERMIT NUMBER.--KE-88-0255.  
 LOCATION.--Lat 39°16'50", long 76°05'04", Hydrologic Unit 02060002, at Worton Regional Park, Worton.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Columbia aquifer of the Pensauken Formation of Upper Miocene age. Aquifer code: 112CLMB.  
 WELL CHARACTERISTICS.--Drilled, observation well, water-table well, depth 55 ft; casing diameter 4 in., to 40 ft, and 50 to 55 ft; screen diameter 4 in. from 40 to 50 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 82.09 ft above sea level.  
 Measuring Point: Top of casing, 2.41 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.19 ft below land surface, March 18, 1997;  
 lowest measured, 20.23 ft below land surface, Dec. 12-14, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	13.37	JAN 29, 2001	13.91	APR 25, 2001	10.98	JUL 27, 2001	11.50
NOV 22	13.05	FEB 28	12.74	MAY 24	11.77	AUG 28	12.49
DEC 26	14.09	MAR 27	11.95	JUN 25	10.52	SEP 26	13.31

WATER YEAR 2001    HIGHEST    10.52    JUN 25, 2001    LOWEST    14.09    DEC 26, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

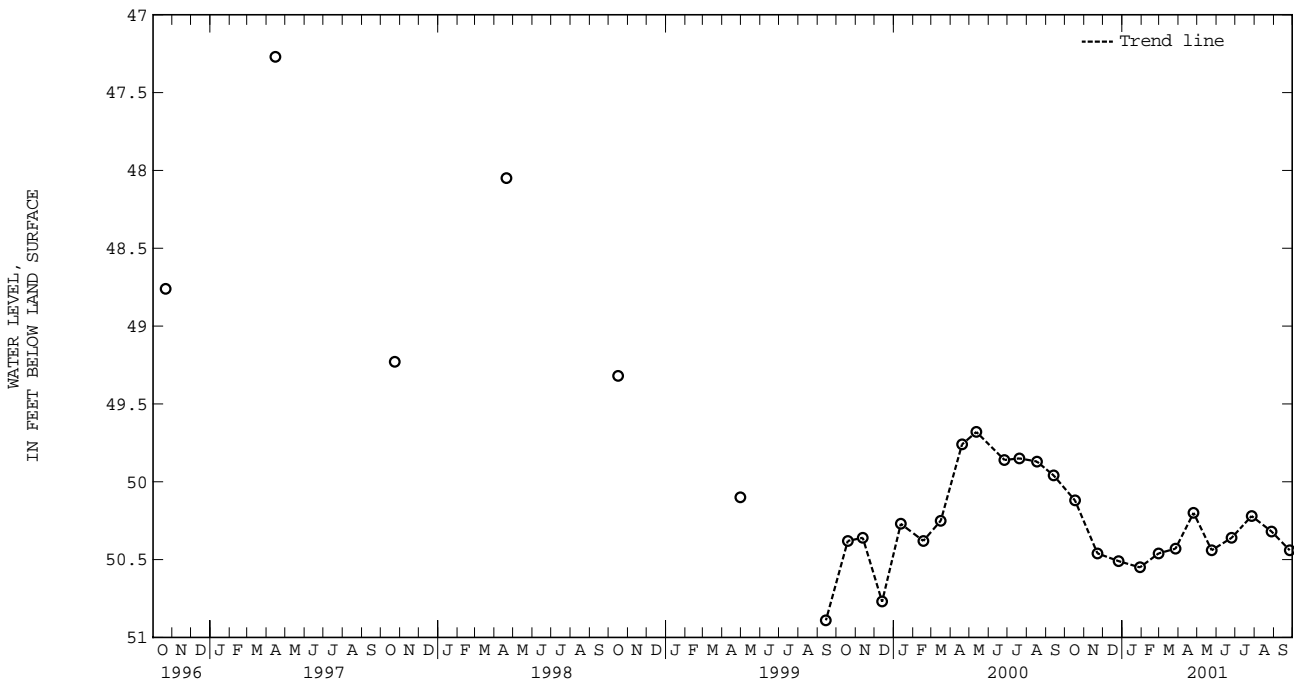
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Bc 186. SITE ID.--391650076050403. PERMIT NUMBER.--KE-88-0286.  
 LOCATION.--Lat 39°16'50", long 76°05'04", Hydrologic Unit 02060002, at Worton Regional Park, Worton  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation well, artesian well, depth 270 ft; casing diameter 4 in., to 255 ft and  
 265 to 270 ft; screen diameter 4 in. from 255 to 265 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital  
 water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 82.00 ft above sea level.  
 Measuring Point: Top of metal sleeve, 2.76 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water  
 withdrawal.  
 PERIOD OF RECORD.--February 1992 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.27 below land surface, April 15, 1997;  
 lowest measured, 51.34 ft below land surface, Oct. 17, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	50.12	JAN 29, 2001	50.55	APR 25, 2001	50.20	JUL 27, 2001	50.22
NOV 22	50.46	FEB 28	50.46	MAY 24	50.44	AUG 28	50.32
DEC 26	50.51	MAR 27	50.43	JUN 25	50.36	SEP 26	50.44
WATER YEAR 2001 HIGHEST 50.12 OCT 17, 2000		LOWEST 50.55		JAN 29, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

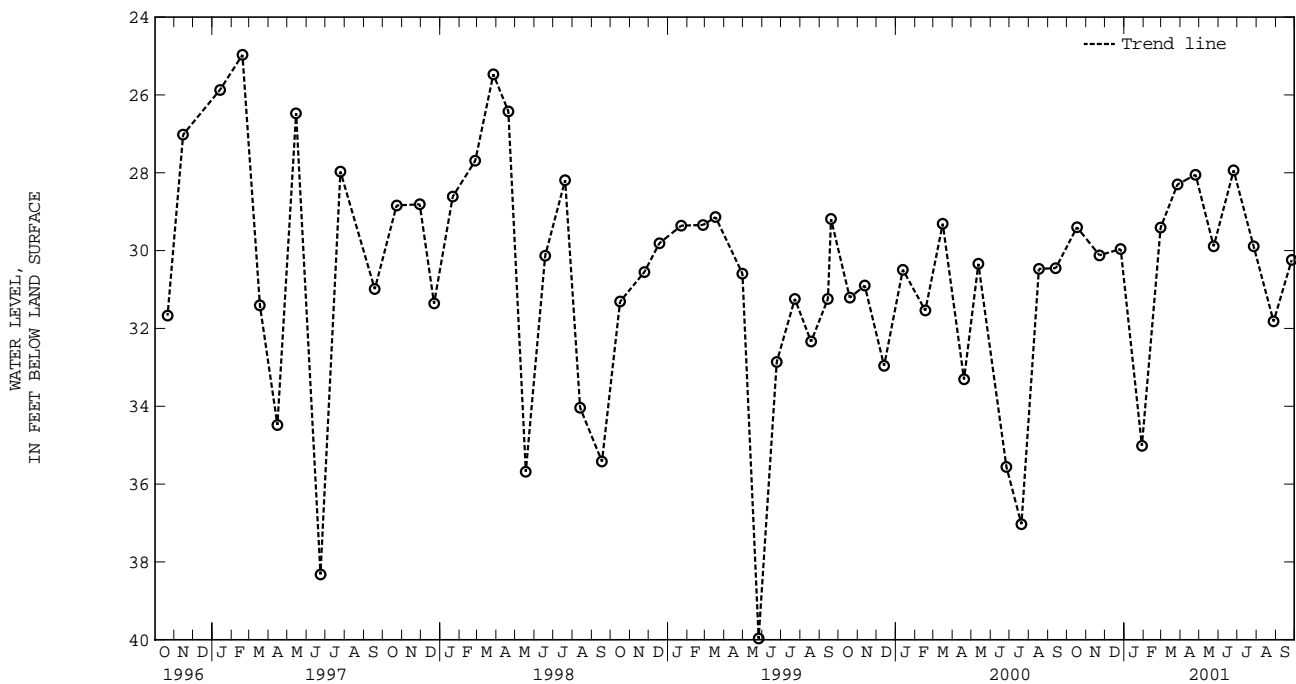
KENT COUNTY--Continued

WELL NUMBER.--KE Be 43. SITE ID.--391823075594701. PERMIT NUMBER.--KE-73-0659.  
 LOCATION.--Lat 39°18'23", long 75°59'45", Hydrologic Unit 02060002, at Kennedyville.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 297 ft; casing diameter 10 in., to 171 ft; casing diameter 4 in. to 275 ft, and 285 to 297 ft; screen diameter 4 in. from 275 to 285 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from October 1986 to April 1991.  
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--February 1979 to July 1979, December 1985, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.31 ft below land surface, June 5, 1979; lowest measured, 42.72 ft below land surface, March 27, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	29.40	JAN 29, 2001	35.02	APR 25, 2001	28.05	JUL 27, 2001	29.89
NOV 22	30.12	FEB 28	29.41	MAY 24	29.89	AUG 28	31.82
DEC 26	29.96	MAR 27	28.30	JUN 25	27.94	SEP 26	30.24

WATER YEAR 2001    HIGHEST    27.94    JUN 25, 2001    LOWEST    35.02    JAN 29, 2001



KENT COUNTY--Continued

WELL NUMBER.--KE Be 171. SITE ID.--391643075550901. PERMIT NUMBER.--KE-88-0257.  
 LOCATION.--Lat 39°16'43", long 75°55'06", Hydrologic Unit 02060002, 0.9 mi south of Chesterville on Rt. 290, at Angelica Nursery.

Owner: Maryland Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 440 ft; casing diameter 4 in., to 425 ft; screen diameter 4 in. from 425 to 435 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from April 1992 to October 1993.

DATUM.--Elevation of land surface is 41.41 ft above sea level.

Measuring Point: Top of casing, 2.30 ft above land surface.

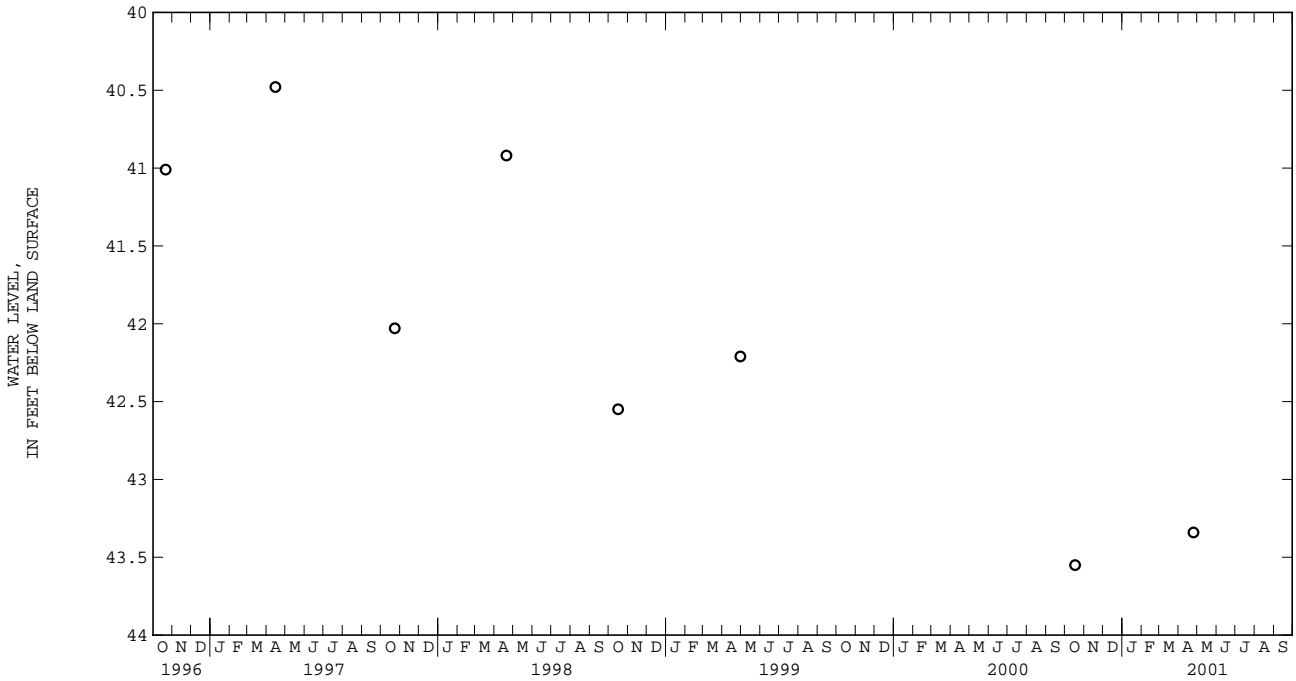
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.76 ft below land surface, April 2, 1992; lowest measured, 43.55 ft below land surface, Oct. 17, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	43.55	APR 25, 2001	43.34
WATER YEAR 2001 HIGHEST		43.34 APR 25, 2001	LOWEST 43.55 OCT 17, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000



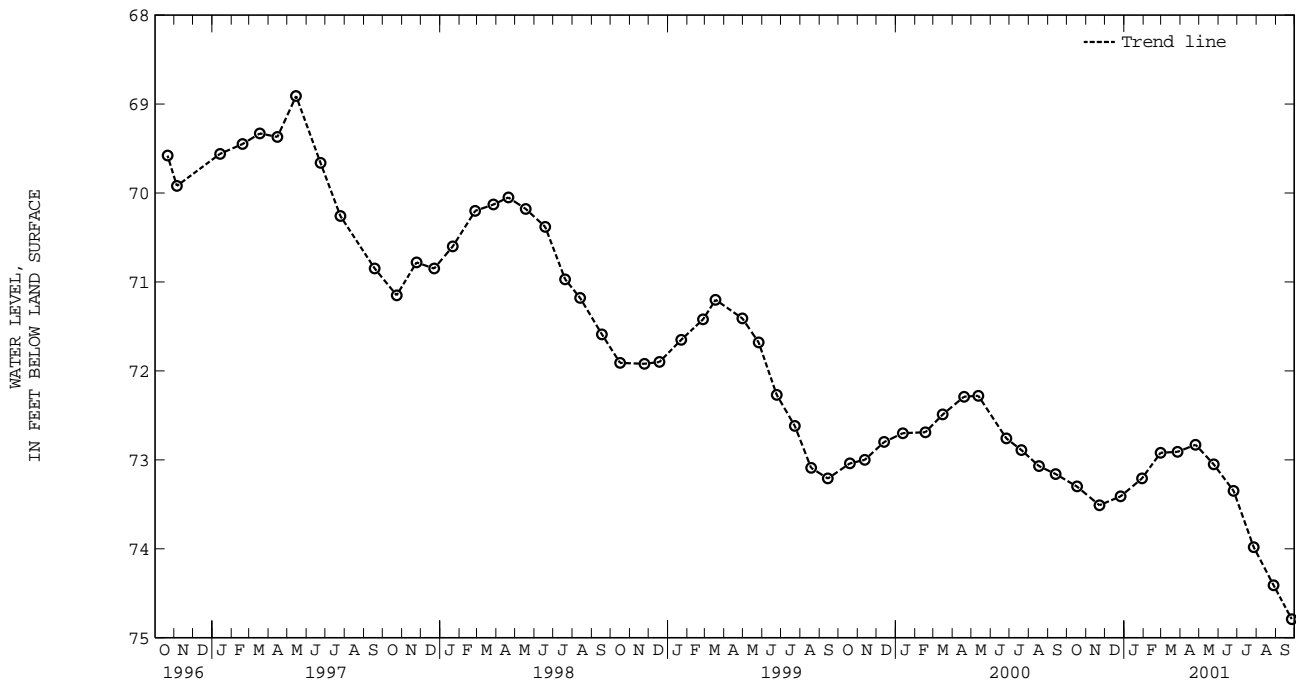
KENT COUNTY--Continued--Continued

WELL NUMBER.--KE Bg 33. SITE ID.--391815075472101. PERMIT NUMBER.--KE-73-0670.  
 LOCATION.--Lat 39°18'15", long 75°47'21", Hydrologic Unit 02060002, 2 mi west of Massey at Millington Wildlife Management Area.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 705 ft; casing diameter 4 in., to 695 ft; screen diameter 4 in. from 695 to 705 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1994.  
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--March 1979 to July 1979, December 1985, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.62 ft below land surface, June 5, 1979; lowest measured, 74.79 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	73.30	JAN 29, 2001	73.21	APR 25, 2001	72.83	JUL 27, 2001	73.98
NOV 22	73.51	FEB 28	72.92	MAY 24	73.05	AUG 28	74.41
DEC 26	73.41	MAR 27	72.91	JUN 25	73.35	SEP 26	74.79

WATER YEAR 2001    HIGHEST    72.83    APR 25, 2001    LOWEST    74.79    SEP 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

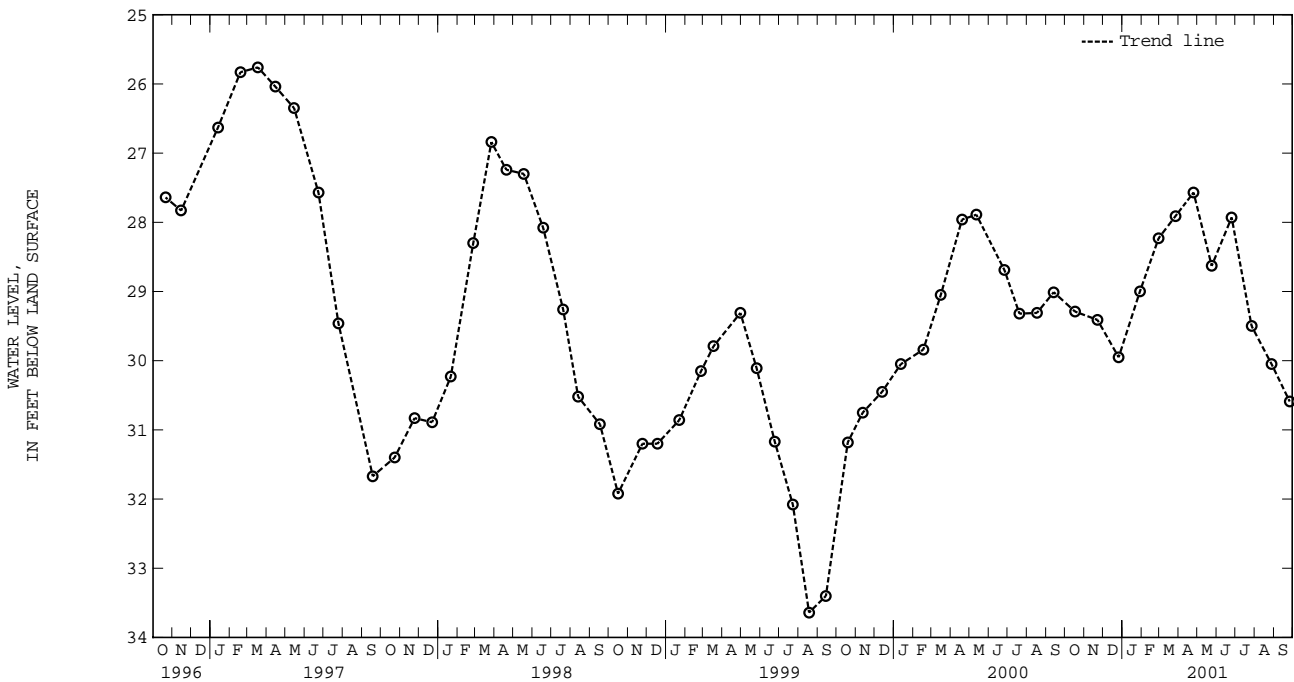
KENT COUNTY--Continued

WELL NUMBER.--KE Bg 34. SITE ID.--391815075472102. PERMIT NUMBER.--KE-73-0686.  
 LOCATION.--Lat 39°18'15", long 75°47'22", Hydrologic Unit 02060002, 2 mi west of Massey, at Millington Wildlife Management Area.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 186 ft; casing diameter 6 in., to 124 ft; screen diameter 6 in. from 124 to 186 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to October 1994.  
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--April 1979 to July 1979, December 1985, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.37 ft below land surface, April 11, 1979; lowest measured, 36.23 ft below land-surface datum, Sept. 2, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	29.29	JAN 29, 2001	29.00	APR 25, 2001	27.57	JUL 27, 2001	29.50
NOV 22	29.41	FEB 28	28.23	MAY 24	28.63	AUG 28	30.05
DEC 26	29.95	MAR 27	27.91	JUN 25	27.93	SEP 26	30.59

WATER YEAR 2001    HIGHEST    27.57    APR 25, 2001    LOWEST    30.59    SEP 26, 2001



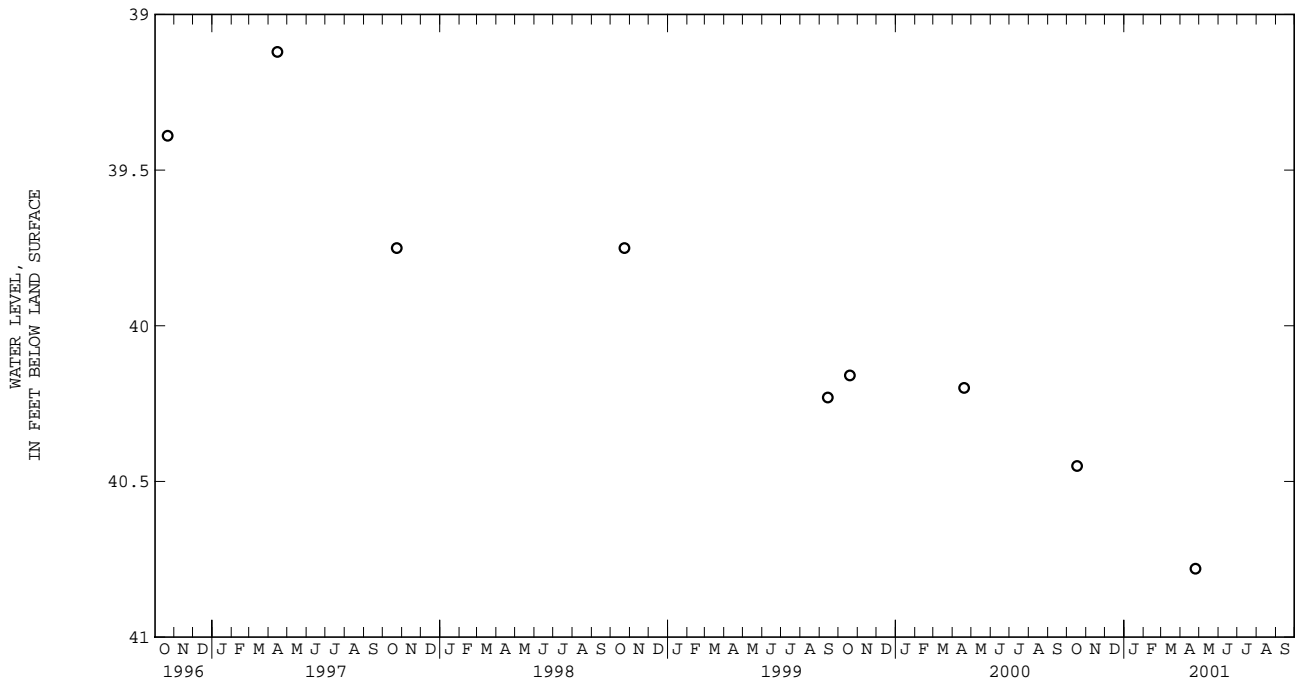
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 36. SITE ID.--391400076101401. PERMIT NUMBER.--KE-73-0660.  
 LOCATION.--Lat 39°14'00", long 76°10'14", Hydrologic Unit 02060002, .75 mi north of Fairlee.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 650 ft; casing diameter 10 in., to 114 ft; casing diameter 4 in., to 595 ft and 605 to 650 ft; screen diameter 4 in. from 595 to 605 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1991. Equipped with digital water-level recorder--30-minute recorder interval from July 16, 1991 to October 1993.  
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 4.38 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--June 1978 to July 1979, December 1985, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.84 ft below land surface, Sept. 15, 1982; lowest measured, 40.78 ft below land surface, April 25, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	40.45	APR 25, 2001	40.78
WATER YEAR 2001 HIGHEST 40.45		OCT 17, 2000 LOWEST 40.78	
		APR 25, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

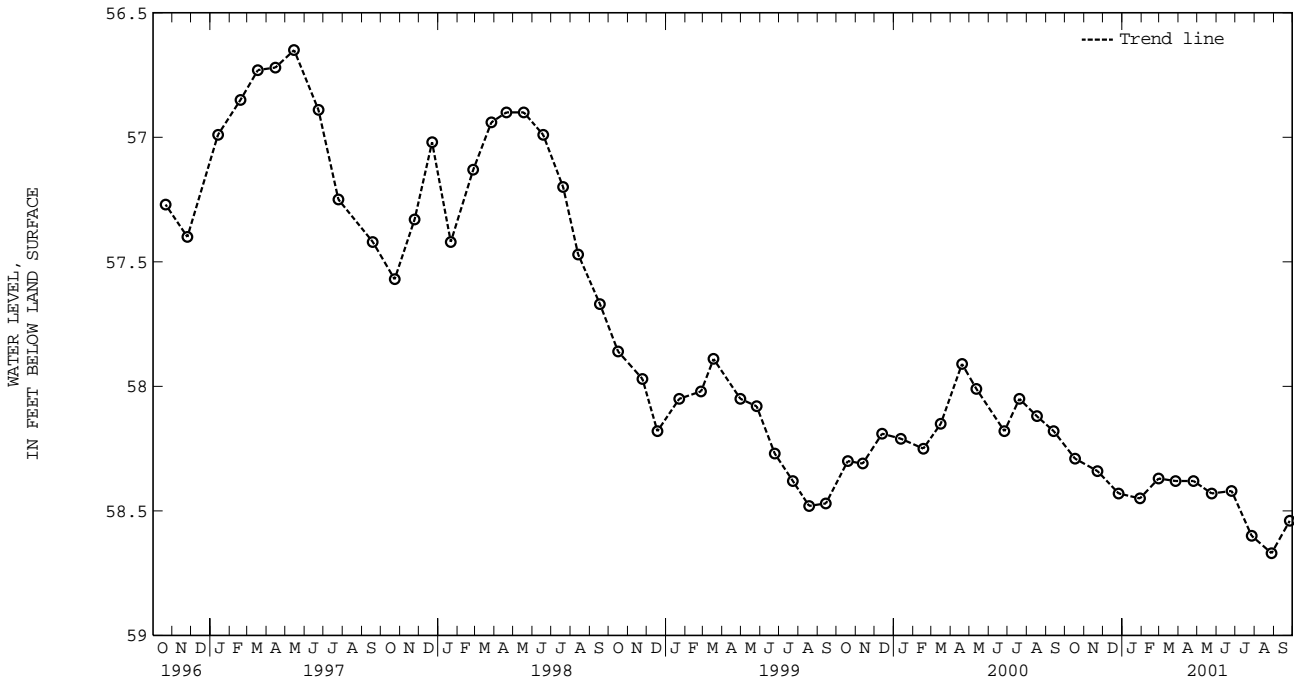
KENT COUNTY--Continued

WELL NUMBER.--KE Cb 97. SITE ID.--391124076101001. PERMIT NUMBER.--KE-88-0251.  
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Magothy Formation of the Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 285 ft; casing diameter 4 in., to 270 ft; screen diameter 4 in. from 270 to 280 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 65.84 ft above sea level.  
 Measuring Point: Top of casing, 2.30 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.40 ft below land surface, Oct. 24, 1991; lowest measured, 58.67 ft below land surface, Aug. 28, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	58.29	JAN 29, 2001	58.45	APR 25, 2001	58.38	JUL 27, 2001	58.60
NOV 22	58.34	FEB 28	58.37	MAY 24	58.43	AUG 28	58.67
DEC 26	58.43	MAR 27	58.38	JUN 25	58.42	SEP 26	58.54

WATER YEAR 2001      HIGHEST    58.29    OCT 17, 2000      LOWEST    58.67    AUG 28, 2001



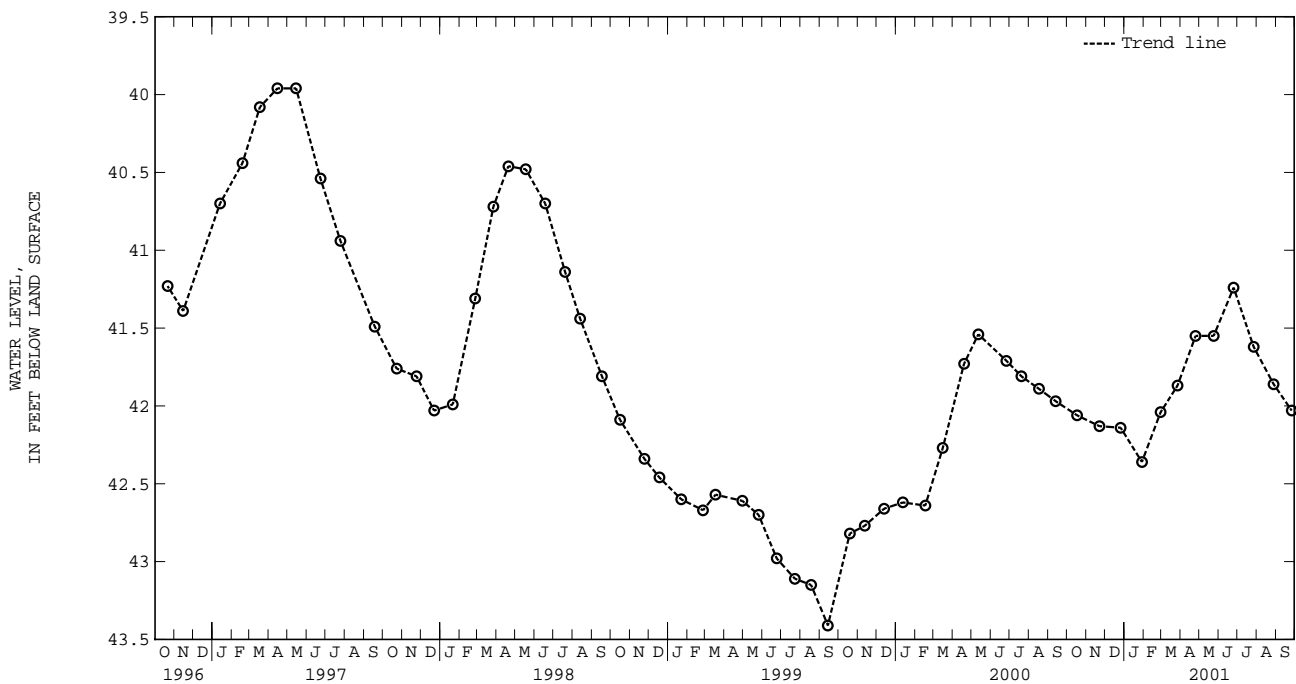
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 98. SITE ID.--391124076101002. PERMIT NUMBER.--KE-88-0254.  
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Monmouth aquifer of the Mount Laurel Formation of Upper Cretaceous age. Aquifer code: 211MNMT.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 225 ft; casing diameter 4 in., to 210 ft and 220 to 225 ft; screen diameter 4 in. from 210 to 220 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 65.78 ft above sea level.  
 Measuring Point: Top of casing, 2.54 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.96 ft below land surface, April 15, 1997 and May 15, 1997; lowest measured, 44.23 ft below land surface, Sept. 19, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	42.06	JAN 29, 2001	42.36	APR 25, 2001	41.55	JUL 27, 2001	41.62
NOV 22	42.13	FEB 28	42.04	MAY 24	41.55	AUG 28	41.86
DEC 26	42.14	MAR 27	41.87	JUN 25	41.24	SEP 26	42.03
WATER YEAR 2001 HIGHEST 41.24 JUN 25, 2001		LOWEST 42.36 JAN 29, 2001					



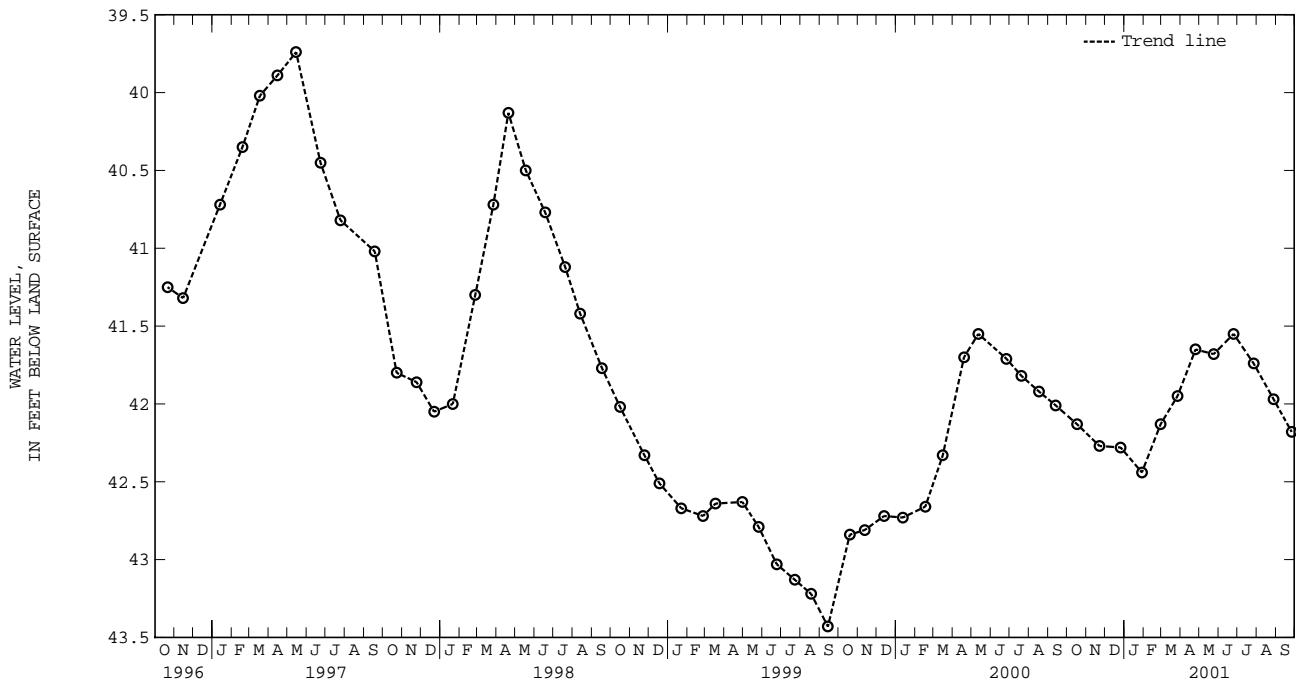
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 99. SITE ID.--391124076101003. PERMIT NUMBER.--KE-88-0252.  
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 134 ft; casing diameter 4 in., to 118 ft, and 128 to 134 ft; screen diameter 4 in. from 118 to 128 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 65.78 ft above sea level.  
 Measuring Point: Top of casing, 2.53 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.74 ft below land surface, May 15, 1997;  
 lowest measured, 44.17 ft below land surface, Oct. 17, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	42.13	JAN 29, 2001	42.44	APR 25, 2001	41.65	JUL 27, 2001	41.74
NOV 22	42.27	FEB 28	42.13	MAY 24	41.68	AUG 28	41.97
DEC 26	42.28	MAR 27	41.95	JUN 25	41.55	SEP 26	42.18
WATER YEAR 2001 HIGHEST 41.55 JUN 25, 2001		LOWEST 42.44 JAN 29, 2001					



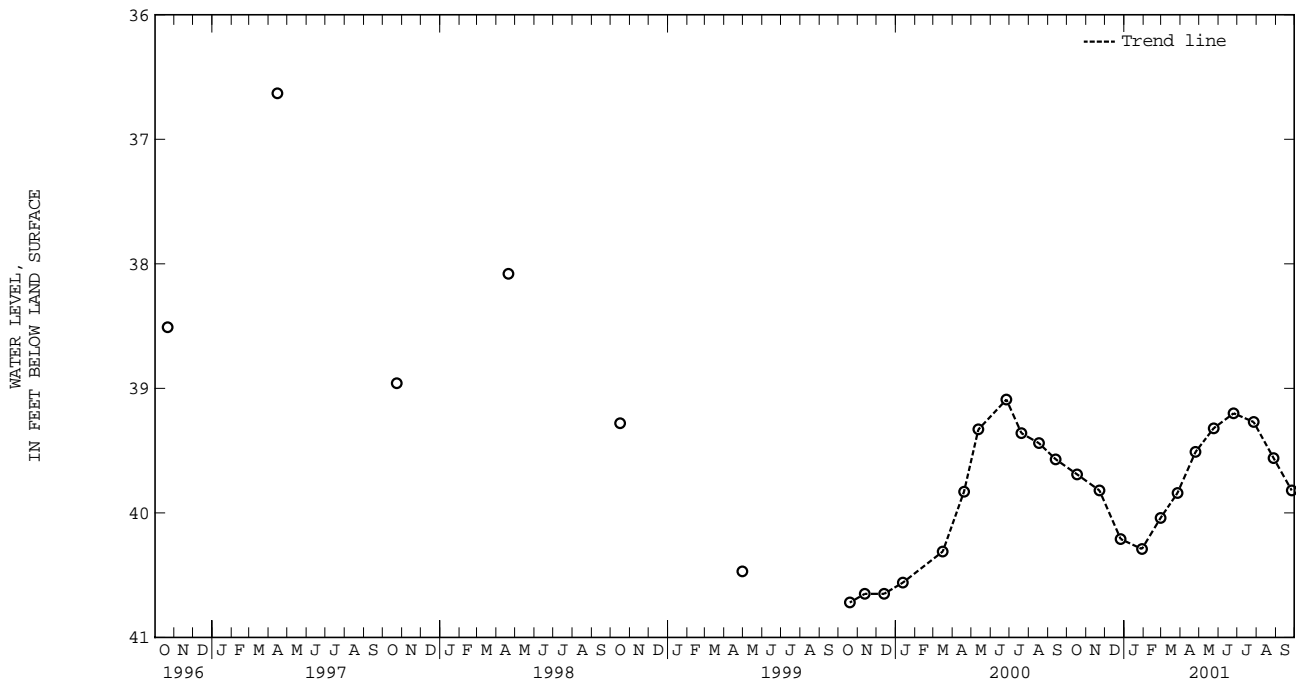
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 100. SITE ID.--391124076101004. PERMIT NUMBER.--KE-88-0253.  
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corners, at Remington Farms.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 67 ft; casing diameter 4 in., to 52 ft, and 62 to 67 ft; screen diameter 4 in. from 52 to 62 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 65.69 ft above sea level.  
 Measuring Point: Top of casing, 2.56 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.63 ft below land surface, April 15, 1997;  
 lowest measured, 42.04 ft below land surface, Oct. 17, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	39.69	JAN 29, 2001	40.29	APR 25, 2001	39.51	JUL 27, 2001	39.27
NOV 22	39.82	FEB 28	40.04	MAY 24	39.32	AUG 28	39.56
DEC 26	40.21	MAR 27	39.84	JUN 25	39.20	SEP 26	39.82
WATER YEAR 2001 HIGHEST 39.20		JUN 25, 2001		LOWEST 40.29		JAN 29, 2001	



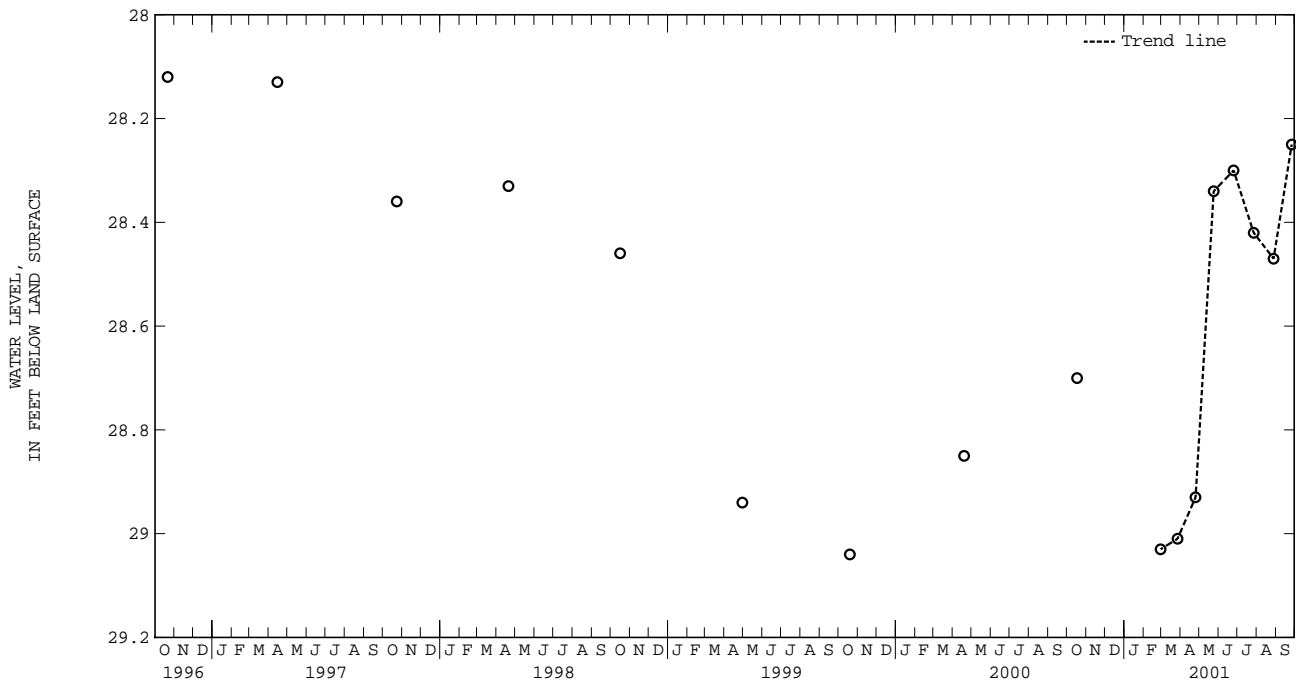
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 101. SITE ID.--391251076142201. PERMIT NUMBER.--KE-88-0250.  
 LOCATION.--Lat 39°12'48", long 76°14'22", Hydrologic Unit 02060002, 0.4 mi east of Tolchester Beach, south of MD Rt. 21.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 73 ft; casing diameter 4 in., to 58 ft, and 68 to 73 ft; screen diameter 4 in. from 58 to 68 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1995 to February 2001. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 31.12 ft above sea level.  
 Measuring Point: Top of casing, 2.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Gate locked on April 1995 visit.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.12 ft below land surface, Oct. 21, 1996; lowest measured, 29.47 ft below land surface, Dec. 8, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	28.70	APR 25, 2001	28.93	JUL 27, 2001	28.42
FEB 28, 2001	29.03	MAY 24	28.34	AUG 28	28.47
MAR 27	29.01	JUN 25	28.30	SEP 26	28.25
WATER YEAR 2001 HIGHEST 28.25		SEP 26, 2001		LOWEST 29.03 FEB 28, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



KENT COUNTY--Continued

WELL NUMBER.--KE Cb 103. SITE ID.--391124076101005. PERMIT NUMBER.--KE-88-0288.

LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.  
 Owner: Maryland Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 404 ft; casing diameter 4 in., to 389 ft, and 399 to 404 ft; screen diameter 4 in. from 389 to 399 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.

DATUM.--Elevation of land surface is 65.60 ft above sea level.

Measuring Point: Top of casing, 2.54 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

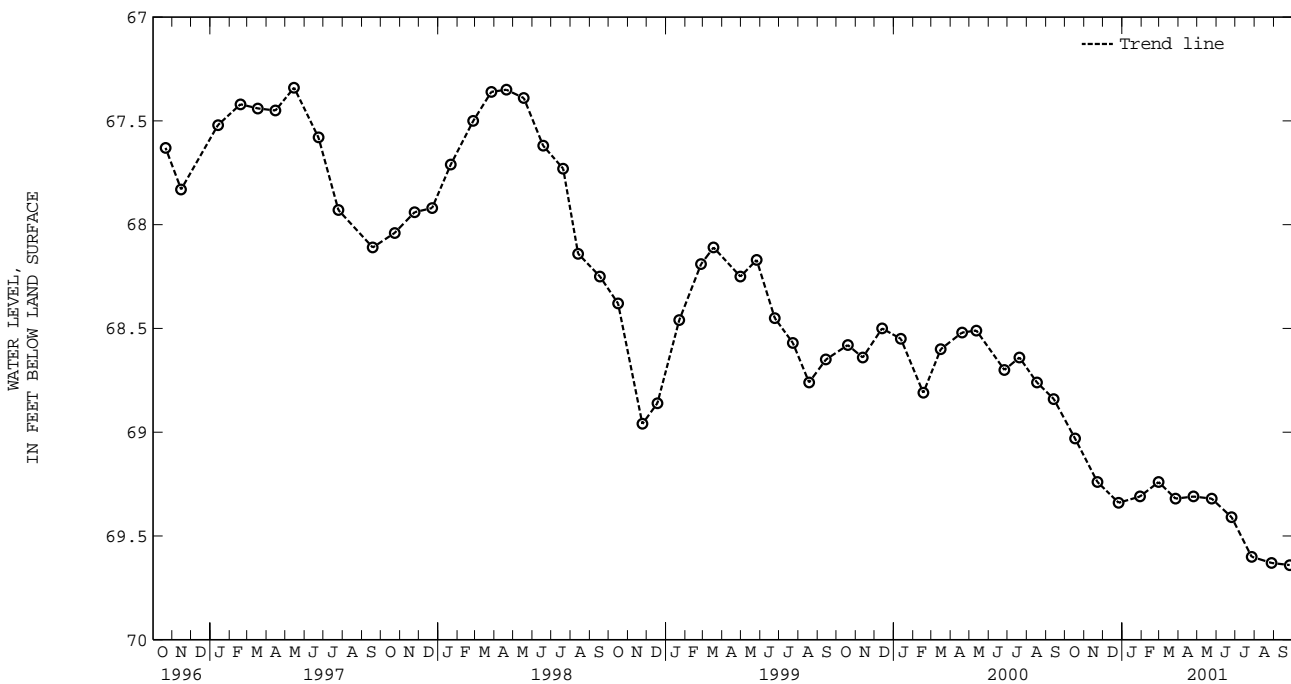
PERIOD OF RECORD.--February 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.64 ft below land surface, April 2, 1992;  
 lowest measured, 69.64 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	69.03	JAN 29, 2001	69.31	APR 25, 2001	69.31	JUL 27, 2001	69.60
NOV 22	69.24	FEB 28	69.24	MAY 24	69.32	AUG 28	69.63
DEC 26	69.34	MAR 27	69.32	JUN 25	69.41	SEP 26	69.64

WATER YEAR 2001 HIGHEST 69.03 OCT 17, 2000 LOWEST 69.64 SEP 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

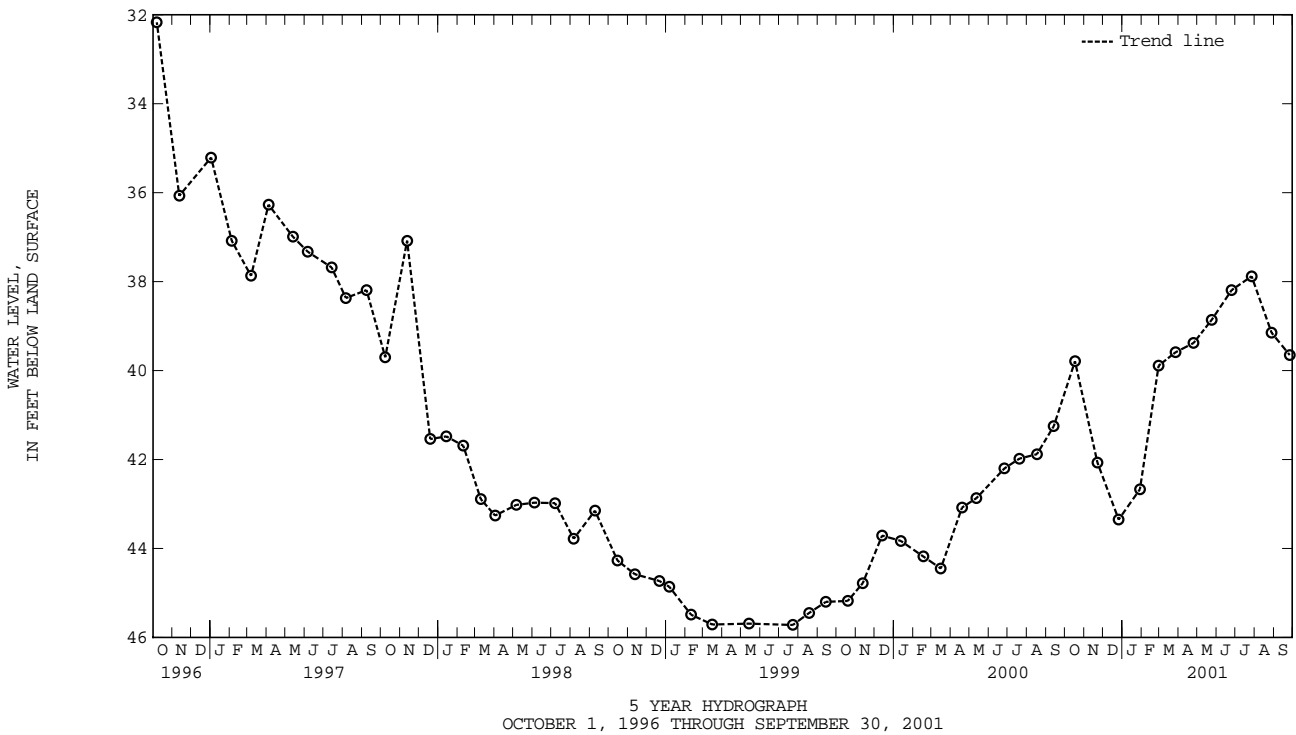
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Cd 44. SITE ID.--391432076015501. PERMIT NUMBER.--KE-03-6139.  
 LOCATION.--Lat 39°14'32", long 76°01'55", Hydrologic Unit 02060002, MD Rt. 291, 2.6 mi northeast of Chestertown.  
 Owner: Chestertown Foods  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 84 ft; casing diameter 4 in., to 79 ft; screen diameter 5 in. from 79 to 84 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 50 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 0.20 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels measured by plant personnel with an electric tape, Sept. 18, 1959 to April 18, 1963. Food processing plant closed from Aug. 31, 1995 to Sept. 30, 1996. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--September 1959 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.00 ft below land surface, Sept. 18, 1959; lowest measured, 54.46 ft below land surface, Aug. 4, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	39.79	JAN 29, 2001	42.67	APR 25, 2001	39.38	JUL 27, 2001	37.88
NOV 22	42.07	FEB 28	39.89	MAY 24	38.86	AUG 28	39.15
DEC 26	43.35	MAR 27	39.59	JUN 25	38.19	SEP 26	39.65
WATER YEAR 2001		HIGHEST	37.88	JUL 27, 2001	LOWEST	43.35	DEC 26, 2000

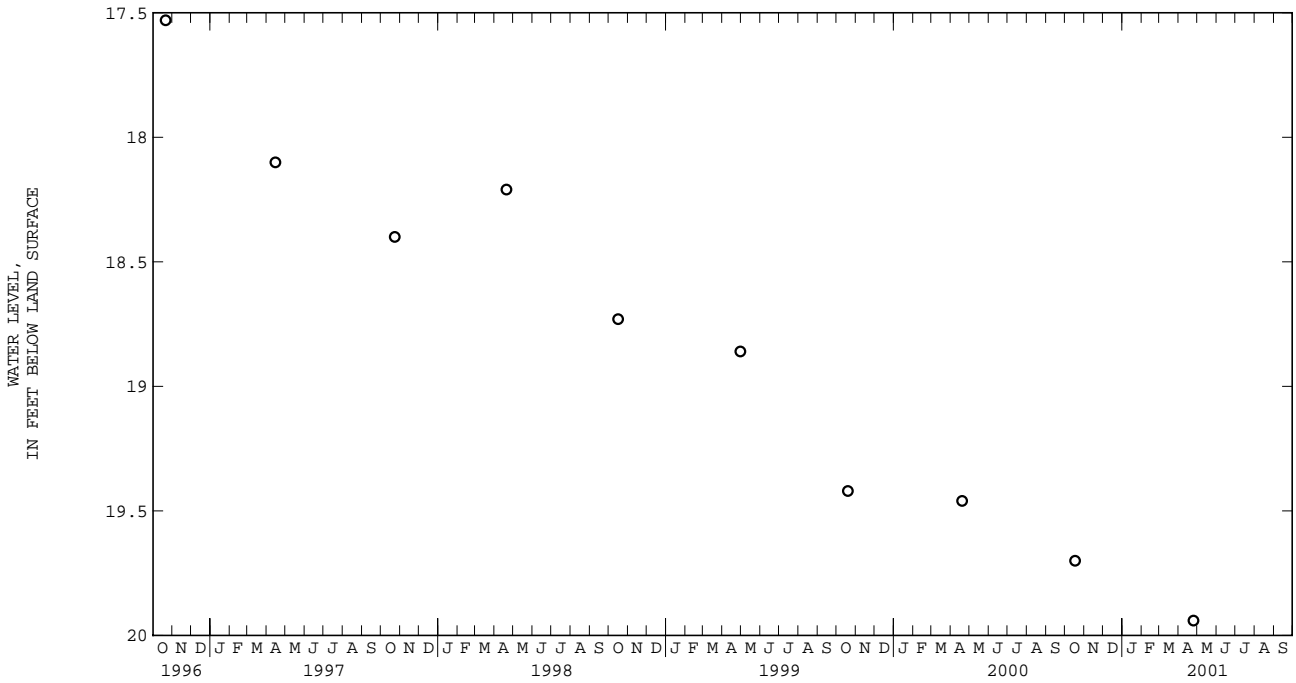


KENT COUNTY--Continued

WELL NUMBER.--KE Db 40. SITE ID.--390837076140401. PERMIT NUMBER.--KE-73-0805.  
 LOCATION.--Lat 39°08'37", long 76°14'04", Hydrologic Unit 02070002, near Rock Hall.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,030 ft; casing diameter 4 in., to 1,019 ft; screen diameter 4 in. from 1,019 to 1,030 ft.  
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.65 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since October 1986. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--December 1978 to July 1979, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.08 ft below land surface, Oct. 30, 1980; lowest measured, 19.94 ft below land surface, April 25, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	19.70	APR 25, 2001	19.94
WATER YEAR 2001	HIGHEST 19.70	OCT 17, 2000	LOWEST 19.94
		APR 25, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Dc 89. SITE ID.--390626076083301. PERMIT NUMBER.--KE-88-0246.

LOCATION.--Lat 39°06'26", long 76°08'33", Hydrologic Unit 02060002, at the end of Cliffs City Rd.

Owner: Maryland Geological Survey.

AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 29 ft; casing diameter 4 in., to 14 ft, and 24 to 29 ft; screen diameter 4 in. from 14 to 24 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.

DATUM.--Elevation of land surface is 4.52 ft above sea level.

Measuring Point: Top of casing, 2.44 ft above land surface.

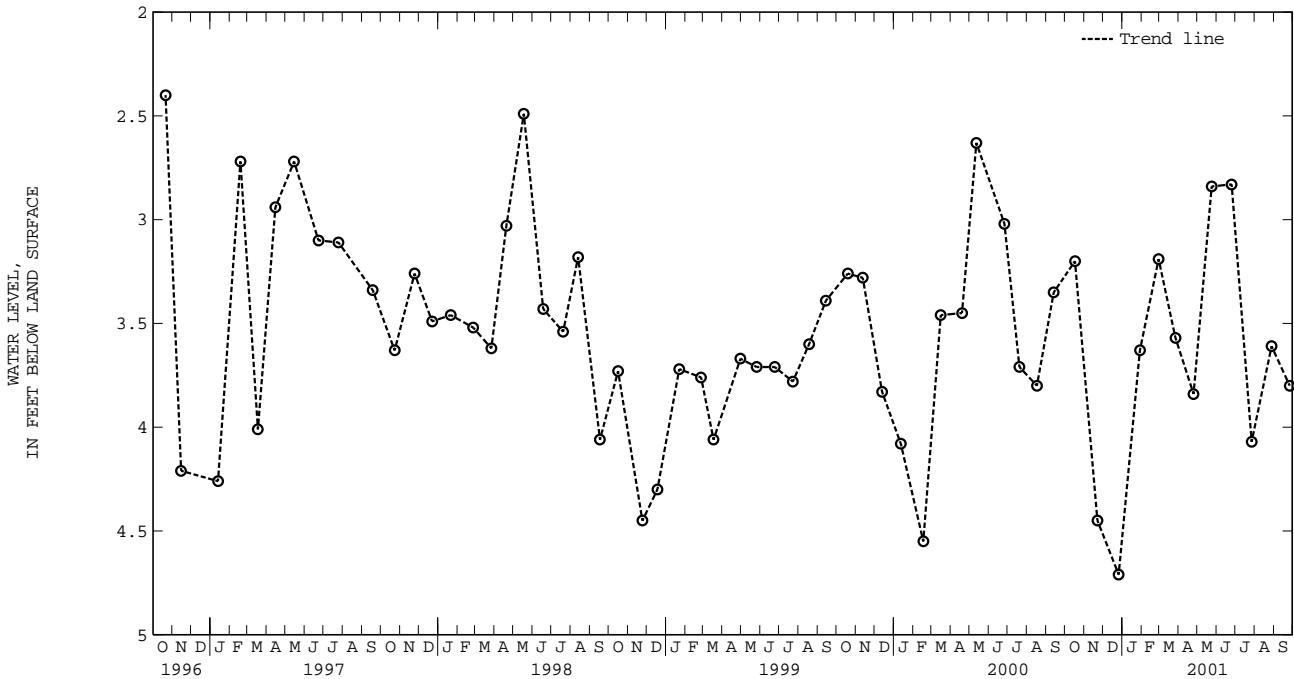
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.40 ft below land surface, Oct. 21, 1996;  
lowest measured, 5.14 ft below land surface, Jan. 20, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	3.20	JAN 29, 2001	3.63	APR 25, 2001	3.84	JUL 27, 2001	4.07
NOV 22	4.45	FEB 28	3.19	MAY 24	2.84	AUG 28	3.61
DEC 26	4.71	MAR 27	3.57	JUN 25	2.83	SEP 26	3.80
WATER YEAR 2001		HIGHEST	2.83	JUN 25, 2001	LOWEST	4.71	DEC 26, 2000



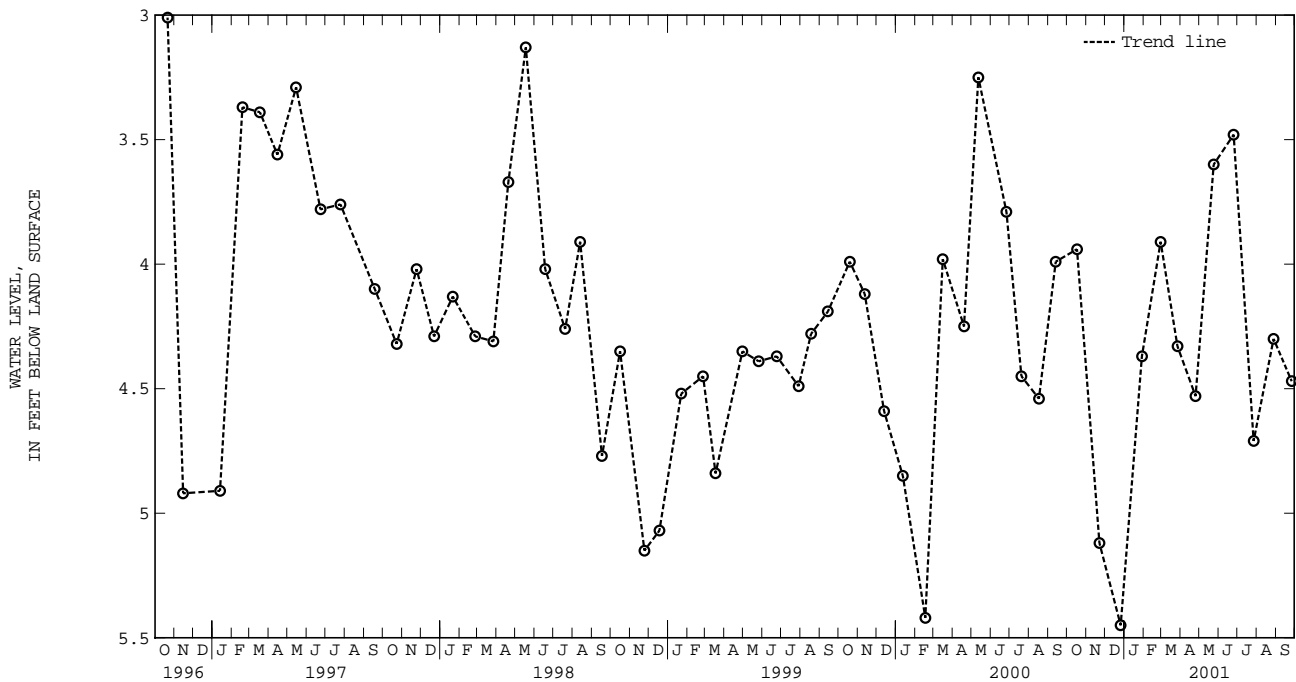
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

KENT COUNTY--Continued

WELL NUMBER.--KE Dc 91. SITE ID.--390626076083302. PERMIT NUMBER.--KE-88-0247.  
 LOCATION.--Lat 39°06'26", long 76°08'33", Hydrologic Unit 02060002, 1.0 mi south of Cliffs City, at Cliffs Wharf.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 155 ft; casing diameter 4 in., to 140 ft, and 150 to 155 ft; screen diameter 4 in. from 140 to 150 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.  
 DATUM.--Elevation of land surface is 4.64 ft above sea level.  
 Measuring Point: Top of metal sleeve, 2.46 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--October 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.01 ft below land surface, Oct. 21, 1996;  
 lowest measured, 5.45 ft below land surface, Dec. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	3.94	JAN 29, 2001	4.37	APR 25, 2001	4.53	JUL 27, 2001	4.71
NOV 22	5.12	FEB 28	3.91	MAY 24	3.60	AUG 28	4.30
DEC 26	5.45	MAR 27	4.33	JUN 25	3.48	SEP 26	4.47
WATER YEAR 2001 HIGHEST 3.48 JUN 25, 2001		LOWEST 5.45 DEC 26, 2000					



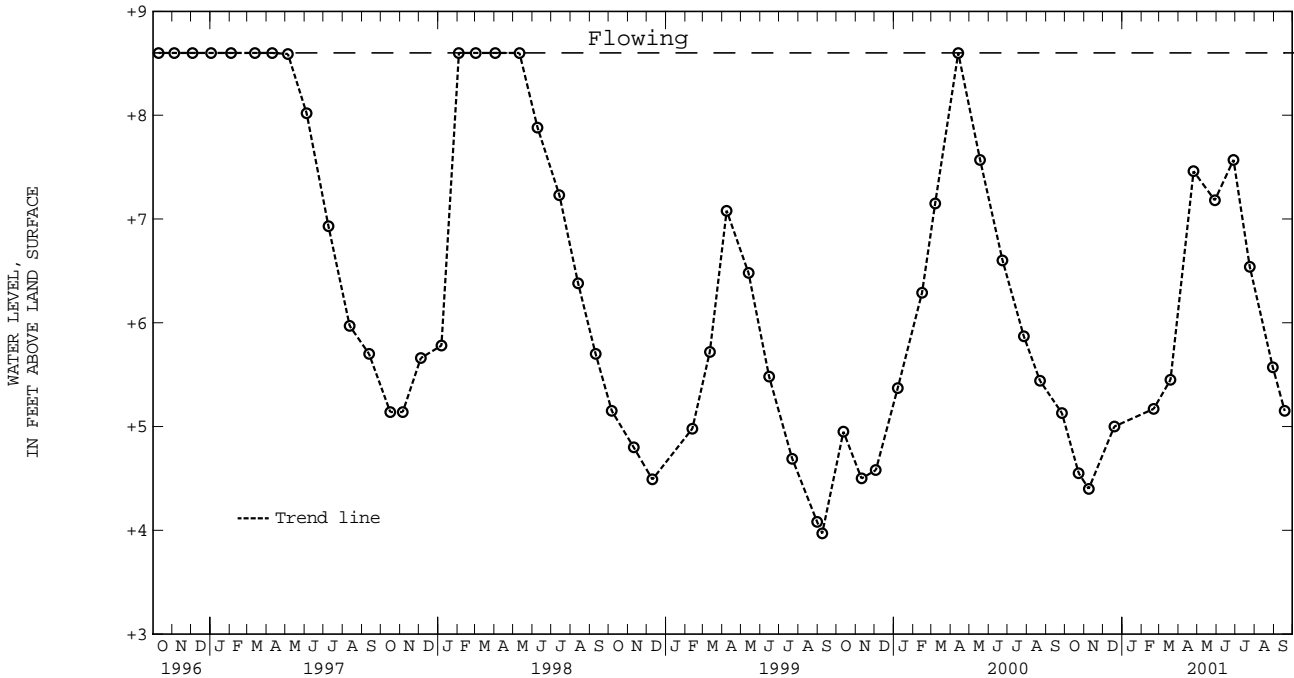
GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY

WELL NUMBER.--MO Cb 26. SITE ID.--391142077280601. PERMIT NUMBER.--MO-72-0191.  
 LOCATION.--Lat 39°11'42", long 77°28'06", Hydrologic Unit 02070008, 2 mi southwest of Dickerson, at Dickerson Regional Park.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Manassas Sandstone, Poolesville Member of Upper Triassic age. Aquifer code: 231MNSS.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 885 ft; casing diameter 6 in., to 38 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 220 ft above sea level.  
 Measuring point: Top of casing 8.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well,  
 PERIOD OF RECORD.--February 1991 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, flowing on Jan. 3, 1991, April 3, 1991, April 5, 1993, May 3, 1993, March 7, 1994, April 5, 1994, May 10, 1994, Jan. 29, 1996, Feb. 15, 1996, March 12, 1996, April 11, 1996, May 6, 1996, June 5, 1996, July 2, 1996, Aug. 1, 1996, Oct. 10, 1996, Nov. 4, 1996, Dec. 3, 1996, Jan. 2, 1997, Feb. 3, 1997, March 13, 1997, April 10, 1997, Feb. 3, 1998, March 2, 1998, April 2, 1998, May 11, 1998, and April 13, 2000; lowest measured, 3.97 ft above land surface, Sept. 8, 1999.

WATER LEVELS IN FEET ABOVE LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	+4.55	FEB 20, 2001	+5.17	MAY 29, 2001	+7.18	AUG 30, 2001	+5.57
NOV 08	+4.40	MAR 19	+5.45	JUN 28	+7.57	SEP 18	+5.15
DEC 19	+5.00	APR 25	+7.46	JUL 24	+6.54		
WATER YEAR 2001 HIGHEST +7.57		JUN 28, 2001		LOWEST +4.40		NOV 08, 2000	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Cc 14. SITE ID.--391314077224201.

LOCATION.--Lat 39°13'14", long 77°22'42", Hydrologic Unit 02070008, at Barnesville.

Owner: Shirley Hayes.

AQUIFER.--Ijamsville Formation of Paleozoic age. Aquifer code: 300IJMV.

WELL CHARACTERISTICS.--Dug, stone-lined, unused, water-table well, depth 46 ft; casing diameter 60 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 560 ft above sea level, from topographic map.

Measuring point: Top of wooden well cover, 3.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--November 1952 to current year.

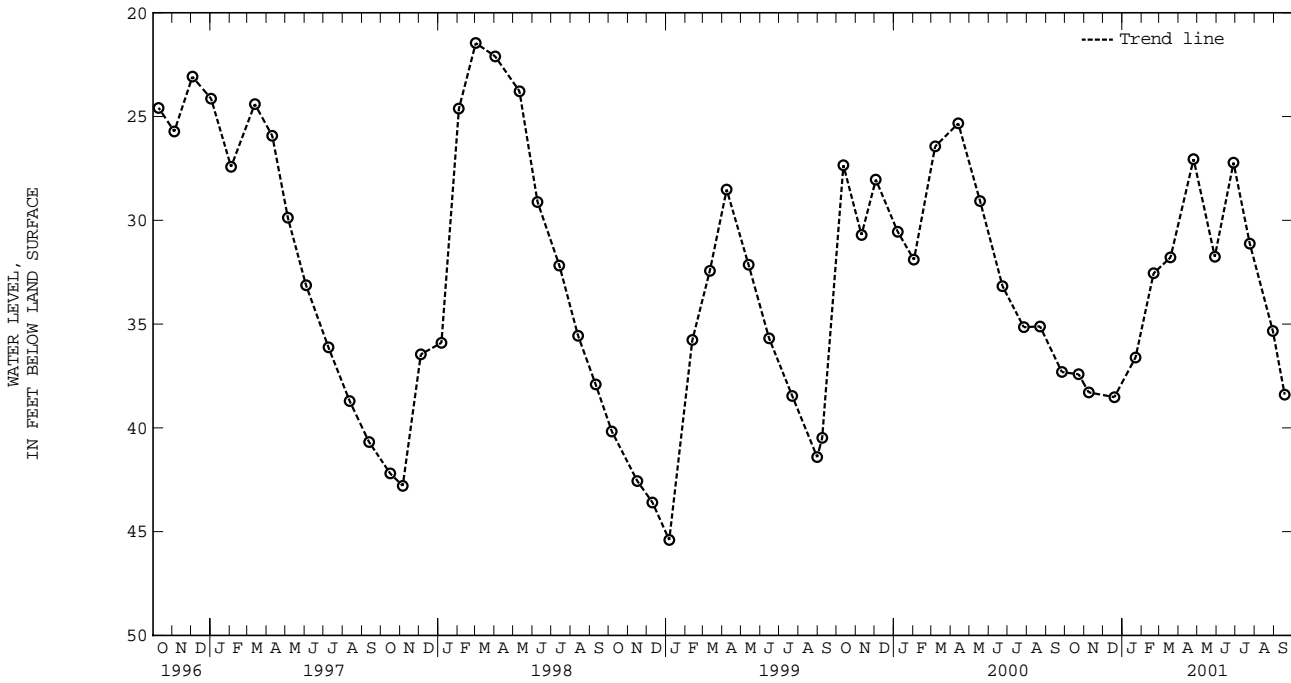
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.00 ft below land surface, April 5, 1993;

lowest measured, dry, on Dec. 2, 1957, Dec. 7, 1964, Dec. 6, 1965, Jan. 3, 1966, Feb. 2, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	37.42	JAN 22, 2001	36.61	APR 25, 2001	27.05	JUL 24, 2001	31.12
NOV 08	38.29	FEB 20	32.55	MAY 29	31.75	AUG 30	35.33
DEC 19	38.52	MAR 19	31.79	JUN 28	27.22	SEP 18	38.40

WATER YEAR 2001 HIGHEST 27.05 APR 25, 2001 LOWEST 38.52 DEC 19, 2000



## GROUND-WATER LEVELS IN MARYLAND--Continued

## MONTGOMERY COUNTY --Continued

WELL NUMBER.--MO Db 68. SITE ID.--390802077283801. PERMIT NUMBER.--MO-73-1869.  
 LOCATION.--Lat 39°08'02", long 77°28'38", Hydrologic Unit 0207008, south of Club Hollow Road, at the National Institutes of Health, Animal Center.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Balls Bluff Siltstone of Upper Triassic age. Aquifer code: 231BLBF.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 6 in., to 40 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from December 24, 1998 to current year.  
 DATUM.--Elevation of land surface is 260 ft above sea level, from topographic map.  
 Measuring Point: Top of shelter platform, 2.02 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby ground-water withdrawal. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--May 1978 to August 1980, June 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.12 ft below land surface, May 12, 1989; lowest measured, 41.76 ft below land surface, Sept. 9, 1999.

DAY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001											
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.86	21.77	24.10	23.57	25.43	24.83	---	---	37.13	26.83	34.13	24.49
2	22.87	21.56	24.21	23.70	25.27	24.32	---	---	36.44	26.54	33.59	23.88
3	23.20	22.23	24.22	23.55	24.61	23.93	---	---	34.33	25.39	31.06	23.07
4	23.23	22.53	24.22	23.34	24.43	23.73	---	---	34.00	24.52	30.72	22.66
5	23.28	22.43	23.67	23.14	24.78	24.30	---	---	34.19	24.19	32.04	22.36
6	23.79	23.05	23.99	23.04	24.93	24.63	---	---	34.90	24.54	31.39	22.68
7	23.19	22.49	24.20	23.68	25.03	24.65	---	---	35.20	24.88	33.21	23.00
8	22.79	22.18	24.29	23.50	25.39	25.03	---	---	35.32	23.74	32.52	23.18
9	22.60	21.99	24.07	23.54	25.39	24.51	---	---	34.45	24.73	32.50	22.84
10	22.86	21.77	23.98	23.16	24.67	24.00	---	---	32.66	23.70	31.01	22.91
11	23.33	22.34	23.73	22.94	24.49	23.68	---	---	32.62	23.47	30.58	22.60
12	23.42	22.48	23.54	22.99	24.85	23.73	---	---	34.10	23.31	32.79	22.54
13	23.28	22.54	23.89	22.82	24.77	24.15	---	---	34.44	23.70	33.21	22.68
14	22.87	22.32	24.24	23.49	24.64	23.95	---	---	33.66	23.49	33.11	23.87
15	22.71	22.03	24.77	24.24	24.65	24.02	---	---	33.09	23.13	33.00	23.46
16	22.95	21.96	24.84	24.25	24.12	23.29	---	---	33.68	23.36	35.50	23.23
17	23.01	22.30	25.01	24.58	23.55	22.90	---	---	31.10	22.53	33.72	25.01
18	23.00	22.32	25.13	25.01	23.57	22.86	---	---	31.51	22.73	33.74	24.69
19	23.01	22.35	25.22	24.66	---	---	---	---	31.90	22.83	34.69	24.29
20	23.23	22.34	25.13	24.72	---	---	---	---	33.82	22.80	34.57	23.54
21	23.05	22.47	25.16	24.82	---	---	---	---	33.22	23.11	33.25	23.48
22	22.80	22.24	25.34	25.14	---	---	---	---	33.39	23.45	32.91	22.63
23	23.10	22.16	25.49	25.34	---	---	---	---	33.86	23.24	33.24	22.41
24	23.23	22.30	25.56	25.44	---	---	---	---	32.34	23.25	31.01	21.83
25	23.40	22.63	25.56	24.93	---	---	---	---	32.44	23.25	30.21	21.34
26	23.54	22.61	25.03	24.52	---	---	---	---	34.72	23.12	32.08	21.21
27	23.56	22.94	24.97	24.38	---	---	---	---	35.20	25.01	31.66	21.74
28	23.22	22.68	25.32	24.97	---	---	---	---	34.00	24.77	31.52	21.96
29	22.84	22.33	25.34	24.70	---	---	---	---	---	---	31.89	22.26
30	23.41	22.23	25.38	25.06	---	---	---	---	---	---	31.89	22.05
31	23.77	22.76	---	---	---	---	---	---	---	---	29.81	21.70
MONTH	23.79	21.56	25.56	22.82	25.43	22.86	---	---	37.13	22.53	35.50	21.21



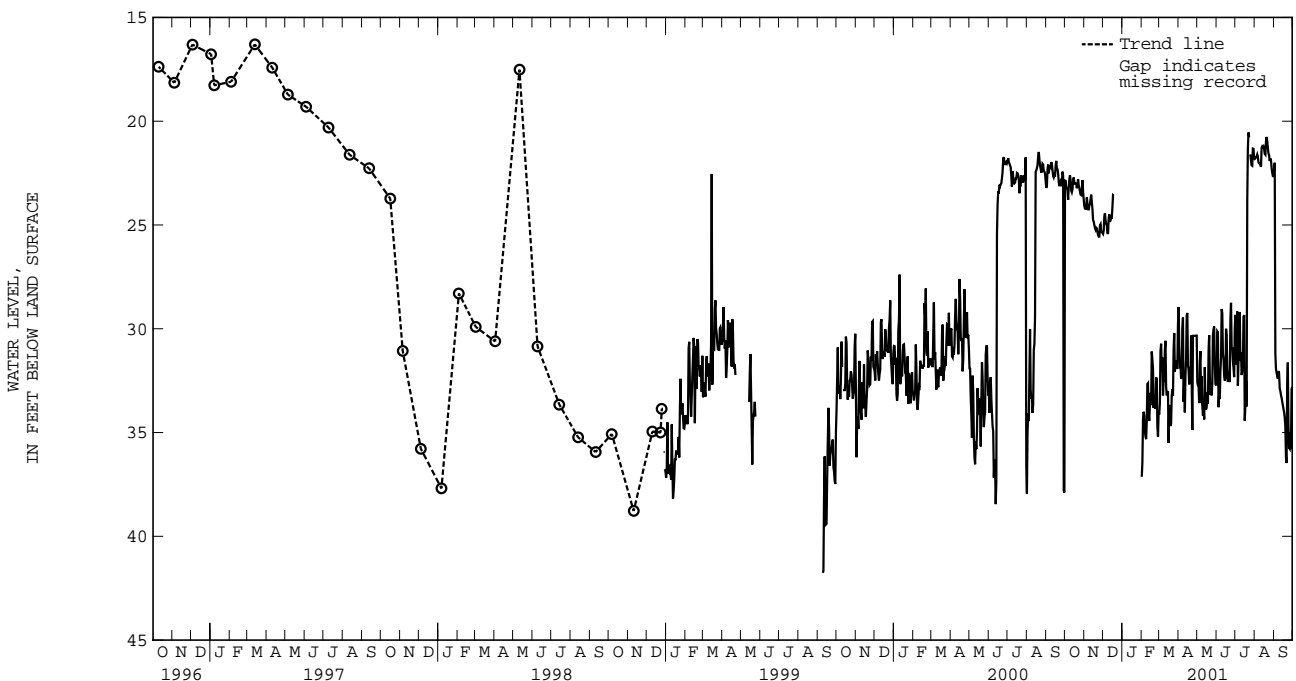
MONTGOMERY COUNTY --Continued

MO Db 68--Continued

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

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	28.95	21.15	32.58	23.12	32.40	22.76	29.33	21.43	21.82	21.04	22.30	21.76
2	30.74	20.99	32.73	23.26	30.13	22.23	31.71	21.25	21.79	20.95	22.00	21.48
3	31.79	22.11	32.79	23.12	30.18	22.02	30.97	21.34	21.73	21.02	31.19	21.38
4	31.75	21.83	33.58	23.33	33.78	22.44	29.17	21.27	21.71	21.09	31.92	22.96
5	32.42	23.08	31.66	23.66	33.13	22.98	32.75	20.98	21.61	21.01	32.13	24.56
6	32.21	22.77	31.07	23.38	33.39	23.44	31.50	21.46	21.73	20.93	32.27	25.01
7	30.03	21.99	33.58	23.27	32.04	22.92	30.01	22.03	21.97	21.46	32.41	25.59
8	29.46	21.64	32.29	23.58	31.35	22.11	29.19	21.52	22.02	21.25	32.04	24.82
9	33.52	21.60	33.69	23.27	29.05	21.11	31.54	21.24	22.02	21.44	32.13	24.51
10	32.32	22.57	34.18	23.73	29.24	20.84	31.14	21.10	22.10	21.53	32.87	24.55
11	34.03	22.61	33.65	23.36	31.20	20.71	32.23	21.34	22.20	21.05	33.00	24.75
12	32.25	22.53	34.37	21.76	31.45	21.19	32.02	21.84	21.28	20.46	33.19	25.79
13	31.45	21.72	31.85	23.50	32.28	21.79	31.78	21.64	21.21	20.21	33.33	25.76
14	29.35	21.36	33.62	23.13	32.50	22.15	29.43	21.88	21.25	20.47	33.51	26.17
15	29.24	21.15	33.89	23.65	32.40	22.18	29.34	21.47	21.21	20.48	33.68	26.76
16	31.75	20.97	33.77	23.48	30.00	21.90	34.43	21.60	21.34	20.47	33.85	26.66
17	31.96	22.54	33.08	23.50	30.32	21.39	33.66	23.50	21.57	20.85	34.02	26.70
18	32.68	22.97	33.62	23.59	31.85	21.80	32.53	22.66	21.61	20.58	34.27	25.50
19	31.85	23.00	31.05	23.17	32.56	22.14	33.74	22.59	20.98	20.26	34.69	24.68
20	32.61	22.92	30.31	22.66	32.04	21.97	23.77	21.22	20.76	19.98	36.17	25.10
21	30.33	22.18	32.25	22.47	32.36	22.13	21.29	20.26	20.96	19.95	36.47	25.67
22	32.63	21.92	33.18	22.48	32.57	22.23	20.54	19.97	21.28	20.37	32.77	24.75
23	34.88	23.49	33.05	22.84	29.53	21.40	20.77	19.84	21.55	21.01	31.63	24.16
24	30.34	24.98	33.21	23.32	28.75	20.97	---	---	21.64	21.03	34.62	23.80
25	30.34	24.16	32.66	22.85	31.01	20.57	21.60	21.19	21.92	21.39	35.73	24.53
26	30.34	23.89	30.31	22.37	30.89	21.04	21.92	21.60	21.79	21.25	35.78	24.48
27	30.34	23.34	30.01	21.74	31.54	21.26	22.13	21.92	21.89	21.33	35.05	24.33
28	30.34	24.59	29.89	21.68	31.90	21.61	22.15	21.02	22.24	21.89	35.80	24.15
29	30.33	23.33	31.72	21.49	32.33	21.74	21.32	20.47	22.48	22.24	32.91	23.69
30	30.33	23.09	32.66	22.29	29.98	21.93	21.33	20.25	22.64	22.48	32.80	23.36
31	---	---	32.73	22.55	---	---	21.78	21.31	22.64	21.86	---	---
MONTH	34.88	20.97	34.37	21.49	33.78	20.57	34.43	19.84	22.64	19.95	36.47	21.38
YEAR	37.13	19.84										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

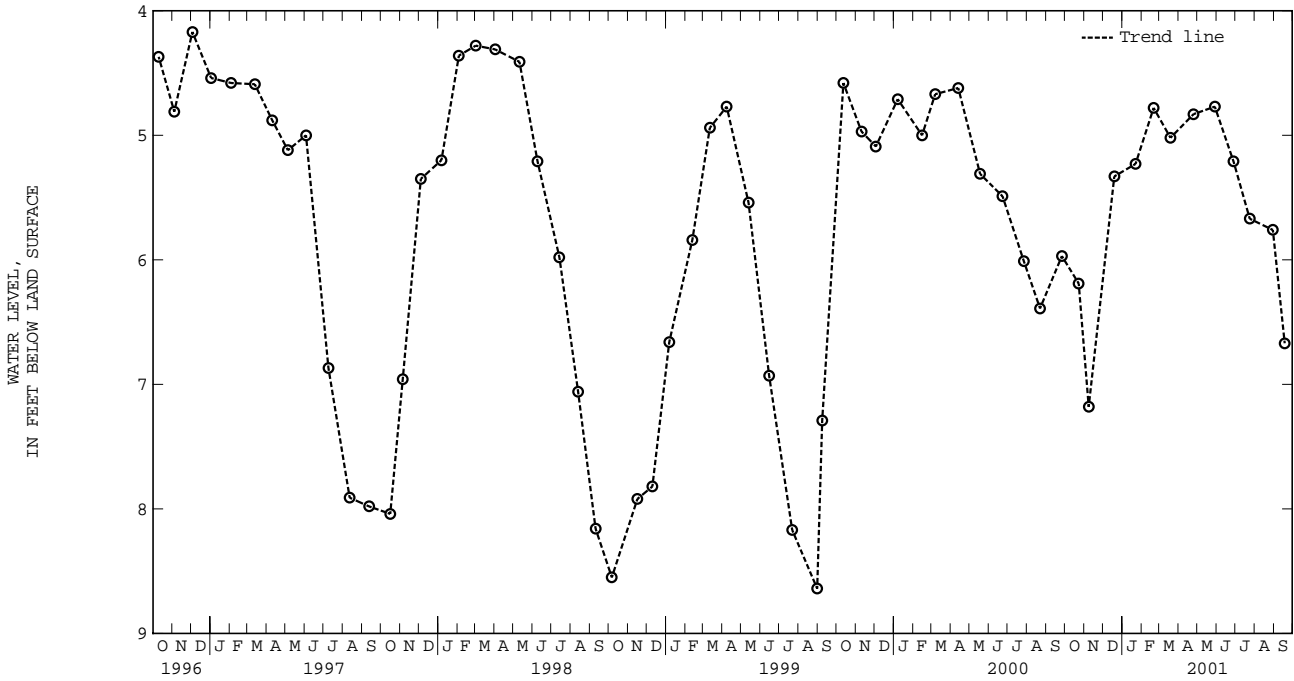
GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Dc 59. SITE ID.--390917077244401. PERMIT NUMBER.--MO-73-1896.  
 LOCATION.--Lat 39°09'17", long 77°24'44", Hydrologic Unit 02070008, 1 mi north of Poolesville, near Jerusalem Road.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Manassas Sandstone, Poolesville Member of Upper Triassic age. Aquifer code: 231MNSS.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 260 ft; casing diameter 6 in., to 42 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 370 ft above sea level.  
 Measuring point: Top of casing, 3.94 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well,  
 PERIOD OF RECORD.--June 1990 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.10 ft below land surface, March 7, 1994;  
 lowest measured, 10.70 ft below land surface, Sept. 8, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	6.19	JAN 22, 2001	5.23	APR 25, 2001	4.83	JUL 24, 2001	5.67
NOV 08	7.18	FEB 20	4.78	MAY 29	4.77	AUG 30	5.76
DEC 19	5.33	MAR 19	5.02	JUN 28	5.21	SEP 18	6.67
WATER YEAR 2001 HIGHEST		4.77	MAY 29, 2001 LOWEST		7.18	NOV 08, 2000	



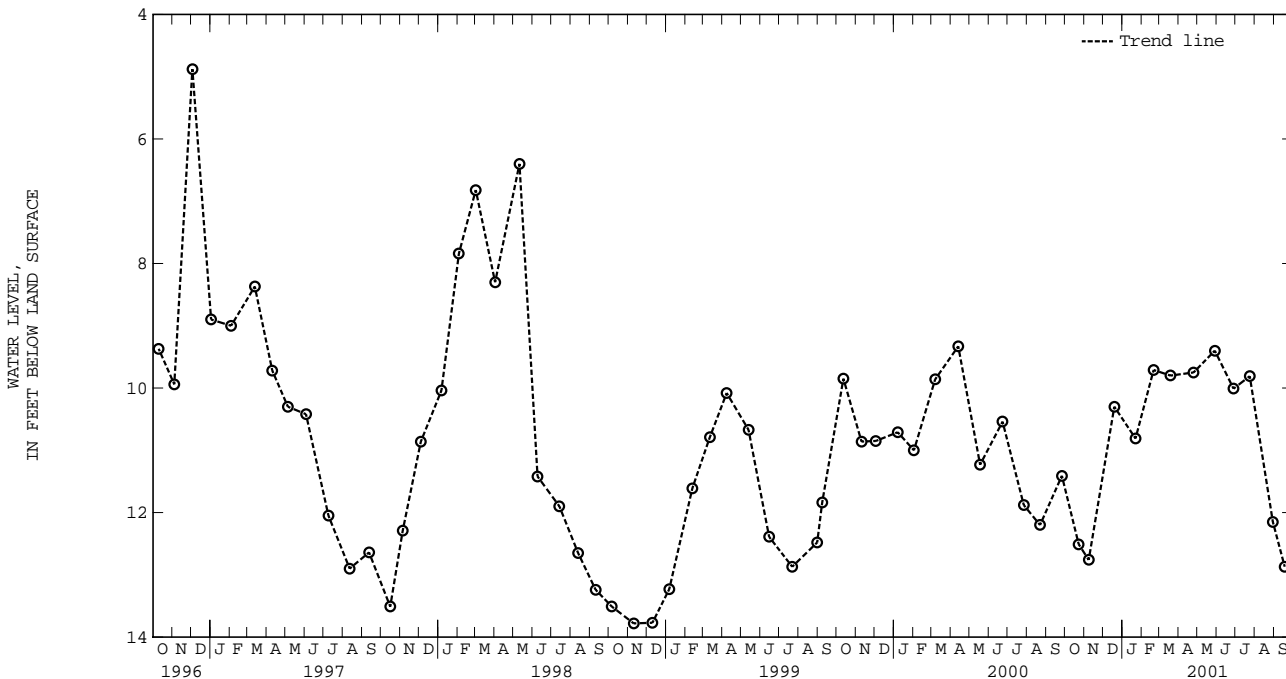
MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ec 10. SITE ID.--390451077245901. PERMIT NUMBER.--MO-73-2833.  
 LOCATION.--Lat 39°04'51", long 77°24'59", Hydrologic Unit 02070008, 3 mi southeast of Poolesville nr Sycamore Landing Road at McKee Beshler Wildlife Management Area.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Balls Bluff Siltstone of Upper Triassic age. Aquifer code: 231BLEF.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 855 ft; casing diameter 8 in., to 26 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 200 ft above sea level.  
 Measuring point: Top of casing, 1.70 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well,  
 PERIOD OF RECORD.--August 1990 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.70 ft below land surface, Jan. 29, 1996.  
 lowest measured, 14.52 ft below land surface, July 8, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 2000	12.51	JAN 22, 2001	10.81	APR 25, 2001	9.75	JUL 24, 2001	9.81
NOV 08	12.76	FEB 20	9.71	MAY 29	9.40	AUG 30	12.15
DEC 19	10.30	MAR 19	9.80	JUN 28	10.01	SEP 18	12.87

WATER YEAR 2001      HIGHEST    9.40    MAY 29, 2001      LOWEST    12.87    SEP 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

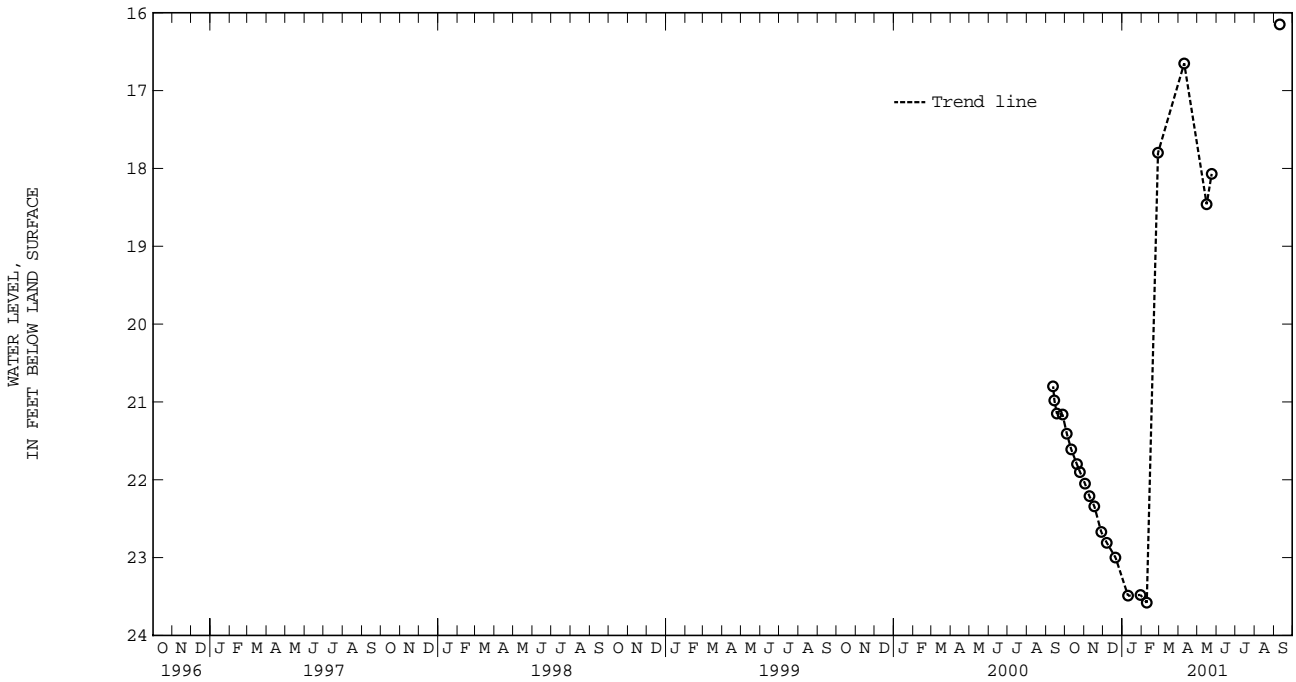
GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Eg 27. SITE ID.--390008077054801. PERMIT NUMBER.--MO-AM-41U.  
 LOCATION.--Lat 39°00'08", long 77°05'49", Hydrologic Unit 02070010.  
 Owner: Washington Metro Area Transit Authority.  
 AQUIFER.--Georgetown Mafic complex of Paleozoic age. Aquifer code: 300GRGN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 150 ft; casing diameter 1.5 in.,  
 to 147 ft; screen diameter 1.5 in. from 147 to 150 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 268.9 ft above sea level.  
 Measuring point: Top of casing, 0.10 ft above land surface.  
 REMARKS.--Washington Metro Area Transit Authority Project observation well.  
 PERIOD OF RECORD.--September 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.15 ft below land surface, Sept. 10, 2001,  
 lowest measured, 23.58 ft below land surface, Feb. 9, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	21.41	NOV 09, 2000	22.21	JAN 10, 2001	23.49	MAY 16, 2001	18.46
11	21.61	17	22.34	30	23.48	24	18.07
20	21.80	28	22.67	FEB 09	23.58	SEP 10	16.15
25	21.90	DEC 07	22.81	27	17.80		
NOV 02	22.05	21	23.00	APR 10	16.65		
WATER YEAR 2001		HIGHEST	16.15	SEP 10, 2001	LOWEST	23.58	FEB 09, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Eg 28. SITE ID.--390008077052701. PERMIT NUMBER.--MO-94-0540.

LOCATION.--Lat 39°00'08", long 77°05'27", Hydrologic Unit 02070010.

Owner: U.S. Navy.

AQUIFER.--Sykesville Formation. Aquifer code: 360SKVL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 40 ft; casing diameter 4 in., to 15 ft; screen diameter 4 in. from 15 to 40 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 301.1 ft above sea level.

Measuring point: Top of casing, 0.40 ft above land surface.

REMARKS.--Washington Metro Area Transit Authority Project observation well.

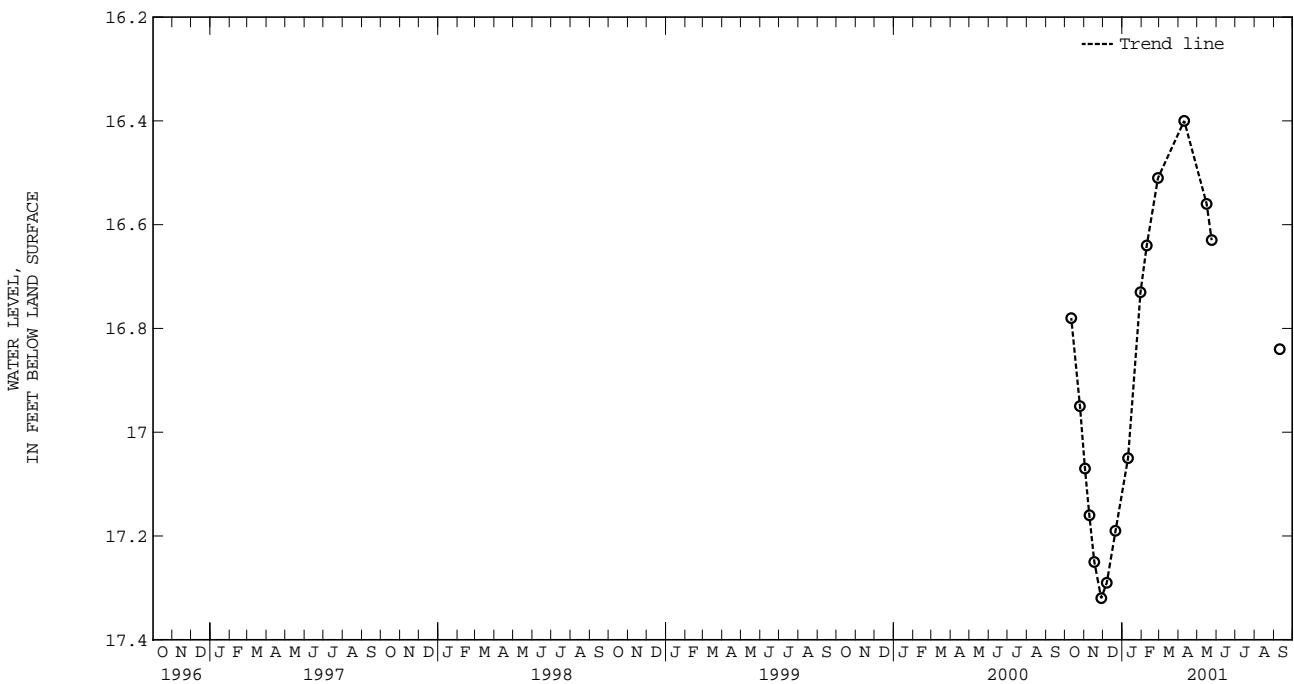
PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.40 ft below land surface, April 10, 2001; lowest measured, 17.32 ft below land surface, Nov. 28, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11, 2000	16.78	NOV 17, 2000	17.25	JAN 10, 2001	17.05	APR 10, 2001	16.40
25	16.95	28	17.32	30	16.73	MAY 16	16.56
NOV 02	17.07	DEC 07	17.29	FEB 09	16.64	24	16.63
09	17.16	21	17.19	27	16.51	SEP 10	16.84

WATER YEAR 2001 HIGHEST 16.40 APR 10, 2001 LOWEST 17.32 NOV 28, 2000



GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Eh 20. SITE ID.--390434076573002.

LOCATION.--Lat 39°04'34", long 76°57'30", Hydrologic Unit 02070010, at MD Rt. 196 and Fairland Rd., Fairland.

Owner: Texaco Oil Co.

AQUIFER.--Loch Raven Formation of Cambrian age. Aquifer code: 370LCRV.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 102.9 ft; casing diameter 6 in., to 50 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 405 ft above sea level, from topographic map.

Measuring point: Top of casing at land-surface datum.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1955 to current year.

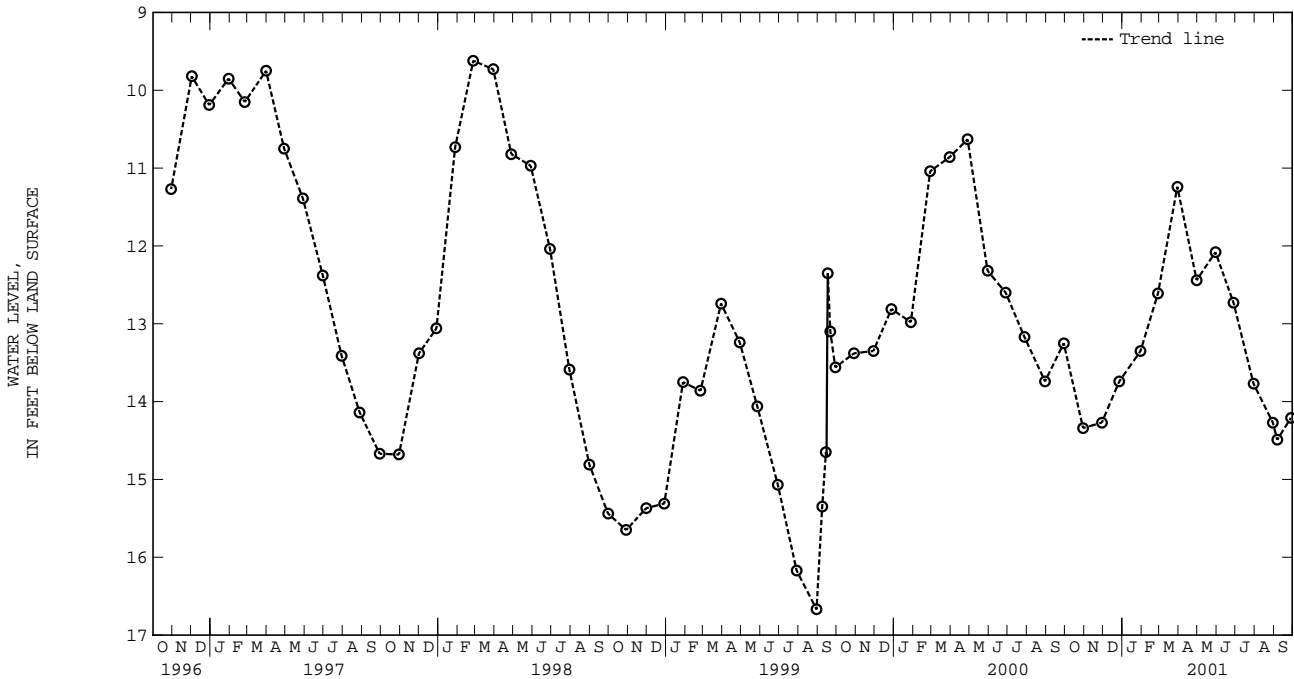
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.39 ft below land surface, June 25, 1972;

lowest measured, 16.67 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	14.34	FEB 27, 2001	12.61	JUN 28, 2001	12.73	SEP 28, 2001	14.21
NOV 29	14.27	MAR 30	11.24	JUL 30	13.77		
DEC 27	13.74	APR 30	12.44	AUG 30	14.27		
JAN 30, 2001	13.35	MAY 30	12.08	SEP 06	14.49		

WATER YEAR 2001 HIGHEST 11.24 MAR 30, 2001 LOWEST 14.49 SEP 06, 2001



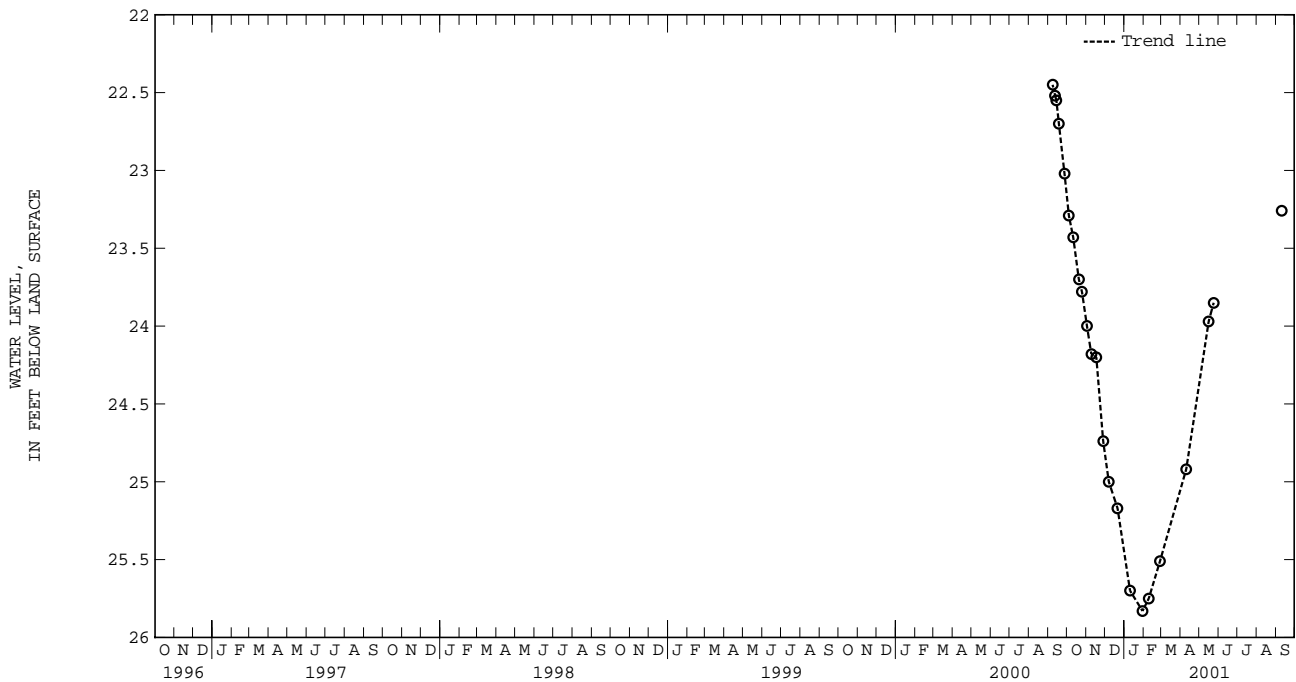
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ff 21. SITE ID.--385937077054701. PERMIT NUMBER.--MO-A-74.  
 LOCATION.--Lat 38°59'37", long 77°05'47", Hydrologic Unit 02070010.  
 Owner: Washington Metro Area Transit Authority.  
 AQUIFER.--Georgetown Mafic complex of Paleozoic age. Aquifer code: 300GRGN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 135 ft; casing diameter 1.5 in.,  
 to 132 ft; screen diameter 1.5 in. from 132 to 135 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 329.9 ft above sea level.  
 Measuring point: Top of casing, 0.15 ft above land surface.  
 REMARKS.--Washington Metro Area Transit Authority Project observation well.  
 PERIOD OF RECORD.--September 2000 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.45 ft below land surface, Sept. 8, 2000;  
 lowest measured, 25.83 ft below land surface, Jan. 30, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	23.29	NOV 09, 2000	24.18	JAN 10, 2001	25.70	MAY 16, 2001	23.97
11	23.43	17	24.20	30	25.83	24	23.85
20	23.70	28	24.74	FEB 09	25.75	SEP 10	23.26
25	23.78	DEC 07	25.00	27	25.51		
NOV 02	24.00	21	25.17	APR 10	24.92		
WATER YEAR 2001 HIGHEST 23.26		SEP 10, 2001		LOWEST 25.83		JAN 30, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ff 22. SITE ID.--385951077054701. PERMIT NUMBER.--MO-A-79.

LOCATION.--Lat 38°59'51", long 77°05'47", Hydrologic Unit 02070010.

Owner: Washington Metro Area Transit Authority.

AQUIFER.--Georgetown Mafic complex of Paleozoic age. Aquifer code: 300GRGN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 140 ft; casing diameter 1.5 in., to 137 ft; screen diameter 1.5 in. from 137 to 140 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 320.7 ft above sea level.

Measuring point: Top of casing, at land surface.

REMARKS.--Washington Metro Area Transit Authority Project observation well.

PERIOD OF RECORD.--September 2000 to current year.

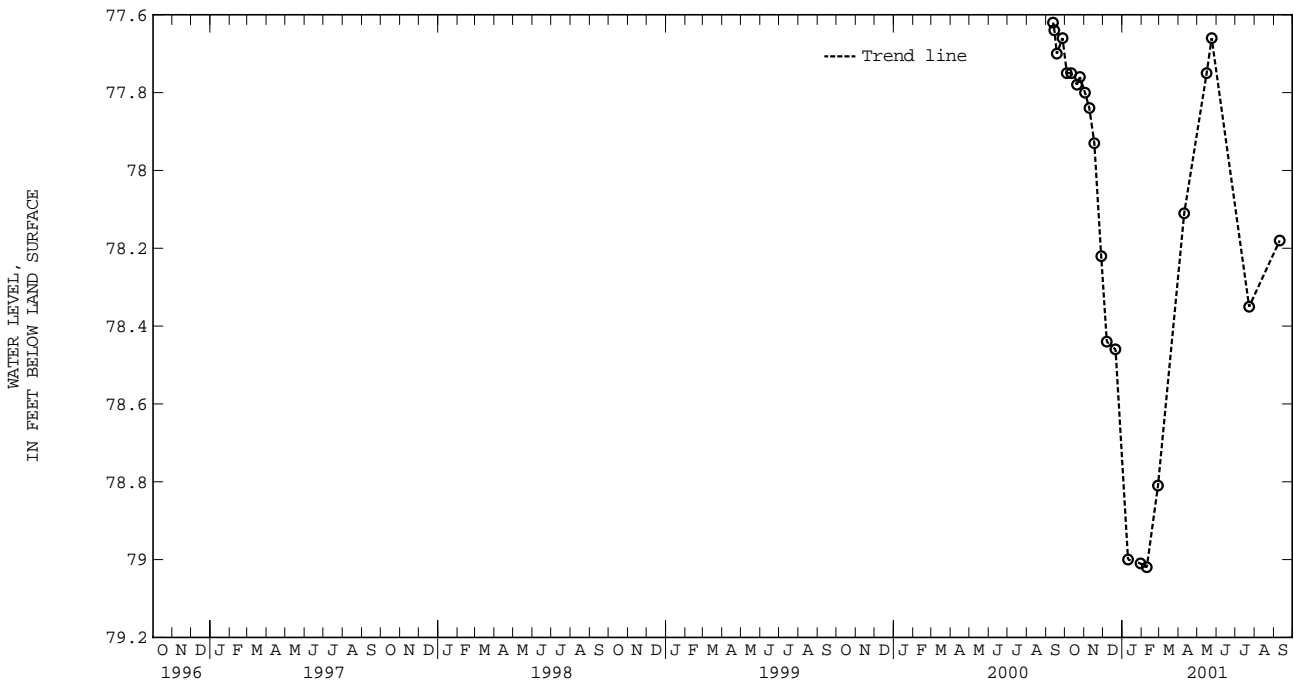
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 77.62 ft below land surface, Sept. 12, 2000;

lowest measured, 79.02 ft below land surface, Feb. 9, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	77.75	NOV 09, 2000	77.84	JAN 10, 2001	79.00	MAY 16, 2001	77.75
11	77.75	17	77.93	30	79.01	24	77.66
20	77.78	28	78.22	FEB 09	79.02	JUL 23	78.35
25	77.76	DEC 07	78.44	27	78.81	SEP 10	78.18
NOV 02	77.80	21	78.46	APR 10	78.11		

WATER YEAR 2001 HIGHEST 77.66 MAY 24, 2001 LOWEST 79.02 FEB 09, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ff 23. SITE ID.--385828077065301. PERMIT NUMBER.--MO-73-3188.

LOCATION.--Lat 38°58'28", long 77°06'53", Hydrologic Unit 02070010.

Owner: Kenwood Golf and Country Club.

AQUIFER.--Sykesville Formation. Aquifer code: 360SKVL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 500 ft; casing diameter 8 in., to 43 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 342.3 ft above sea level.

Measuring point: Top of casing, 2.20 ft above land surface.

REMARKS.--Washington Metro Area Transit Authority Project observation well.

PERIOD OF RECORD.--October 2000 to current year.

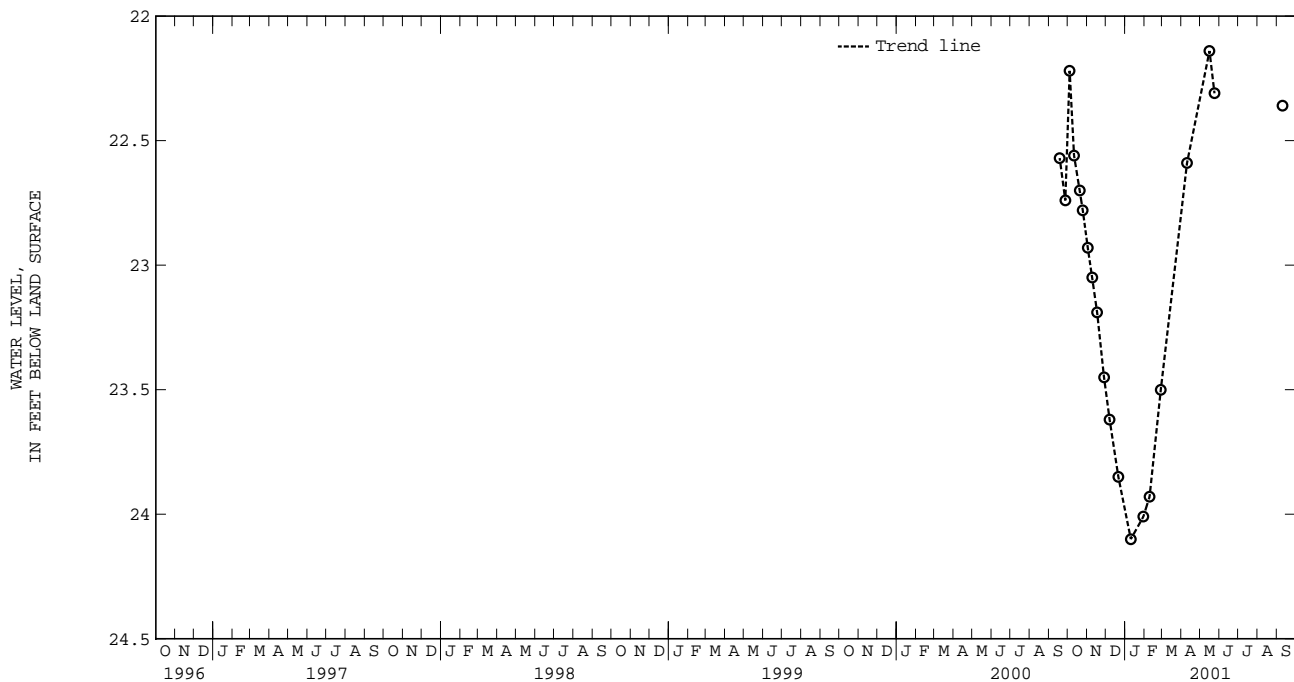
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.14 ft below land surface, May 16, 2001.

lowest measured, 24.10 ft below land surface, Jan. 10, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 2000	22.22	NOV 09, 2000	23.05	JAN 10, 2001	24.10	MAY 16, 2001	22.14
11	22.56	17	23.19	30	24.01	24	22.31
20	22.70	28	23.45	FEB 09	23.93	SEP 10	22.36
25	22.78	DEC 07	23.62	27	23.50		
NOV 02	22.93	21	23.85	APR 10	22.59		

WATER YEAR 2001 HIGHEST 22.14 MAY 16, 2001 LOWEST 24.10 JAN 10, 2001





MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ff 25. SITE ID.--385908077051201. PERMIT NUMBER.--MO-92-0268.

LOCATION.--Lat 38°59'08", long 77°05'12", Hydrologic Unit 02070010.

Owner: Riviera of Chevy Chase.

AQUIFER.--Sykesville Formation. Aquifer code: 360SKVL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 44 ft; casing diameter 4 in., to 24 ft; screen diameter 4 in. from 24 to 44 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 323.00 ft above sea level.

Measuring point: Top of casing, 0.15 ft above land surface.

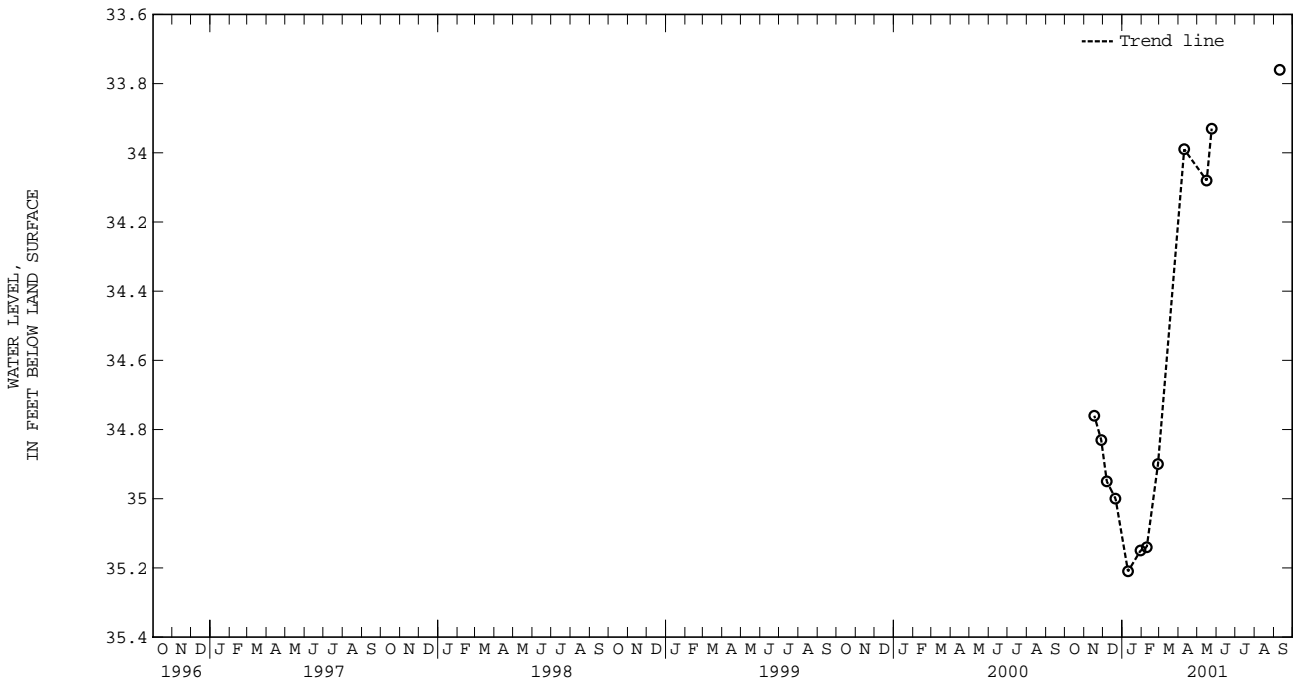
REMARKS.--Washington Metro Area Transit Authority Project observation well.

PERIOD OF RECORD.--November 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.76 ft below land surface, Sept. 10, 2001; lowest measured, 35.21 ft below land surface, Jan. 10, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 17, 2000	34.76	DEC 21, 2000	35.00	FEB 09, 2001	35.14	MAY 16, 2001	34.08
28	34.83	JAN 10, 2001	35.21	27	34.90	24	33.93
DEC 07	34.95	30	35.15	APR 10	33.99	SEP 10	33.76
WATER YEAR 2001		HIGHEST	33.76	SEP 10, 2001	LOWEST	35.21	JAN 10, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ff 26. SITE ID.--385925077054301. PERMIT NUMBER.--MO-A-71.

LOCATION.--Lat 38°59'25", long 77°05'43", Hydrologic Unit 02070010.

Owner: Washington Metro Area Transit Authority..

AQUIFER.--Sykesville Formation. Aquifer code: 360SKVL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 150 ft; casing diameter 1.5 in., to 147 ft; screen diameter 1.5 in from 147 to 150 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 352.01 ft above sea level.

Measuring point: Top of casing, 0.09 ft above land surface.

REMARKS.--Washington Metro Area Transit Authority Project observation well.

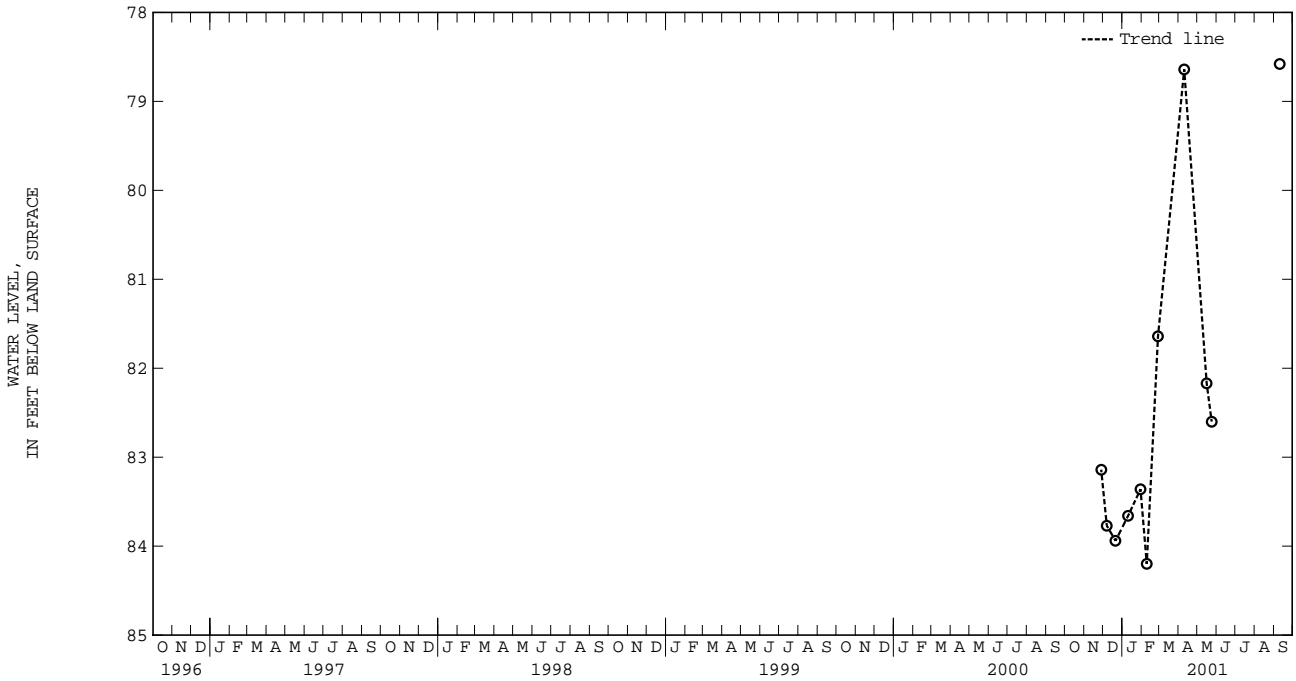
PERIOD OF RECORD.--November 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.58 ft below land surface, Sept. 10, 2001.

lowest measured, 84.20 ft below land surface, Feb. 9, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 28, 2000	83.14	JAN 10, 2001	83.66	FEB 27, 2001	81.64	MAY 24, 2001	82.60
DEC 07	83.77	30	83.36	APR 10	78.64	SEP 10	78.58
21	83.94	FEB 09	84.20	MAY 16	82.17		
WATER YEAR 2001		HIGHEST	78.58	SEP 10, 2001	LOWEST	84.20	FEB 09, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

PRINCE GEORGES COUNTY

WELL NUMBER.--PG Bc 16. SITE ID.--390151076561501.

LOCATION.--Lat 39°01'51", long 76°56'15", Hydrologic Unit 02070010, at National Agricultural Research Center, Beltsville.

Owner: U.S. Department of Agriculture.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Dug brick-lined, unused, water-table well, measured depth 27.4 ft; casing diameter 40 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from Oct. 31, 1962 to Feb. 9, 1965.

DATUM.--Elevation of land surface is 190 ft above sea level, from topographic map.

Measuring point: Top of steel cover, 0.10 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--September 1962 to current year.

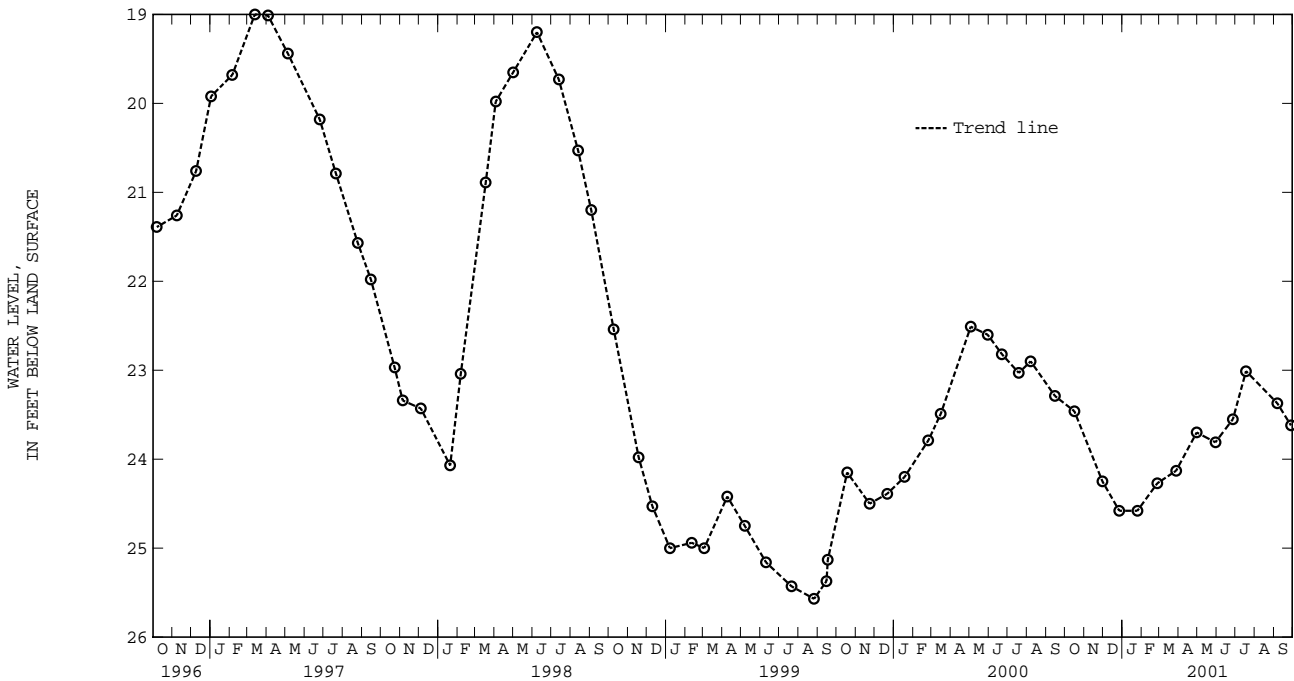
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.26 ft below land surface, July 6, 1972;

lowest measured, 26.46 ft below land surface, July 8, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 2000	23.46	JAN 25, 2001	24.58	APR 30, 2001	23.70	JUL 18, 2001	23.01
NOV 30	24.25	FEB 26	24.27	MAY 30	23.81	SEP 06	23.37
DEC 27	24.58	MAR 28	24.13	JUN 27	23.55	28	23.62

WATER YEAR 2001 HIGHEST 23.01 JUL 18, 2001 LOWEST 24.58 DEC 27, 2000 JAN 25, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG De 21. SITE ID.--385130076465501. PERMIT NUMBER.--PG-02-2875.

LOCATION.--Lat 38°51'30", long 76°46'55", Hydrologic Unit 02060006, Agricultural Experiment Station, Southern Maryland Research and Educational Facility, at Oak Grove.

Owner: University of Maryland.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 155 ft; casing diameter 6 in., to 150 ft; screen diameter 6 in. from 150 to 155 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from May 26, 1958 to Jan. 27, 1965.

DATUM.--Elevation of land surface is 95.76 ft above sea level.

Measuring point: Top of casing, 0.90 ft above land surface.

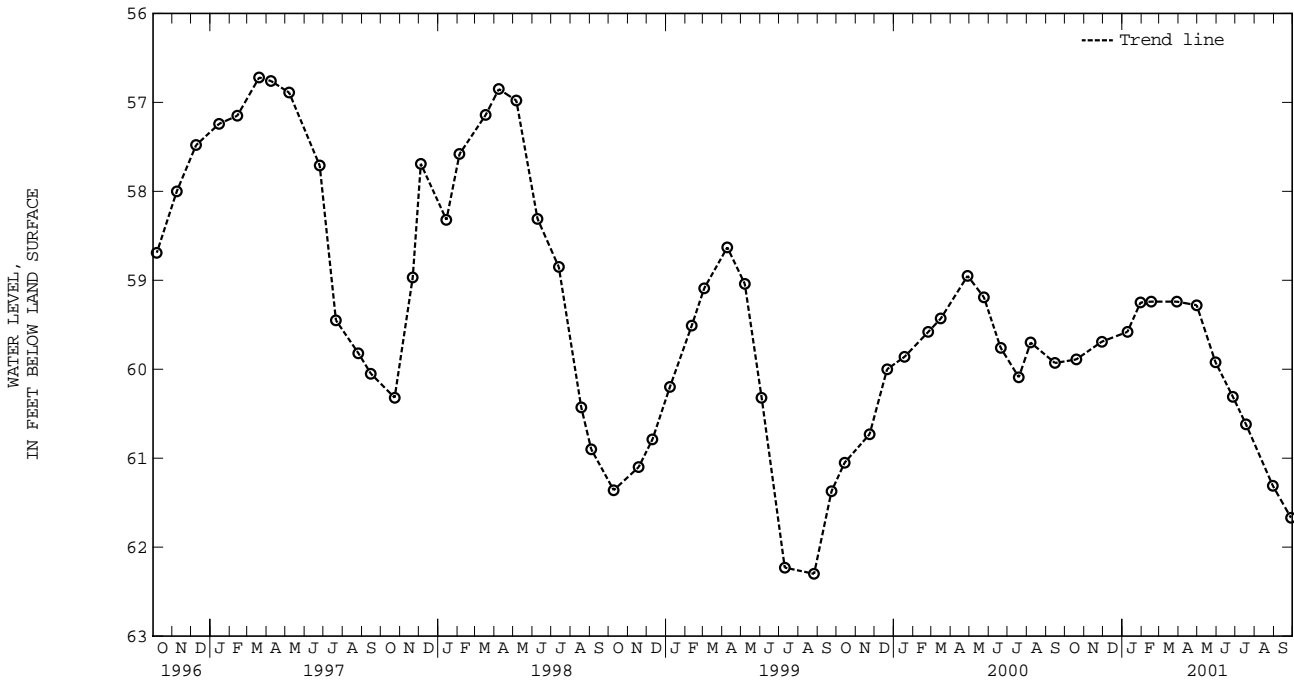
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.39 ft below land surface, May 26, and 29, 1958; lowest measured, 62.30 ft below land surface, Aug. 26, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	59.89	JAN 30, 2001	59.25	APR 30, 2001	59.28	JUL 18, 2001	60.62
NOV 29	59.69	FEB 16	59.24	MAY 30	59.92	AUG 30	61.31
JAN 09, 2001	59.58	MAR 29	59.24	JUN 27	60.31	SEP 28	61.67
WATER YEAR 2001		HIGHEST	59.24	FEB 16, 2001	MAR 29, 2001	LOWEST	61.67
							SEP 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Df 2. SITE ID.--385152076431301.

LOCATION.--Lat 38°51'52", long 76°43'13", Hydrologic Unit 02060006, near Leeland.

Owner: A. R. Rogers.

AQUIFER.--Nanjemoy Formation of Lower Eocene age. Aquifer code: 124NNJM.

WELL CHARACTERISTICS.--Dug, unused, artesian well, depth 81.5 ft; diameter of concrete-ring lining 48 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 145 ft above sea level, from topographic map.

Measuring point: Edge of steel cover, 3.00 ft below land surface.

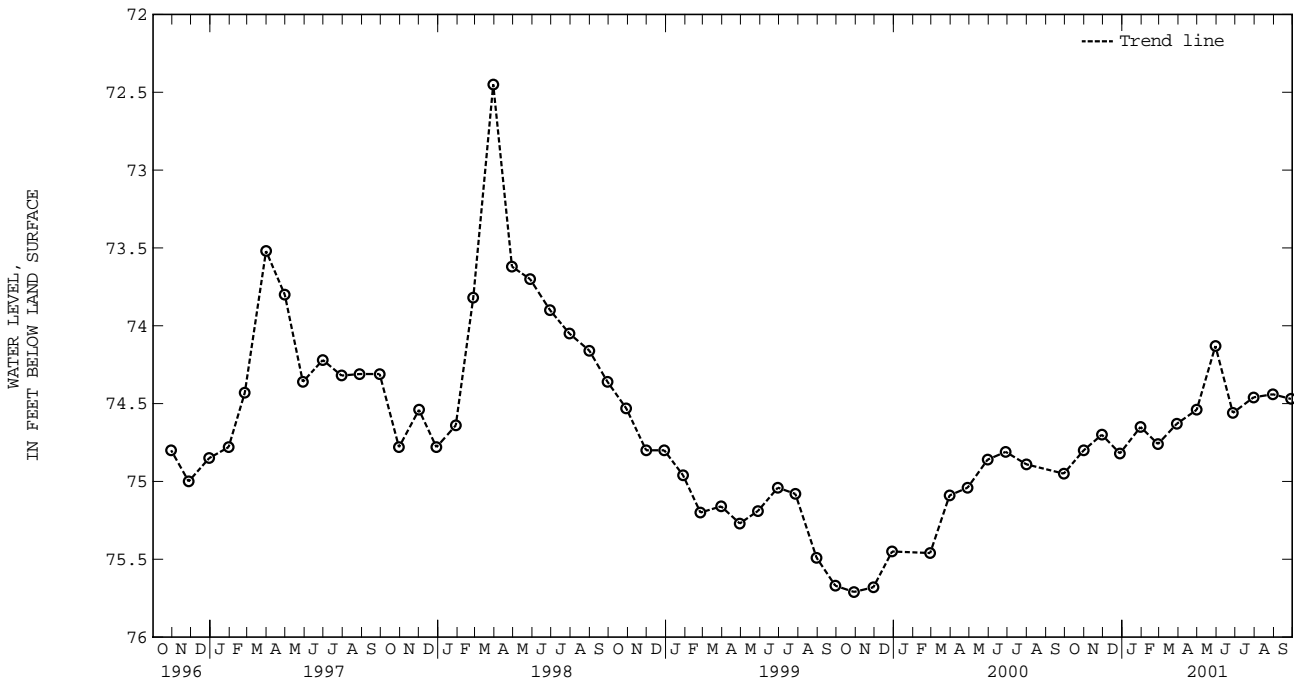
REMARKS.--Maryland Water-Level Network observation well. Water level rise in summer of 1990 to 67.78 ft. below land surface was due to leaking water storage tank above well.

PERIOD OF RECORD.--November 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 67.78 ft below land surface, Sept. 7, 1990, (See Remarks); lowest measured, 75.96 ft below land surface, Nov. 19, 1951.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	74.80	JAN 30, 2001	74.65	APR 30, 2001	74.54	JUL 30, 2001	74.46
NOV 29	74.70	FEB 27	74.76	MAY 30	74.13	AUG 30	74.44
DEC 28	74.82	MAR 29	74.63	JUN 27	74.56	SEP 28	74.47
WATER YEAR 2001		HIGHEST	74.13	MAY 30, 2001	LOWEST	74.82	DEC 28, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

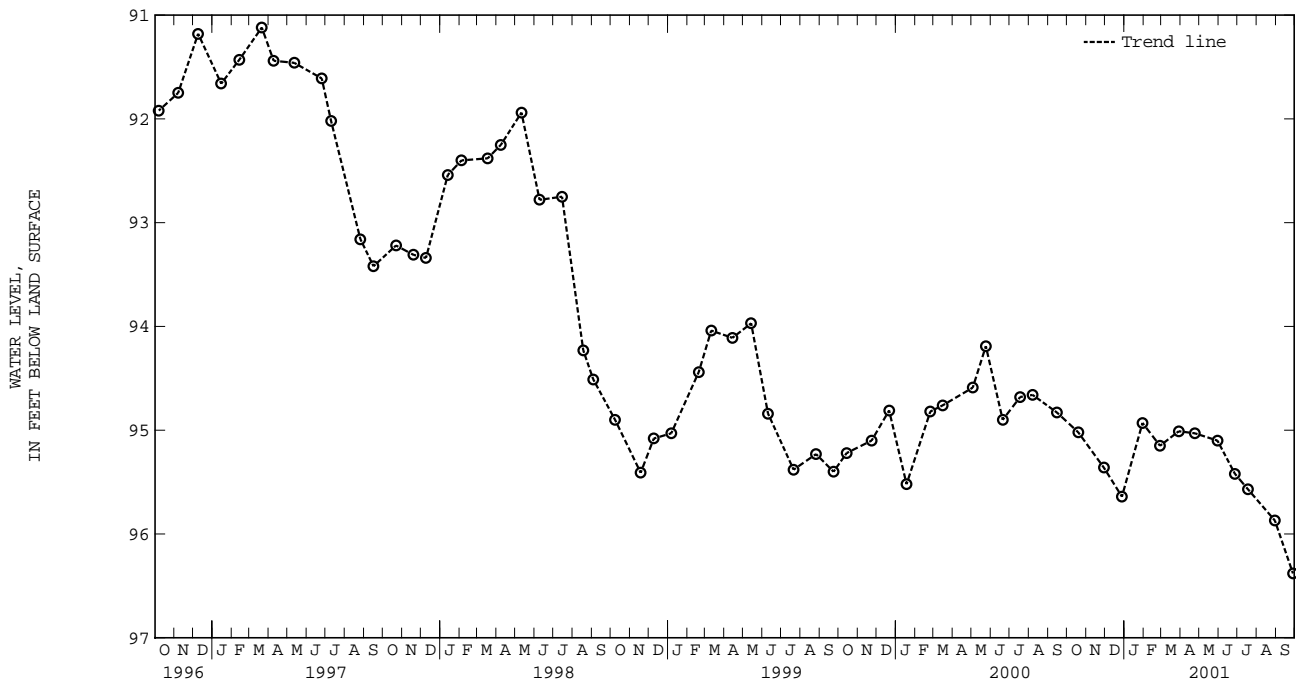
PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Fb 36. SITE ID.--384423077004501. PERMIT NUMBER.--PG-02-4834.  
 LOCATION.--Lat 38°44'23", long 77°00'45", Hydrologic Unit 02070010, at Broadwater Estates.  
 Owner: Broadwater Citizens Association.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 284 ft; casing diameter 8 in., to 271.5 ft;  
 screen diameter 8 in. from 267.5 to 284 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 78 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.46 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water  
 withdrawal. Highest water level reported, 62 ft below land surface, May 29, 1957;  
 PERIOD OF RECORD.--July 1961, March 1962 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.99 ft below land surface, Oct. 3, 1979;  
 lowest measured, 96.38 ft below land surface, Sept. 28, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	95.02	JAN 30, 2001	94.93	APR 24, 2001	95.03	JUL 18, 2001	95.57
NOV 29	95.36	FEB 27	95.15	MAY 30	95.10	AUG 30	95.87
DEC 28	95.64	MAR 29	95.01	JUN 27	95.42	SEP 28	96.38

WATER YEAR 2001    HIGHEST    94.93    JAN 30, 2001    LOWEST    96.38    SEP 28, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Fc 17. SITE ID.--384230076555501.

LOCATION.--Lat 38°42'30", long 76°55'55", Hydrologic Unit 02070010, 75 ft south of Floral Park Rd., 3 mi west of the intersection with MD Rt. 5, Piscataway.

Owner: Potomac Edison Power Company, formerly Washington Gas Light Co.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 750 ft; casing diameter 5.6 in.; casing perforated from 712 to 716 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from Oct. 27, 1955 to Sept. 4, 1956.

DATUM.--Elevation of land surface is 58.6 ft above sea level.

Measuring point: Top of casing, 0.50 ft above land surface.

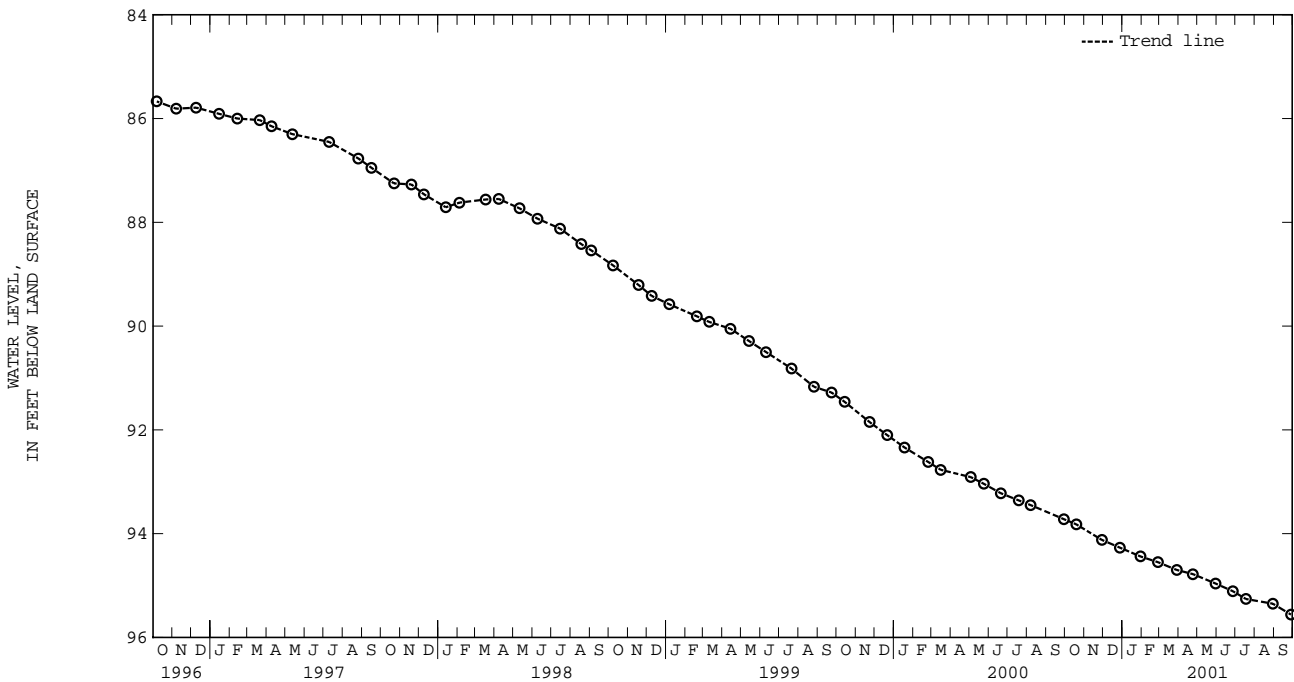
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--October 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.62 ft below land surface, Oct. 27, 1955; lowest measured, 95.56 ft below land surface, Sept. 28, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	93.82	JAN 30, 2001	94.44	APR 24, 2001	94.78	JUL 18, 2001	95.26
NOV 29	94.12	FEB 27	94.55	MAY 30	94.96	AUG 30	95.35
DEC 28	94.27	MAR 29	94.70	JUN 27	95.11	SEP 28	95.56
WATER YEAR 2001		HIGHEST	93.82	OCT 19, 2000	LOWEST	95.56	SEP 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

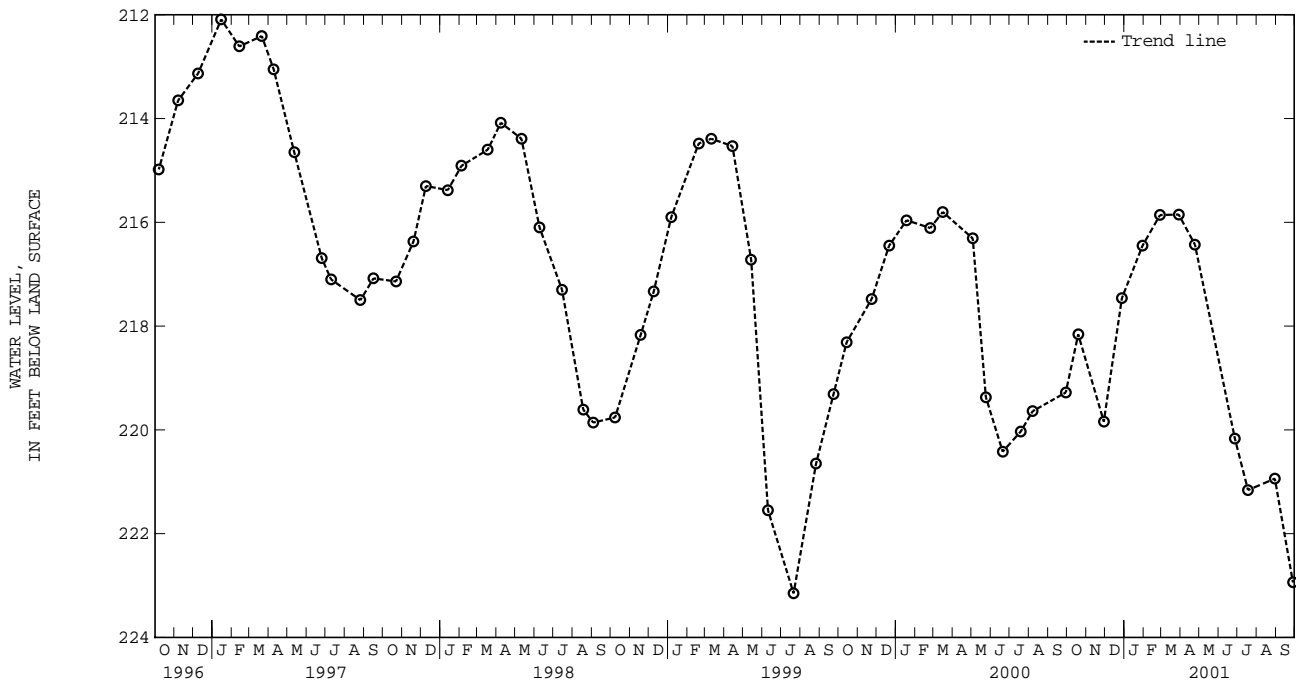
PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Fd 41. SITE ID.--384131076533301. PERMIT NUMBER.--PG-01-8058.  
 LOCATION.--Lat 38°41'31", long. 76°53'33", Hydrologic Unit 02070010, south side of MD Rt. 373, 1.14 mi west of intersection with MD Rt. 5, near T.B.  
 Owner: Colonial Investment Corp.  
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 362 ft; casing diameter 4 in., to 352 ft; screen diameter 2.5 in. from 352 to 362 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 196.92 ft above sea level.  
 Measuring point: Top of casing, 2.80 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water level reported 146 ft below land surface, March 11, 1955. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--May 1967 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 157.24 ft below land surface, March 4, 1968; lowest measured, 223.15 ft below land surface, July 21, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	218.16	JAN 30, 2001	216.45	APR 24, 2001	216.43	AUG 30, 2001	220.94
NOV 29	219.84	FEB 27	215.86	JUN 27	220.17	SEP 28	222.94
DEC 28	217.46	MAR 29	215.85	JUL 18	221.16		

WATER YEAR 2001 HIGHEST 215.85 MAR 29, 2001 LOWEST 222.94 SEP 28, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Gd 5. SITE ID.--383957076520601. PERMIT NUMBER.--PG-88-2866.

LOCATION.--Lat 38°39'57", long 76°52'06", Hydrologic Unit 02070011, nr northeast corner of intersection with US Rt. 301 and Cedarville Rd., 4 mi northeast of Waldorf.

Owner: PANDA Brandywine Power Station.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, production, artesian well, depth 1,360 ft; casing diameter 10 in., to 800 ft; casing diameter 8 in. from 800 to 948 ft, 1,028 to 1,155 ft, 1,170 to 1,188 ft, 1,208 to 1,240 ft, 1,290 to 1,305 ft, and 1350 to 1360 ft; screen diameter 8 in. from 948 to 1,028 ft, 1,155 to 1,170 ft, 1,188 to 1,208 ft, 1,240 to 1,290 ft and 1,305 to 1,350 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from Dec. 10, 1994 to April 24, 1995, Nov. 7, 1996 to Feb. 27, 1997, and Oct. 8, 1997 to current year.

DATUM.--Elevation of land surface is 216.43 ft above sea level.

Measuring Point: Top of casing, 2.65 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.40 ft below sea level, Nov. 5, 1998;

lowest measured, 181.30 ft below sea level, Jan. 5, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-75.59	-80.44	-71.30	-78.00	-68.30	-74.30	-73.70	-78.00	-71.70	-78.90	-76.20	-164.70
2	-73.30	-87.70	-71.60	-88.60	-70.70	-82.90	-71.90	-77.50	-69.30	-77.80	-74.70	-80.30
3	-77.00	-92.10	-74.30	-81.10	-71.10	-75.80	-71.10	-88.40	-75.10	-90.20	-73.20	-79.00
4	-77.50	-93.30	-78.00	-80.30	-71.40	-75.20	-73.30	-181.00	-70.80	-78.70	-72.30	-75.30
5	-76.60	-91.70	-75.30	-80.40	-69.30	-84.00	-88.20	-181.30	-72.70	-162.90	-71.60	-87.30
6	-76.30	-89.70	-73.80	-89.90	-71.20	-74.90	-82.10	-102.40	-72.20	-164.80	-74.10	-81.40
7	-74.50	-83.80	-73.40	-78.90	-70.40	-74.80	-77.00	-88.80	-73.20	-79.00	-73.00	-84.60
8	-77.60	-91.70	-76.00	-78.90	-71.10	-84.20	-77.30	-93.20	-71.90	-79.90	-69.80	-90.00
9	-77.50	-81.70	-75.90	-89.40	-71.00	-75.40	-78.50	-92.30	-78.10	-165.50	-77.50	-80.40
10	-76.60	-91.80	-75.10	-78.30	-72.10	-75.50	-75.60	-89.00	-75.90	-79.00	-77.30	-80.50
11	-73.30	-80.90	-72.80	-89.40	-72.70	-84.10	-75.50	-79.80	-69.50	-79.00	-75.70	-88.00
12	-79.10	-92.40	-73.90	-78.30	-73.20	-75.90	-75.00	-78.60	-71.90	-164.40	-77.70	-80.40
13	-78.20	-83.00	-71.90	-78.00	-72.70	-87.20	-75.70	-89.60	-73.50	-162.40	-77.70	-90.80
14	-78.10	-83.10	-73.30	-75.70	-70.40	-73.60	-75.90	-79.70	-76.30	-161.90	-76.90	-79.50
15	-79.90	-92.10	-74.30	-88.90	-71.60	-76.10	-73.60	-83.90	-75.50	-163.90	-73.80	-78.70
16	-79.80	-92.00	-72.10	-77.40	-72.80	-74.80	-75.10	-86.10	-76.00	-164.30	-73.40	-147.30
17	-77.80	-92.30	-72.90	-77.10	-73.60	-87.00	-74.60	-79.60	-73.60	-164.30	-74.50	-79.60
18	-76.00	-82.10	-72.70	-86.10	-73.10	-77.30	-73.90	-87.70	-69.90	-77.50	-75.50	-78.90
19	-79.20	-93.20	-72.10	-76.60	-72.70	-87.00	-74.60	-81.50	-63.40	-164.30	-76.00	-80.40
20	-78.30	-83.00	-72.80	-86.10	-72.60	-88.40	-72.40	-75.70	-76.00	-164.80	-72.10	-89.60
21	-76.60	-81.20	-70.60	-75.30	-69.30	-170.00	-73.40	-85.20	-76.30	-79.70	-69.90	-76.50
22	-77.50	-81.30	-71.90	-85.00	-70.90	-78.30	-68.10	-170.30	-73.00	-160.50	-71.60	-77.20
23	-72.40	-80.70	-72.30	-85.00	-72.70	-78.20	-74.90	-93.10	-75.80	-164.60	-72.20	-89.30
24	-76.80	-90.40	-73.50	-85.80	-72.80	-88.10	-73.00	-80.30	-73.50	-79.50	-74.20	-81.00
25	-76.90	-79.10	-73.40	-85.70	-74.30	-89.30	-71.30	-85.80	-73.00	-78.20	-76.50	-79.70
26	-76.80	-79.50	-72.70	-87.10	-70.60	-78.60	-74.30	-78.70	-76.00	-78.80	-74.90	-78.40
27	-75.60	-91.30	-73.50	-84.50	-72.40	-84.90	-73.90	-77.70	-76.20	-166.10	-68.90	-90.00
28	-70.80	-79.40	-71.50	-75.60	-73.20	-87.40	-74.10	-78.30	-75.90	-80.30	-69.10	-78.80
29	-72.00	-79.50	-67.90	-74.60	-73.40	-87.00	-73.80	-78.50	---	---	-76.00	-80.30
30	-72.90	-79.50	-67.90	-81.20	-73.40	-78.70	-72.10	-77.70	---	---	-75.80	-89.20
31	-76.70	-89.80	---	---	-74.60	-91.30	-71.40	-86.00	---	---	-75.30	-80.50
MONTH	-70.80	-93.30	-67.90	-89.90	-68.30	-170.00	-68.10	-181.30	-63.40	-166.10	-68.90	-164.70

GROUND-WATER LEVELS IN MARYLAND--Continued

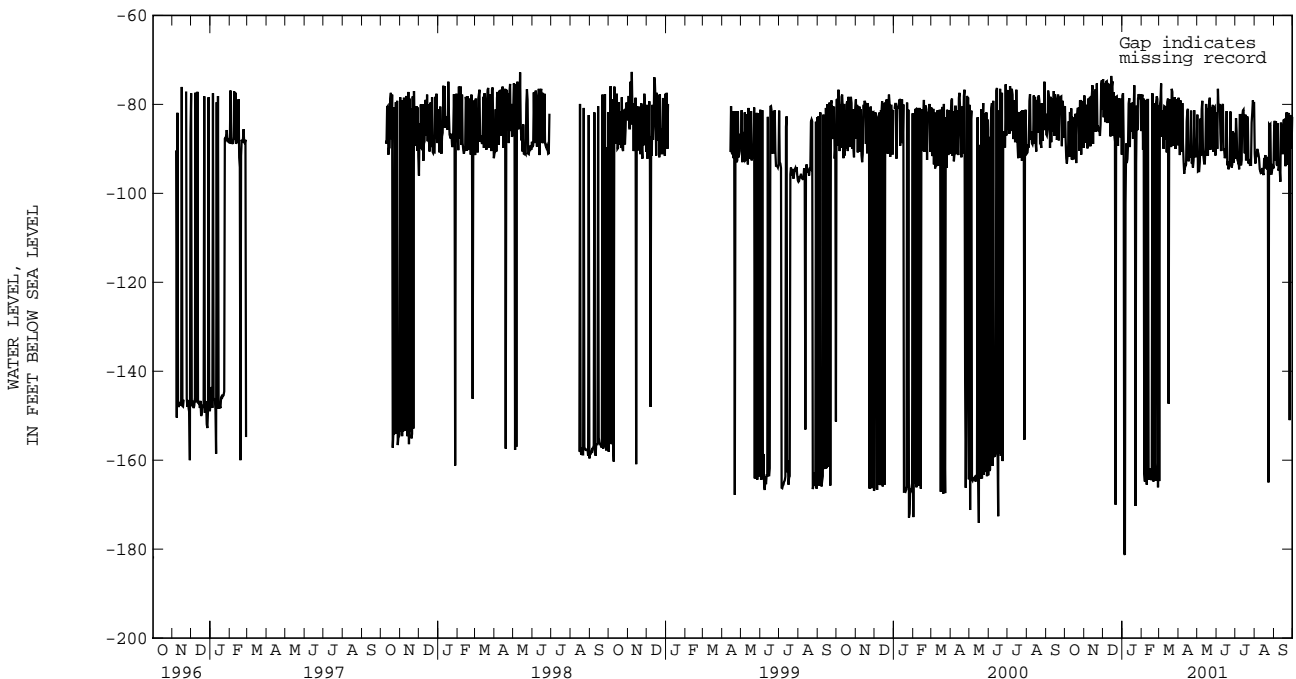
PRINCE GEORGES COUNTY--Continued

PG Gd 5--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-75.20	-78.50	-77.00	-82.30	-75.30	-83.70	-80.30	-92.20	-75.80	-91.10	-79.50	-86.10
2	-76.50	-84.60	-80.70	-95.10	-75.10	-90.00	-79.50	-83.10	-78.20	-93.30	-78.30	-83.70
3	-74.60	-91.40	-80.60	-95.00	-71.60	-76.50	-78.10	-86.10	-80.10	-91.90	-77.20	-92.60
4	-75.40	-79.10	-81.30	-95.00	-73.60	-81.00	-73.90	-92.30	-80.30	-91.60	-79.20	-83.80
5	-71.90	-84.20	-80.80	-92.90	-78.10	-80.80	-72.70	-92.80	-78.90	-90.00	-80.80	-93.50
6	-78.10	-90.60	-78.10	-83.20	-77.40	-79.90	-80.70	-92.30	-76.90	-90.60	-77.80	-93.80
7	-76.00	-79.70	-75.50	-91.50	-76.30	-86.60	-77.60	-94.60	-79.30	-91.20	-79.70	-84.30
8	-76.30	-88.70	-76.00	-81.10	-77.40	-90.50	-79.90	-82.40	-79.70	-92.20	-80.50	-94.90
9	-77.40	-92.70	-76.10	-79.20	-76.80	-80.40	-79.70	-82.40	-79.30	-94.60	-82.80	-94.40
10	-79.80	-95.60	-77.60	-90.30	-74.40	-80.30	-80.60	-93.70	-80.70	-95.10	-83.20	-94.60
11	-80.60	-93.40	-79.60	-91.90	-77.50	-79.90	-80.00	-92.50	-81.60	-94.70	-81.80	-97.40
12	-81.80	-93.90	-78.90	-93.30	-78.00	-90.20	-78.30	-82.80	-82.90	-95.60	-76.20	-84.10
13	-80.70	-93.50	-78.90	-93.30	-79.20	-90.20	-77.80	-81.40	-82.90	-94.30	-75.30	-89.70
14	-79.50	-83.80	-75.30	-89.60	-78.20	-92.10	-75.80	-81.20	-81.30	-95.30	-79.80	-84.50
15	-77.70	-81.40	-75.30	-79.90	-78.20	-91.60	-76.00	-85.80	-81.90	-95.90	-76.50	-91.20
16	-77.40	-81.00	-76.30	-91.60	-77.20	-90.30	-80.10	-91.00	-80.60	-92.30	-76.80	-83.60
17	-80.50	-92.80	-77.40	-81.00	-79.70	-81.50	-79.90	-82.30	-79.70	-92.30	-75.30	-83.50
18	-79.10	-91.20	-78.50	-91.50	-79.00	-93.70	-80.50	-92.60	-80.10	-91.40	-78.80	-83.40
19	-77.70	-91.20	-79.50	-81.10	-79.00	-92.80	-79.00	-91.30	-81.90	-94.40	-79.90	-93.90
20	-79.00	-92.00	-78.30	-79.60	-81.30	-94.60	-79.60	-82.70	-81.60	-93.90	-79.60	-92.90
21	-77.70	-81.40	-77.60	-78.50	-80.00	-93.70	-75.40	-83.90	-81.10	-94.60	-76.20	-81.80
22	-79.00	-93.30	-77.60	-90.20	-81.40	-93.50	-79.30	-93.30	-80.60	-91.80	-78.70	-93.60
23	-79.20	-92.90	-79.20	-80.80	-78.80	-81.60	-79.50	-92.30	-82.70	-165.00	-79.00	-82.70
24	-80.50	-94.20	-78.80	-81.50	-79.00	-89.60	-80.00	-93.30	-81.00	-84.50	-79.70	-81.90
25	-78.80	-92.60	-77.20	-81.00	-80.10	-94.20	-79.90	-93.10	-80.50	-84.70	-80.10	-93.10
26	-73.60	-81.30	-77.40	-80.10	-79.70	-93.50	-79.60	-93.80	-79.30	-84.50	-75.30	-151.00
27	-76.20	-89.70	-77.60	-90.70	-80.30	-86.00	-81.10	-84.10	-79.20	-95.60	-80.40	-82.90
28	-79.20	-91.90	-77.70	-80.80	-79.90	-93.10	-76.70	-81.90	-80.60	-95.60	-78.30	-82.40
29	-72.60	-88.10	-78.40	-80.60	-80.10	-91.90	-75.90	-79.10	-82.00	-94.60	-78.70	-90.00
30	-76.30	-90.80	-79.30	-91.50	-78.30	-86.40	-75.80	-80.00	-79.00	-93.40	-78.70	-82.80
31	---	---	-73.10	-81.80	---	---	-75.20	-79.90	-78.80	-94.40	---	---
MONTH	-71.90	-95.60	-73.10	-95.10	-71.60	-94.60	-72.70	-94.60	-75.80	-165.00	-75.30	-151.00
YEAR	-63.40	-181.30										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 35. SITE ID.--383228076410601. PERMIT NUMBER.--PG-72-0086.

LOCATION.--Lat 38°32'28", long 76°41'06", Hydrologic Unit 02060006, at Chalk Point Power Plant, 1.8 mi. south of Eagle Harbor. Owner: Mirant.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 430 ft; casing diameter 6 in., to 401 ft; casing diameter 4 in. from 389 to 399 ft; screen diameter 4 in. from 399 to 430 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Periodic measurements prior to June 1999. Equipped with graphic water-level recorder from May 1, 1974 to July 8, 1976. Equipped with digital water-level recorder--60-minute recorder interval from July 8, 1976 to Nov. 8, 1993.

DATUM.--Elevation of land surface is 11.22 ft above sea level.

Measuring Point: Top of casing, 2.22 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal.

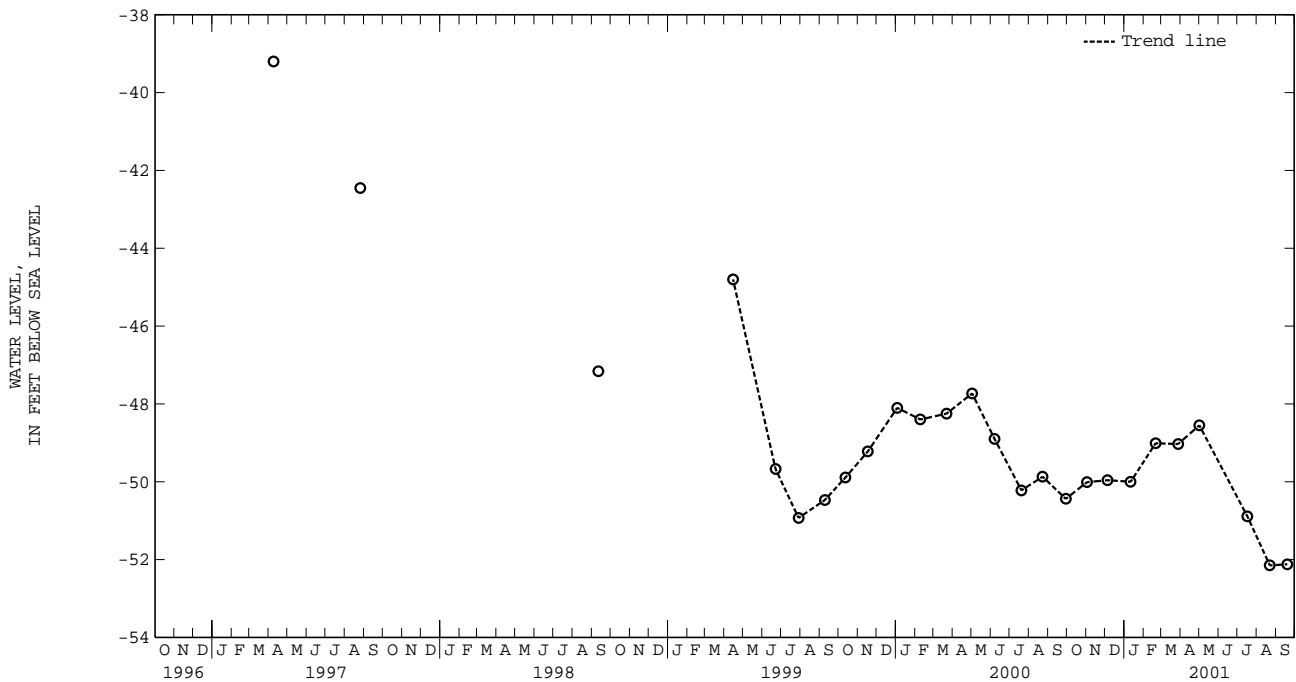
PERIOD OF RECORD.--May 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.81 ft above sea level, June 10, 1974; lowest measured, 52.15 ft below sea level, Aug. 22, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02, 2000	-50.01	FEB 20, 2001	-49.01	JUL 17, 2001	-50.89
DEC 05	-49.96	MAR 28	-49.03	AUG 22	-52.15
JAN 11, 2001	-50.00	MAY 01	-48.55	SEP 19	-52.12

WATER YEAR 2001 HIGHEST -48.55 MAY 01, 2001 LOWEST -52.15 AUG 22, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 40. SITE ID.--383348076411301. PERMIT NUMBER.--PG-73-0298.

LOCATION.--Lat 38°33'48", long 76°41'13", Hydrologic Unit 02060006, at Chalk Point Power Plant, 0.4 mi. south of Eagle Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 870 ft; casing diameter 6 in., to 150 ft; casing diameter 4 in. from 150 to 860 ft; screen diameter 4 in. from 860 to 870 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 16, 1974 to July 8, 1976. Equipped with digital water-level recorder--30-minute recorder interval from July 8, 1976 to current year.

DATUM.--Elevation of land surface is 27.98 ft above sea level.

Measuring Point: Top of casing, 2.59 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--December 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.64 ft above sea level, Jan. 11, 1975; lowest measured, 38.08 ft below sea level, Feb. 28, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-33.55	-33.91	-33.85	-34.10	-34.36	-34.64	-35.94	-36.22	-35.80	-35.93	-37.50	-38.03
2	-33.46	-33.78	-33.80	-34.03	-34.43	-34.58	-36.04	-36.22	-35.83	-36.16	-37.19	-37.61
3	-33.47	-33.75	-33.69	-33.93	-34.48	-34.67	-35.60	-36.05	-36.16	-36.82	-37.01	-37.27
4	-33.55	-33.79	-33.65	-33.82	-34.33	-34.65	-35.58	-35.77	-36.58	-36.91	-36.53	-37.13
5	-33.56	-33.87	-33.66	-33.95	-34.24	-34.44	-35.45	-35.78	-36.26	-36.58	-36.44	-36.74
6	-33.64	-34.09	-33.69	-33.95	-34.39	-34.68	-35.60	-36.33	-36.06	-36.43	-36.50	-36.78
7	-34.09	-34.53	-33.69	-33.88	-34.37	-34.60	-36.26	-36.54	-36.17	-36.58	-36.46	-36.86
8	-34.30	-34.46	-33.66	-33.88	-34.40	-34.73	-36.18	-36.52	-36.22	-36.58	-36.11	-36.50
9	-34.24	-34.44	-33.51	-33.80	-34.56	-34.89	-36.24	-36.50	-35.96	-36.46	-36.01	-36.48
10	-34.06	-34.24	-33.40	-33.90	-34.53	-34.82	-36.17	-36.50	-35.86	-36.64	-36.30	-36.60
11	-34.06	-34.27	-33.74	-34.11	-34.59	-34.92	-36.12	-36.43	-36.60	-36.91	-36.26	-36.59
12	-34.16	-34.38	-33.65	-34.10	-34.59	-35.53	-36.13	-36.47	-36.53	-36.86	-36.30	-36.69
13	-34.00	-34.30	-33.52	-33.87	-35.50	-35.70	-36.23	-36.54	-36.32	-36.72	-35.95	-36.43
14	-33.96	-34.21	-33.51	-33.85	-35.22	-35.60	-36.36	-36.73	-35.94	-36.42	-35.98	-36.30
15	-33.87	-34.18	-33.79	-34.05	-35.35	-35.61	-36.73	-37.00	-35.89	-36.18	-36.11	-36.38
16	-33.81	-34.15	-33.70	-33.99	-34.98	-35.55	-36.62	-36.94	-35.87	-36.23	-35.94	-36.28
17	-33.67	-34.08	-33.70	-34.07	-34.51	-35.04	-36.55	-36.85	-35.87	-36.24	-35.92	-36.16
18	-33.69	-33.95	-33.91	-34.18	-34.78	-35.25	-36.32	-36.74	-36.22	-36.36	-36.03	-36.44
19	-33.83	-34.12	-33.88	-34.12	-35.01	-35.24	-35.96	-36.32	-35.93	-36.29	-36.18	-36.43
20	-33.93	-34.24	-33.80	-34.07	-35.01	-35.42	-35.88	-36.15	-35.90	-36.18	-36.00	-36.30
21	-34.09	-34.41	-33.83	-34.17	-35.16	-35.43	-35.88	-36.54	-35.88	-36.21	-35.43	-36.00
22	-34.21	-34.52	-34.11	-34.30	-35.32	-36.16	-36.44	-36.66	-35.79	-36.21	-35.48	-35.90
23	-34.17	-34.41	-34.12	-34.37	-36.16	-36.39	-36.22	-36.65	-35.76	-36.11	-35.73	-35.99
24	-34.04	-34.32	-34.06	-34.28	-35.69	-36.17	-35.93	-36.41	-35.92	-36.46	-35.70	-36.08
25	-33.95	-34.18	-33.88	-34.19	-35.90	-36.17	-35.92	-36.41	-36.05	-36.46	-35.86	-36.23
26	-33.88	-34.18	-33.73	-34.18	-35.69	-36.16	-35.98	-36.41	-36.12	-37.09	-35.79	-36.26
27	-33.74	-34.11	-34.10	-34.49	-35.40	-35.75	-35.73	-36.21	-37.07	-37.60	-36.03	-36.29
28	-33.70	-34.15	-34.33	-34.60	-35.41	-35.64	-36.04	-36.33	-37.60	-38.08	-35.98	-36.26
29	-33.90	-34.20	-34.29	-34.60	-35.08	-35.57	-35.89	-36.26	---	---	-35.88	-36.20
30	-33.85	-34.16	-34.30	-34.62	-35.04	-35.39	-35.54	-35.97	---	---	-35.59	-35.88
31	-33.92	-34.13	---	---	-35.39	-35.94	-35.59	-35.82	---	---	-35.67	-35.90
MONTH	-33.46	-34.53	-33.40	-34.62	-34.24	-36.39	-35.45	-37.00	-35.76	-38.08	-35.43	-38.03

PRINCE GEORGES COUNTY--Continued

PG Hf 40--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-35.64	-35.86	-35.71	-35.98	-35.01	-35.56	-35.29	-35.68	-35.97	-36.33	-36.08	-36.54
2	-35.65	-35.86	-35.64	-35.89	-34.99	-35.25	-35.43	-35.88	-36.05	-36.29	-36.28	-36.54
3	-35.76	-35.99	-35.62	-35.89	-34.96	-35.36	-35.50	-35.73	-35.90	-36.17	-36.18	-36.49
4	-35.83	-36.26	-35.62	-35.87	-35.12	-35.40	-35.38	-35.59	-35.85	-36.17	-36.17	-36.45
5	-35.97	-36.28	-35.56	-35.87	-35.06	-35.38	-35.36	-35.56	-35.88	-36.18	-36.26	-36.60
6	-36.02	-36.39	-35.66	-35.89	-35.04	-35.34	-35.32	-35.68	-35.88	-36.18	-36.29	-36.58
7	-36.14	-36.52	-35.56	-35.81	-34.98	-35.33	-35.38	-35.68	-35.89	-36.24	-36.26	-36.55
8	-36.08	-36.47	-35.50	-35.76	-34.94	-35.25	-35.21	-35.55	-36.02	-36.49	-36.28	-36.54
9	-35.91	-36.35	-35.49	-35.74	-34.88	-35.14	-35.24	-35.46	-36.40	-36.66	-36.30	-36.56
10	-35.92	-36.31	-35.42	-35.71	-34.85	-35.12	-35.19	-35.42	-36.45	-36.69	-36.28	-36.52
11	-35.94	-36.31	-35.44	-35.69	-34.77	-35.08	-35.05	-35.36	-36.64	-36.96	-36.33	-36.71
12	-35.85	-36.21	-35.44	-35.86	-34.79	-35.02	-35.27	-35.51	-36.85	-37.14	-36.30	-36.59
13	-35.88	-36.33	-35.86	-36.33	-34.78	-34.99	-35.29	-35.52	-36.99	-37.18	-36.26	-36.54
14	-36.24	-36.48	-36.16	-36.38	-34.86	-35.06	-35.32	-35.54	-36.85	-37.10	-36.25	-36.80
15	-35.98	-36.37	-36.00	-36.31	-34.84	-35.05	-35.28	-35.53	-36.58	-36.95	-36.31	-36.59
16	-35.88	-36.13	-35.85	-36.17	-34.84	-35.06	-35.26	-35.52	-36.51	-36.79	-36.21	-36.53
17	-35.88	-36.12	-35.72	-35.91	-34.93	-35.32	-35.24	-35.51	-36.44	-36.73	-36.24	-36.58
18	-35.98	-36.42	-35.70	-35.90	-35.06	-35.27	-35.21	-35.56	-36.46	-36.76	-36.24	-36.58
19	-36.27	-36.52	-35.66	-35.86	-35.00	-35.29	-35.31	-35.56	-36.26	-36.58	-36.25	-36.59
20	-36.35	-36.63	-35.62	-35.87	-35.01	-35.31	-35.26	-35.54	-36.21	-36.55	-36.17	-36.56
21	-36.37	-36.62	-35.56	-35.73	-35.00	-35.39	-35.23	-35.60	-36.27	-36.59	-36.23	-36.52
22	-36.28	-36.54	-35.42	-35.69	-35.19	-35.58	-35.34	-35.69	-36.24	-36.56	-36.30	-36.58
23	-36.18	-36.49	-35.42	-35.78	-35.32	-35.74	-35.40	-35.69	-36.11	-36.51	-36.31	-36.59
24	-36.02	-36.47	-35.47	-35.73	-35.56	-35.84	-35.44	-35.74	-36.25	-36.54	-36.05	-36.52
25	-36.23	-36.50	-35.46	-35.73	-35.55	-35.83	-35.60	-35.89	-36.05	-36.43	-36.06	-36.49
26	-36.01	-36.39	-35.38	-35.67	-35.57	-35.78	-35.72	-36.00	-35.99	-36.26	-36.30	-36.57
27	-35.78	-36.17	-35.37	-35.62	-35.49	-35.75	-35.78	-36.04	-35.99	-36.24	-36.30	-36.52
28	-35.79	-36.15	-35.40	-35.63	-35.42	-35.69	-35.79	-36.33	-36.03	-36.45	-36.34	-36.58
29	-35.97	-36.25	-35.38	-35.63	-35.36	-35.64	-35.97	-36.37	-36.24	-36.52	-36.38	-36.60
30	-35.82	-36.20	-35.42	-35.71	-35.29	-35.53	-35.96	-36.24	-36.17	-36.42	-36.23	-36.48
31	---	---	-35.39	-35.69	---	---	-35.96	-36.24	-36.08	-36.32	---	---
MONTH	-35.64	-36.63	-35.37	-36.38	-34.77	-35.84	-35.05	-36.37	-35.85	-37.18	-36.05	-36.80
YEAR	-33.40	-38.08										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 41. SITE ID.--383348076411302. PERMIT NUMBER.--PG-73-0297.

LOCATION.--Lat 38°33'48", long 76°41'13", Hydrologic Unit 02060006, at Chalk Point Power Plant, 0.4 mi. south of Eagle Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 654 ft; casing diameter 6 in., to 150 ft;

casing diameter 4 in. from 150 to 644 ft, and 654 to 665 ft; screen diameter 4 in. from 644 to 654 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 16, 1974 to July 8, 1976. Equipped with digital water-level recorder--60-minute recorder interval from July 8, 1976 to current year.

DATUM.--Elevation of land surface is 28.30 ft above sea level.

Measuring Point: Top of casing, 2.65 ft above land surface.

REMARKS.--Southern Maryland Observation Network. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--December 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.85 ft above sea level, Jan. 1, 1975;

lowest measured, 50.99 ft below sea level, May 28, 1999.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-43.03	-43.26	-42.09	-42.24	-41.78	-41.88	-42.35	-42.66	-41.70	-41.98	-43.90	-43.97
2	-42.92	-43.06	-42.02	-42.09	-41.68	-41.78	-42.64	-42.70	-41.98	-42.25	-43.62	-43.91
3	-42.87	-42.92	-41.97	-42.04	-41.68	-41.72	-42.68	-42.74	-42.25	-42.64	-43.34	-43.62
4	-42.88	-43.03	-41.90	-41.98	-41.58	-41.70	-42.73	-42.94	-42.64	-42.79	-43.19	-43.41
5	-43.02	-43.30	-41.90	-42.03	-41.49	-41.58	-42.94	-43.03	-42.52	-42.70	-43.07	-43.23
6	-43.23	-43.29	-42.02	-42.04	-41.50	-41.94	-42.94	-43.06	-42.52	-42.77	-43.23	-43.60
7	-43.24	-43.64	-42.02	-42.03	-41.94	-42.17	-43.00	-43.10	-42.77	-43.19	-43.60	-43.76
8	-43.61	-43.62	-41.86	-42.02	-42.17	-42.48	-43.10	-43.18	-43.19	-43.81	-43.41	-43.65
9	-43.57	-43.65	-41.73	-41.86	-42.48	-43.01	-43.13	-43.48	-43.81	-44.42	-43.36	-43.69
10	-43.57	-43.65	-41.65	-41.85	-43.01	-43.40	-43.33	-43.48	-44.41	-44.57	-43.69	-44.12
11	-43.57	-43.64	-41.85	-42.22	-43.40	-43.57	-43.02	-43.34	-44.57	-44.74	-44.12	-44.30
12	-43.63	-43.69	-42.07	-42.22	-43.34	-43.56	-42.92	-43.03	-44.62	-44.73	-44.29	-44.39
13	-43.54	-43.68	-41.90	-42.07	-43.56	-43.84	-42.94	-43.14	-44.30	-44.62	-43.75	-44.29
14	-43.43	-43.56	-41.89	-41.92	-43.50	-43.84	-43.14	-43.25	-43.80	-44.30	-43.74	-43.83
15	-43.26	-43.48	-41.90	-42.03	-43.50	-43.54	-43.00	-43.22	-43.74	-43.88	-43.83	-43.89
16	-43.05	-43.28	-41.66	-41.96	-43.16	-43.52	-42.62	-43.00	-43.88	-44.02	-43.75	-43.87
17	-42.92	-43.07	-41.55	-41.66	-42.46	-43.16	-42.46	-42.62	-43.88	-44.00	-43.75	-44.00
18	-42.92	-43.02	-41.57	-41.74	-42.46	-42.64	-42.19	-42.46	-44.00	-44.16	-44.00	-44.42
19	-42.98	-43.17	-41.58	-41.67	-42.64	-42.90	-41.78	-42.19	-43.78	-44.08	-44.42	-44.57
20	-42.97	-43.12	-41.42	-41.58	-42.90	-43.38	-41.78	-41.80	-43.56	-43.78	-44.38	-44.53
21	-42.92	-42.97	-41.42	-41.50	-43.35	-43.42	-41.78	-42.19	-43.32	-43.56	-44.01	-44.38
22	-42.93	-43.12	-41.50	-41.67	-43.34	-43.46	-42.19	-42.25	-43.17	-43.40	-43.85	-44.24
23	-42.92	-43.08	-41.67	-41.83	-43.46	-43.59	-42.10	-42.22	-43.09	-43.17	-44.24	-44.60
24	-42.80	-42.92	-41.72	-41.83	-43.32	-43.56	-41.97	-42.11	-43.16	-43.57	-44.58	-44.65
25	-42.73	-42.81	-41.53	-41.73	-43.34	-43.63	-41.97	-42.22	-43.36	-43.60	-44.65	-44.91
26	-42.69	-42.79	-41.16	-41.53	-43.26	-43.63	-42.20	-42.35	-43.30	-43.60	-44.83	-45.04
27	-42.60	-42.73	-41.19	-41.34	-42.94	-43.26	-42.01	-42.20	-43.60	-43.78	-45.04	-45.10
28	-42.51	-42.61	-41.34	-41.50	-42.89	-42.94	-42.18	-42.40	-43.75	-43.90	-44.90	-45.07
29	-42.50	-42.59	-41.50	-41.68	-42.51	-42.91	-42.21	-42.38	---	---	-44.63	-44.90
30	-42.28	-42.51	-41.67	-41.84	-42.19	-42.51	-41.63	-42.21	---	---	-44.25	-44.63
31	-42.21	-42.28	---	---	-42.20	-42.35	-41.58	-41.70	---	---	-44.23	-44.34
MONTH	-42.21	-43.69	-41.16	-42.24	-41.49	-43.84	-41.58	-43.48	-41.70	-44.74	-43.07	-45.10



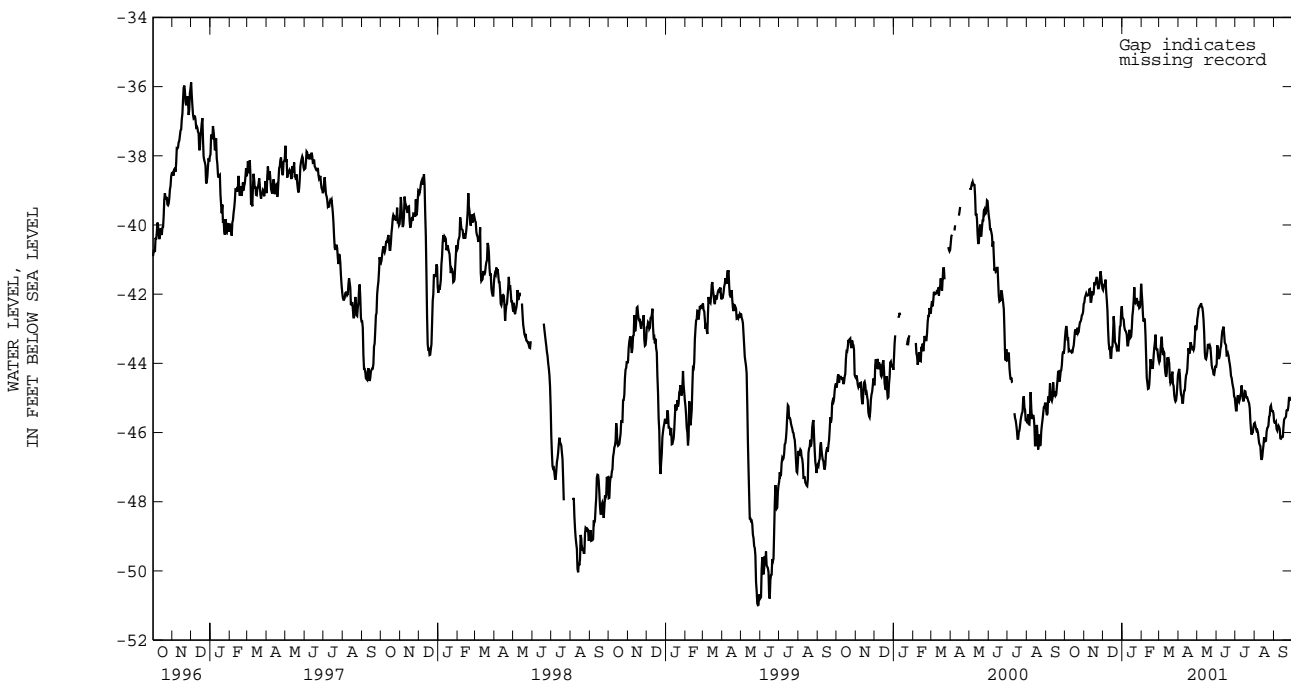
PRINCE GEORGES COUNTY--Continued

PG Hf 41--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-44.14	-44.24	-42.60	-42.71	-43.48	-44.01	-44.95	-45.19	-45.56	-45.72	-45.45	-45.68
2	-44.10	-44.16	-42.42	-42.60	-43.22	-43.48	-45.17	-45.36	-45.70	-45.80	-45.63	-45.72
3	-44.12	-44.33	-42.34	-42.42	-43.24	-43.60	-45.00	-45.36	-45.79	-45.88	-45.57	-45.72
4	-44.33	-44.72	-42.31	-42.39	-43.60	-43.85	-44.88	-45.01	-45.86	-45.95	-45.56	-45.69
5	-44.72	-44.91	-42.27	-42.34	-43.75	-43.85	-44.81	-44.92	-45.84	-45.93	-45.69	-45.90
6	-44.90	-44.94	-42.22	-42.34	-43.56	-43.77	-44.80	-45.06	-45.84	-45.99	-45.84	-45.94
7	-44.92	-45.14	-42.18	-42.26	-43.48	-43.58	-45.03	-45.11	-45.99	-46.15	-45.73	-45.84
8	-44.90	-45.14	-42.23	-42.36	-43.26	-43.50	-44.82	-45.04	-46.15	-46.30	-45.73	-45.80
9	-44.71	-44.92	-42.28	-42.38	-43.02	-43.26	-44.84	-44.92	-46.30	-46.36	-45.76	-45.84
10	-44.71	-44.79	-42.38	-42.52	-43.00	-43.07	-44.62	-44.86	-46.33	-46.39	-45.82	-45.90
11	-44.50	-44.78	-42.52	-42.75	-42.88	-43.01	-44.56	-44.64	-46.39	-46.70	-45.88	-46.17
12	-44.32	-44.52	-42.75	-43.13	-42.88	-42.94	-44.64	-44.88	-46.69	-46.79	-46.13	-46.18
13	-44.23	-44.34	-43.13	-43.69	-42.94	-43.15	-44.87	-45.04	-46.52	-46.72	-46.07	-46.15
14	-44.16	-44.30	-43.69	-43.86	-43.15	-43.40	-45.00	-45.10	-46.36	-46.52	-45.99	-46.12
15	-43.82	-44.16	-43.80	-43.88	-43.39	-43.44	-44.80	-45.00	-46.14	-46.36	-45.84	-46.12
16	-43.56	-43.82	-43.66	-43.80	-43.41	-43.48	-44.71	-44.80	-45.99	-46.14	-45.61	-45.84
17	-43.48	-43.56	-43.44	-43.66	-43.48	-43.77	-44.68	-44.81	-46.02	-46.20	-45.54	-45.63
18	-43.50	-43.69	-43.31	-43.44	-43.67	-43.76	-44.79	-44.94	-46.17	-46.25	-45.53	-45.59
19	-43.36	-43.69	-43.32	-43.48	-43.60	-43.71	-44.90	-44.99	-45.96	-46.24	-45.52	-45.57
20	-43.28	-43.39	-43.46	-43.52	-43.69	-43.78	-44.88	-44.99	-45.77	-45.98	-45.34	-45.54
21	-43.35	-43.44	-43.34	-43.48	-43.74	-43.92	-44.92	-45.05	-45.80	-45.87	-45.34	-45.36
22	-43.39	-43.52	-43.37	-43.54	-43.92	-44.02	-45.01	-45.11	-45.77	-45.85	-45.34	-45.35
23	-43.49	-43.58	-43.49	-43.78	-43.99	-44.16	-45.07	-45.16	-45.52	-45.79	-45.23	-45.35
24	-43.39	-43.56	-43.76	-44.05	-44.16	-44.37	-45.11	-45.30	-45.48	-45.54	-44.91	-45.23
25	-43.48	-43.61	-44.02	-44.15	-44.37	-44.42	-45.30	-45.67	-45.26	-45.51	-44.85	-44.97
26	-43.25	-43.54	-44.11	-44.19	-44.42	-44.56	-45.67	-45.92	-45.22	-45.26	-44.97	-45.05
27	-42.90	-43.25	-44.16	-44.32	-44.55	-44.66	-45.90	-46.06	-45.19	-45.22	-45.03	-45.04
28	-42.80	-42.91	-44.20	-44.33	-44.64	-44.75	-45.88	-45.97	-45.19	-45.35	-45.03	-45.05
29	-42.91	-43.04	-44.02	-44.21	-44.74	-44.96	-45.83	-45.98	-45.34	-45.38	-44.90	-45.03
30	-42.70	-42.98	-43.98	-44.07	-44.91	-44.99	-45.74	-45.83	-45.32	-45.38	-44.74	-44.91
31	---	---	-44.01	-44.12	---	---	-45.58	-45.74	-45.31	-45.45	---	---
MONTH	-42.70	-45.14	-42.18	-44.33	-42.88	-44.99	-44.56	-46.06	-45.19	-46.79	-44.74	-46.18
YEAR	-41.16	-46.79										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 42. SITE ID.--383348076411303. PERMIT NUMBER.--PG-73-0294.

LOCATION.--Lat 38°33'48", long 76°41'13", Hydrologic Unit 02060006, at Chalk Point Power Plant, 0.4 mi. south of Eagle Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 386 ft; casing diameter 6 in., to 150 ft; casing diameter 4 in. from 150 to 366 ft and 376 to 386 ft; screen diameter 4 in. from 366 to 376 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Periodic measurements prior to Oct. 1999. Equipped with graphic water-level recorder from Jan. 2, 1975 to July 8, 1976. Equipped with digital water-level recorder--60-minute recorder interval from July 8, 1976 to Sept. 18, 1999.

DATUM.--Elevation of land surface is 27.76 ft above sea level.

Measuring Point: Top of casing, 2.71 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal.

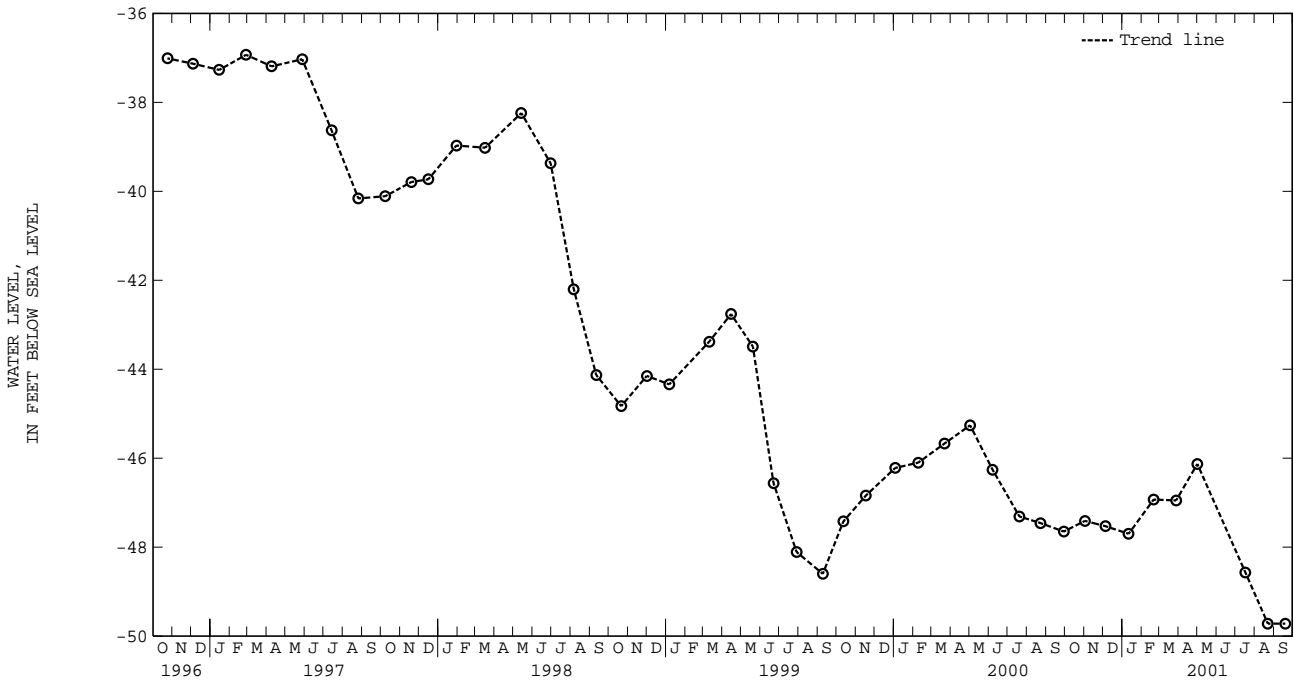
PERIOD OF RECORD.--January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.84 ft above sea level, April 22, 1975; lowest measured, 49.72 ft below sea level, Aug. 22, and Sept. 19, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02, 2000	-47.41	FEB 20, 2001	-46.93	JUL 17, 2001	-48.57
DEC 05	-47.53	MAR 28	-46.95	AUG 22	-49.72
JAN 11, 2001	-47.70	MAY 01	-46.13	SEP 19	-49.72

WATER YEAR 2001      HIGHEST -46.13    MAY 01, 2001      LOWEST -49.72    AUG 22, 2001    SEP 19, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 44. SITE ID.--383250076405304. PERMIT NUMBER.--PG-73-0065.  
 LOCATION.--Lat 38°32'50", long 76°40'53", Hydrologic Unit 02060006, at Chalk Point Power Plant, on east side of canal.  
 Owner: Potomac Edison Power Co.  
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,545 ft; casing diameter 3 in., to 1,025 ft; screen diameter 3 in. from 1,025 to 1,030 ft.  
 INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with transducer water-level recorder--15-minute recorder interval from June 1995 to current year.  
 DATUM.--Elevation of land surface is 10.48 ft above sea level.  
 Measuring Point: Top of casing, 5.10 ft above land surface.  
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local and regional ground-water withdrawal. This well has a 1 in. diameter well inside the 3 in. casing, separated by a packer and screened in the Lower Patapsco Formation as well PG Hf 32.  
 PERIOD OF RECORD.--June 1973, July 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.85 ft above sea level, June 24, 1973; lowest measured, 57.38 ft below sea level, Feb. 27, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-34.21	-36.36	-36.85	-43.87	-46.05	-48.70	-47.52	-51.40	-42.80	-51.20	-44.38	-50.08
2	-33.86	-35.01	-38.55	-44.90	-47.49	-48.67	-46.02	-50.59	-51.08	-55.77	-42.77	-47.60
3	-34.09	-40.33	-36.68	-39.12	-48.03	-49.27	-41.28	-46.88	-50.19	-56.23	-44.15	-47.75
4	-38.00	-42.00	-36.10	-37.60	-48.15	-49.44	-46.88	-49.07	-44.21	-52.26	-40.88	-47.69
5	-35.99	-38.00	-36.07	-44.76	-47.86	-49.36	-48.15	-51.83	-48.18	-50.13	-44.35	-47.81
6	-36.74	-42.83	-39.29	-45.71	-48.67	-49.96	-45.99	-52.29	-44.53	-50.45	-47.69	-48.49
7	-36.54	-40.56	-36.71	-42.52	-48.90	-50.02	-45.82	-51.95	-43.61	-48.38	-47.86	-48.61
8	-38.63	-43.26	-38.78	-44.70	-45.99	-50.22	-44.38	-49.82	-40.30	-43.81	-47.17	-48.06
9	-36.25	-40.42	-37.74	-43.35	-44.07	-49.90	-47.14	-50.54	-40.01	-45.82	-47.09	-48.03
10	-38.17	-43.00	-37.57	-43.20	-44.07	-49.30	-49.93	-51.20	-45.22	-52.72	-47.55	-48.55
11	-35.93	-39.52	-36.79	-38.84	-43.23	-49.79	-50.94	-51.60	-49.87	-51.02	-44.61	-48.61
12	-39.47	-42.92	-36.19	-43.41	-49.62	-51.08	-48.03	-52.58	-49.90	-51.11	-40.82	-44.99
13	-37.43	-41.45	-42.86	-45.36	-48.41	-50.82	-50.08	-54.85	-43.00	-51.26	-43.55	-46.40
14	-35.59	-38.15	-41.94	-45.56	-49.73	-50.91	-52.84	-55.91	-42.80	-48.15	-45.56	-47.12
15	-34.72	-36.07	-45.04	-46.43	-49.90	-51.14	-51.17	-56.31	-48.01	-49.16	-43.18	-47.40
16	-34.64	-38.55	-40.91	-45.68	-49.53	-50.85	-50.59	-52.18	-44.15	-49.93	-39.67	-43.58
17	-38.55	-41.19	-44.90	-46.63	-40.44	-50.62	-47.06	-51.26	-43.90	-49.59	-39.35	-44.21
18	-35.90	-41.91	-40.42	-47.29	-39.75	-46.94	-49.96	-51.00	-42.46	-48.44	-39.47	-43.09
19	-35.30	-36.91	-40.39	-46.08	-42.20	-48.44	-49.47	-50.85	-44.79	-48.95	-41.51	-45.19
20	-36.02	-42.06	-42.54	-47.03	-41.85	-48.64	-49.47	-50.77	-41.88	-47.52	-43.95	-45.94
21	-37.51	-43.43	-40.42	-46.77	-45.28	-50.65	-50.02	-55.31	-41.57	-48.49	-45.33	-45.91
22	-36.25	-39.73	-40.88	-47.63	-50.54	-52.29	-50.45	-51.60	-41.25	-46.77	-45.48	-46.63
23	-37.60	-42.00	-42.28	-47.23	-49.82	-51.23	-51.34	-52.00	-46.77	-50.71	-43.90	-46.80
24	-37.28	-43.98	-38.60	-42.28	-44.38	-49.99	-50.42	-51.92	-45.39	-51.97	-40.22	-45.59
25	-36.74	-42.63	-39.09	-48.27	-44.87	-50.28	-50.85	-51.71	-42.86	-48.98	-43.32	-46.25
26	-40.59	-44.30	-42.14	-48.95	-43.06	-48.84	-50.48	-51.89	-48.98	-56.89	-45.79	-46.91
27	-38.03	-44.18	-40.42	-45.85	-46.48	-49.18	-50.39	-51.54	-55.65	-57.38	-46.65	-47.17
28	-39.87	-44.24	-45.59	-47.03	-44.70	-49.44	-49.18	-51.77	-50.08	-55.74	-46.57	-47.06
29	-38.78	-45.79	-46.68	-47.86	-47.26	-50.39	-47.35	-51.00	---	---	-43.67	-46.94
30	-38.35	-44.47	-47.06	-48.49	-47.14	-51.51	-45.94	-51.11	---	---	-44.30	-45.91
31	-37.22	-40.27	---	---	-50.68	-52.32	-44.24	-50.25	---	---	-40.85	-46.20
MONTH	-33.86	-45.79	-36.07	-48.95	-39.75	-52.32	-41.28	-56.31	-40.01	-57.38	-39.35	-50.08

GROUND-WATER LEVELS IN MARYLAND--Continued

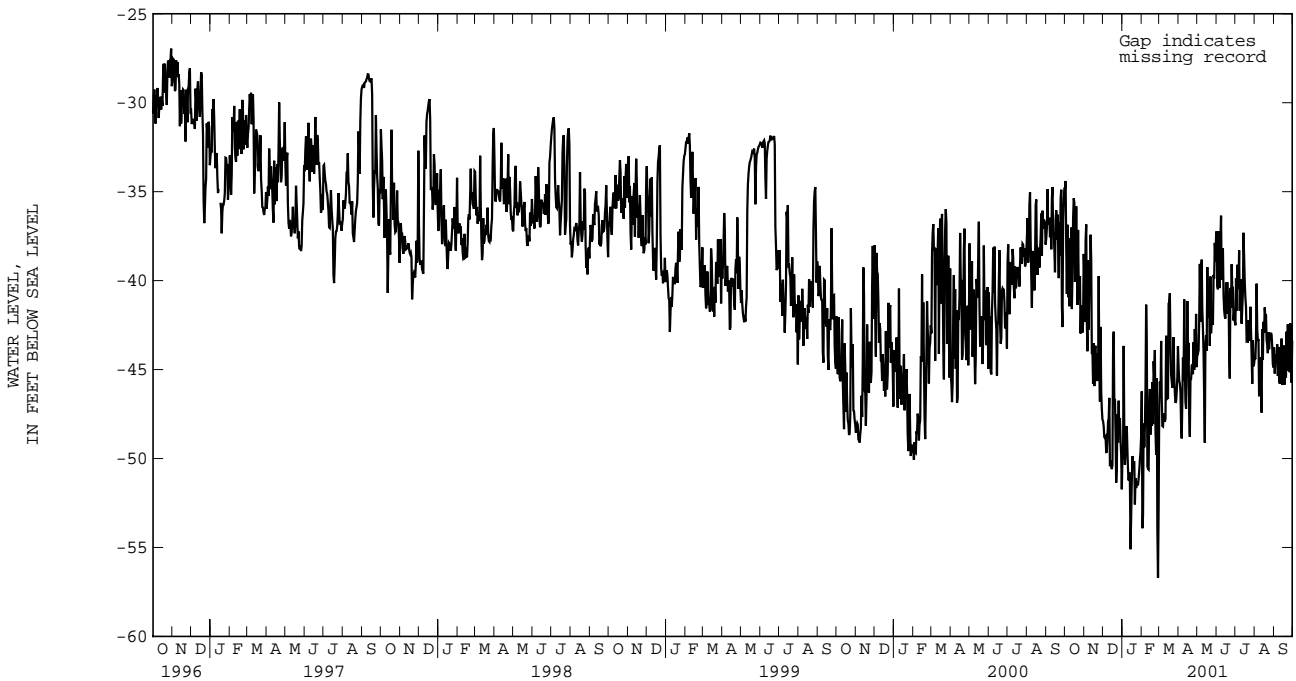
PRINCE GEORGES COUNTY--Continued

PG Hf 44--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-43.38	-45.45	-42.17	-45.19	-36.39	-38.92	-40.10	-43.52	-44.04	-44.73	-42.20	-45.39
2	-45.33	-45.94	-42.25	-44.87	-38.92	-40.96	-39.06	-41.07	-44.04	-45.01	-43.72	-45.91
3	-45.19	-46.22	-42.66	-45.01	-38.69	-41.05	-41.07	-42.14	-40.33	-44.58	-43.78	-45.07
4	-45.68	-46.65	-39.15	-45.19	-36.88	-38.75	-37.60	-41.42	-39.24	-41.91	-42.71	-45.13
5	-46.25	-51.60	-37.91	-41.56	-36.30	-39.09	-37.60	-42.63	-41.91	-43.43	-41.71	-45.82
6	-47.09	-51.63	-39.67	-42.77	-39.09	-41.05	-38.26	-42.63	-43.09	-43.69	-41.71	-44.90
7	-42.89	-48.27	-39.92	-44.21	-36.53	-40.10	-37.28	-39.87	-42.51	-43.86	-44.90	-45.56
8	-41.60	-46.63	-37.77	-40.73	-35.70	-37.22	-39.87	-42.63	-43.84	-47.77	-41.79	-45.10
9	-42.03	-47.03	-40.73	-42.28	-36.45	-41.39	-38.43	-42.66	-44.27	-46.57	-45.01	-45.62
10	-39.38	-42.69	-42.17	-43.32	-36.73	-39.95	-40.44	-42.22	-44.15	-44.55	-45.42	-46.16
11	-42.17	-46.14	-43.32	-44.64	-36.53	-40.13	-41.85	-42.80	-44.21	-48.69	-43.26	-45.73
12	-46.11	-48.12	-44.64	-49.01	-40.13	-41.25	-39.90	-43.20	-42.08	-49.73	-42.74	-46.16
13	-45.73	-48.38	-46.85	-50.19	-41.13	-42.43	-38.03	-42.00	-40.85	-44.52	-41.45	-44.93
14	-40.85	-47.23	-39.84	-46.94	-40.67	-43.37	-36.59	-38.14	-42.63	-45.44	-44.90	-47.03
15	-39.27	-43.92	-39.81	-44.35	-40.33	-43.00	-36.50	-40.33	-41.65	-42.97	-43.78	-46.80
16	-41.36	-45.76	-41.82	-44.90	-38.54	-41.71	-38.40	-42.00	-41.16	-43.78	-40.85	-45.82
17	-41.39	-45.13	-37.94	-41.82	-39.35	-43.06	-39.06	-42.25	-39.29	-44.01	-42.31	-45.65
18	-45.07	-49.65	-38.34	-43.63	-38.66	-41.88	-39.38	-43.29	-40.50	-43.81	-45.56	-46.16
19	-47.23	-50.51	-38.95	-44.29	-39.52	-42.63	-43.00	-43.78	-39.87	-43.46	-43.37	-45.73
20	-43.92	-47.55	-38.14	-43.40	-38.29	-42.94	-42.63	-43.75	-42.54	-44.04	-42.28	-46.39
21	-42.34	-46.83	-41.36	-44.27	-42.83	-46.36	-42.05	-44.01	-41.91	-44.73	-40.70	-45.04
22	-42.54	-45.65	-38.60	-42.05	-43.60	-46.91	-41.62	-43.09	-40.61	-45.65	-42.51	-46.08
23	-43.32	-45.85	-42.05	-43.43	-39.26	-43.60	-42.17	-42.94	-40.56	-43.66	-40.85	-44.52
24	-43.29	-46.11	-40.85	-43.17	-39.61	-42.54	-42.94	-43.66	-41.07	-44.93	-41.05	-45.39
25	-40.82	-45.79	-39.06	-43.26	-37.94	-40.61	-40.16	-43.69	-41.39	-44.15	-41.05	-44.61
26	-42.20	-46.40	-39.26	-43.84	-38.60	-41.28	-41.42	-43.23	-40.30	-44.90	-42.91	-46.11
27	-40.62	-44.38	-38.14	-43.69	-38.60	-42.11	-42.28	-46.02	-40.61	-43.89	-40.70	-43.66
28	-44.01	-45.48	-38.09	-41.65	-40.73	-42.66	-43.23	-46.97	-40.59	-44.81	-41.42	-44.93
29	-40.13	-45.13	-37.14	-39.47	-40.21	-42.86	-41.82	-44.58	-41.10	-44.58	-44.93	-46.14
30	-43.67	-45.36	-37.11	-40.79	-41.05	-42.71	-44.41	-45.27	-44.38	-45.01	-41.76	-45.27
31	---	---	-36.99	-38.17	---	---	-44.07	-45.24	-42.31	-45.56	---	---
MONTH	-39.27	-51.63	-36.99	-50.19	-35.70	-46.91	-36.50	-46.97	-39.24	-49.73	-40.70	-47.03
YEAR	-33.86	-57.38										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

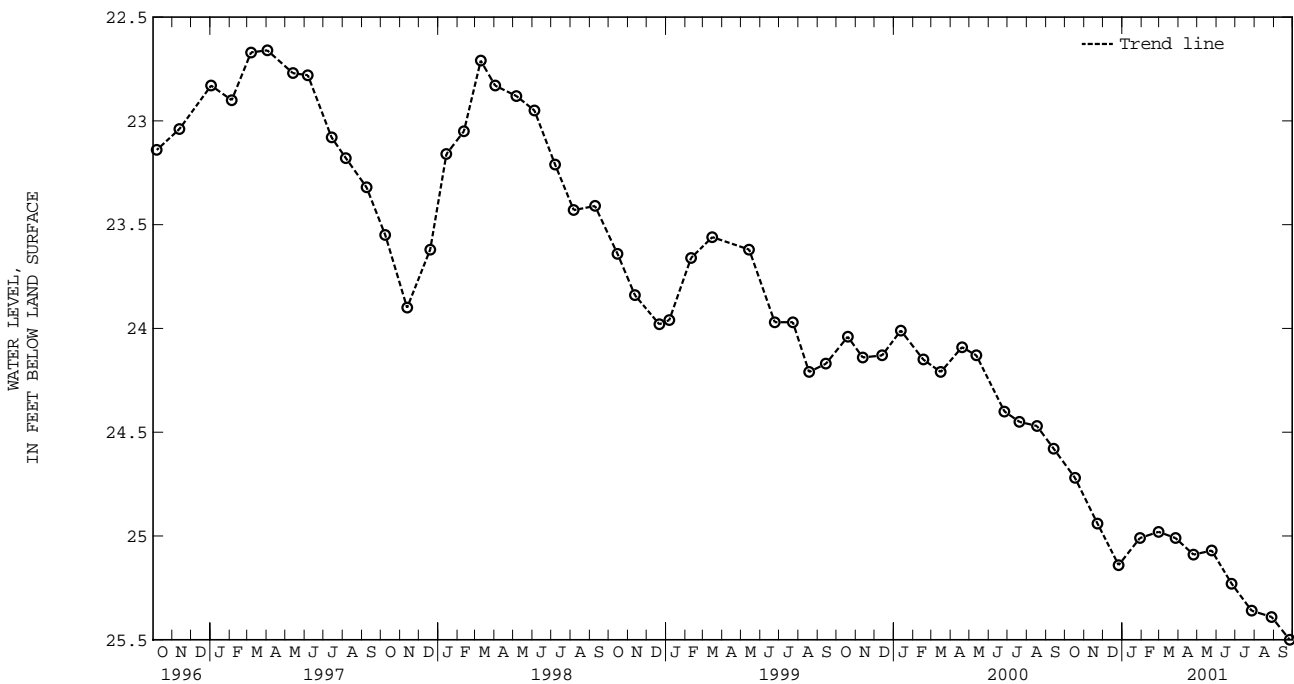
QUEEN ANNES COUNTY

WELL NUMBER.--QA Be 15. SITE ID.--391203076024301. PERMIT NUMBER.--QA-70-0130.  
 LOCATION.--Lat 39°12'03", long 76°02'43", Hydrologic Unit 02060002, at Kingstown off MD Rt. 213.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,171 ft; casing diameter 4 in., to 1,161 ft; screen diameter 4 in. from 1,161 to 1,171 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from February 1988 to April 1991.  
 DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.52 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--March 1971 to October 1972, July 1977 to December 1978, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.52 ft below land surface, Oct. 10, 1971; lowest measured, 25.50 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	24.72	JAN 29, 2001	25.01	APR 25, 2001	25.09	JUL 27, 2001	25.36
NOV 22	24.94	FEB 28	24.98	MAY 24	25.07	AUG 28	25.39
DEC 26	25.14	MAR 27	25.01	JUN 25	25.23	SEP 26	25.50

WATER YEAR 2001 HIGHEST 24.72 OCT 17, 2000 LOWEST 25.50 SEP 26, 2001



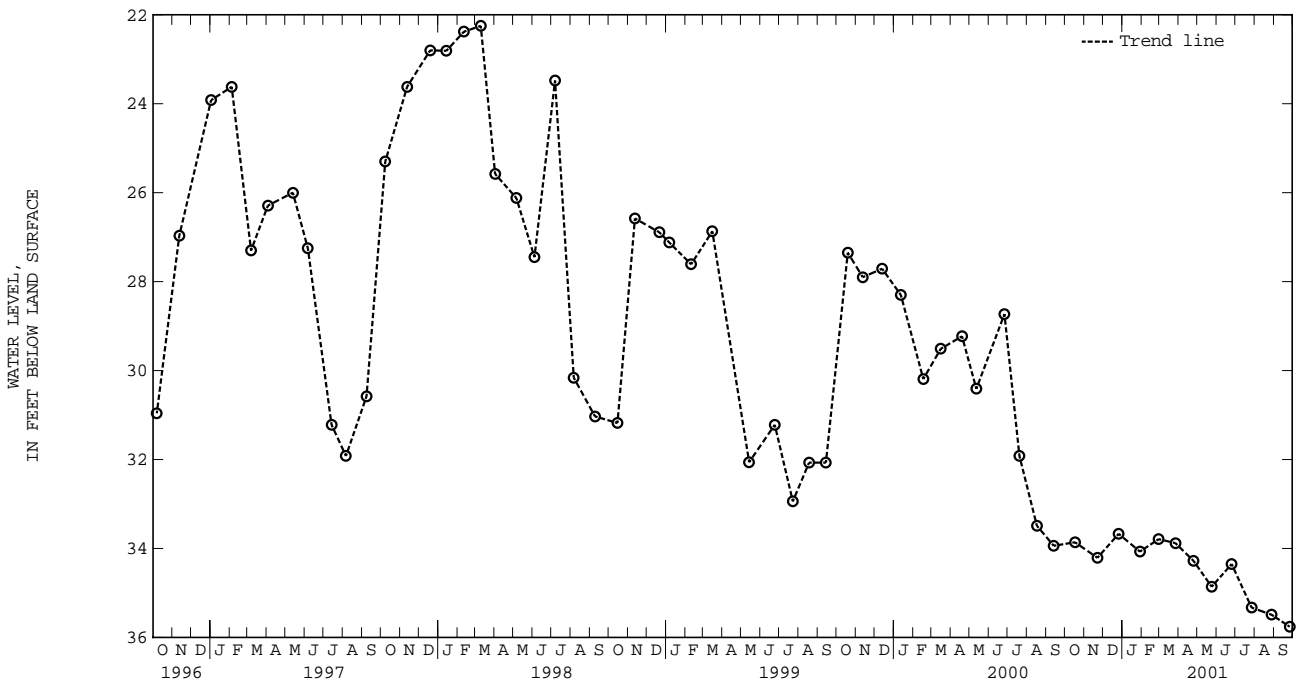
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Be 16. SITE ID.--391203076024302. PERMIT NUMBER.--QA-70-0130.  
 LOCATION.--Lat 39°12'03", long 76°02'43", Hydrologic Unit 02060002, at Kingstown off MD Rt. 213.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 495 ft; casing diameter 6 in., to 475 ft; screen diameter 6 in. from 475 to 495 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from February 1988 to April 1991.  
 DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.70 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--March 1971 to September 1972, July 1977 to May 1979, October 1986 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.41 ft below land surface, Sept. 11, 1971; lowest measured, 35.76 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	33.86	JAN 29, 2001	34.07	APR 25, 2001	34.28	JUL 27, 2001	35.33
NOV 22	34.21	FEB 28	33.79	MAY 24	34.86	AUG 28	35.49
DEC 26	33.67	MAR 27	33.88	JUN 25	34.35	SEP 26	35.76
WATER YEAR 2001 HIGHEST 33.67 DEC 26, 2000		LOWEST 35.76		SEP 26, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Be 17. SITE ID.--391203076024303.

LOCATION.--Lat 39°12'03", long 76°02'43", Hydrologic Unit 02060002, at Kingstown off MD Rt. 213.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 120 ft; casing diameter 6 in., to 100 ft; screen diameter 6 in. from 100 to 120 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from February 1988 to April 1991.

DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

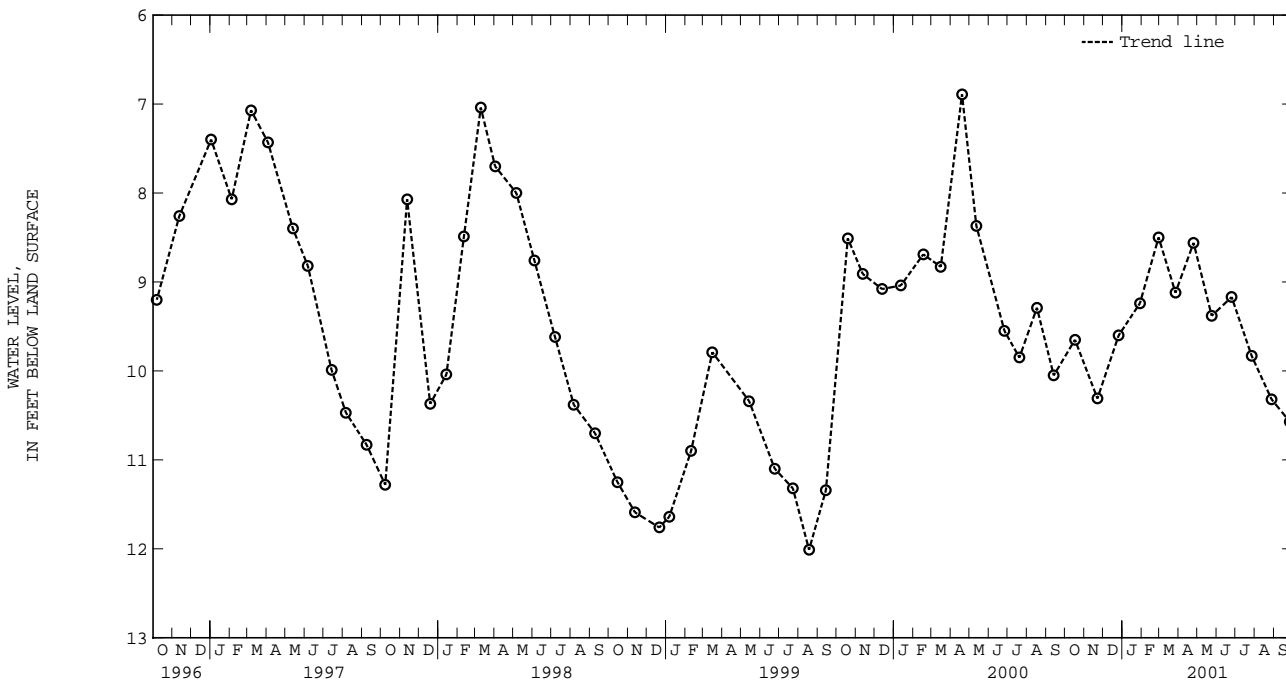
PERIOD OF RECORD.--July 1977 to July 1979, October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.94 ft below land surface, March 6, 1979; lowest measured, 13.00 ft below land surface, Sept. 30, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 2000	9.65	JAN 29, 2001	9.24	APR 25, 2001	8.56	JUL 27, 2001	9.83
NOV 22	10.31	FEB 28	8.50	MAY 24	9.38	AUG 28	10.32
DEC 26	9.60	MAR 27	9.12	JUN 25	9.17	SEP 26	10.57

WATER YEAR 2001 HIGHEST 8.50 FEB 28, 2001 LOWEST 10.57 SEP 26, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Cg 1. SITE ID.--390841075515201. PERMIT NUMBER.--QA-00-3949.

LOCATION.--Lat 39°08'41", long 75°51'52", Hydrologic Unit 02060002, at Barclay.

Owner: Town of Barclay.

AQUIFER.--Pensauken Formation of Upper Miocene age. Aquifer code: 122PNSK.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, reported depth 60 ft, measured depth 44 ft; casing diameter 4 in., to 50 ft; screened from 50 to 60 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 69 ft above sea level, from topographic map.

Measuring point: Lip of hose connector, 1.90 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

Reported water level 4.0 ft below land surface, June 10, 1949.

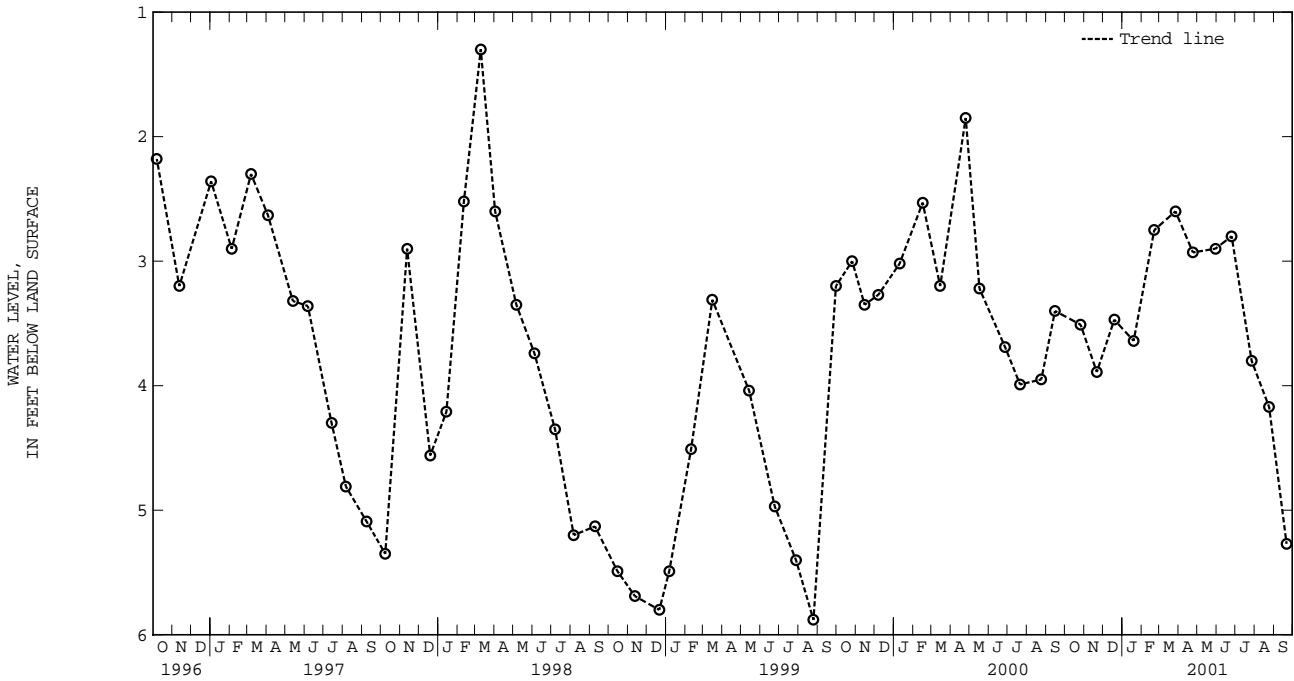
PERIOD OF RECORD.--July 1953, May 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft below land surface, March 10, 1998;

lowest measured, 6.47 ft below land surface, Jan. 3, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	3.51	JAN 19, 2001	3.64	APR 24, 2001	2.93	JUL 27, 2001	3.80
NOV 21	3.89	FEB 21	2.75	MAY 30	2.90	AUG 24	4.17
DEC 19	3.47	MAR 27	2.60	JUN 25	2.80	SEP 21	5.27
WATER YEAR 2001 HIGHEST 2.60		MAR 27, 2001		LOWEST 5.27		SEP 21, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 30. SITE ID.--390201076182701. PERMIT NUMBER.--QA-81-0473.  
 LOCATION.--Lat 39°02'01", long 76°18'27", Hydrologic Unit 02060002, north side of Pier Avenue, 0.5 mi south of Love Point.  
 Owner: Maryland Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 220 ft; casing diameter 4 in., to 210 ft; screen diameter 4 in. from 210 to 220 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 17.80 ft above sea level.

Measuring point: Top of casing, 2.41 ft above land surface.

REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.

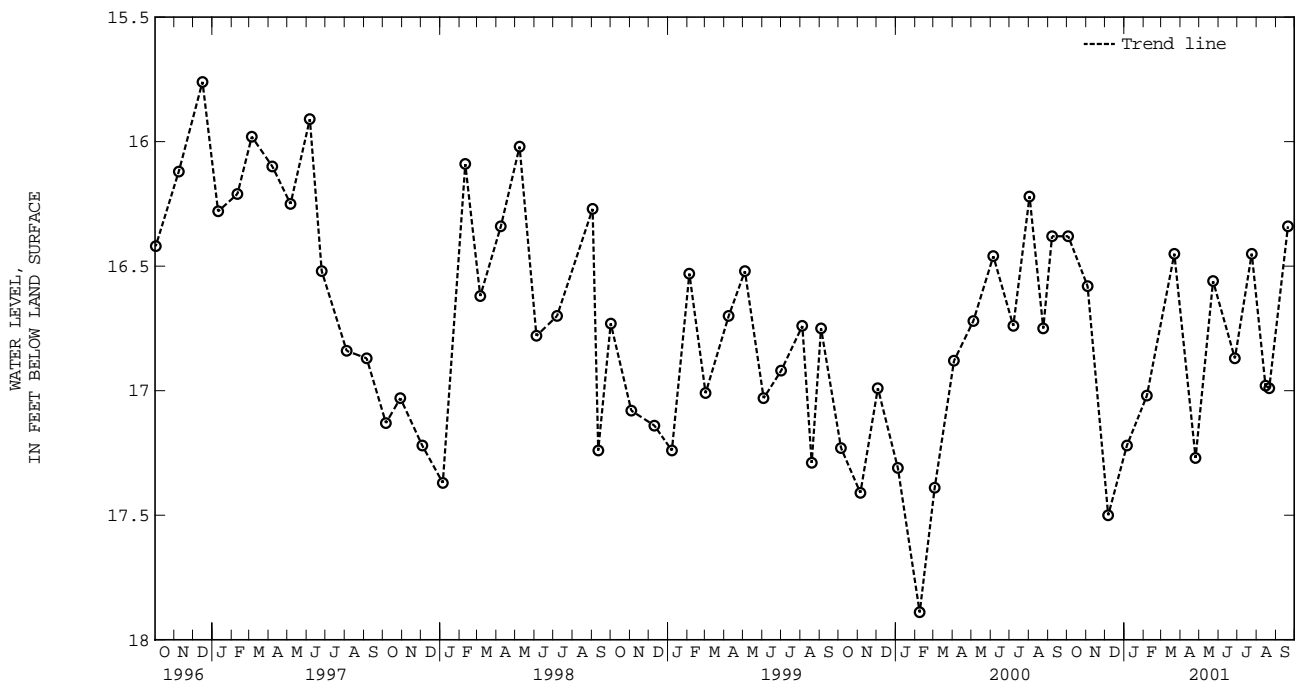
PERIOD OF RECORD.--April 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.59 ft below land surface, April 9, 1993;  
 lowest measured, 18.37 ft below land surface, March 3, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	16.38	FEB 06, 2001	17.02	JUN 27, 2001	16.87	SEP 20, 2001	16.34
NOV 03	16.58	MAR 22	16.45	JUL 24	16.45		
DEC 06	17.50	APR 25	17.27	AUG 15	16.98		
JAN 05, 2001	17.22	MAY 23	16.56	21	16.99		

WATER YEAR 2001 HIGHEST 16.34 SEP 20, 2001 LOWEST 17.50 DEC 06, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

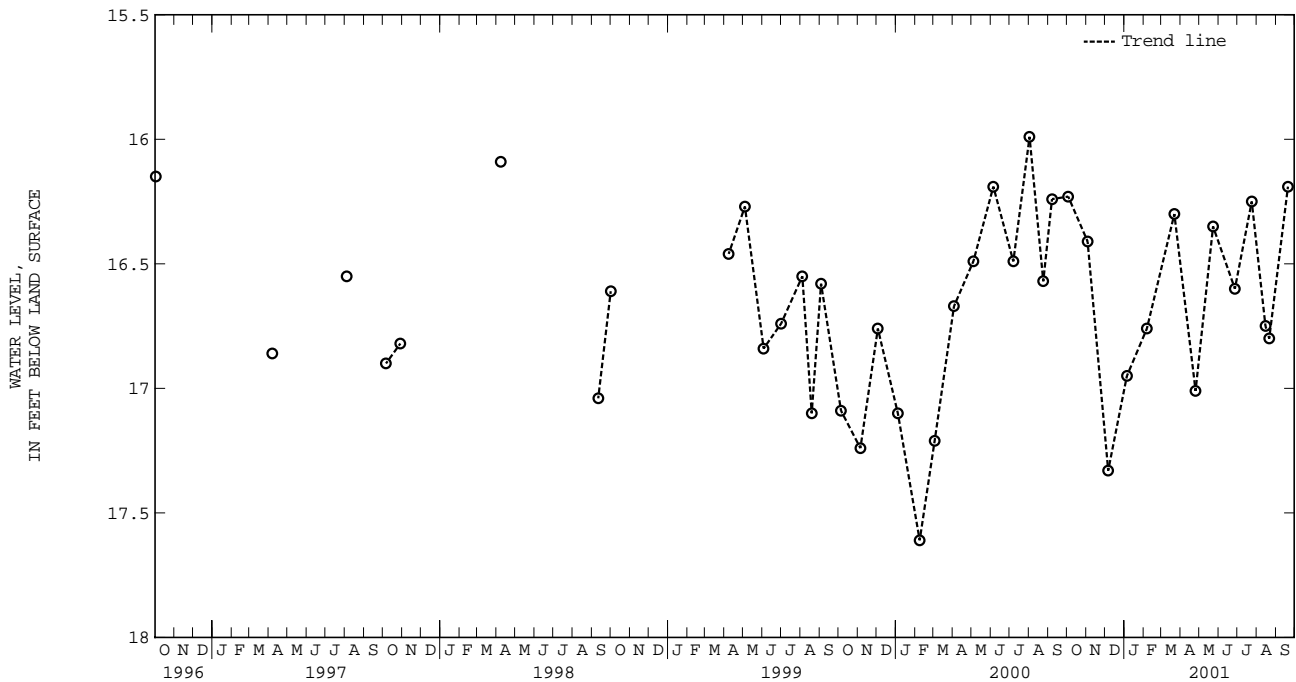
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 32. SITE ID.--390201076182703. PERMIT NUMBER.--QA-81-0473.  
 LOCATION.--Lat 39°02'01", long 76°18'27", Hydrologic Unit 02060002, north side of Pier Avenue, 0.5 mi south of Love Point.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 116 ft; casing diameter 4 in., to 106 ft; screen diameter 4 in. from 106 to 116 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from May 1985 to February 1999.  
 DATUM.--Elevation of land surface is 18.00 ft above sea level.  
 Measuring point: Top of casing, 2.11 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--May 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.80 ft below land surface, Dec. 2, 1985; lowest measured, 17.83 ft below land surface, Dec. 8, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	16.23	FEB 06, 2001	16.76	JUN 27, 2001	16.60	SEP 20, 2001	16.19
NOV 03	16.41	MAR 22	16.30	JUL 24	16.25		
DEC 06	17.33	APR 25	17.01	AUG 15	16.75		
JAN 05, 2001	16.95	MAY 23	16.35	21	16.80		
WATER YEAR 2001 HIGHEST 16.19		SEP 20, 2001		LOWEST 17.33		DEC 06, 2000	

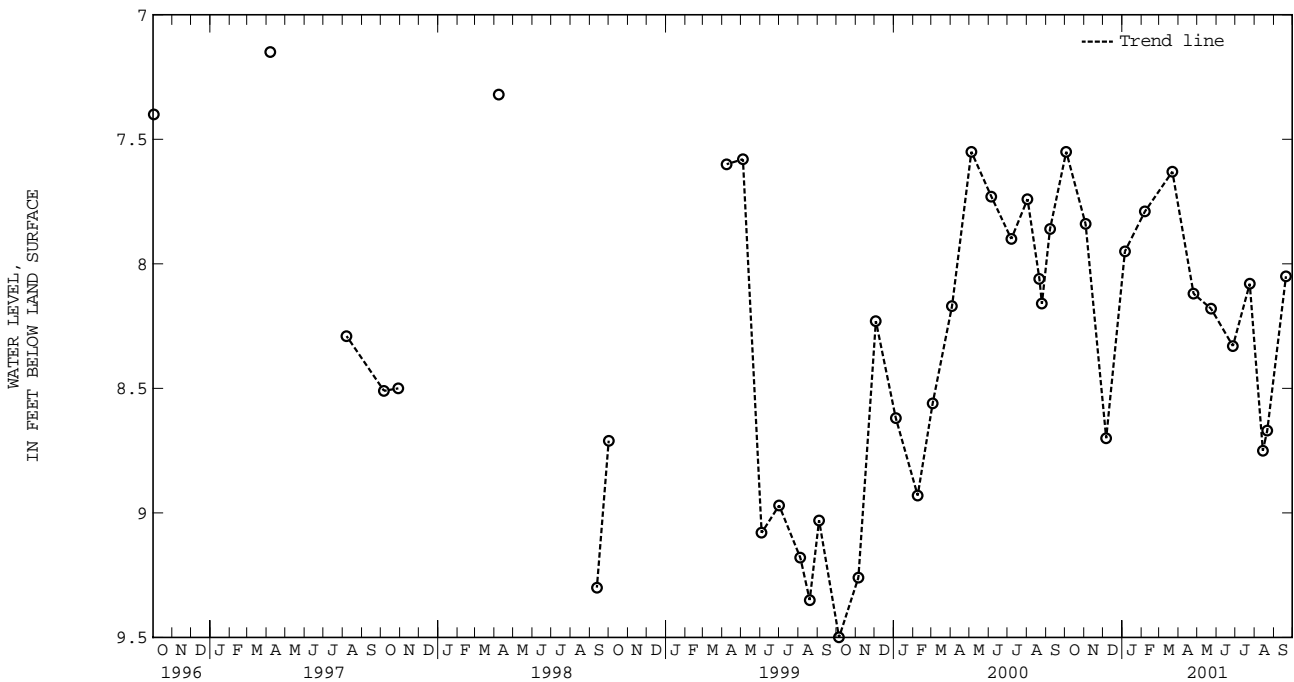


QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 34. SITE ID.--390023076174301. PERMIT NUMBER.--QA-81-0471.  
 LOCATION.--Lat 39°00'23", long 76°17'43", Hydrologic Unit 02060002, near Cloverfields community park, Kent Island.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 4 in., to 170 ft;  
 screen diameter 4 in. from 170 to 180 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from April 1985 to February 1999.  
 DATUM.--Elevation of land surface is 7.40 ft above sea level.  
 Measuring point: Top of casing, 2.50 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.15 ft below land surface, April 7, 1997;  
 lowest measured, 9.72 ft below land surface, Nov. 13, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	7.55	FEB 06, 2001	7.79	JUN 27, 2001	8.33	SEP 20, 2001	8.05
NOV 03	7.84	MAR 22	7.63	JUL 24	8.08		
DEC 06	8.70	APR 25	8.12	AUG 14	8.75		
JAN 05, 2001	7.95	MAY 23	8.18	AUG 21	8.67		
WATER YEAR 2001 HIGHEST 7.55 OCT 03, 2000		LOWEST 8.75		AUG 14, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



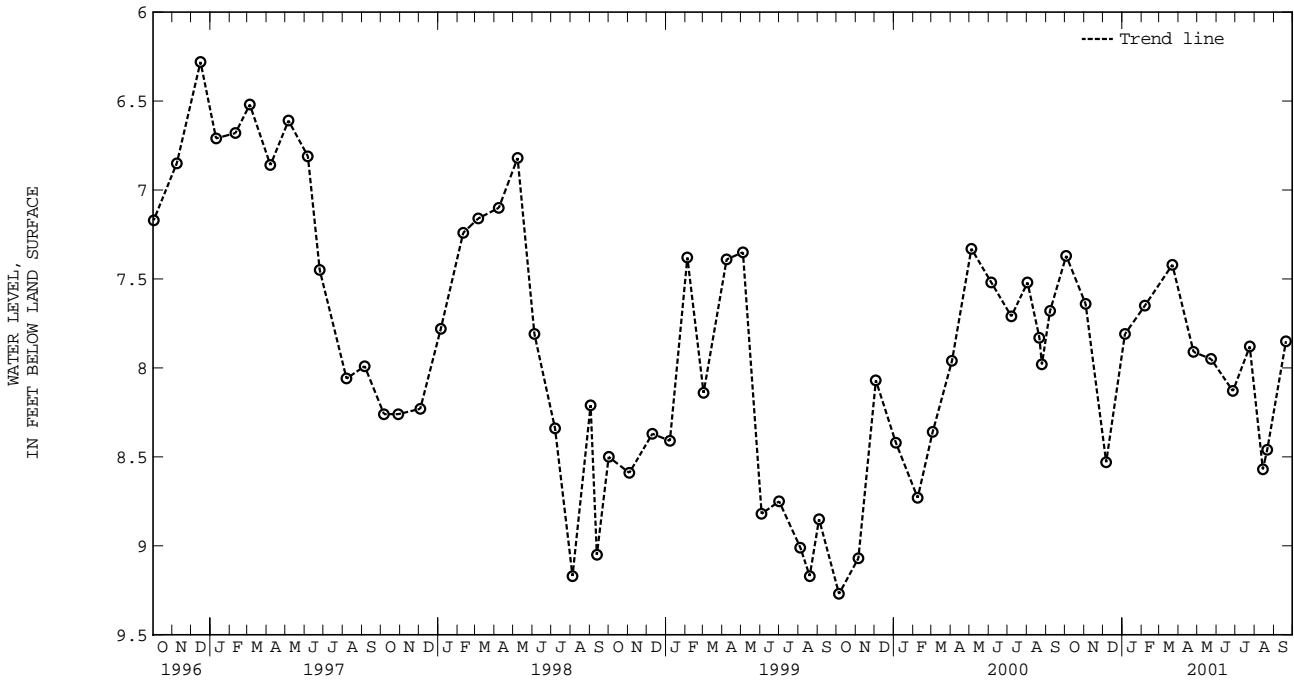
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 37. SITE ID.--390023076174302. PERMIT NUMBER.--QA-81-0471.  
 LOCATION.--Lat 39°00'23", long 76°17'43", Hydrologic Unit 02060002, near Cloverfield community park, Kent Island.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 4 in., to 240 ft; screen diameter 4 in. from 240 to 250 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 7.10 ft above sea level.  
 Measuring point: Top of casing, 2.51 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.  
 PERIOD OF RECORD.--April 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.28 ft below land surface, April 9, 1993, and Dec. 16, 1996; lowest measured, 9.74 ft below land surface, Jan. 11, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	7.37	FEB 06, 2001	7.65	JUN 27, 2001	8.13	SEP 20, 2001	7.85
NOV 03	7.64	MAR 22	7.42	JUL 24	7.88		
DEC 06	8.53	APR 25	7.91	AUG 14	8.57		
JAN 05, 2001	7.81	MAY 23	7.95	21	8.46		

WATER YEAR 2001    HIGHEST    7.37    OCT 03, 2000    LOWEST    8.57    AUG 14, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA De 27. SITE ID.--390251076034401.

LOCATION.--Lat 39°02'51", long 76°03'44", Hydrologic Unit 02060002, at Sheriff's Office, Centreville.

Owner: Town of Centreville.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, reported depth 665 ft, measured depth 380 ft; casing diameter 8 in., to 170 ft; screen depth unknown.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

Equipped with digital water-level recorder--15-minute recording interval, September 1999 to July 2000.

DATUM.--Elevation of land surface is 10.19 ft above sea level.

Measuring point: Top of shelter platform, 2.03 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

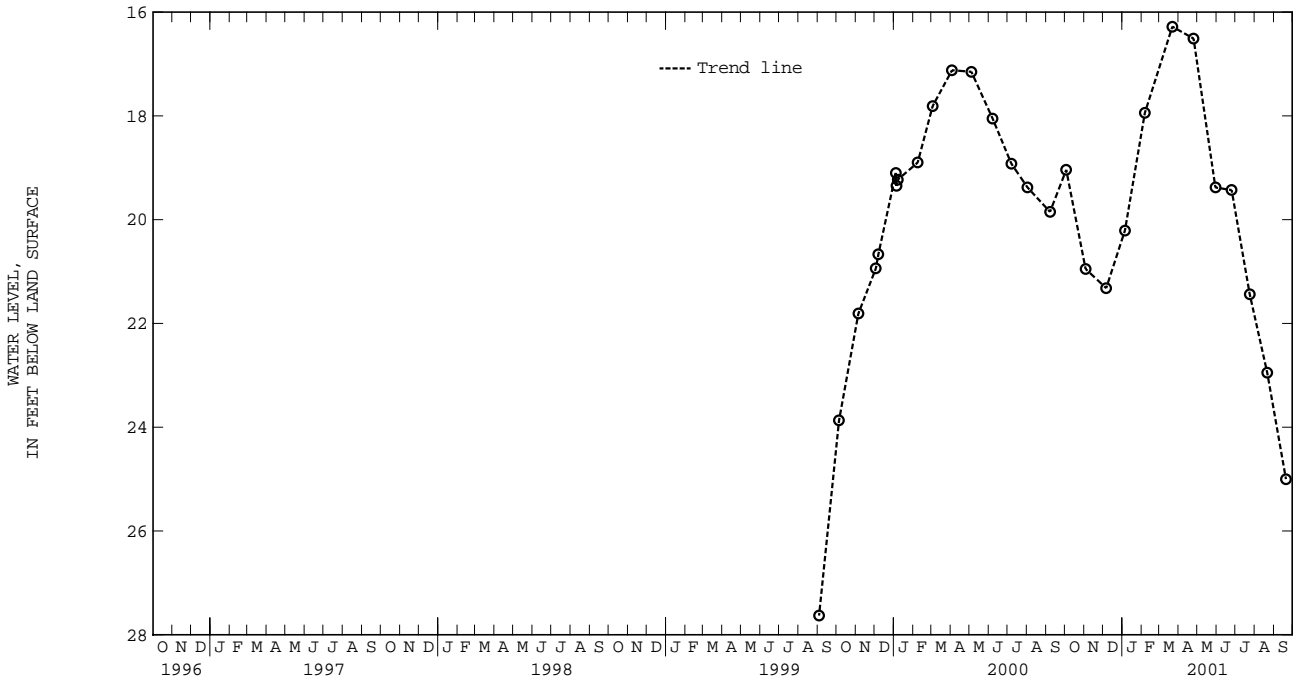
PERIOD OF RECORD.--September 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.28 ft below land surface, March 22, 2001;

lowest measured, 27.63 ft below land surface, Sept. 3, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	19.04	JAN 05, 2001	20.21	APR 25, 2001	16.51	JUL 24, 2001	21.44
NOV 03	20.95	FEB 06	17.94	MAY 30	19.38	AUG 21	22.95
DEC 06	21.32	MAR 22	16.28	JUN 25	19.43	SEP 20	25.00
WATER YEAR 2001		HIGHEST	16.28	MAR 22, 2001	LOWEST	25.00	SEP 20, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

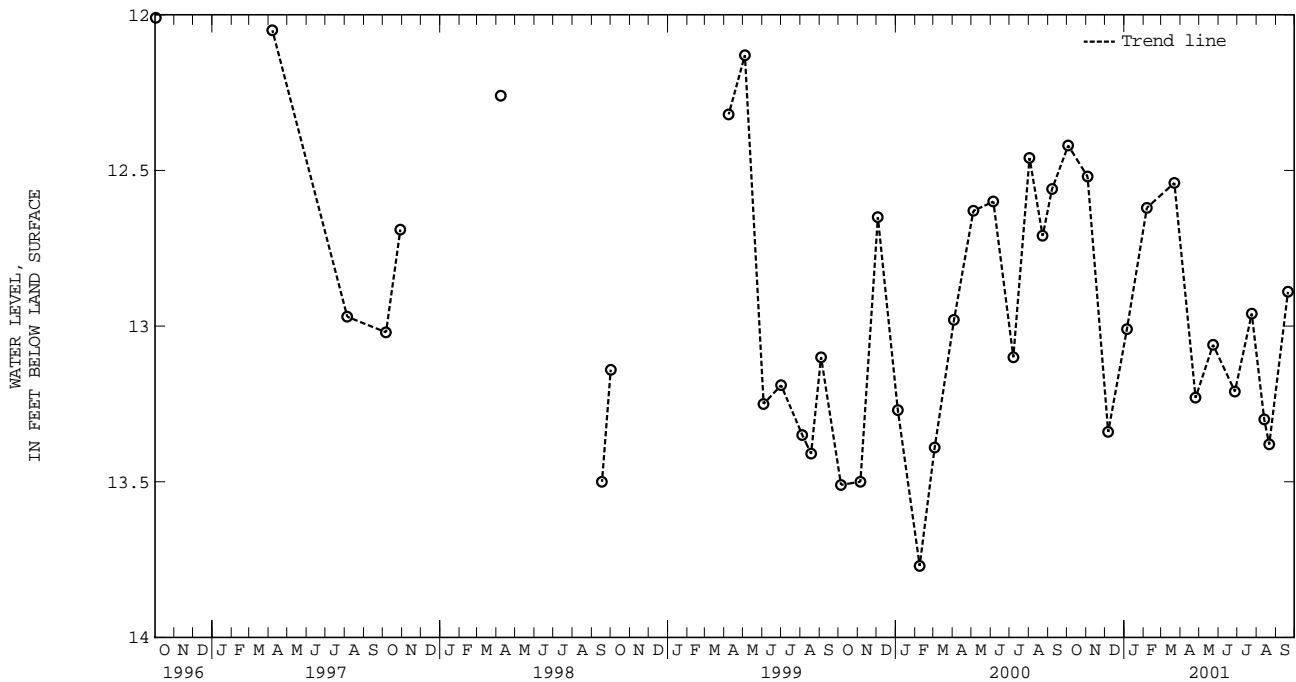
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 77. SITE ID.--385718076211501. PERMIT NUMBER.--QA-81-0474.  
 LOCATION.--Lat 38°57'18", long 76°21'15", Hydrologic Unit 02060002, at Matapeake State Park.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 205 ft; casing diameter 4 in., to 195 ft;  
 screen diameter 4 in. from 195 to 205 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from April 1985 to February 1999.  
 DATUM.--Elevation of land surface is 10.80 ft above sea level.  
 Measuring point: Top of casing, 2.25 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.07 ft below land surface, Dec. 2, 1985;  
 lowest measured, 13.76 ft below land surface, Feb. 8, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	12.42	FEB 06, 2001	12.62	JUN 27, 2001	13.21	SEP 20, 2001	12.89
NOV 03	12.52	MAR 22	12.54	JUL 24	12.96		
DEC 06	13.34	APR 25	13.23	AUG 13	13.30		
JAN 05, 2001	13.01	MAY 23	13.06	21	13.38		

WATER YEAR 2001    HIGHEST    12.42    OCT 03, 2000    LOWEST    13.38    AUG 21, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 78. SITE ID.--385718076211502 . PERMIT NUMBER.--QA-81-0474.  
 LOCATION.--Lat 38°57'18", long 76°21'15", Hydrologic Unit 02060002, at Matapeake State Park.  
 Owner: Maryland Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 135 ft; casing diameter 4 in., to 125 ft;  
 screen diameter 4 in. from 125 to 135 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 11.80 ft above sea level.

Measuring point: Top of casing, 1.91 ft above land surface.

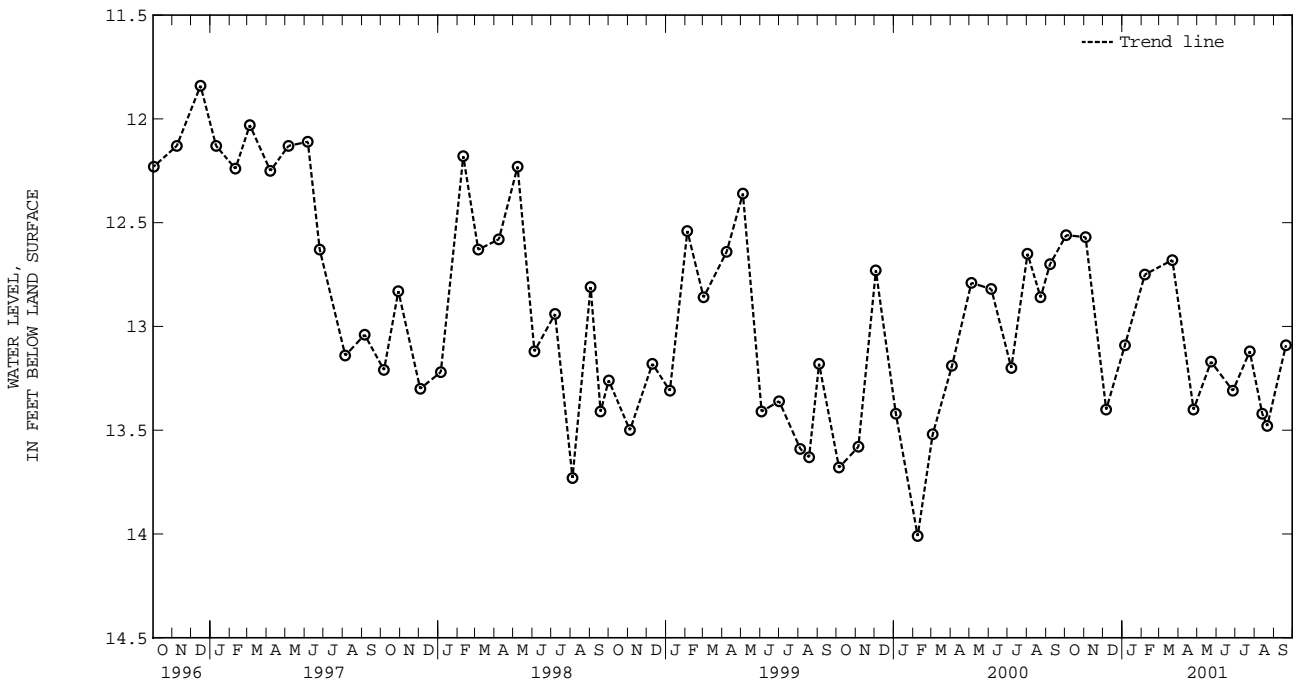
REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.

PERIOD OF RECORD.--April 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.45 ft below land surface, June 4, 1992;  
 lowest measured, 14.02 ft below land surface, Jan. 11, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	12.56	FEB 06, 2001	12.75	JUN 27, 2001	13.31	SEP 20, 2001	13.09
NOV 03	12.57	MAR 22	12.68	JUL 24	13.12		
DEC 06	13.40	APR 25	13.40	AUG 13	13.42		
JAN 05, 2001	13.09	MAY 23	13.17	21	13.48		
WATER YEAR 2001 HIGHEST 12.56 OCT 03, 2000		LOWEST 13.48		AUG 21, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

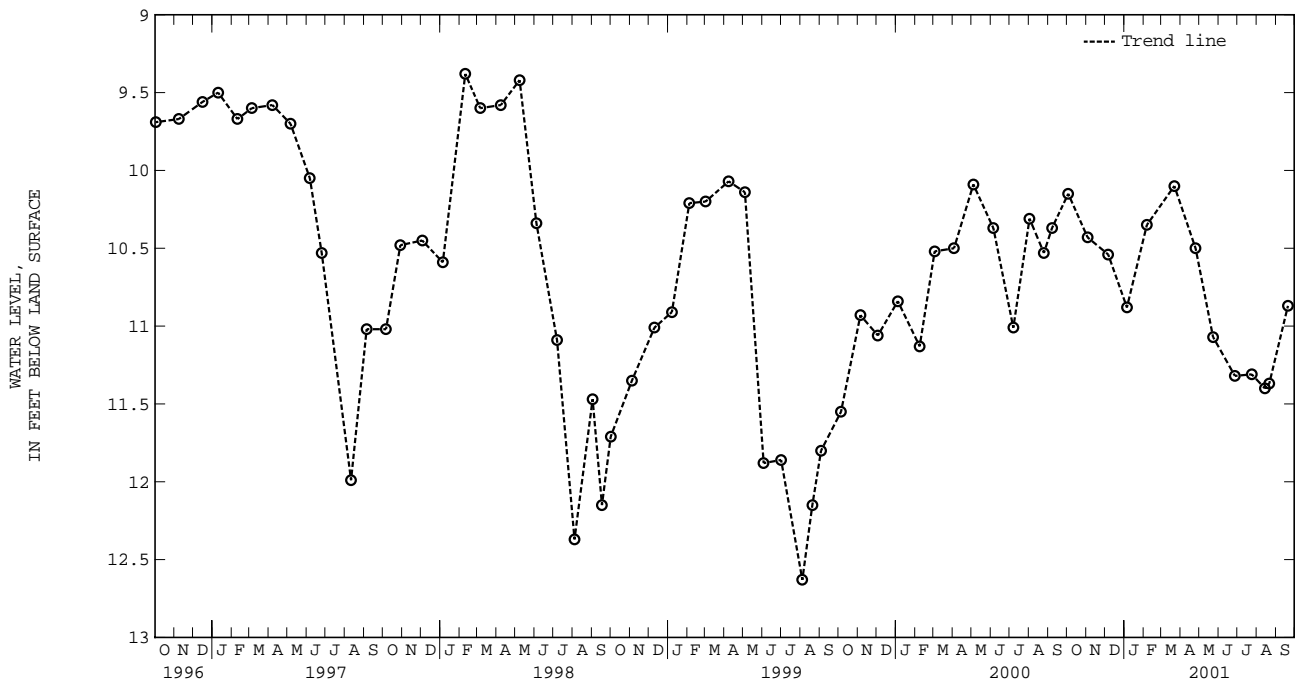


QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 79. SITE ID.--385757076200101. PERMIT NUMBER.--QA-81-0469.  
 LOCATION.--Lat 38°57'57", long 76°20'01", Hydrologic Unit 02060002, at Mowbray Park, Kent Island.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 298 ft; casing diameter 4 in., to 288 ft; screen diameter 4 in. from 288 to 298 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Measured twice yearly from October 1986 to April 1989.  
 DATUM.--Elevation of land surface is 8.30 ft above sea level.  
 Measuring point: Top of casing, 2.31 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.  
 PERIOD OF RECORD.--April 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.30 ft below land surface, Dec. 2, 1985; lowest measured, 12.65 ft below land surface, Aug. 3, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	10.15	FEB 06, 2001	10.35	JUN 27, 2001	11.32	SEP 20, 2001	10.87
NOV 03	10.43	MAR 22	10.10	JUL 24	11.31		
DEC 06	10.54	APR 25	10.50	AUG 14	11.40		
JAN 05, 2001	10.88	MAY 23	11.07	AUG 21	11.37		
WATER YEAR 2001 HIGHEST 10.10 MAR 22, 2001		LOWEST 11.40		AUG 14, 2001			



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

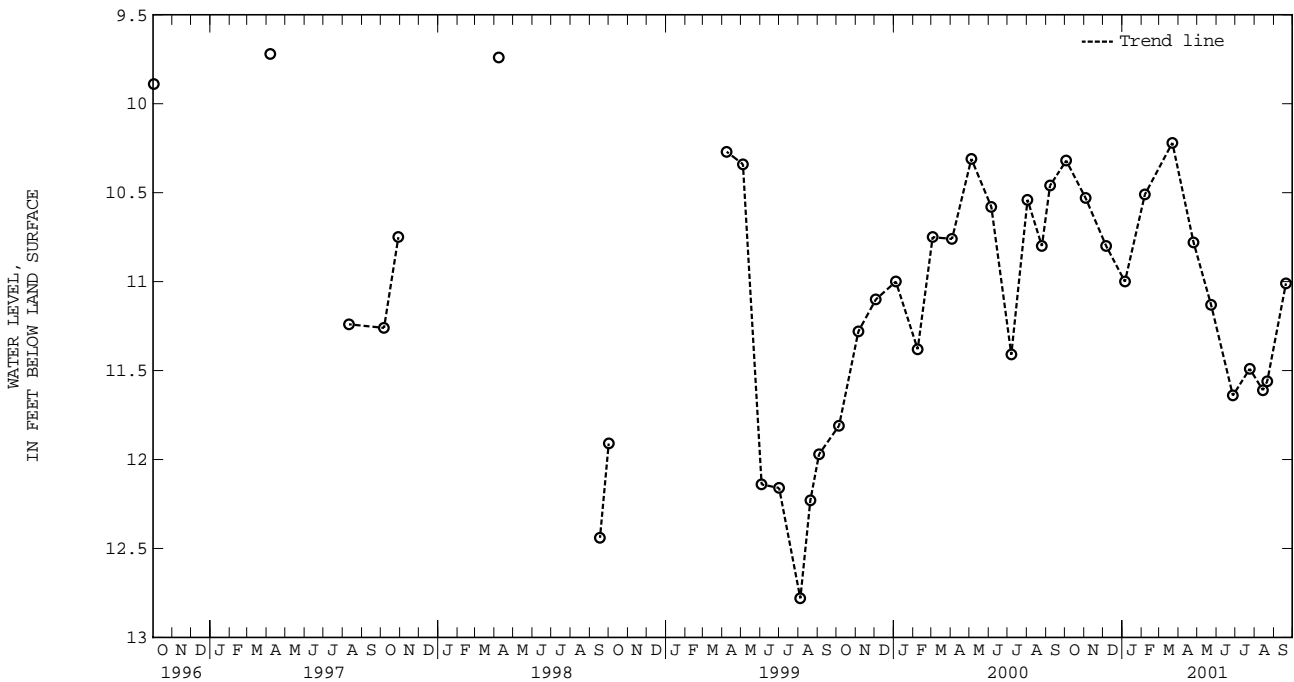
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 80. SITE ID.--385757076200102. PERMIT NUMBER.--QA-81-0469.  
 LOCATION.--Lat 38°57'57", long 76°20'01", Hydrologic Unit 02060002, at Mowbray Park, Kent Island.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 130 ft; casing diameter 4 in., to 120 ft; screen diameter 4 in. from 120 to 130 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from October 1986 to February 1999.  
 DATUM.--Elevation of land surface is 8.50 ft above sea level.  
 Measuring point: Top of casing, 2.51 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.  
 PERIOD OF RECORD.--April 1985 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.45 ft below land surface, Dec. 2, 1985;  
 lowest measured, 12.87 ft below land surface, Oct. 8, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	10.32	FEB 06, 2001	10.51	JUN 27, 2001	11.64	SEP 20, 2001	11.01
NOV 03	10.53	MAR 22	10.22	JUL 24	11.49		
DEC 06	10.80	APR 25	10.78	AUG 14	11.61		
JAN 05, 2001	11.00	MAY 23	11.13	AUG 21	11.56		
WATER YEAR 2001 HIGHEST		10.22 MAR 22, 2001	LOWEST		11.64 JUN 27, 2001		





GROUND-WATER LEVELS IN MARYLAND--Continued

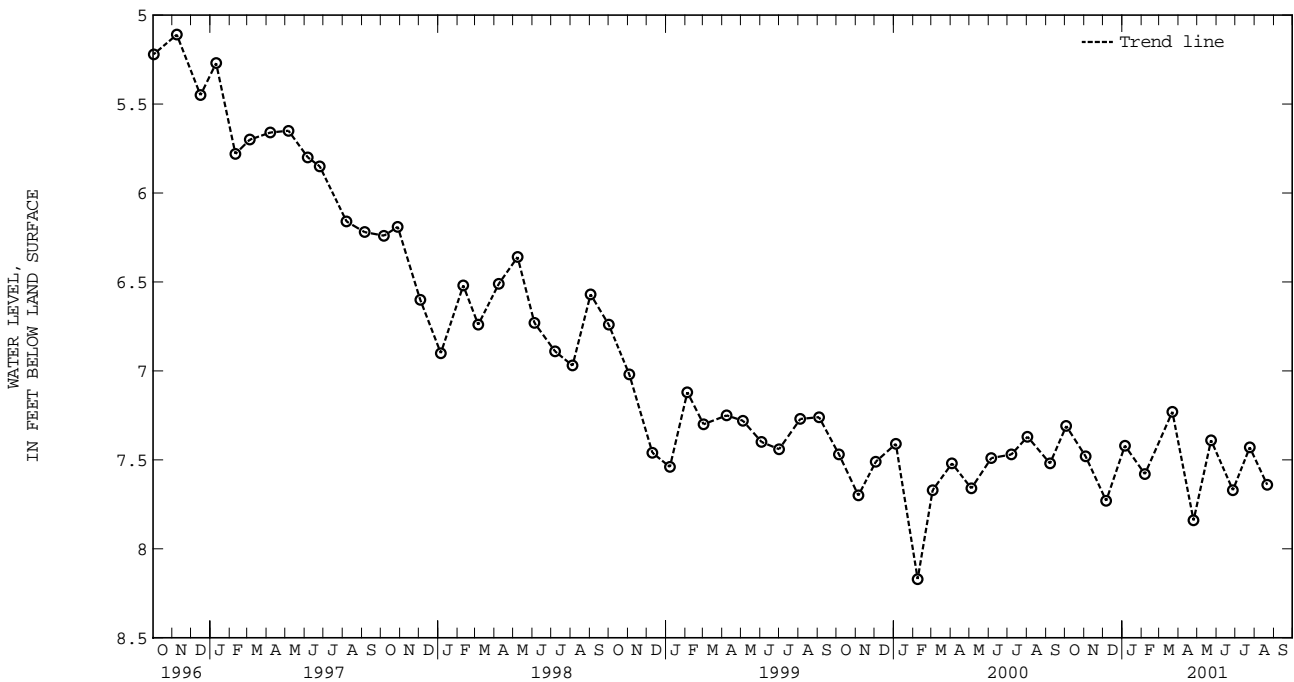
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 110. SITE ID.--385751076171603. PERMIT NUMBER.--QA-73-2979.  
 LOCATION.--Lat 38°57'51", long 76°17'16", Hydrologic Unit 02060002, near Chester, Kent Island.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 2,485 ft; casing diameter 4 in., to 2,413 ft, 2,423 to 2,465 ft and 2,475 to 2,485 ft; screen diameter 4 in., from 2,413 to 2,423 ft, and 2,465 to 2,475 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from January 1980 to October 1989.  
 DATUM.--Elevation of land surface is 13.98 ft above sea level.  
 Measuring point: Top of casing, 3.36 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--January 1980 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.99 ft above land surface, Jan. 21, 1980;  
 lowest measured, 8.17 ft below land surface, Feb. 8, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	7.31	JAN 05, 2001	7.42	APR 25, 2001	7.84	JUL 24, 2001	7.43
NOV 03	7.48	FEB 06	7.58	MAY 23	7.39	AUG 21	7.64
DEC 06	7.73	MAR 22	7.23	JUN 27	7.67		

WATER YEAR 2001    HIGHEST    7.23    MAR 22, 2001    LOWEST    7.84    APR 25, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

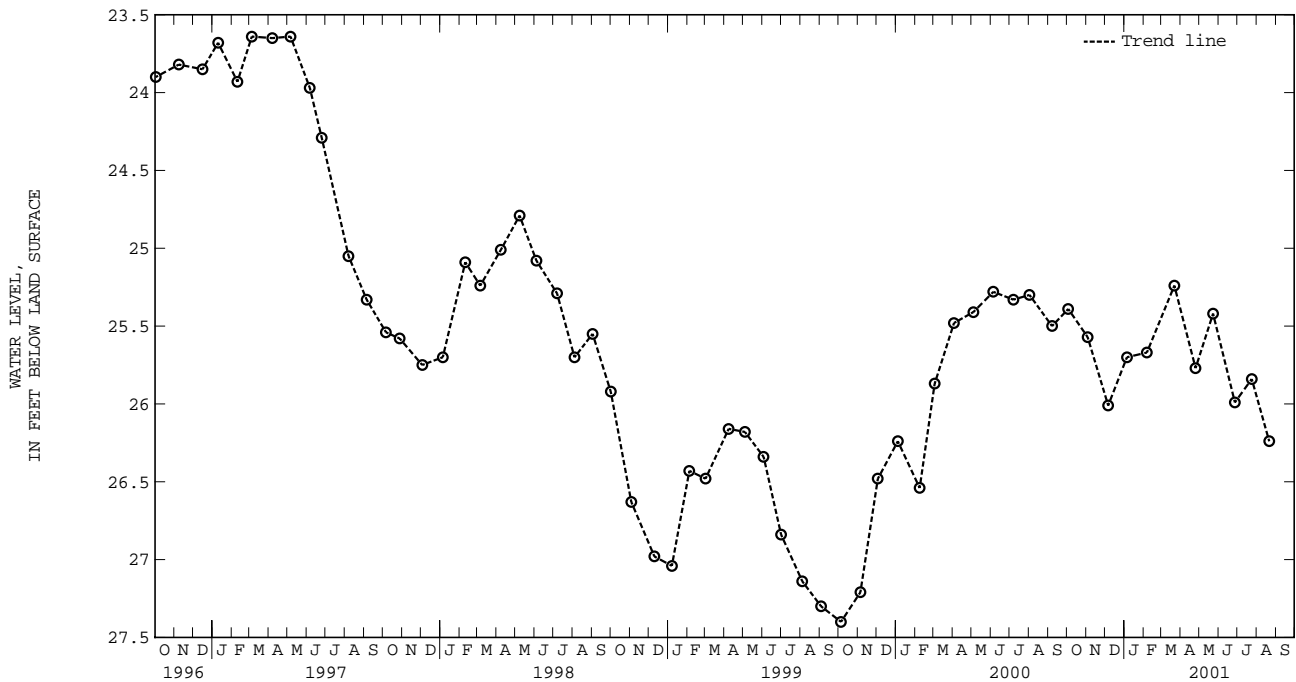
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 111. SITE ID.--385751076171601. PERMIT NUMBER.--QA-73-3122.  
 LOCATION.--Lat 38°57'51", long 76°17'16", Hydrologic Unit 02060002, near Chester, Kent Island.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 985 ft; casing diameter 4 in., to 955 ft, and 965 to 975 ft; screen diameter 4 in., from 955 to 965 ft, and 975 to 985 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Twice yearly measurements from April 1984 to September 1989.  
 DATUM.--Elevation of land surface is 14.03 ft above sea level.  
 Measuring point: Top of casing, 1.41 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawals.  
 PERIOD OF RECORD.--December 1979, April 1984 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.02 ft below land surface, Jan. 21, 1980; lowest measured, 27.40 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	25.39	JAN 05, 2001	25.70	APR 25, 2001	25.77	JUL 24, 2001	25.84
NOV 03	25.57	FEB 06	25.67	MAY 23	25.42	AUG 21	26.24
DEC 06	26.01	MAR 22	25.24	JUN 27	25.99		

WATER YEAR 2001 HIGHEST 25.24 MAR 22, 2001 LOWEST 26.24 AUG 21, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

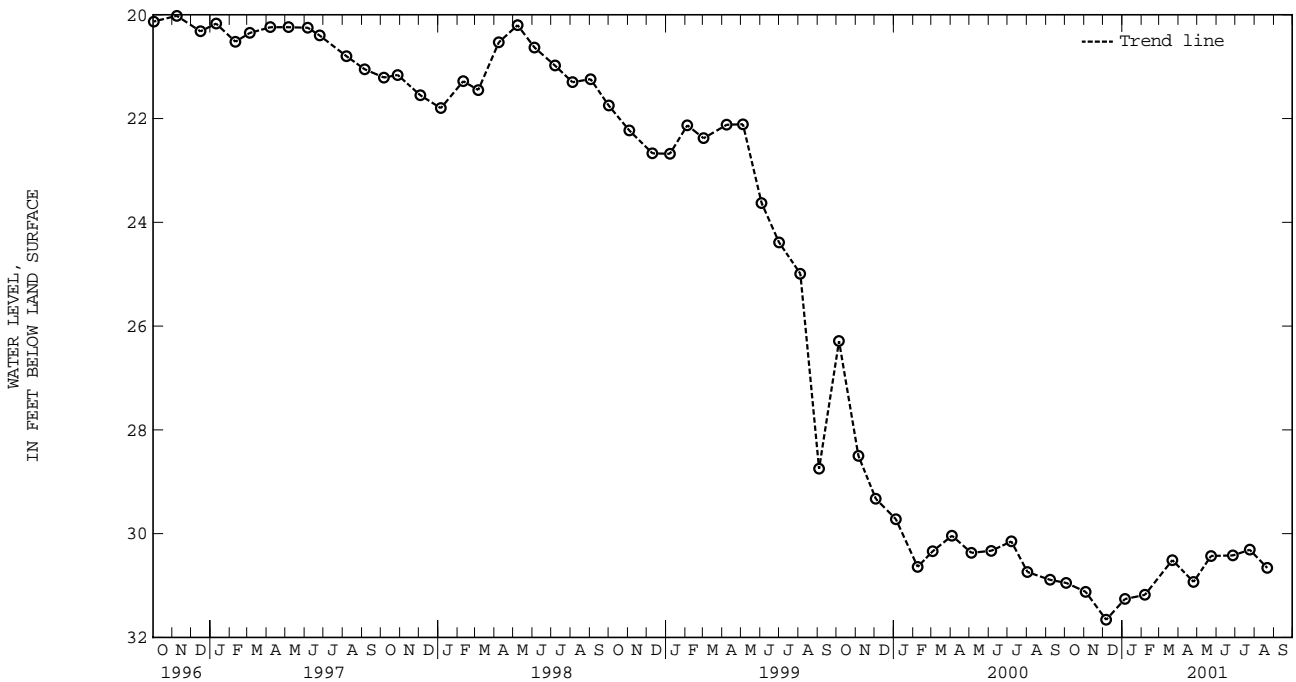
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 112. SITE ID.--385751076171602. PERMIT NUMBER.--QA-73-3123.  
 LOCATION.--Lat 38°57'51", long 76°17'16", Hydrologic Unit 02060002, near Chester, Kent Island.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,679 ft; casing diameter 4 in., to 1,652 ft, and 1,662 to 1,669 ft; screen diameter 4 in., from 1,652 to 1,662 ft, and 1,669 to 1,679 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Twice yearly measurements from January 1980 to September 1980.  
 DATUM.--Elevation of land surface is 13.92 ft above sea level.  
 Measuring point: Top of casing, 1.36 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawals.  
 PERIOD OF RECORD.--January 1980 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.69 ft below land surface, Jan. 21, 1980; lowest measured, 31.66 ft below land surface, Dec. 26, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	30.95	JAN 05, 2001	31.26	APR 25, 2001	30.93	JUL 24, 2001	30.31
NOV 03	31.12	FEB 06	31.18	MAY 23	30.43	AUG 21	30.66
DEC 06	31.66	MAR 22	30.51	JUN 27	30.42		

WATER YEAR 2001 HIGHEST 30.31 JUL 24, 2001 LOWEST 31.66 DEC 06, 2000



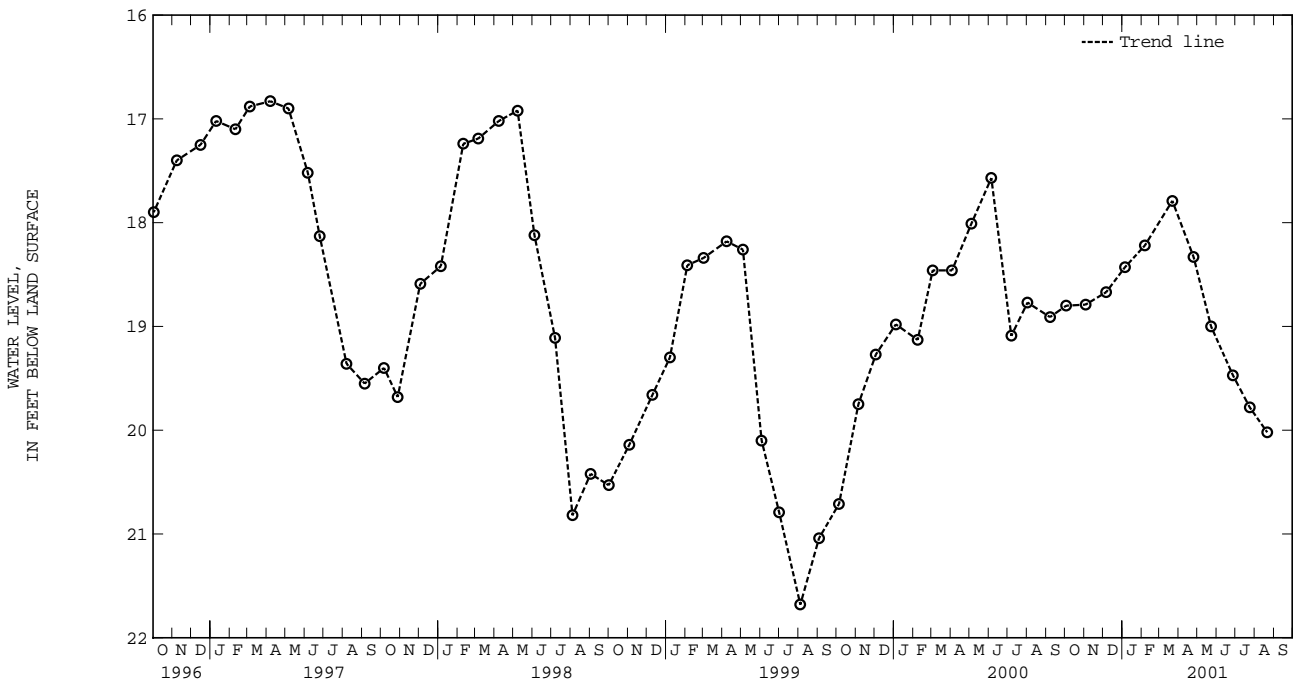
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 113. SITE ID.--385748076172001. PERMIT NUMBER.--QA-73-3172.  
 LOCATION.--Lat 38°57'48", long 76°17'20", Hydrologic Unit 02060001, near Chester, Kent Island.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 216 ft; casing diameter 6 in., to 176 ft; screen diameter 6 in. from 176 to 216 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. Equipped with graphic water-level recorder from June 30, 1986 to October 2, 1994.  
 DATUM.--Elevation of land surface is 11.34 ft above sea level.  
 Measuring Point: Top of shelter platform, 2.60 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals..  
 PERIOD OF RECORD.--October 1982 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.05 ft below land surface, April 18, 1989; lowest measured, 21.68 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	18.80	JAN 05, 2001	18.43	APR 25, 2001	18.33	JUL 24, 2001	19.78
NOV 03	18.79	FEB 06	18.22	MAY 23	19.00	AUG 21	20.02
DEC 06	18.67	MAR 22	17.79	JUN 27	19.47		
WATER YEAR 2001		HIGHEST	17.79	MAR 22, 2001	LOWEST	20.02	AUG 21, 2001







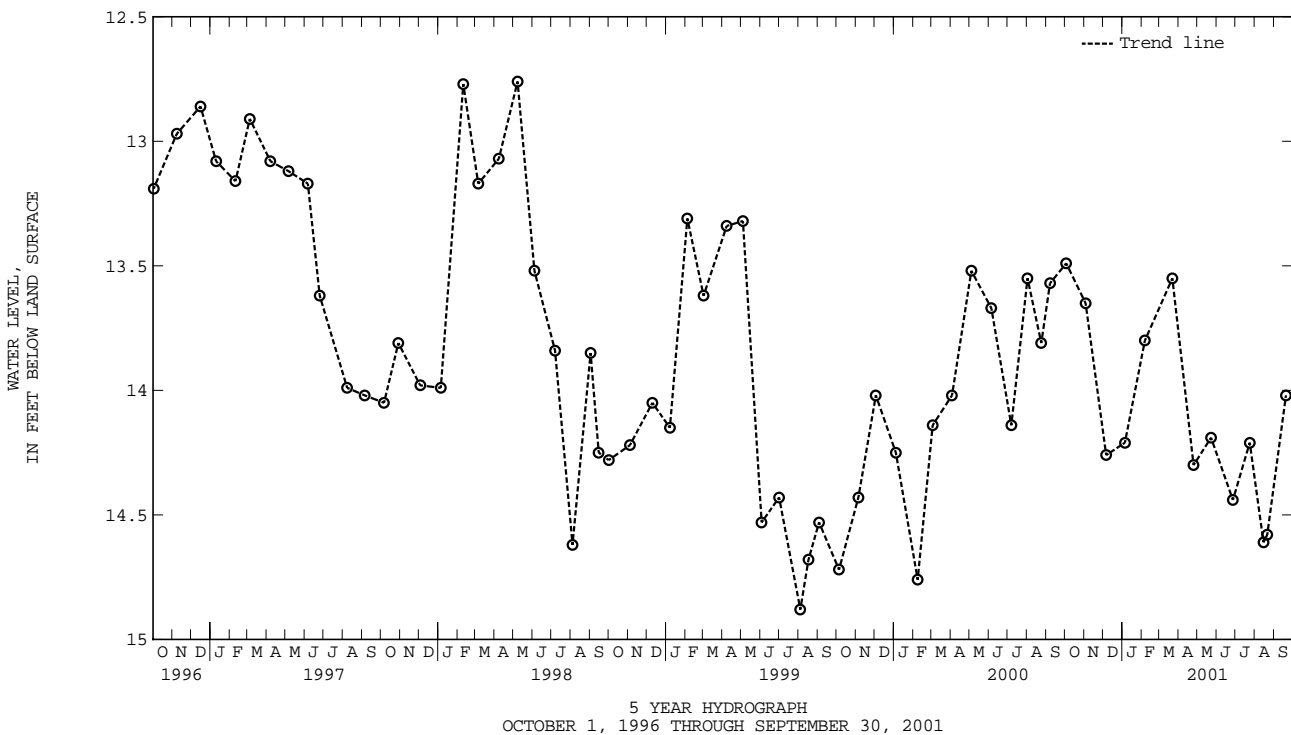
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 156. SITE ID.--385852076195201. PERMIT NUMBER.--QA-81-0475.  
 LOCATION.--Lat 38°58'52", long 76°19'52", Hydrologic Unit 02060002, north of US Rt. 50, at Terrapin Beach Park, Kent Island.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 220 ft; casing diameter 4 in., to 210 ft; screen diameter 4 in. from 210 to 220 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 Measured twice yearly from September 1987 to April 1989.  
 DATUM.--Elevation of land surface is 12.01 ft above sea level.  
 Measuring point: Top of casing, 2.21 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1985 to June 1986, September 1987 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.97 ft below land surface, Aug. 1, 1990;  
 lowest measured, 15.01 ft below land surface, Jan. 11, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	13.49	FEB 06, 2001	13.80	JUN 27, 2001	14.44	SEP 20, 2001	14.02
NOV 03	13.65	MAR 22	13.55	JUL 24	14.21		
DEC 06	14.26	APR 25	14.30	AUG 15	14.61		
JAN 05, 2001	14.21	MAY 23	14.19	AUG 21	14.58		

WATER YEAR 2001    HIGHEST    13.49    OCT 03, 2000    LOWEST    14.61    AUG 15, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

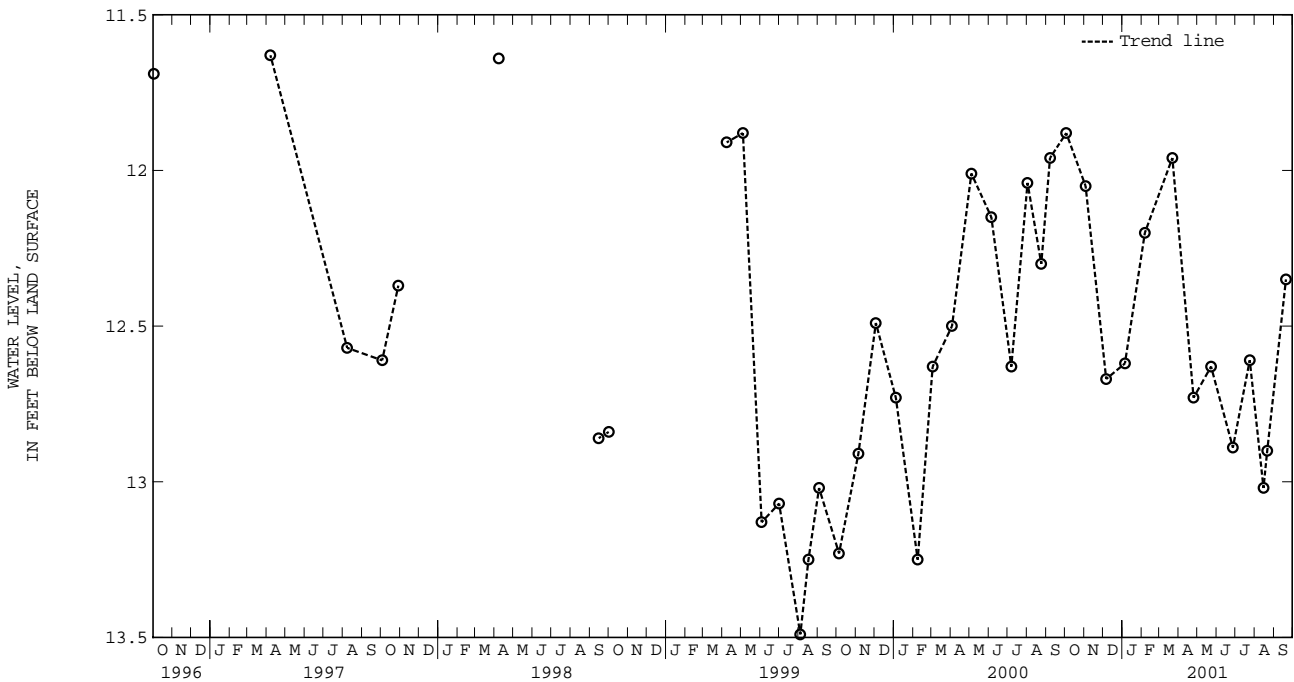
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 157. SITE ID.--385852076195202. PERMIT NUMBER.--QA-81-0475.  
 LOCATION.--Lat 38°58'52", long 76°19'52", Hydrologic Unit 02060002, north of US Rt. 50, Terrapin Beach Park, Kent Island.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 120 ft; casing diameter 4 in., to 110 ft; screen diameter 4 in. from 110 to 120 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from May 1989 to November 1991, March 1999 to current year. Measured twice yearly from March 1988 to April 1989, April 1992 to February 1999.  
 DATUM.--Elevation of land surface is 11.92 ft above sea level.  
 Measuring point: Top of casing, 2.51 ft above land surface.  
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1985 to June 1986, March 1988 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.40 ft below land surface, Dec. 2, 1985; lowest measured, 13.63 ft below land surface, Aug. 1, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	11.88	FEB 06, 2001	12.20	JUN 27, 2001	12.89	SEP 20, 2001	12.35
NOV 03	12.05	MAR 22	11.96	JUL 24	12.61		
DEC 06	12.67	APR 25	12.73	AUG 15	13.02		
JAN 05, 2001	12.62	MAY 23	12.63	21	12.90		

WATER YEAR 2001      HIGHEST    11.88    OCT 03, 2000      LOWEST    13.02    AUG 15, 2001



QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ec 1. SITE ID.--385756076105301.

LOCATION.--Lat 38°57'56", long 76°10'53", Hydrologic Unit 02060002, near Grasonville, south side of MD Rt. 18, .1 mi. northeast of intersection with Nesbit Rd.

Owner: Maryland State Highway Administration.

AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.

WELL CHARACTERISTICS.--Drilled, unused, water-table driven well, depth 21 ft; casing diameter 1.25 in., to 21 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.

Measuring point: Top of 2 in. coupling, 0.27 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

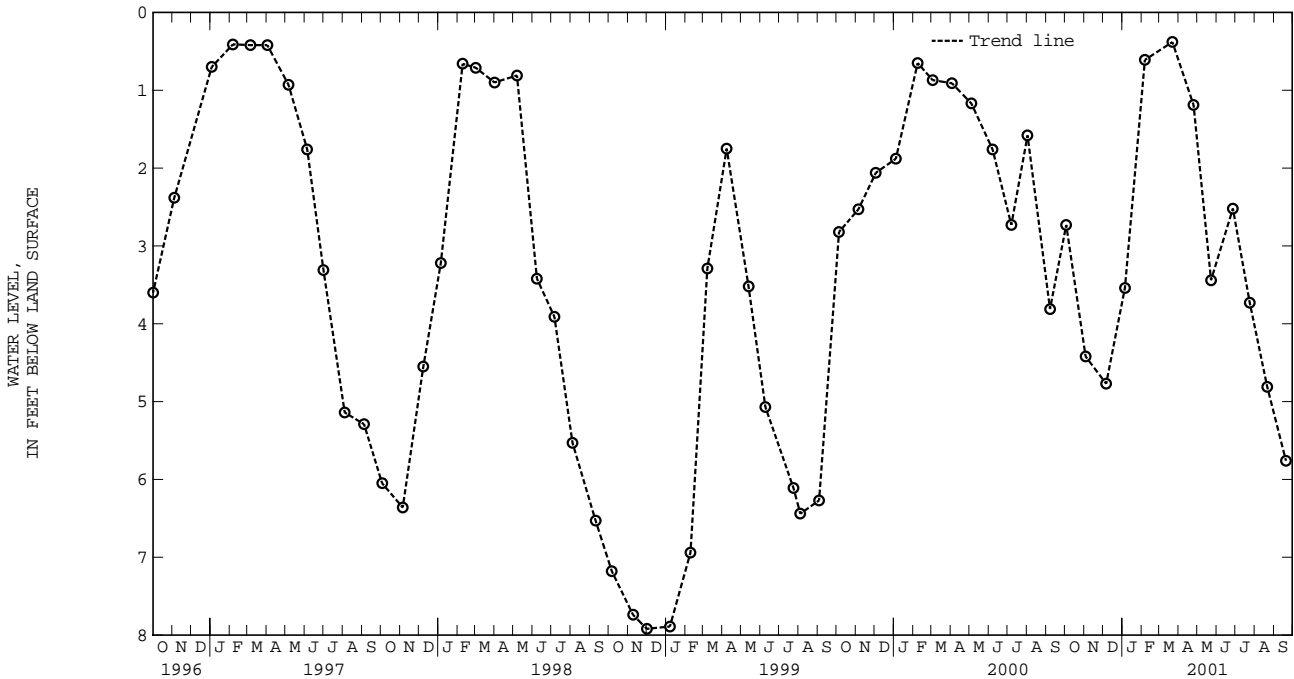
PERIOD OF RECORD.--September 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.03 ft below land surface, Aug. 2, 1996;

lowest measured, 8.46 ft below land surface, Jan. 7, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	2.73	JAN 05, 2001	3.54	APR 25, 2001	1.19	JUL 24, 2001	3.73
NOV 03	4.42	FEB 06	.61	MAY 23	3.44	AUG 21	4.81
DEC 06	4.77	MAR 22	.38	JUN 27	2.52	SEP 20	5.76
WATER YEAR 2001 HIGHEST .38 MAR 22, 2001		LOWEST 5.76 SEP 20, 2001					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ef 29. SITE ID.--385534075573601. PERMIT NUMBER.--QA-81-1593.

LOCATION.--Lat 38°55'38", long 75°57'40", Hydrologic Unit 02060005, off east side of MD Rt 309, .2 mi. north of intersection with MD Rt 404, Tuckahoe State Park.

Owner: Md. Dept. of Natural Resources, Fisheries Division.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,325 ft; casing diameter 14 in., to 500 ft, and 8 in. from 500 to 1,110 ft, 1,120 to 1,135 ft, 1,180 to 1,195 ft, 1,210 to 1,230 ft, 1,270 to 1,285 ft, and 1,315 to 1,325 ft; screen diameter 8 in., from 1,110 to 1,120 ft, 1,135 to 1,180 ft, 1,195 to 1,210 ft, 1,230 to 1,270 ft, and 1,285 to 1,315 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. DATUM.--Elevation of land surface is 61.69 ft above sea level.

Measuring point: Top of 2 in. pipe, 3.80 ft above land surface.

REMARKS.--Maryland Water-level Network observation well. Water levels are affected by regional ground-water withdrawal.

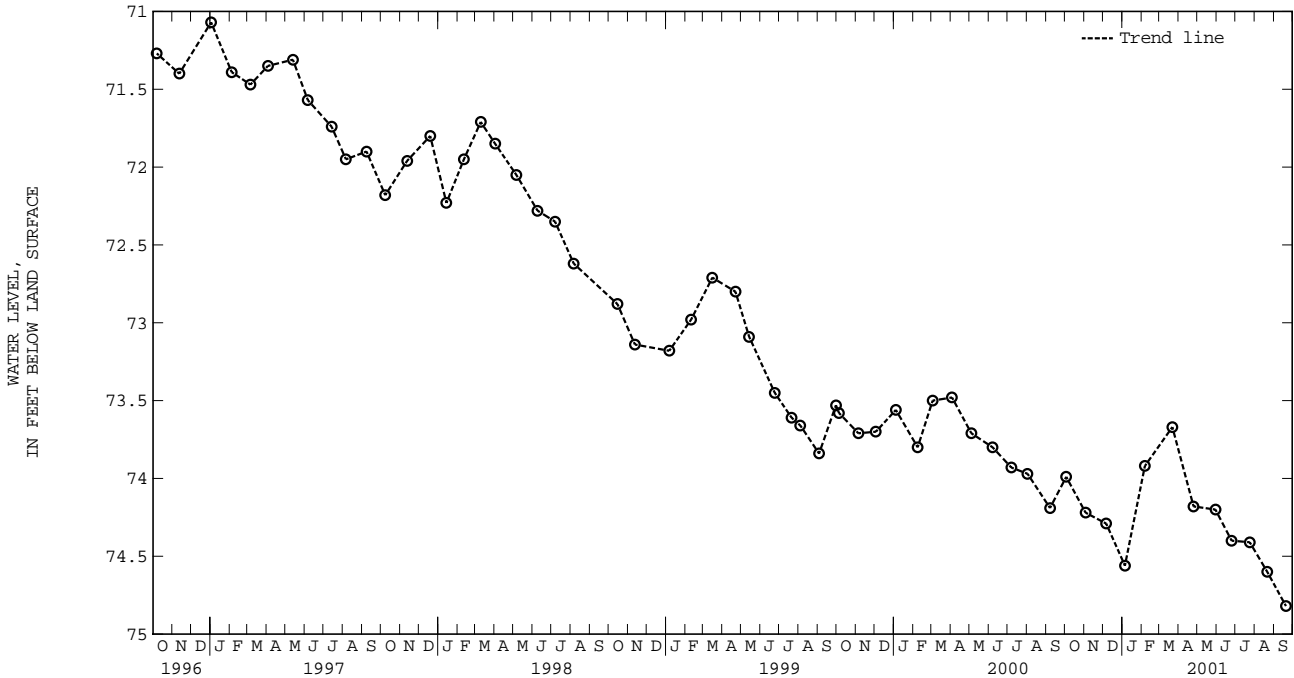
PERIOD OF RECORD.-- June 1986 to December 1986, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.30 ft below land surface, Aug. 27, 1986; lowest measured, 74.82 ft below land surface, Sept. 20, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	73.99	JAN 05, 2001	74.56	APR 25, 2001	74.18	JUL 24, 2001	74.41
NOV 03	74.22	FEB 06	73.92	MAY 30	74.20	AUG 21	74.60
DEC 06	74.29	MAR 22	73.67	JUN 25	74.40	SEP 20	74.82

WATER YEAR 2001      HIGHEST    73.67    MAR 22, 2001      LOWEST    74.82    SEP 20, 2001



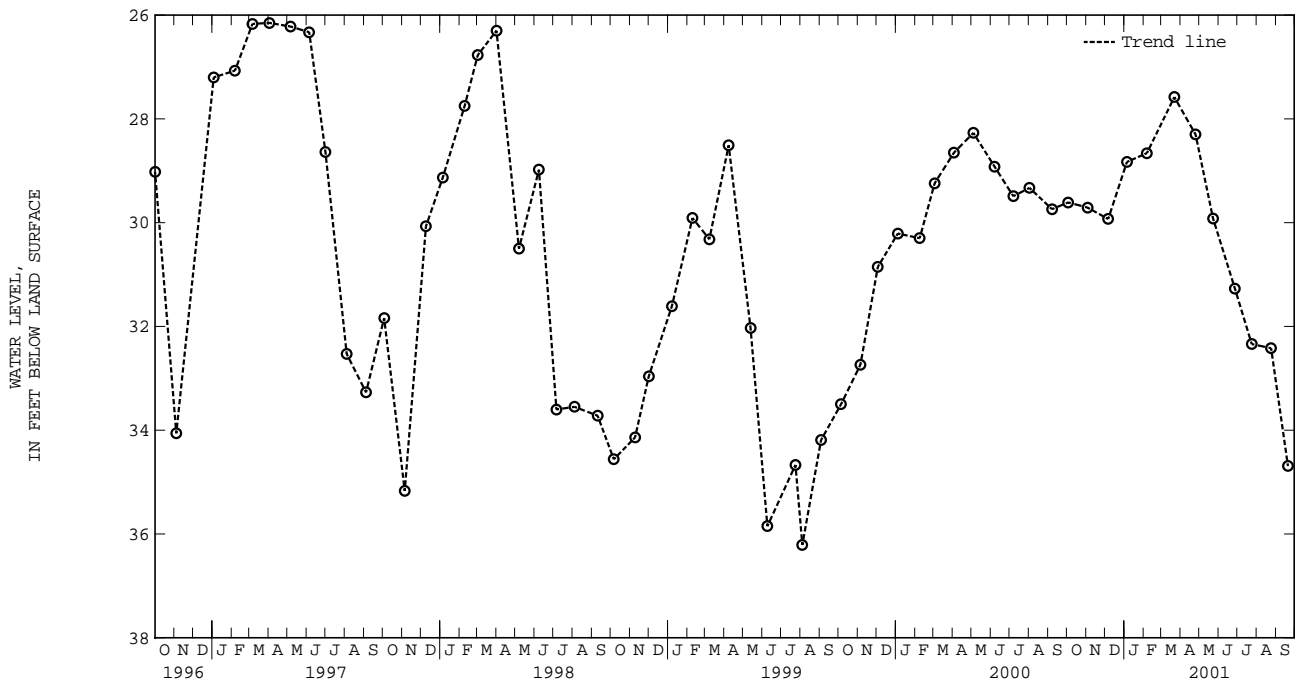
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Fc 7. SITE ID.--385429076120201. PERMIT NUMBER.--QA-73-2191.  
 LOCATION.--Lat 38°54'29", long 76°12'02", Hydrologic Unit 02060002, off Greenwood Shoals, at Prospect Plantation.  
 Owner: Maryland Community Developers Incorporated.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 356 ft; casing diameter 4 in., to 336 ft;  
 screen diameter 2 in. from 336 to 356 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.  
 Measuring point: Top of casing at land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional  
 ground-water withdrawals.  
 PERIOD OF RECORD.--February 1980 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.77 ft below land surface, March 3, 1983;  
 lowest measured, 36.21 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	29.61	JAN 05, 2001	28.83	APR 25, 2001	28.30	JUL 24, 2001	32.34
NOV 03	29.71	FEB 06	28.66	MAY 23	29.92	AUG 24	32.42
DEC 06	29.93	MAR 22	27.58	JUN 27	31.27	SEP 20	34.69
WATER YEAR 2001		HIGHEST	27.58	MAR 22, 2001	LOWEST	34.69	SEP 20, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY

WELL NUMBER.--SM Bb 15. SITE ID.--382838076470101. PERMIT NUMBER.--SM-73-3430.

LOCATION.--Lat 38°28'38", long 76°47'01", Hydrologic Unit 02070011, at Charlotte Hall Veterans Home.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 460 ft; casing diameter 4 in., to 441 ft; casing diameter 2 in. from 441 to 450 ft; screen diameter 2 in. from 450 to 460 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 165.40 ft above sea level.

Measuring point: Top of casing, 2.10 ft above land surface.

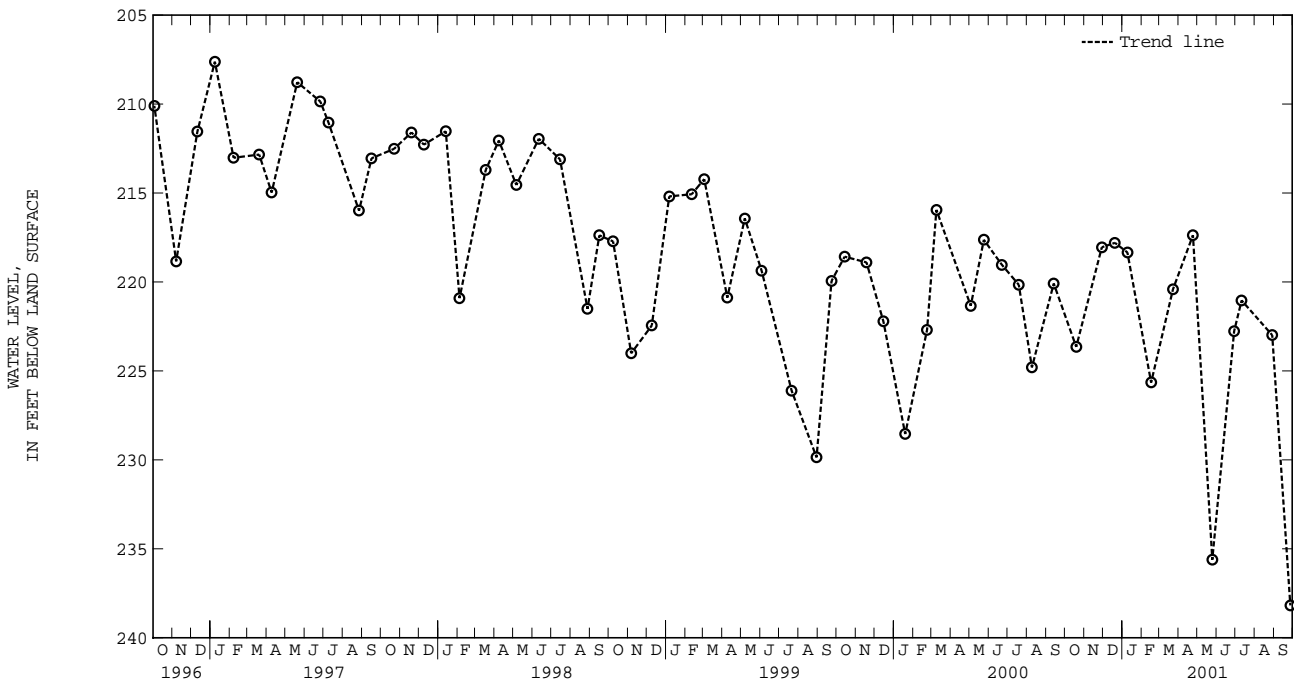
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--August 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 159.76 ft below land surface, Aug. 10, 1979, and Aug. 31, 1979; lowest measured, 238.18 ft below land surface, Sept. 27, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	223.65	JAN 09, 2001	218.34	APR 24, 2001	217.37	JUL 11, 2001	221.04
NOV 29	218.05	FEB 16	225.65	MAY 25	235.61	AUG 29	222.99
DEC 20	217.80	MAR 23	220.41	JUN 29	222.76	SEP 27	238.18
WATER YEAR 2001		HIGHEST	217.37	APR 24, 2001	LOWEST	238.18	SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Bb 22. SITE ID.--382838076470102. PERMIT NUMBER.--SM-73-3787.

LOCATION.--Lat 38°28'38", long 76°47'01", Hydrologic Unit 02070011, at Charlotte Hall Veterans Home.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 218 ft; casing diameter 4 in., to 210 ft; screen diameter 2 in. from 210 to 218 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 165.21 ft above sea level.

Measuring point: Top of casing, 1.55 ft above land surface.

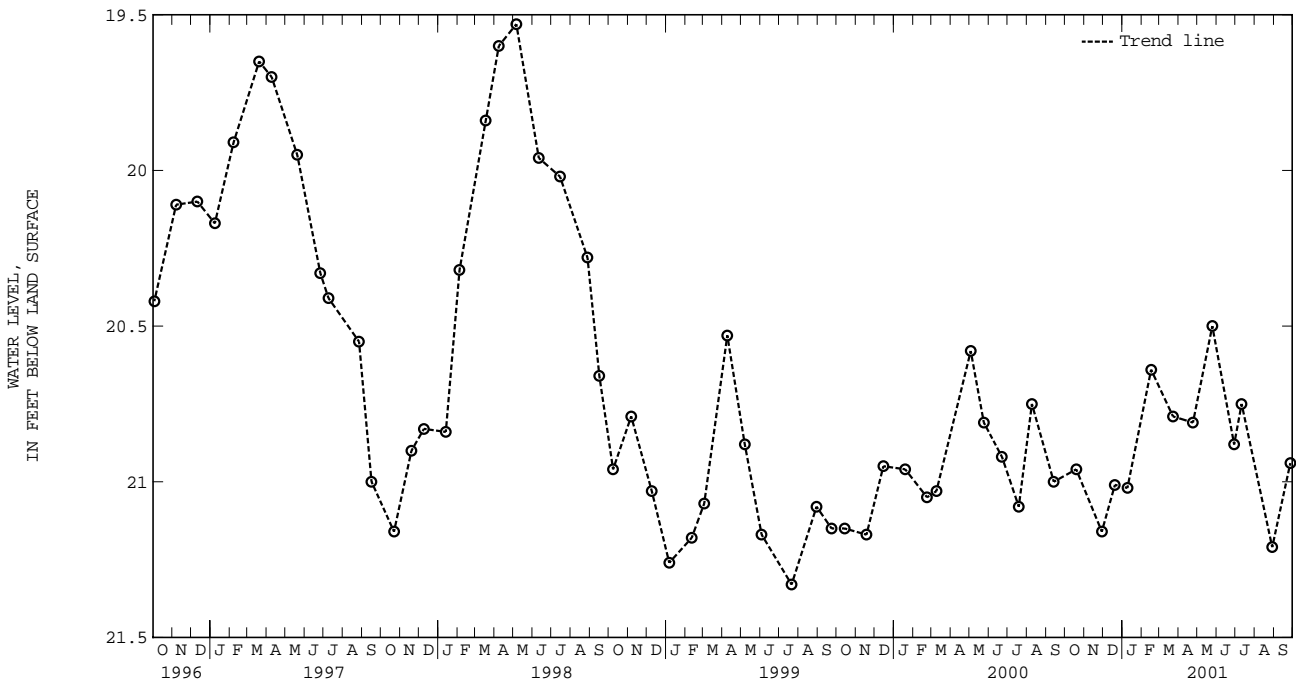
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal. On July 12, 1989, the water-level measured 27.95 ft below land surface; this decline was due to a nearby production well pump test.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.27 ft below land surface, July 9, 1980; lowest measured, 21.33 ft below land surface, July 21, 1999--See Remarks.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	20.96	JAN 09, 2001	21.02	APR 24, 2001	20.81	JUL 11, 2001	20.75
NOV 29	21.16	FEB 16	20.64	MAY 25	20.50	AUG 29	21.21
DEC 20	21.01	MAR 23	20.79	JUN 29	20.88	SEP 27	20.94
WATER YEAR 2001 HIGHEST 20.50		MAY 25, 2001		LOWEST 21.21		AUG 29, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 46. SITE ID.--381616076364701. PERMIT NUMBER.--SM-73-1990.

LOCATION.--Lat 38°16'16", long 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 296 ft; casing diameter 6 in., to 150 ft; casing diameter 2 in. from 150 to 286 ft; screen diameter 2 in. from 286 to 296 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 118.84 ft above sea level.

Measuring point: Top of casing, 2.90 ft above land surface.

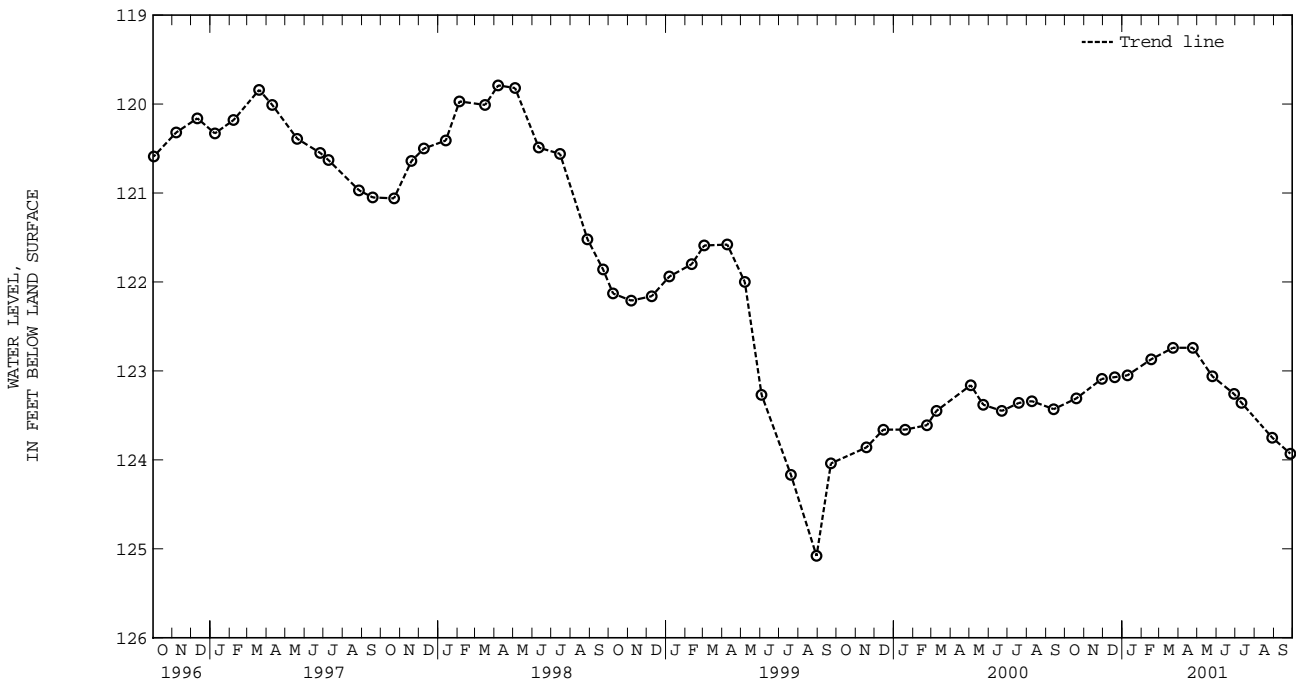
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal

PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 109.36 ft below land surface, July 9, 1979; lowest measured, 125.08 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	123.31	JAN 09, 2001	123.05	APR 24, 2001	122.74	JUL 11, 2001	123.36
NOV 29	123.09	FEB 16	122.87	MAY 25	123.06	AUG 29	123.75
DEC 20	123.07	MAR 23	122.74	JUN 29	123.26	SEP 27	123.93
WATER YEAR 2001		HIGHEST	122.74	MAR 23, 2001	APR 24, 2001	LOWEST	123.93
						SEP 27, 2001	



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



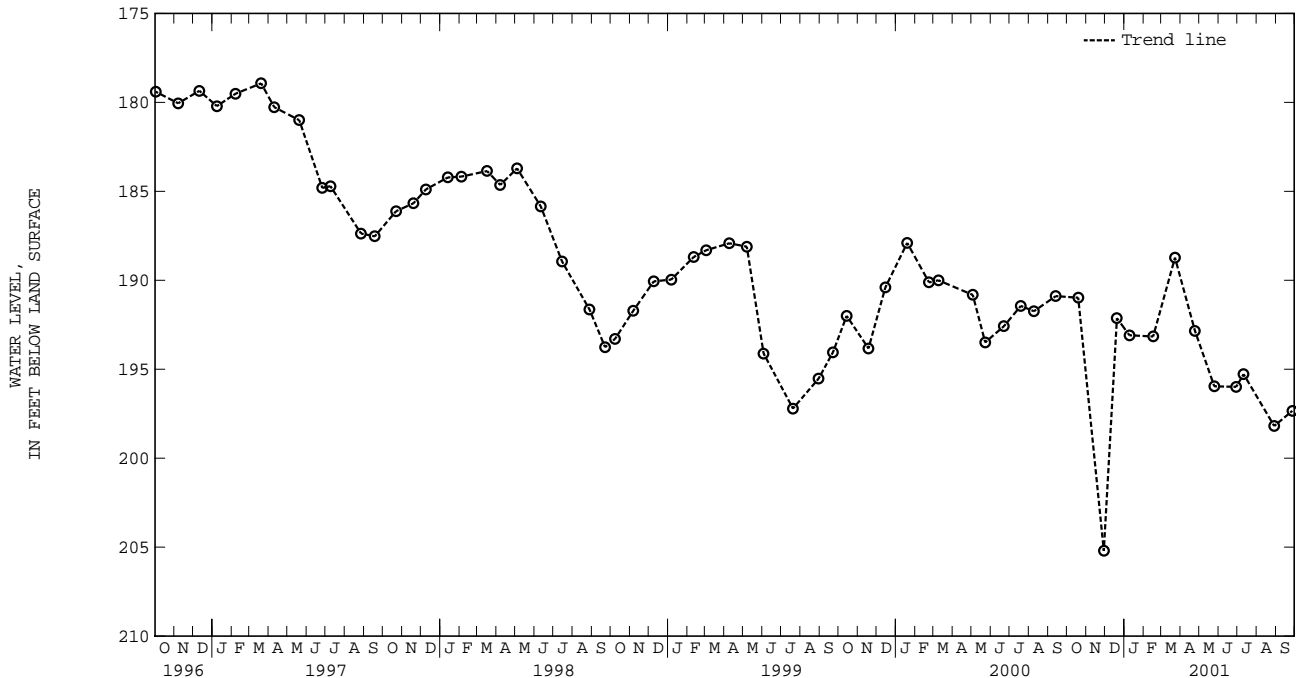
ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 49. SITE ID.--381616076364702. PERMIT NUMBER.--SM-73-3081.  
 LOCATION.--Lat 38°16'16", long 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 619 ft; casing diameter 6 in., to 46 ft; casing diameter 4 in., to 279 ft; casing diameter 1.5 in. from 279 to 534 ft and 544 to 619 ft; screen diameter 3 in. from 534 to 544 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 118.94 ft above sea level.  
 Measuring point: Top of casing, 0.40 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal. The Nov. 29, 2001, record low water level was the result of a nearby production well pumping for more than 24 hours.  
 PERIOD OF RECORD.--December 1978 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 138.95 ft below land surface, April 5, 1979; lowest measured, 205.21 ft below land surface, Nov. 29, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	190.98	JAN 09, 2001	193.09	APR 24, 2001	192.84	JUL 11, 2001	195.28
NOV 29	205.21	FEB 16	193.16	MAY 25	195.96	AUG 29	198.19
DEC 20	192.13	MAR 23	188.73	JUN 29	195.99	SEP 27	197.34

WATER YEAR 2001 HIGHEST 188.73 MAR 23, 2001 LOWEST 205.21 NOV 29, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 50. SITE ID.--381807076380001. PERMIT NUMBER.--SM-73-3082.

LOCATION.--Lat 38°18'07", long 76°38'00", Hydrologic Unit 02070011, at Leonard Hall Junior Naval Academy, Leonardtown.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 515 ft; casing diameter 4 in., to 270 ft; casing diameter 2 in. from 270 to 505 ft; screen diameter 3 in. from 505 to 515 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 99.40 ft above sea level.

Measuring point: Top of casing, 1.86 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal

PERIOD OF RECORD.--December 1978 to current year.

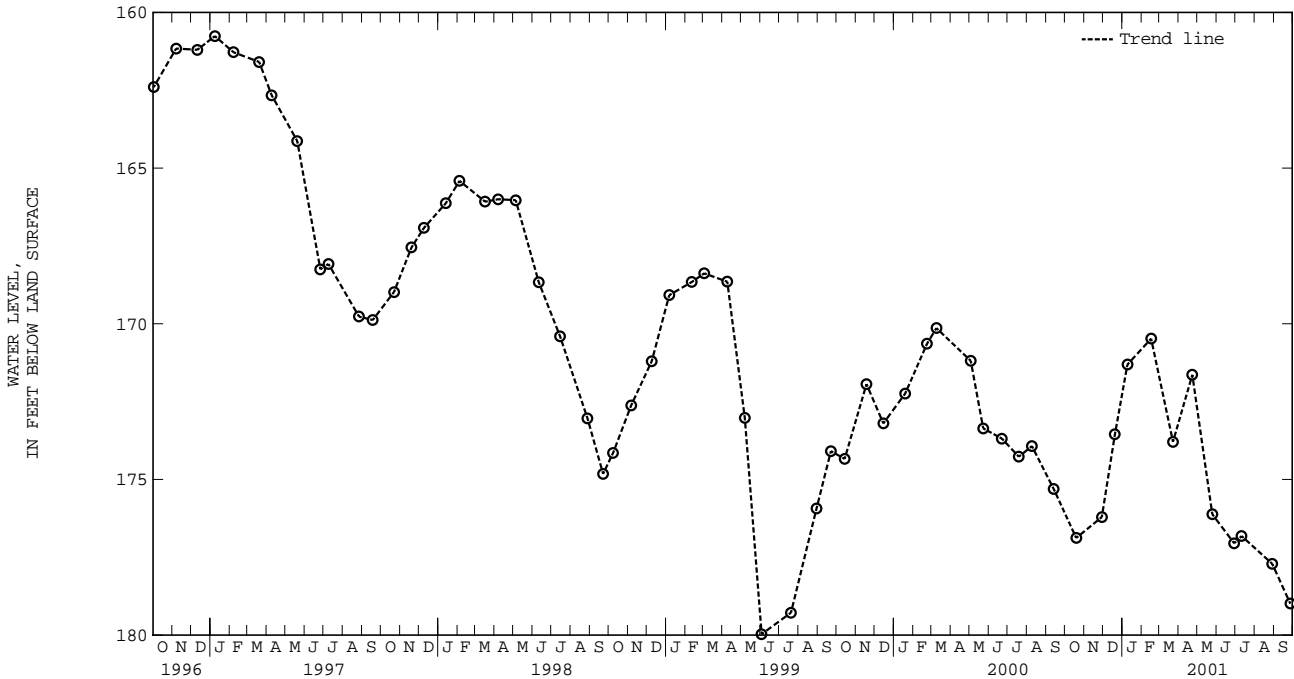
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.05 ft below land surface, Feb. 2, 1979;

lowest measured, 179.97 ft below land surface, June 3, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	176.88	JAN 09, 2001	171.31	APR 23, 2001	171.64	JUL 11, 2001	176.82
NOV 29	176.21	FEB 16	170.48	MAY 25	176.12	AUG 29	177.71
DEC 20	173.55	MAR 23	173.79	JUN 29	177.05	SEP 27	178.99

WATER YEAR 2001 HIGHEST 170.48 FEB 16, 2001 LOWEST 178.99 SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 62. SITE ID.--381616076364703. PERMIT NUMBER.--SM-73-3786.

LOCATION.--Lat 38°16'16", 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 358 ft; casing diameter 4 in., to 210 ft; casing diameter 2 in. from 210 to 348 ft; screen diameter 2 in. from 348 to 358 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 119.30 ft above sea level.

Measuring point: Top of casing, 0.70 ft above land surface.

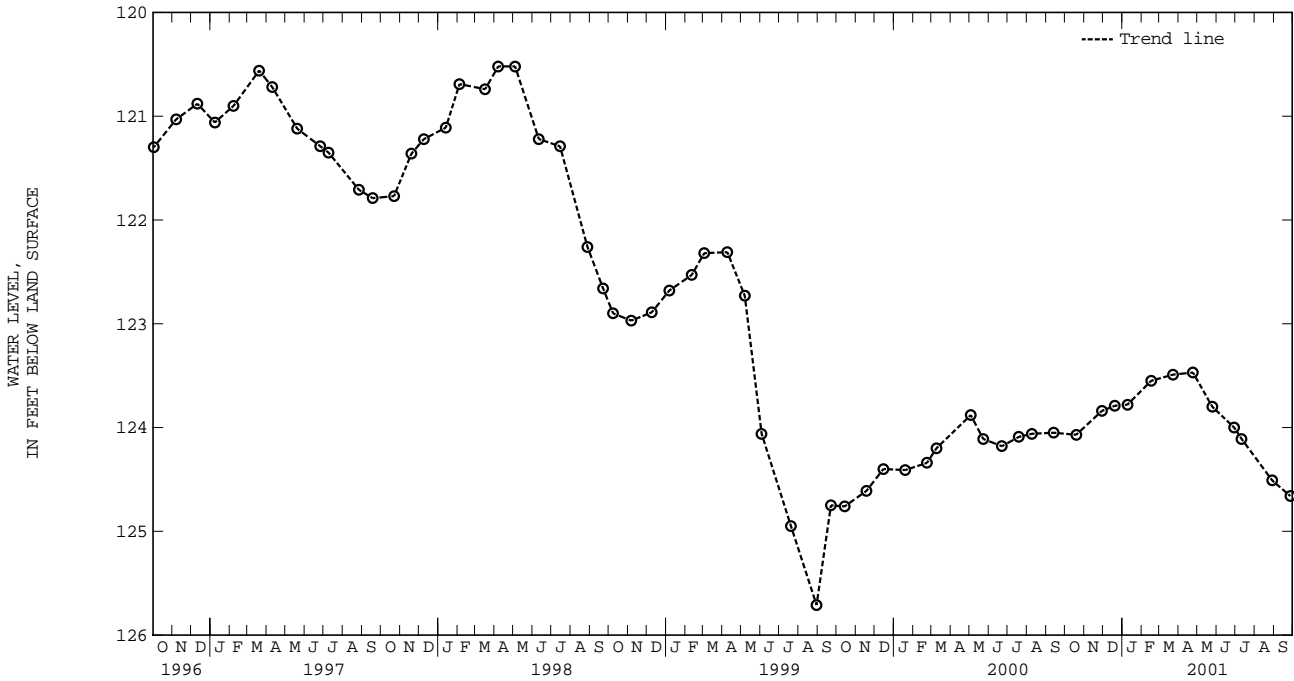
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 111.06 ft below land surface, Oct. 30, 1980; lowest measured, 125.71 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	124.07	JAN 09, 2001	123.78	APR 24, 2001	123.47	JUL 11, 2001	124.11
NOV 29	123.84	FEB 16	123.55	MAY 25	123.80	AUG 29	124.51
DEC 20	123.79	MAR 23	123.49	JUN 29	124.00	SEP 27	124.66

WATER YEAR 2001 HIGHEST 123.47 APR 24, 2001 LOWEST 124.66 SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 63. SITE ID.--381615076364701. PERMIT NUMBER.--SM-73-3785.

LOCATION.--Lat 38°16'15", long 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 356 ft; casing diameter 4 in., to 327 ft; casing diameter 2 in. from 327 to 346 ft; screen diameter 2 in. from 346 to 356 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel from April 1987 to current year. Measured monthly from October 1977 to October 1986.

DATUM.--Elevation of land surface is 119.72 ft above sea level.

Measuring point: Top of casing, 1.00 ft above land surface.

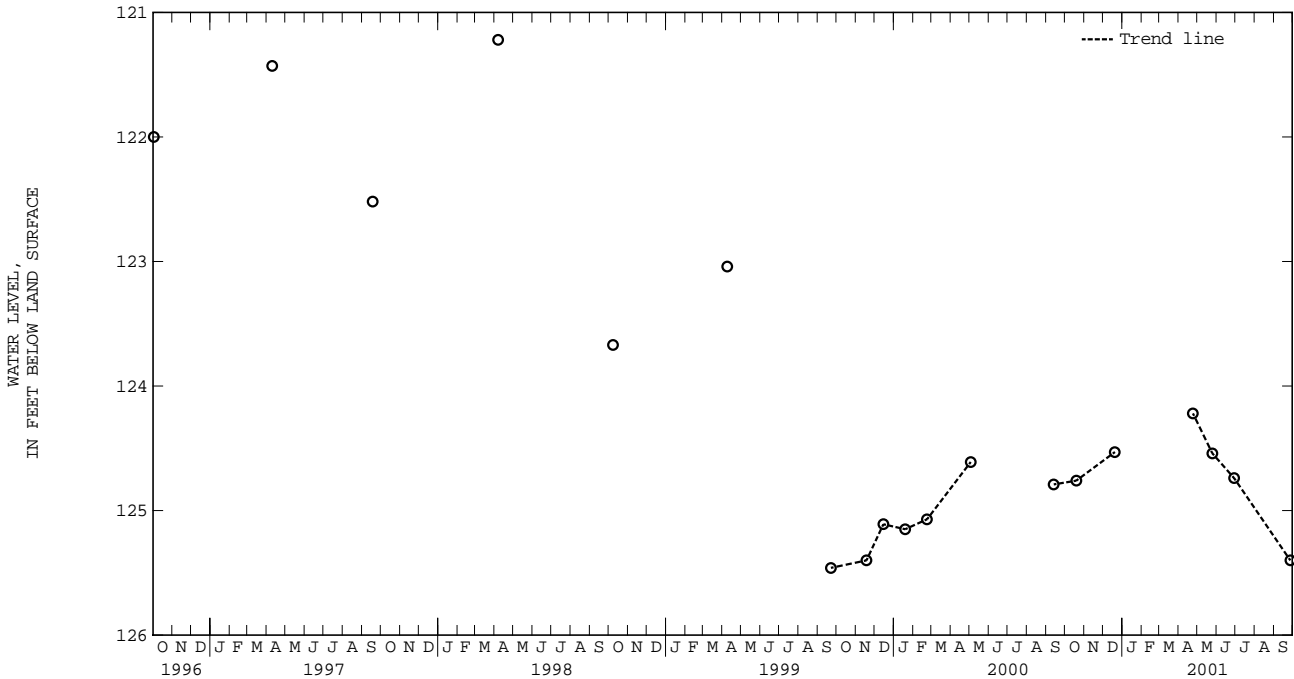
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 113.15 ft below land surface, March 2, 1981; lowest measured, 125.46 ft below land surface, Sept. 22, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	124.76	APR 24, 2001	124.22	JUN 29, 2001	124.74
DEC 20	124.53	MAY 25	124.54	SEP 27	125.40

WATER YEAR 2001 HIGHEST 124.22 APR 24, 2001 LOWEST 125.40 SEP 27, 2001



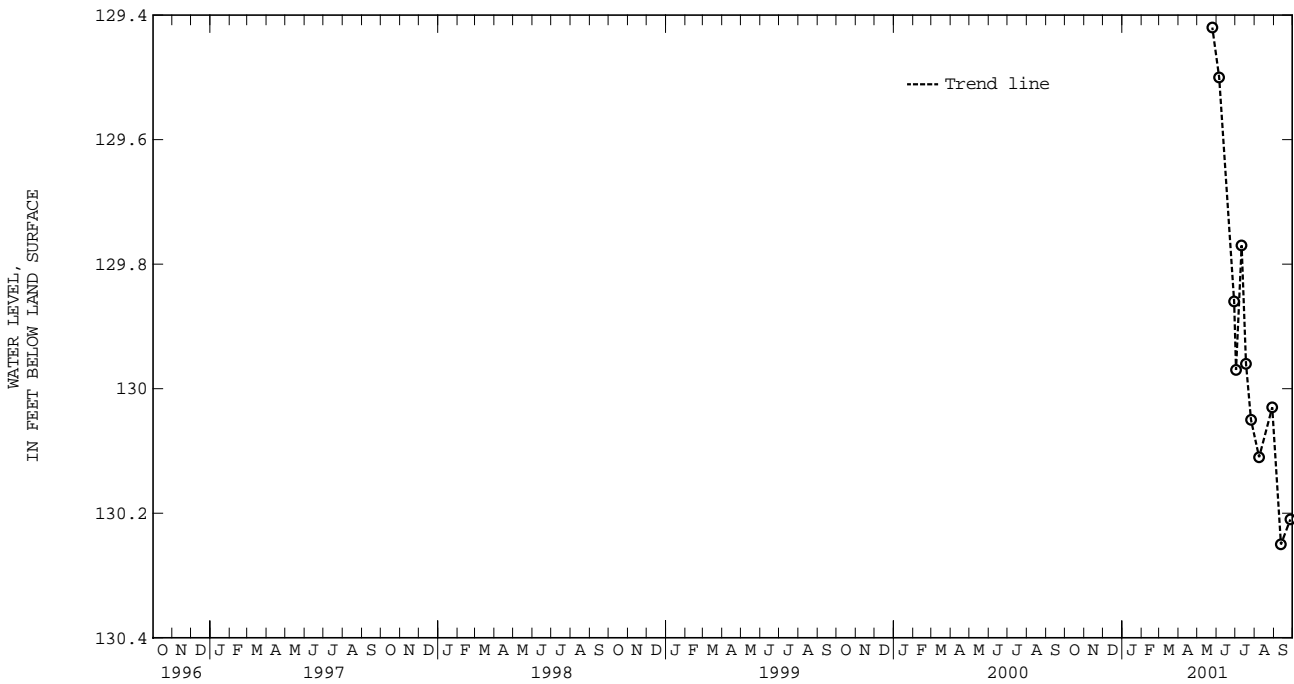
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 72. SITE ID.--381626076393401. PERMIT NUMBER.--SM-94-3616.  
 LOCATION.--Lat 38°16'26", long 76°39'34", Hydrologic Unit 02070011, at Paw Paw Hollow Lane, 1.5 mi southwest of Leonardtown.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,340 ft; casing diameter 8 in., to 60 ft; casing diameter 4 in. from +2.52 to 1,300 ft, and 1,330 to 1,340 ft; screen diameter 4 in. from 1,300 to 1,330 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 27, 2001 to current year.  
 DATUM.--Elevation of land surface is 109.99 ft above sea level.  
 Measuring point: Top of shelter platform, 2.69 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal  
 PERIOD OF RECORD.--May 2001 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 129.42 ft below land surface, May 25, 2001; lowest measured (recorder), 130.44 ft below land surface, Sept. 29, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 25, 2001	129.42	JUL 02, 2001	129.97	JUL 26, 2001	130.05	SEP 12, 2001	130.25
JUN 05	129.50	11	129.77	AUG 08	130.11	27	130.21
29	129.86	18	129.96	29	130.03		
WATER YEAR 2001		HIGHEST	129.42	MAY 25, 2001	LOWEST	130.25	SEP 12, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 14.

LOCATION.--Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Piney Point Formation of Upper Eocene age and the Nanjemoy Formation of Lower Eocene age.

Aquifer code: 124PNPN,124NNJM.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 262 ft; casing diameter 8 in., to 247 ft; screen diameter 8 in. from 247 to 262 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recording interval, Feb. 24, 2000 to current year.

DATUM.--Elevation of land surface is 19 ft above sea level, from topographic map.

Measuring point: Top of shelter platform, 3.00 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation well

Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--September 24, 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.02 ft below sea level, March 21, 2001; lowest measured, 27.36 ft below sea level, September 24, 1996.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-22.46	-22.80	-22.38	-22.68	-22.48	-22.87	-22.78	-22.97	-22.11	-22.31	-21.72	-21.98
2	-22.30	-22.76	-22.36	-22.62	-22.50	-22.66	-22.76	-22.94	-22.08	-22.41	-21.66	-21.92
3	-22.30	-22.75	-22.33	-22.54	-22.58	-22.71	-22.42	-22.89	-22.17	-22.43	-21.62	-21.89
4	-22.50	-22.79	-22.30	-22.48	-22.42	-22.71	-22.27	-22.50	-22.17	-22.50	-21.35	-21.90
5	-22.51	-22.81	-22.30	-22.64	-22.28	-22.53	-22.22	-22.57	-21.95	-22.25	-21.28	-21.71
6	-22.43	-22.60	-22.46	-22.63	-22.50	-22.80	-22.22	-22.50	-21.89	-22.18	-21.65	-21.95
7	-22.54	-22.92	-22.44	-22.67	-22.31	-22.64	-22.18	-22.49	-22.01	-22.53	-21.56	-22.17
8	-22.75	-22.90	-22.32	-22.62	-22.39	-22.66	-22.16	-22.50	-22.26	-22.56	-21.33	-21.74
9	-22.75	-22.92	-22.22	-22.50	-22.52	-22.76	-22.22	-22.68	-22.02	-22.43	-21.26	-21.77
10	-22.64	-22.86	-22.11	-22.57	-22.28	-22.62	-22.33	-22.71	-21.90	-22.51	-21.59	-21.98
11	-22.68	-22.97	-22.49	-22.86	-22.29	-22.71	-22.30	-22.73	-22.32	-22.69	-21.62	-22.02
12	-22.88	-23.19	-22.37	-22.86	-22.19	-22.79	-22.31	-22.73	-22.29	-22.61	-21.77	-22.16
13	-22.70	-23.02	-22.29	-22.66	-22.74	-23.01	-22.29	-22.66	-22.10	-22.55	-21.52	-21.94
14	-22.70	-22.95	-22.27	-22.60	-22.32	-22.84	-22.25	-22.56	-21.87	-22.22	-21.53	-21.90
15	-22.59	-22.95	-22.50	-22.84	-22.52	-22.85	-22.27	-22.52	-21.77	-22.03	-21.64	-21.91
16	-22.57	-22.89	-22.47	-22.81	-22.16	-22.73	-22.26	-22.53	-21.84	-22.18	-21.57	-21.87
17	-22.29	-22.80	-22.49	-22.78	-21.82	-22.29	-22.29	-22.55	-21.76	-22.18	-21.56	-21.72
18	-22.31	-22.68	-22.64	-22.92	-22.19	-22.72	-22.30	-22.60	-22.11	-22.44	-21.66	-22.01
19	-22.54	-22.89	-22.59	-22.84	-22.30	-22.71	-22.08	-22.42	-22.00	-22.25	-21.73	-22.02
20	-22.56	-22.89	-22.48	-22.76	-22.36	-22.84	-22.05	-22.27	-21.99	-22.17	-21.57	-21.90
21	-22.55	-22.79	-22.48	-22.86	-22.49	-22.74	-22.05	-22.57	-21.89	-22.20	-21.02	-21.57
22	-22.58	-22.92	-22.83	-22.98	-22.41	-22.86	-22.29	-22.59	-21.88	-22.26	-21.07	-21.60
23	-22.53	-22.81	-22.86	-23.06	-22.70	-23.02	-22.22	-22.54	-21.78	-22.02	-21.46	-21.72
24	-22.52	-22.82	-22.63	-22.95	-22.39	-22.78	-22.08	-22.41	-21.81	-22.19	-21.30	-21.70
25	-22.50	-22.85	-22.48	-22.82	-22.56	-23.05	-22.06	-22.54	-21.68	-22.17	-21.61	-21.96
26	-22.53	-22.85	-21.99	-22.51	-22.72	-23.06	-22.18	-22.59	-21.63	-22.18	-21.41	-21.92
27	-22.33	-22.80	-22.18	-22.50	-22.54	-22.84	-21.98	-22.52	-21.82	-22.18	-21.67	-21.93
28	-22.29	-22.80	-22.34	-22.69	-22.52	-22.82	-22.29	-22.59	-21.72	-22.01	-21.69	-21.94
29	-22.51	-22.86	-22.48	-22.78	-22.29	-22.79	-22.19	-22.52	---	---	-21.55	-21.88
30	-22.48	-22.82	-22.31	-22.87	-22.17	-22.44	-21.81	-22.28	---	---	-21.15	-21.57
31	-22.50	-22.76	---	---	-22.37	-22.78	-21.90	-22.23	---	---	-21.30	-21.58
MONTH	-22.29	-23.19	-21.99	-23.06	-21.82	-23.06	-21.81	-22.97	-21.63	-22.69	-21.02	-22.17

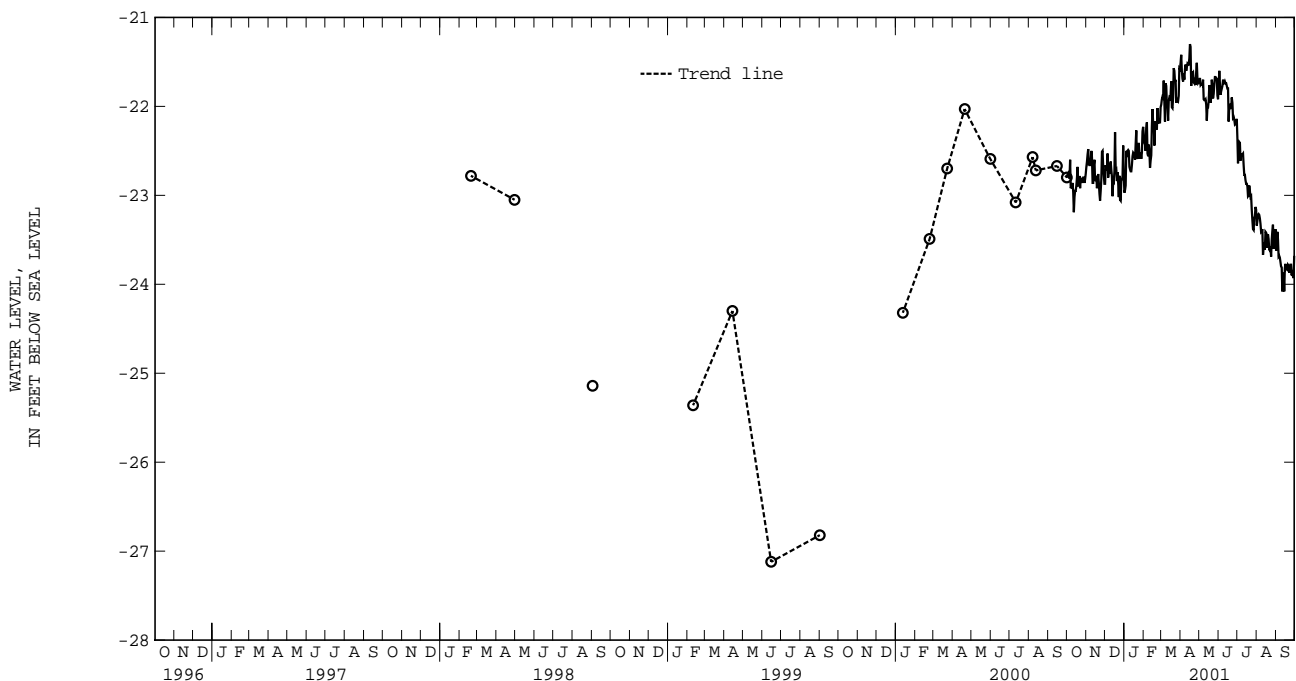
ST. MARYS COUNTY--Continued

SM Df 14--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN									
	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-21.27	-21.51	-21.42	-21.72	-21.24	-21.77	-21.89	-22.36	-22.91	-23.34	-23.18	-23.62												
2	-21.18	-21.42	-21.40	-21.68	-21.24	-21.60	-22.07	-22.64	-23.08	-23.29	-23.27	-23.55												
3	-21.32	-21.60	-21.40	-21.76	-21.30	-21.75	-22.13	-22.43	-23.02	-23.22	-23.12	-23.41												
4	-21.36	-21.69	-21.45	-21.75	-21.52	-21.87	-22.07	-22.40	-22.93	-23.21	-23.11	-23.49												
5	-21.39	-21.72	-21.44	-21.75	-21.43	-21.83	-22.07	-22.41	-22.96	-23.22	-23.22	-23.69												
6	-21.29	-21.63	-21.55	-21.76	-21.52	-21.80	-22.11	-22.61	-22.98	-23.26	-23.35	-23.68												
7	-21.32	-21.70	-21.38	-21.70	-21.46	-21.77	-22.28	-22.54	-23.02	-23.32	-23.35	-23.70												
8	-21.22	-21.58	-21.41	-21.92	-21.46	-21.70	-22.12	-22.54	-23.11	-23.41	-23.38	-23.75												
9	-21.13	-21.53	-21.53	-21.93	-21.41	-21.74	-22.26	-22.54	-23.14	-23.40	-23.48	-23.80												
10	-21.14	-21.60	-21.58	-21.93	-21.47	-21.74	-22.28	-22.53	-23.09	-23.38	-23.50	-23.81												
11	-21.18	-21.56	-21.60	-21.92	-21.43	-21.72	-22.16	-22.66	-23.32	-23.67	-23.69	-24.08												
12	-21.23	-21.52	-21.56	-21.98	-21.45	-21.74	-22.52	-22.77	-23.23	-23.59	-23.56	-23.92												
13	-21.14	-21.53	-21.89	-22.16	-21.49	-21.74	-22.49	-22.77	-23.26	-23.53	-23.51	-23.87												
14	-21.30	-21.53	-21.76	-22.01	-21.58	-21.77	-22.57	-22.83	-23.26	-23.61	-23.51	-24.08												
15	-21.14	-21.46	-21.81	-22.01	-21.58	-21.80	-22.56	-22.87	-23.10	-23.41	-23.34	-23.82												
16	-21.09	-21.30	-21.66	-21.94	-21.58	-21.80	-22.57	-22.87	-23.10	-23.42	-23.33	-23.77												
17	-21.09	-21.33	-21.56	-21.76	-21.65	-22.17	-22.59	-22.90	-23.10	-23.44	-23.35	-23.83												
18	-21.33	-21.77	-21.60	-21.88	-21.72	-21.99	-22.60	-23.01	-23.16	-23.59	-23.41	-23.82												
19	-21.26	-21.61	-21.68	-21.96	-21.72	-22.03	-22.70	-23.00	-23.18	-23.44	-23.42	-23.83												
20	-21.26	-21.63	-21.52	-21.90	-21.69	-21.97	-22.57	-22.89	-23.12	-23.49	-23.31	-23.78												
21	-21.41	-21.62	-21.46	-21.70	-21.63	-22.03	-22.51	-22.95	-23.18	-23.61	-23.32	-23.79												
22	-21.45	-21.73	-21.38	-21.79	-21.66	-21.90	-22.59	-23.02	-23.26	-23.62	-23.50	-23.87												
23	-21.46	-21.74	-21.41	-21.91	-21.46	-21.96	-22.65	-23.01	-23.19	-23.58	-23.56	-23.84												
24	-21.34	-21.68	-21.54	-21.86	-21.70	-22.13	-22.74	-23.16	-23.28	-23.69	-23.28	-23.78												
25	-21.49	-21.76	-21.46	-21.75	-21.74	-22.12	-22.88	-23.28	-23.10	-23.50	-23.31	-23.78												
26	-21.32	-21.61	-21.31	-21.67	-21.83	-22.15	-23.05	-23.38	-23.08	-23.40	-23.55	-23.90												
27	-21.16	-21.51	-21.29	-21.67	-21.89	-22.20	-22.96	-23.39	-23.10	-23.33	-23.57	-23.84												
28	-21.22	-21.69	-21.37	-21.68	-21.90	-22.19	-22.96	-23.25	-23.17	-23.60	-23.67	-23.91												
29	-21.43	-21.74	-21.41	-21.69	-21.87	-22.20	-22.88	-23.24	-23.23	-23.56	-23.68	-23.93												
30	-21.47	-21.73	-21.50	-21.88	-21.86	-22.14	-22.87	-23.13	-23.17	-23.42	-23.37	-23.68												
31	---	---	-21.59	-21.92	---	---	-22.87	-23.16	-23.17	-23.38	---	---												
MONTH	-21.09	-21.77	-21.29	-22.16	-21.24	-22.20	-21.89	-23.39	-22.91	-23.69	-23.11	-24.08												
YEAR	-21.02	-24.08																						

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 61. PERMIT NUMBER.--SM-05-5823.

LOCATION.--Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 600 ft; casing diameter 8 in., to 559 ft; casing diameter 6 in. from 540 to 580 ft; screen diameter 6 in. from 580 to 600 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Periodic measurements prior to September 1999. Equipped with digital water-level recorder--60-minute recording interval, Sept. 22, 1999 to current year.

DATUM.--Elevation of land surface is 110 ft above sea level.

Measuring point: Top of shelter platform, 1.70 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation/production well.

Water levels affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--March 3, 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.00 ft below sea level, March 3, 1964; lowest measured, 190.84 ft below sea level, May 17, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-139.59	-142.74	-142.28	-181.84	-141.25	-142.02	-138.08	-177.67	-139.46	-140.65	-137.93	-139.12
2	-140.71	-179.34	-142.19	-181.95	-140.76	-179.73	-138.31	-139.13	-138.98	-178.65	-138.53	-178.55
3	-139.59	-143.87	-141.97	-143.76	-139.52	-141.15	-138.55	-178.19	-138.18	-139.69	-138.68	-140.73
4	-139.50	-178.91	-141.57	-179.54	-140.05	-179.98	-138.44	-139.40	-135.27	-138.88	-138.59	-140.29
5	-139.65	-143.47	-138.96	-142.82	-140.70	-141.50	-139.22	-178.31	-134.34	-176.33	-139.40	-178.58
6	-143.03	-182.01	-140.61	-178.66	-141.11	-180.24	-138.61	-139.89	-138.36	-138.97	-138.50	-140.36
7	-140.16	-143.85	-139.65	-143.46	-141.53	-142.22	-138.59	-179.28	-138.48	-178.21	-138.22	-178.03
8	-141.41	-143.99	-140.29	-143.58	-141.89	-181.64	-139.28	-140.38	-139.20	-140.29	-136.03	-139.63
9	-143.99	-182.55	-143.46	-182.56	-139.13	-141.89	-139.70	-179.12	-138.80	-178.46	-139.63	-179.16
10	-141.28	-144.88	-143.58	-144.55	-138.90	-178.93	-138.89	-140.85	-138.25	-140.17	-139.02	-141.05
11	-143.31	-182.14	-143.82	-182.47	-137.35	-139.22	-137.51	-177.36	-138.99	-177.83	-139.66	-180.88
12	-140.14	-145.32	-143.32	-144.51	-137.34	-177.24	-137.91	-140.91	-138.97	-140.39	-138.15	-141.93
13	-143.10	-182.48	-141.60	-181.47	-137.07	-176.77	-136.61	-178.14	-138.68	-139.81	-139.05	-178.86
14	-142.95	-145.97	-139.49	-142.20	-135.55	-137.36	-134.54	-136.61	-139.55	-178.23	---	---
15	-144.90	-182.17	-141.00	-178.84	-136.49	-176.99	-132.69	-134.90	-138.31	-139.58	---	---
16	-145.27	-147.46	-140.95	-141.52	-137.00	-138.46	-133.45	-173.36	-139.00	-177.92	-137.11	-177.72
17	-142.55	-181.44	-141.28	-188.38	-135.69	-137.05	-134.35	-136.57	-137.61	-139.60	-134.68	-137.11
18	-143.26	-145.08	-140.57	-142.20	-135.77	-176.16	-136.04	-176.24	-137.19	-138.51	-134.20	-137.98
19	-144.42	-182.27	-140.88	-184.70	-135.95	-136.93	-135.45	-137.79	-137.95	-176.96	-137.66	-177.95
20	-143.00	-180.05	-140.82	-141.50	-135.86	-176.25	-135.33	-174.83	-137.33	-138.60	-138.16	-139.62
21	-143.44	-182.15	-141.30	-181.57	-135.62	-136.74	-133.55	-135.48	-137.21	-177.44	-135.63	-176.60
22	-141.21	-144.75	-141.92	-142.65	-135.74	-176.03	-133.81	-176.50	-137.18	-138.52	-133.09	-135.63
23	-143.80	-181.87	-141.35	-181.45	-135.70	-136.69	-137.82	-139.18	-137.60	-177.45	-133.93	-173.67
24	-141.07	-144.95	-139.77	-141.36	-135.36	-136.15	-138.69	-178.39	-137.34	-139.17	-136.21	-137.59
25	-144.52	-181.81	-139.12	-140.37	-135.39	-188.33	-139.33	-140.98	-136.80	-138.43	-136.45	-138.71
26	-141.22	-145.79	-139.91	-179.13	-134.19	-135.80	-140.17	-178.98	-137.97	-177.90	-138.00	-178.26
27	-141.13	-179.22	-140.81	-144.22	-134.50	-175.92	-139.63	-141.20	-137.72	-139.51	-138.54	-178.07
28	-138.30	-143.16	-142.57	-183.58	-135.45	-136.76	-138.37	-140.35	-137.66	-177.98	-138.22	-140.36
29	-138.28	-140.96	-140.35	-142.57	-136.60	-176.69	-139.47	-178.96	---	---	-138.55	-178.44
30	-139.50	-178.70	-140.62	-180.35	-136.82	-138.56	-139.17	-140.61	---	---	-138.32	-178.09
31	-141.50	-142.62	---	---	-137.20	-138.80	-139.82	-179.05	---	---	-137.51	-139.23
MONTH	-138.28	-182.55	-138.96	-188.38	-134.19	-188.33	-132.69	-179.28	-134.34	-178.65	-133.09	-180.88



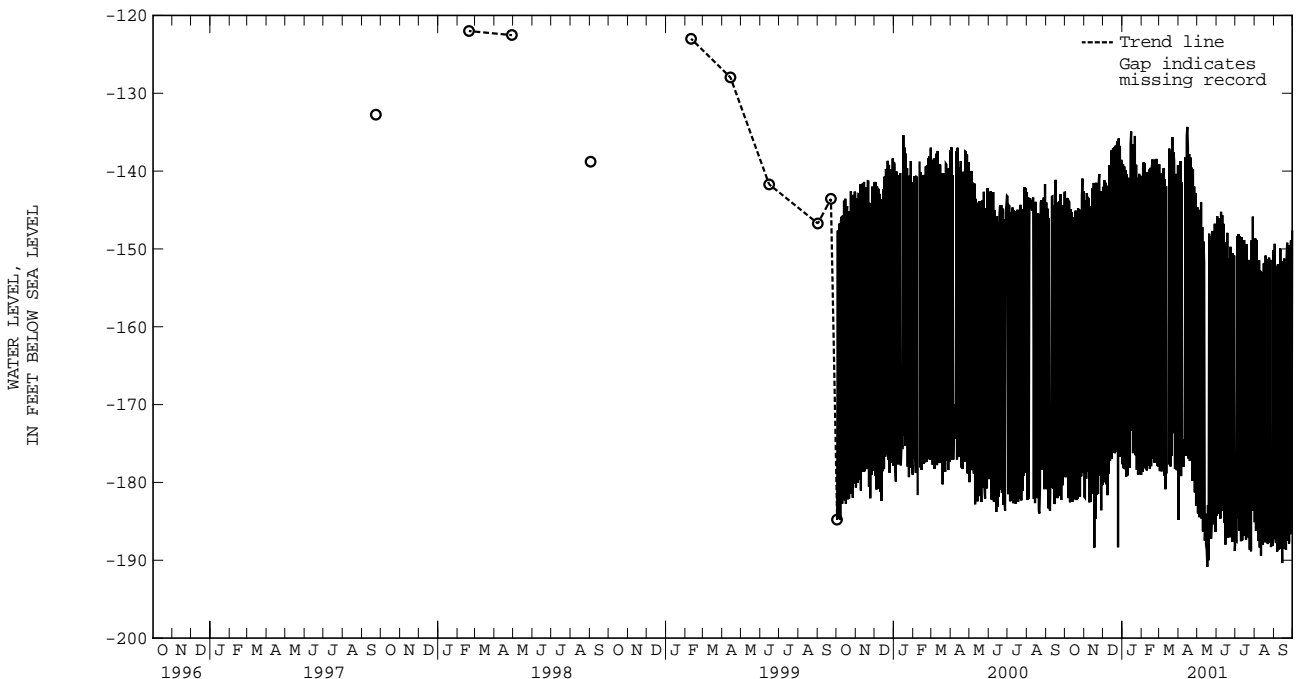
ST. MARYS COUNTY--Continued

SM Df 61--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-138.39	-184.83	-143.18	-144.63	-145.81	-184.31	-150.43	-187.39	-146.36	-185.11	-149.21	-187.18
2	-138.31	-139.70	-143.58	-184.01	-144.12	-145.81	-148.83	-187.49	-147.35	-148.67	-147.90	-149.34
3	-138.21	-177.72	-143.18	-145.40	-144.91	-183.15	-148.07	-187.57	-147.90	-186.21	-148.35	-187.13
4	-137.10	-138.72	-143.33	-184.47	-144.93	-146.05	-146.83	-148.35	-147.46	-148.85	-149.45	-187.80
5	-137.51	-179.19	-143.05	-144.98	-145.71	-184.07	-146.09	-184.59	-147.47	-186.03	-149.69	-152.21
6	-138.91	-141.40	-143.02	-181.80	-144.68	-146.20	-146.70	-148.09	-148.26	-181.56	-151.41	-188.88
7	-138.64	-177.93	-142.92	-144.00	-144.85	-184.65	-147.53	-186.19	-150.62	-187.52	-150.52	-151.98
8	-137.35	-176.98	-143.66	-184.68	-143.79	-145.23	-146.35	-148.37	-149.97	-151.45	-151.06	-188.65
9	-136.46	-178.01	-146.26	-147.20	-144.61	-183.55	-145.46	-181.00	-151.11	-188.37	-150.69	-152.62
10	-135.05	-174.49	-147.20	-186.30	-144.18	-145.66	-148.50	-187.55	-152.05	-152.80	-149.90	-188.53
11	-134.84	-176.21	-148.12	-149.06	-144.78	-183.65	-146.54	-148.50	-152.28	-189.41	-147.02	-149.93
12	-137.04	-138.20	-148.93	-151.76	-144.96	-146.78	-147.02	-187.45	-150.72	-153.05	-149.90	-187.66
13	-135.50	-176.54	-149.72	-187.48	-146.63	-185.15	-146.92	-183.64	-150.23	-153.97	-150.76	-183.56
14	-133.34	-135.50	-147.70	-184.01	-146.96	-149.15	-148.82	-186.18	-150.64	-188.01	-151.58	-190.36
15	-132.79	-134.32	-149.91	-188.08	-148.32	-187.99	-147.28	-148.86	-149.58	-151.96	-148.48	-151.58
16	-131.86	-136.86	-149.45	-188.64	-146.74	-149.48	-148.16	-186.82	-149.27	-151.92	-149.65	-187.88
17	-136.78	-176.95	-152.28	-190.84	-147.00	-184.87	-148.24	-149.63	-149.85	-187.69	-150.01	-151.24
18	-136.49	-137.80	-149.27	-182.93	-146.46	-147.93	-149.36	-187.36	-149.40	-150.85	-150.85	-188.52
19	-137.68	-177.24	-148.04	-190.00	-146.97	-187.11	-147.58	-149.36	-148.95	-151.10	-150.77	-151.68
20	-137.09	-138.25	-145.98	-148.04	-148.01	-151.24	-148.02	-186.47	-149.76	-187.68	-150.14	-188.68
21	-136.61	-139.95	-147.13	-185.74	-149.20	-185.22	-148.12	-186.60	-149.57	-151.37	-149.02	-150.96
22	-137.23	-139.55	-146.59	-148.40	-149.48	-187.05	-148.84	-187.06	-150.01	-187.92	-148.19	-149.20
23	-138.51	-179.76	-146.99	-187.27	-147.65	-149.72	-149.59	-151.41	-150.05	-152.09	-149.03	-187.45
24	-136.12	-139.75	-146.49	-185.26	-148.35	-186.43	-151.31	-188.65	-149.41	-151.12	-148.17	-149.54
25	-135.52	-176.45	-145.78	-147.69	-148.52	-151.03	-151.54	-154.15	-149.94	-187.77	-149.26	-187.85
26	-138.29	-141.97	-147.21	-185.38	-149.63	-187.65	-148.87	-188.85	-149.16	-151.40	-147.72	-149.79
27	-140.20	-181.28	-145.95	-147.72	-148.48	-150.56	-145.90	-148.87	-150.25	-188.31	-147.94	-186.65
28	-141.01	-142.83	-146.04	-183.76	-148.43	-187.20	-144.79	-183.60	-148.56	-187.29	-147.14	-148.91
29	-142.83	-182.98	-145.26	-146.76	-149.09	-150.83	-142.77	-145.85	-149.56	-187.57	-147.13	-184.82
30	-143.28	-181.72	-146.23	-186.34	-150.72	-188.80	-142.70	-183.57	-148.70	-188.16	-145.84	-147.62
31	---	---	-145.44	-182.73	---	---	-146.34	-148.70	-148.43	-150.13	---	---
MONTH	-131.86	-184.83	-142.92	-190.84	-143.79	-188.80	-142.70	-188.85	-146.36	-189.41	-145.84	-190.36
YEAR	-131.86	-190.84										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

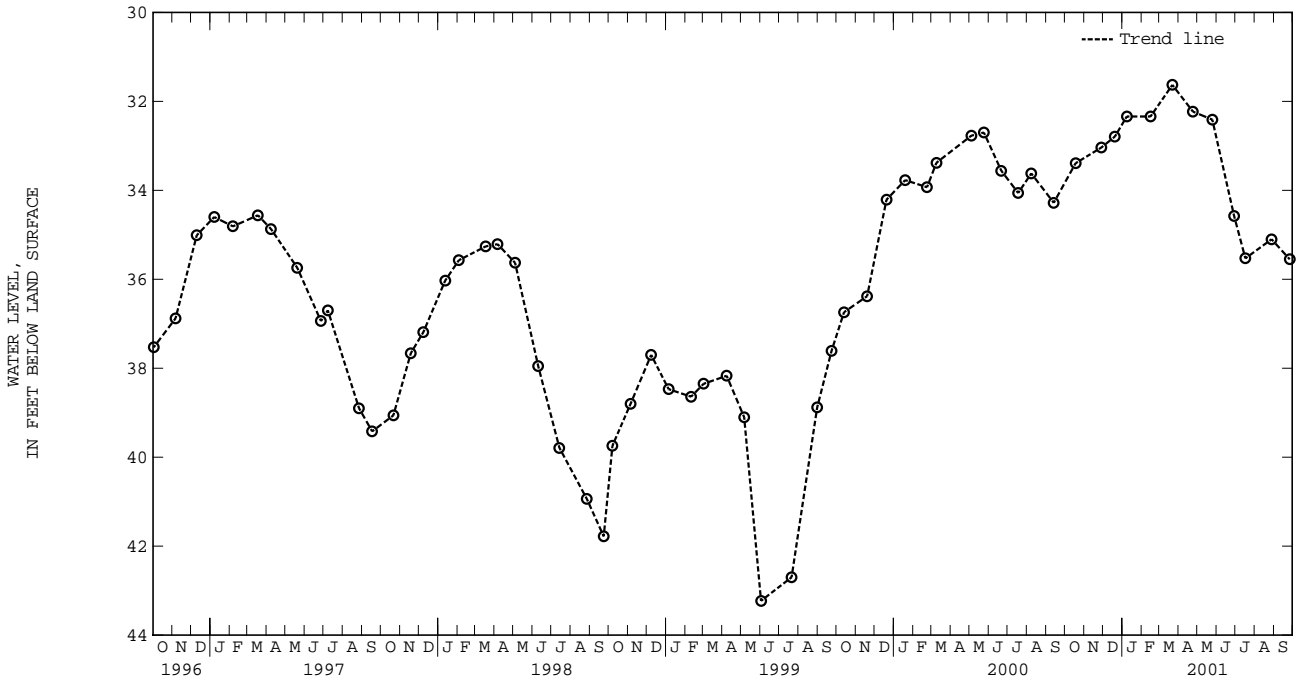
ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 66. SITE ID.--381841076284401. PERMIT NUMBER.--SM-73-1990.  
 LOCATION.--Lat 38°18'41", long 76°28'44", Hydrologic Unit 02060006, 0.8 mi south of Town Point.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 258 ft; casing diameter 6 in., to 84 ft; casing diameter 2 in. from 84 to 248 ft; screen diameter 2 in. from 248 to 258 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.00 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal  
 PERIOD OF RECORD.--July 1976 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.79 ft below land surface, April 5, 1979;  
 lowest measured, 49.66 ft below land surface, July 9, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	33.39	JAN 08, 2001	32.34	APR 24, 2001	32.23	JUL 17, 2001	35.53
NOV 28	33.04	FEB 15	32.34	MAY 25	32.41	AUG 28	35.10
DEC 20	32.79	MAR 22	31.63	JUN 29	34.58	SEP 26	35.55

WATER YEAR 2001    HIGHEST    31.63    MAR 22, 2001    LOWEST    35.55    SEP 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

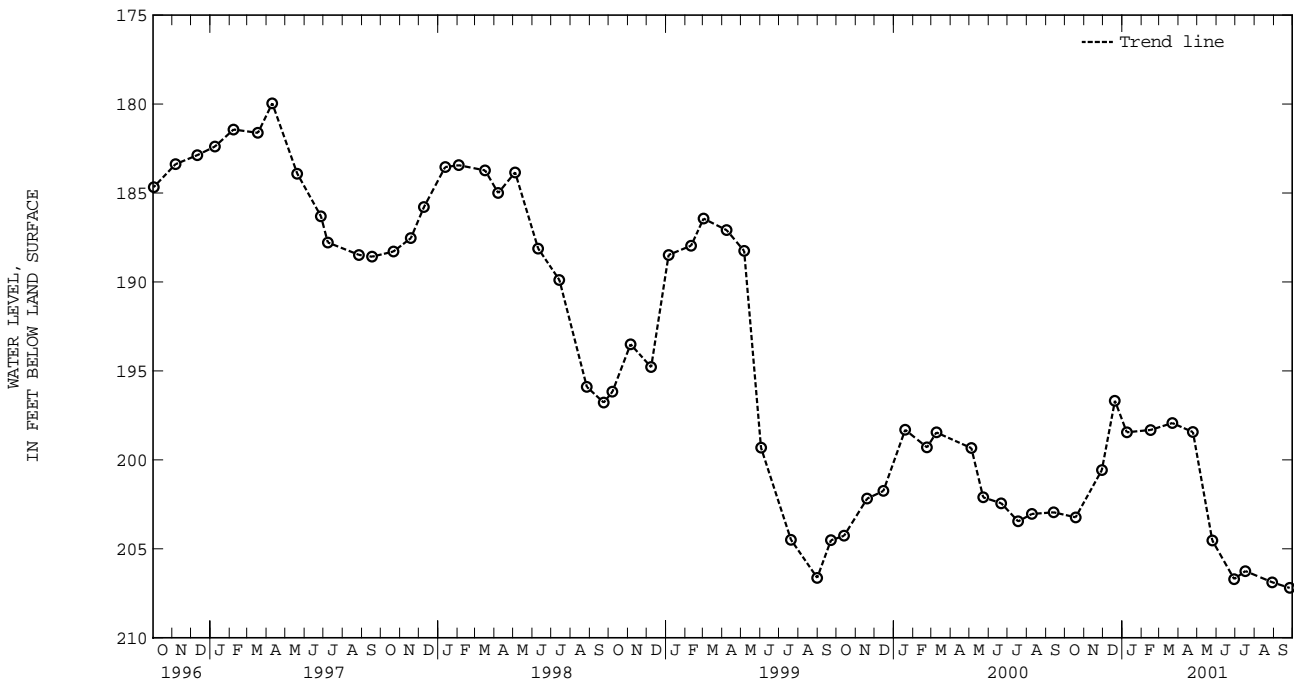
ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 71. SITE ID.--381527076283101. PERMIT NUMBER.--SM-73-3431.  
 LOCATION.--Lat 38°15'27", long 76°28'31", Hydrologic Unit 02070011, at Cheryl Dr. and Great Mills Rd., Lexington Park.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 560 ft; casing diameter 4 in., to 420 ft;  
 casing diameter 2 in. from 420 to 550 ft; screen diameter 2 in. from 550 to 560 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 69.15 ft above sea level.  
 Measuring point: Top of casing, 0.80 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--August 1979 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.19 ft below land surface, May 1, 1980;  
 lowest measured, 207.20 ft below land surface, Sept. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	203.23	JAN 08, 2001	198.45	APR 24, 2001	198.44	JUL 17, 2001	206.25
NOV 29	200.58	FEB 15	198.32	MAY 25	204.53	AUG 29	206.88
DEC 20	196.68	MAR 22	197.93	JUN 29	206.70	SEP 26	207.20

WATER YEAR 2001    HIGHEST 196.68 DEC 20, 2000    LOWEST 207.20 SEP 26, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 84. SITE ID.--381548076272102. PERMIT NUMBER.--SM-81-0119.  
 LOCATION.--Lat 38°15'48", long 76°27'21", Hydrologic Unit 0207011, at Lexington Park.  
 Owner: Maryland Geological Survey.  
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 912 ft; casing diameter 6 in., to 246 ft; casing diameter 4 in. from 246 ft to 831 ft, 856 to 862 ft, and 867 to 897; screen diameter 4 in. from 831 to 856 ft, 862 to 867 ft, and 897 to 912 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60 minute recorder interval from Feb. 24, 2000 to current year.  
 DATUM.--Elevation of land surface is 108.39 ft above sea level.  
 Measuring point: Top of casing, 2.80 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.  
 PERIOD OF RECORD.--January 1983 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.29 ft below sea level, Feb. 3, 1983; lowest measured, 40.38 ft below sea level, Sept. 20, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-37.33	-37.45	-37.83	-37.84	-37.91	-37.96	-38.28	-38.30	-38.15	-38.28	-38.16	-38.23
2	-37.31	-37.43	-37.84	-37.87	-37.96	-38.01	-38.30	-38.37	-38.12	-38.28	-38.12	-38.19
3	-37.32	-37.47	-37.84	-37.88	-38.00	-38.05	-38.29	-38.37	-38.26	-38.35	-38.18	-38.26
4	-37.47	-37.52	-37.75	-37.92	-37.96	-38.03	-38.26	-38.30	-38.27	-38.37	-38.10	-38.26
5	-37.48	-37.59	-37.73	-37.89	-37.88	-37.96	-38.12	-38.27	-38.04	-38.27	-38.03	-38.12
6	-37.49	-37.62	-37.76	-37.91	-37.91	-38.00	-38.12	-38.25	-38.10	-38.23	-38.01	-38.14
7	-37.55	-37.68	-37.77	-37.90	-37.90	-37.95	-38.20	-38.26	-38.23	-38.27	-38.11	-38.26
8	-37.61	-37.74	-37.77	-37.89	-37.91	-38.02	-38.16	-38.24	-38.27	-38.32	-38.19	-38.30
9	-37.62	-37.70	-37.65	-37.77	-38.02	-38.13	-38.19	-38.24	-38.17	-38.31	-38.16	-38.28
10	-37.60	-37.75	-37.57	-37.69	-38.05	-38.13	-38.24	-38.31	-38.17	-38.36	-38.20	-38.28
11	-37.65	-37.78	-37.69	-37.77	-38.00	-38.07	-38.26	-38.34	-38.36	-38.43	-38.18	-38.30
12	-37.70	-37.81	-37.76	-37.79	-37.89	-38.19	-38.24	-38.29	-38.38	-38.47	-38.14	-38.36
13	-37.71	-37.78	-37.75	-37.79	-38.17	-38.23	-38.29	-38.41	-38.33	-38.39	-38.02	-38.15
14	-37.68	-37.78	-37.65	-37.79	-38.04	-38.17	-38.29	-38.39	-38.24	-38.35	-38.12	-38.23
15	-37.67	-37.79	-37.71	-37.81	-38.12	-38.19	-38.26	-38.34	-38.20	-38.26	-38.21	-38.29
16	-37.68	-37.80	-37.72	-37.80	-37.96	-38.17	-38.21	-38.30	-38.23	-38.32	-38.19	-38.26
17	-37.72	-37.85	-37.66	-37.76	-37.82	-37.99	-38.24	-38.33	-38.19	-38.36	-38.22	-38.31
18	-37.67	-37.77	-37.76	-37.88	-37.99	-38.04	-38.23	-38.32	-38.31	-38.38	-38.25	-38.37
19	-37.68	-37.83	-37.81	-37.88	-37.94	-38.01	-38.08	-38.23	-38.28	-38.36	-38.32	-38.40
20	-37.74	-37.87	-37.79	-37.83	-37.94	-38.13	-38.07	-38.18	-38.24	-38.35	-38.31	-38.43
21	-37.71	-37.83	-37.83	-37.91	-38.11	-38.13	-38.07	-38.29	-38.24	-38.38	-38.14	-38.31
22	-37.75	-37.92	-37.89	-37.92	-38.06	-38.20	-38.24	-38.33	-38.25	-38.39	-38.14	-38.21
23	-37.85	-37.98	-37.91	-38.02	-38.20	-38.26	-38.18	-38.27	-38.25	-38.38	-38.12	-38.27
24	-37.80	-37.94	-38.01	-38.03	-38.18	-38.24	-38.08	-38.19	-38.34	-38.38	-38.16	-38.30
25	-37.78	-37.90	-37.85	-38.03	-38.23	-38.34	-38.16	-38.27	-38.14	-38.36	-38.25	-38.33
26	-37.82	-37.89	-37.71	-37.85	-38.26	-38.34	-38.14	-38.30	-38.21	-38.26	-38.28	-38.34
27	-37.69	-37.85	-37.71	-37.76	-38.21	-38.27	-38.11	-38.28	-38.24	-38.32	-38.34	-38.46
28	-37.78	-37.87	-37.76	-37.86	-38.15	-38.22	-38.25	-38.30	-38.21	-38.30	-38.39	-38.48
29	-37.78	-37.93	-37.81	-37.87	-38.16	-38.22	-38.20	-38.31	---	---	-38.26	-38.46
30	-37.75	-37.91	-37.81	-37.91	-38.11	-38.17	-38.02	-38.20	---	---	-38.18	-38.27
31	-37.77	-37.84	---	---	-38.16	-38.28	-38.03	-38.15	---	---	-38.25	-38.30
MONTH	-37.31	-37.98	-37.57	-38.03	-37.82	-38.34	-38.02	-38.41	-38.04	-38.47	-38.01	-38.48

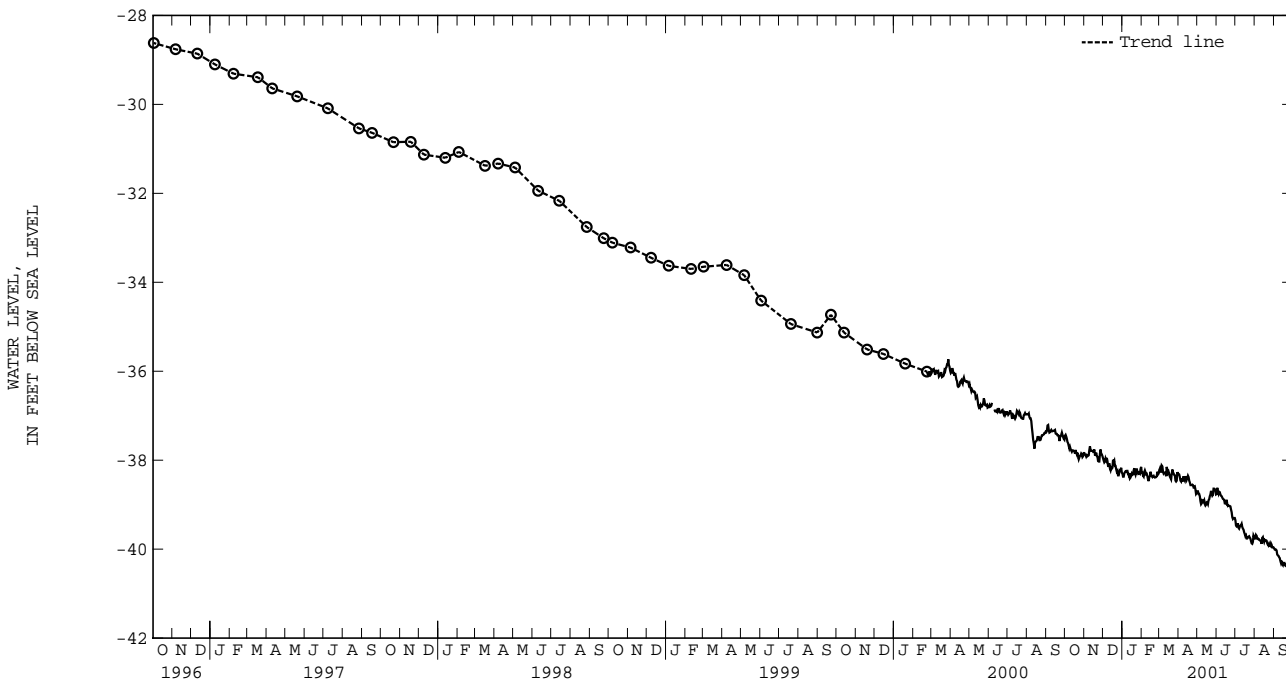
ST. MARYS COUNTY--Continued

SM Df 84--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-38.18	-38.31	-38.62	-38.70	-38.61	-38.76	-39.30	-39.35	-39.72	-39.76	-39.92	-39.98
2	-38.28	-38.32	-38.64	-38.70	-38.54	-38.62	-39.34	-39.47	-39.66	-39.76	-39.98	-40.01
3	-38.32	-38.38	-38.70	-38.76	-38.59	-38.72	-39.47	-39.49	-39.63	-39.68	-39.96	-40.01
4	-38.35	-38.46	-38.72	-38.76	-38.68	-38.76	-39.41	-39.48	-39.65	-39.70	-39.96	-40.01
5	-38.36	-38.48	-38.74	-38.81	-38.67	-38.71	-39.36	-39.42	-39.70	-39.76	-40.00	-40.03
6	-38.30	-38.41	-38.81	-38.92	-38.70	-38.72	-39.40	-39.52	-39.72	-39.76	-40.03	-40.12
7	-38.32	-38.46	-38.92	-38.99	-38.72	-38.77	-39.48	-39.54	-39.72	-39.78	-40.08	-40.14
8	-38.33	-38.46	-38.86	-38.97	-38.72	-38.80	-39.47	-39.50	-39.72	-39.78	-40.08	-40.15
9	-38.28	-38.36	-38.87	-38.90	-38.73	-38.81	-39.43	-39.47	-39.74	-39.80	-40.13	-40.18
10	-38.33	-38.43	-38.88	-38.91	-38.80	-38.84	-39.42	-39.46	-39.75	-39.81	-40.14	-40.20
11	-38.34	-38.46	-38.88	-38.93	-38.80	-38.87	-39.42	-39.43	-39.77	-39.83	-40.17	-40.26
12	-38.27	-38.38	-38.87	-38.90	-38.80	-38.88	-39.43	-39.50	-39.72	-39.88	-40.18	-40.31
13	-38.27	-38.38	-38.90	-38.99	-38.84	-38.89	-39.49	-39.54	-39.68	-39.75	-40.23	-40.26
14	-38.35	-38.44	-38.95	-39.02	-38.89	-38.97	-39.51	-39.56	-39.66	-39.73	-40.25	-40.34
15	-38.27	-38.40	-38.90	-39.00	-38.95	-38.97	-39.54	-39.62	-39.72	-39.80	-40.28	-40.36
16	-38.28	-38.35	-38.91	-38.95	-38.84	-38.98	-39.60	-39.66	-39.77	-39.84	-40.28	-40.29
17	-38.28	-38.38	-38.94	-38.96	-38.84	-38.89	-39.65	-39.71	-39.76	-39.79	-40.29	-40.34
18	-38.34	-38.46	-38.88	-38.99	-38.89	-38.99	-39.65	-39.69	-39.76	-39.80	-40.31	-40.34
19	-38.44	-38.50	-38.82	-38.90	-38.99	-39.03	-39.68	-39.76	-39.75	-39.80	-40.33	-40.37
20	-38.49	-38.56	-38.79	-38.88	-38.99	-39.02	-39.72	-39.76	-39.77	-39.81	-40.29	-40.38
21	-38.49	-38.56	-38.70	-38.81	-38.99	-39.03	-39.69	-39.74	-39.81	-39.87	-40.29	-40.31
22	-38.50	-38.56	-38.62	-38.77	-39.00	-39.03	-39.70	-39.72	-39.86	-39.90	-40.28	-40.31
23	-38.45	-38.55	-38.63	-38.69	-39.00	-39.04	-39.70	-39.71	-39.82	-39.92	-40.28	-40.34
24	-38.46	-38.56	-38.69	-38.76	-39.04	-39.11	-39.70	-39.74	-39.82	-39.88	-40.19	-40.32
25	-38.55	-38.61	-38.74	-38.80	-39.11	-39.17	-39.73	-39.76	-39.88	-39.92	-40.19	-40.27
26	-38.55	-38.60	-38.60	-38.78	-39.17	-39.28	-39.76	-39.82	-39.84	-39.93	-40.26	-40.31
27	-38.51	-38.59	-38.58	-38.64	-39.27	-39.32	-39.82	-39.87	-39.83	-39.87	-40.25	-40.30
28	-38.52	-38.66	-38.59	-38.64	-39.30	-39.30	-39.84	-39.88	-39.86	-39.90	-40.27	-40.32
29	-38.66	-38.76	-38.60	-38.65	-39.27	-39.30	-39.66	-39.84	-39.89	-39.96	-40.30	-40.36
30	-38.66	-38.74	-38.61	-38.68	-39.28	-39.30	-39.62	-39.69	-39.88	-39.96	-40.31	-40.37
31	---	---	-38.68	-38.77	---	---	-39.67	-39.72	-39.88	-39.96	---	---
MONTH	-38.18	-38.76	-38.58	-39.02	-38.54	-39.32	-39.30	-39.88	-39.63	-39.96	-39.92	-40.38
YEAR	-37.31	-40.38										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 100. PERMIT NUMBER.--SM-94-3113.

LOCATION.--Hydrologic Unit 0206006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 910 ft; casing diameter 10 in., to 706 ft; casing diameter 8 in. from 716 ft to 744 ft, 754 to 835 ft, 860 to 882 ft; 892 to 900 ft; and 905 to 910 ft; screen diameter 8 in. from 706 to 716 ft, 744 to 754 ft, 835 to 860 ft, 882 to 892 ft and 900 to 905 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recording interval, Feb. 7, 2001 to current year.

DATUM.--Elevation of land surface is 21 ft above sea level, from topographic map.

Measuring point: Top of pump base, 2.05 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrology project. Water levels are affected by regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.11 ft below sea level, March 5, 2001; lowest measured, 39.51 ft below sea level, Sept. 22, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	-36.26	-37.02
2	---	---	---	---	---	---	---	---	---	---	-36.33	-36.98
3	---	---	---	---	---	---	---	---	---	---	-36.33	-37.04
4	---	---	---	---	---	---	---	---	---	---	-36.30	-36.85
5	---	---	---	---	---	---	---	---	---	---	-36.11	-36.65
6	---	---	---	---	---	---	---	---	---	---	-36.36	-36.80
7	---	---	---	---	---	---	---	---	---	---	-36.40	-37.01
8	---	---	---	---	---	---	---	---	-36.59	-37.18	-36.28	-36.74
9	---	---	---	---	---	---	---	---	-36.68	-37.30	-36.23	-36.75
10	---	---	---	---	---	---	---	---	-36.77	-37.10	-36.41	-37.09
11	---	---	---	---	---	---	---	---	-36.76	-37.25	-36.34	-37.27
12	---	---	---	---	---	---	---	---	-36.77	-37.28	-36.75	-37.45
13	---	---	---	---	---	---	---	---	-36.73	-37.23	-36.54	-37.15
14	---	---	---	---	---	---	---	---	-36.61	-36.97	---	---
15	---	---	---	---	---	---	---	---	-36.70	-37.00	---	---
16	---	---	---	---	---	---	---	---	-36.55	-36.90	-36.69	-37.04
17	---	---	---	---	---	---	---	---	-36.50	-36.85	-36.67	-37.21
18	---	---	---	---	---	---	---	---	-36.55	-37.11	-36.76	-37.36
19	---	---	---	---	---	---	---	---	-36.53	-36.97	-36.65	-37.31
20	---	---	---	---	---	---	---	---	-36.66	-37.20	-36.62	-37.17
21	---	---	---	---	---	---	---	---	-36.75	-37.20	-36.27	-36.76
22	---	---	---	---	---	---	---	---	-36.33	-36.79	-36.24	-36.95
23	---	---	---	---	---	---	---	---	-36.28	-37.12	-36.66	-37.24
24	---	---	---	---	---	---	---	---	-36.51	-36.98	-36.52	-37.28
25	---	---	---	---	---	---	---	---	-36.57	-37.01	-36.64	-37.39
26	---	---	---	---	---	---	---	---	-36.61	-37.15	-36.51	-37.07
27	---	---	---	---	---	---	---	---	-36.58	-37.31	-36.62	-37.35
28	---	---	---	---	---	---	---	---	-36.43	-36.94	-36.67	-37.41
29	---	---	---	---	---	---	---	---	---	---	-36.70	-37.10
30	---	---	---	---	---	---	---	---	---	---	-36.58	-37.00
31	---	---	---	---	---	---	---	---	---	---	-36.50	-36.95
MONTH	---	---	---	---	---	---	---	---	-36.28	-37.31	-36.11	-37.45

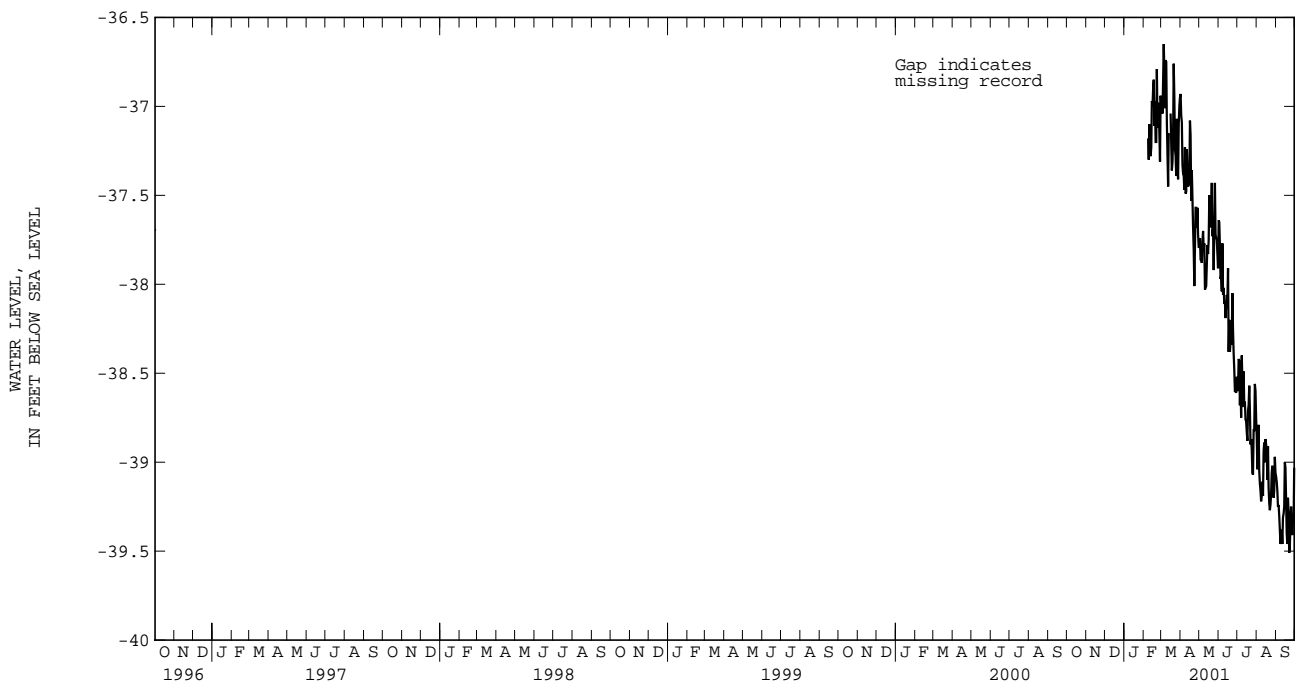
ST. MARYS COUNTY--Continued

SM Df 100--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-36.51	-36.93	-37.21	-37.79	-37.13	-37.64	-37.96	-38.59	-38.18	-38.86	-38.54	-39.08
2	-36.53	-37.05	-37.24	-37.74	-37.15	-37.65	-37.97	-38.60	-38.30	-39.04	-38.54	-39.11
3	-36.71	-37.09	-37.26	-37.86	-37.15	-37.79	-37.93	-38.42	-38.30	-38.97	-38.55	-39.16
4	-36.82	-37.33	-37.29	-37.86	-37.32	-37.97	-37.94	-38.43	-38.32	-38.79	-38.45	-39.25
5	-36.82	-37.38	-37.28	-37.88	-37.31	-37.95	-37.97	-38.68	-38.38	-39.05	-38.60	-39.24
6	-36.85	-37.39	-37.10	-37.76	-37.42	-38.04	-37.93	-38.54	-38.40	-39.12	-38.59	-39.30
7	-36.94	-37.47	-37.02	-37.70	-37.40	-37.77	-37.95	-38.75	-38.47	-39.16	-38.54	-39.38
8	-36.79	-37.23	-37.07	-37.80	-37.36	-38.06	-37.95	-38.40	-38.53	-39.22	-38.69	-39.46
9	-36.73	-37.49	-37.17	-37.77	-37.31	-38.02	-38.02	-38.54	-38.57	-39.19	-38.75	-39.42
10	-36.81	-37.48	-37.24	-38.03	-37.38	-38.11	-37.98	-38.69	-38.43	-39.11	-38.79	-39.38
11	-36.79	-37.24	-37.23	-38.02	-37.46	-38.10	-37.92	-38.49	-38.57	-39.19	-38.79	-39.46
12	-36.86	-37.36	-37.26	-38.01	-37.53	-38.19	-38.19	-38.68	-38.43	-38.94	-38.63	-39.31
13	-36.97	-37.45	-37.43	-37.89	-37.60	-38.12	-38.13	-38.66	-38.45	-38.89	-38.61	-39.29
14	-36.94	-37.44	-37.27	-37.78	-37.68	-38.06	-38.22	-38.76	-38.45	-39.00	-38.64	-39.25
15	-36.84	-37.41	-37.23	-37.83	-37.55	-38.08	-38.14	-38.77	-38.32	-38.87	-38.51	-39.00
16	-36.59	-37.08	-37.07	-37.75	-37.52	-37.91	-38.20	-38.83	-38.27	-38.90	-38.51	-39.03
17	-36.65	-37.16	-37.10	-37.50	-37.63	-38.38	-38.20	-38.88	-38.37	-38.94	-38.53	-39.21
18	-36.89	-37.53	-37.12	-37.55	-37.58	-38.20	-38.26	-38.71	-38.46	-39.10	-38.52	-39.40
19	-36.84	-37.36	-37.16	-37.68	-37.58	-38.38	-38.15	-38.68	-38.45	-38.91	-38.68	-39.46
20	-36.88	-37.52	-37.12	-37.59	-37.70	-38.32	-37.99	-38.57	-38.43	-39.14	-38.69	-39.20
21	-37.20	-37.68	-37.03	-37.43	-37.60	-38.34	-37.93	-38.70	-38.47	-39.23	-38.61	-39.28
22	-37.27	-37.81	-37.05	-37.73	-37.63	-38.28	-38.02	-38.90	-38.55	-39.27	-38.76	-39.51
23	-37.29	-38.01	-37.04	-37.69	-37.38	-38.05	-38.10	-38.87	-38.49	-39.24	-38.89	-39.48
24	-37.18	-37.80	-37.06	-37.92	-37.64	-38.26	-38.19	-38.93	-38.48	-39.18	-38.69	-39.33
25	-37.13	-37.57	-37.09	-37.69	-37.67	-38.39	-38.37	-39.06	-38.44	-39.06	-38.62	-39.25
26	-36.92	-37.57	-36.95	-37.43	-37.76	-38.48	-38.38	-39.07	-38.36	-39.02	-38.73	-39.32
27	-36.67	-37.68	-37.00	-37.72	-37.91	-38.60	-38.18	-38.82	-38.53	-39.06	-38.71	-39.41
28	-36.98	-37.57	-37.07	-37.74	-38.04	-38.60	-38.26	-38.82	-38.60	-39.20	-38.90	-39.31
29	-37.16	-37.72	-37.14	-37.75	-37.91	-38.61	-38.05	-38.56	-38.57	-39.16	-38.89	-39.35
30	-37.00	-37.79	-37.29	-37.83	-37.91	-38.52	-38.08	-38.60	-38.55	-38.97	-38.71	-39.03
31	---	---	-37.20	-37.91	---	---	-38.15	-38.75	-38.44	-39.06	---	---
MONTH	-36.51	-38.01	-36.95	-38.03	-37.13	-38.61	-37.92	-39.07	-38.18	-39.27	-38.45	-39.51
YEAR	-36.11	-39.51										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dg 14. PERMIT NUMBER.--SM-92-0370.

LOCATION.--Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI..

WELL CHARACTERISTICS.--Drilled, artesian well, depth 542 ft; casing diameter 8 in., to 490 ft, and casing diameter 6 in. from 540 to 542 ft; screen diameter 6 in. from 490 to 540 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recording interval, Sept. 22, 1999 to current year.

DATUM.--Elevation of land surface is 19.00 ft above sea level.

Measuring point: Top of shelter platform, 2.20 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation/production well.

Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--April 22, 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 71.00 ft below sea level, April 22, 1994;  
lowest measured, 193.80 ft below sea level, July 25, 2001.

## WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-121.00	-166.00	-121.30	-166.30	-120.20	-165.80	-119.20	-165.10	-117.60	-118.00	-116.20	-159.40
2	-120.90	-121.40	-121.00	-121.60	-120.00	-120.30	-118.80	-119.20	-117.40	-118.00	-116.20	-116.70
3	-120.80	-121.40	-121.20	-128.10	-119.90	-120.20	-118.20	-119.00	-117.50	-117.90	-116.10	-116.60
4	-121.00	-121.50	-128.10	-129.40	-119.40	-120.10	-118.00	-118.50	-117.50	-117.90	-115.80	-116.50
5	-121.10	-126.60	-123.70	-129.60	-119.30	-119.80	-118.00	-118.40	-117.20	-117.70	-115.50	-116.20
6	-126.60	-129.00	-122.10	-123.70	-119.40	-119.90	-118.00	-118.50	-117.20	-164.60	-116.10	-116.60
7	-123.40	-129.50	-121.80	-122.40	-119.20	-119.60	-118.00	-118.30	-117.30	-118.20	-116.20	-116.90
8	-122.40	-123.40	-121.50	-122.10	-119.20	-119.60	-117.80	-118.40	-117.80	-118.40	-115.80	-116.40
9	-122.00	-122.50	-121.10	-121.70	-119.10	-119.60	-117.90	-118.40	-117.90	-118.40	-115.70	-117.20
10	-121.60	-122.10	-120.90	-121.50	-118.80	-119.40	-118.10	-118.60	-117.80	-118.30	-116.10	-116.80
11	-121.60	-122.00	-121.30	-121.80	-118.90	-119.30	-118.20	-118.90	-118.00	-118.60	-116.20	-120.50
12	-121.80	-174.90	-120.90	-121.60	-118.90	-119.50	-118.40	-118.80	-118.00	-118.50	-116.90	-118.30
13	-121.40	-122.00	-120.70	-121.30	-119.40	-119.90	-118.30	-118.80	-117.80	-118.30	-116.40	-116.90
14	-121.20	-121.70	-120.70	-170.70	-119.10	-119.70	-118.10	-118.80	-117.40	-118.00	---	---
15	-121.10	-172.60	-120.90	-164.50	-119.30	-119.80	-118.20	-118.60	-117.30	-117.70	---	---
16	-123.10	-170.20	-120.80	-164.30	-118.90	-163.10	-118.10	-162.30	-117.10	-162.40	-116.30	-161.00
17	-121.80	-167.10	-120.90	-171.60	-118.30	-162.90	-119.60	-166.40	-117.10	-160.50	-116.20	-161.50
18	-121.40	-177.60	-121.10	-164.10	-118.80	-177.20	-119.70	-175.50	-117.20	-160.70	-116.60	-172.90
19	-121.50	-170.40	-120.80	-163.80	-118.80	-162.10	-119.60	-163.30	-117.10	-165.30	-117.70	-167.50
20	-121.50	-170.70	-120.50	-171.10	-118.80	-164.30	-119.40	-166.00	-117.10	-163.70	-117.00	-163.30
21	-121.40	-182.70	-120.60	-166.10	-118.80	-162.20	-119.00	-174.00	-117.20	-180.90	-116.30	-160.00
22	-123.30	-170.20	-120.90	-165.00	-118.80	-164.60	-120.10	-177.00	-117.00	-160.50	-116.30	-161.80
23	-122.10	-169.50	-120.90	-168.50	-118.90	-162.30	-118.00	-165.70	-116.90	-161.00	-116.80	-160.50
24	-121.80	-178.30	-121.90	-169.80	-118.80	-163.60	-117.70	-162.50	-116.90	-160.30	-116.70	-160.10
25	-121.70	-166.70	-120.80	-165.90	-118.70	-164.00	-117.60	-118.30	-116.80	-170.00	-116.80	-160.80
26	-121.60	-166.90	-120.00	-172.20	-118.90	-161.70	-117.90	-118.50	-116.70	-165.50	-116.60	-162.60
27	-121.30	-165.80	-120.10	-163.10	-118.60	-164.30	-117.60	-118.20	-116.80	-166.50	-116.80	-165.90
28	-121.00	-170.30	-120.00	-187.10	-118.50	-172.60	-118.00	-118.60	-116.40	-163.90	-116.80	-160.70
29	-123.20	-172.50	-120.20	-168.60	-161.10	-168.60	-117.90	-118.40	---	---	-116.80	-161.00
30	-122.10	-170.50	-120.10	-168.30	-160.80	-168.30	-117.30	-118.10	---	---	-116.40	-160.90
31	-121.70	-169.70	---	---	-161.10	-169.40	-117.40	-117.90	---	---	-116.30	-163.60
MONTH	-120.80	-182.70	-120.00	-187.10	-118.30	-177.20	-117.30	-177.00	-116.40	-180.90	-115.50	-172.90



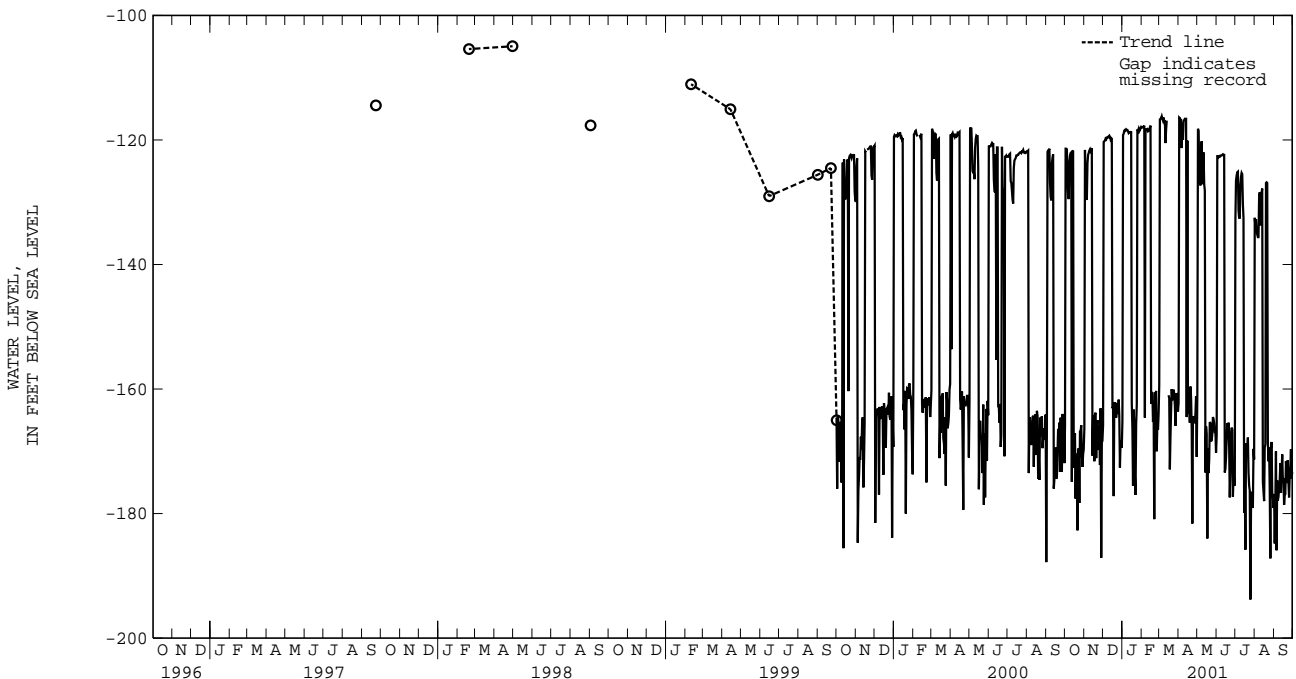
ST. MARYS COUNTY--Continued

SM Dg 14--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-116.20	-162.20	-117.80	-161.20	-122.00	-167.50	-126.40	-132.80	-126.80	-132.50	-128.10	-176.90
2	-115.90	-116.40	-117.80	-118.20	-122.10	-122.60	-125.70	-126.50	-128.60	-133.90	-129.20	-184.80
3	-116.20	-116.50	-117.90	-118.50	-122.00	-122.60	-125.00	-125.70	-127.60	-132.70	-127.80	-178.10
4	-116.20	-116.80	-118.10	-124.70	-122.20	-122.80	-124.70	-125.20	-132.70	-134.60	-127.50	-170.00
5	-116.30	-116.80	-124.70	-126.70	-122.10	-122.70	-124.50	-125.10	-134.40	-135.20	-127.20	-185.90
6	-116.30	-121.30	-121.20	-127.30	-122.10	-122.70	-124.30	-131.30	-134.90	-135.60	-127.40	-174.70
7	-116.80	-117.40	-119.90	-121.20	-122.10	-122.50	-131.20	-132.50	-129.40	-135.60	-133.90	-177.90
8	-116.50	-120.00	-119.70	-120.20	-122.00	-122.50	-127.20	-132.50	-128.30	-129.40	-129.80	-177.30
9	-116.40	-117.00	-119.60	-125.60	-121.90	-122.50	-125.90	-127.20	-127.60	-128.40	-129.00	-176.00
10	-116.10	-116.80	-122.00	-127.10	-121.80	-122.40	-125.20	-125.90	-127.30	-133.50	-129.00	-174.60
11	-116.10	-116.60	-120.70	-122.00	-121.80	-122.30	-124.90	-125.30	-128.30	-133.70	-128.70	-171.90
12	-116.10	-116.60	-120.30	-127.10	-121.80	-122.40	-125.00	-125.50	-127.50	-128.40	-127.90	-176.70
13	-116.10	-116.60	-122.70	-128.10	-121.90	-122.40	-125.00	-130.30	-127.20	-127.80	-127.70	-173.40
14	-116.20	-164.50	-121.50	-173.40	-122.20	-173.40	-130.30	-132.60	-127.10	-174.90	-127.70	-170.50
15	-116.00	-120.10	-121.30	-166.00	-122.70	-172.80	-132.60	-179.90	-126.70	-176.40	-127.20	-174.60
16	-115.80	-163.90	-121.20	-167.30	-123.60	-171.00	-133.40	-175.10	-126.60	-178.00	-127.10	-174.30
17	-115.90	-161.50	-121.10	-184.00	-123.30	-168.10	-128.20	-185.80	-126.60	-169.40	-133.00	-178.60
18	-116.20	-162.20	-121.10	-169.50	-122.70	-165.50	-126.90	-169.30	-126.70	-168.90	-134.70	-177.00
19	-116.30	-165.40	-127.90	-173.50	-122.70	-167.70	-126.40	-168.70	-126.50	-126.90	-130.00	-176.90
20	-116.20	-159.60	-123.50	-171.40	-122.60	-165.40	-126.00	-170.90	-126.30	-126.80	-128.70	-171.60
21	-116.60	-161.40	-122.60	-165.30	-122.40	-169.30	-125.70	-167.80	-126.40	-126.90	-128.20	-173.42
22	-116.70	-166.40	-122.40	-165.50	-122.70	-177.40	-125.50	-173.40	-126.30	-168.50	-129.20	-175.10
23	-119.50	-181.60	-122.20	-168.40	-125.10	-173.40	-125.70	-175.50	-126.30	-171.60	-128.20	-171.40
24	-118.30	-164.40	-122.30	-168.20	-124.20	-167.00	-125.70	-176.30	-126.30	-169.40	-127.40	-175.00
25	-117.90	-165.20	-122.20	-167.20	-123.50	-166.20	-125.90	-193.80	-126.20	-175.80	-127.30	-177.40
26	-118.20	-165.00	-121.90	-164.50	-123.30	-166.50	-126.20	-179.40	-128.90	-187.20	-127.40	-174.20
27	-117.80	-165.50	-121.80	-164.80	-123.40	-177.30	-132.40	-176.50	-127.10	-169.50	-127.40	-172.70
28	-118.30	-163.90	-121.80	-165.50	-129.20	-173.90	-133.70	-178.40	-126.90	-168.50	-127.30	-169.70
29	-118.00	-161.20	-121.90	-166.90	-131.20	-174.60	-128.40	-179.10	-126.90	-176.70	-127.20	-174.40
30	-117.80	-170.90	-122.10	-166.90	-132.00	-175.50	-127.20	-169.60	-129.10	-177.00	-127.10	-173.30
31	---	---	-122.40	-170.20	---	---	-126.80	-171.30	-128.30	-179.10	---	---
MONTH	-115.80	-181.60	-117.80	-184.00	-121.80	-177.40	-124.30	-193.80	-126.20	-187.20	-127.10	-185.90
YEAR	-115.50	-193.80										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dg 21. PERMIT NUMBER.--SM-94-0074.  
 LOCATION.--Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.  
 Owner: U.S. Navy.  
 AQUIFER.--Piney Point Formation of Upper Eocene age and the Nanjemoy Formation of Lower Eocene age.  
 Aquifer code: 124PNPN,124NNJM.  
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 315 ft; casing diameter 4 in., to 295 ft;  
 screen diameter 4 in. from 295 to 315 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 Equipped with digital water-level recorder--60-minute recording interval, Feb. 24, 2000 to current year.  
 DATUM.--Elevation of land surface is 3 ft above sea level.  
 Measuring point: Top of shelter platform, 1.70 ft above land surface.  
 REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation/production well.  
 Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--Feb. 26, 1998 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.14 ft below sea level, March 5, 2001;  
 lowest measured, 23.27 ft below sea level, Sept. 8, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	-17.59	-19.16
2	---	---	---	---	---	---	---	---	---	---	-17.61	-18.97
3	---	---	---	---	---	---	---	---	---	---	-17.61	-20.09
4	---	---	---	---	---	---	---	---	---	---	-17.39	-18.80
5	---	---	---	---	---	---	---	---	---	---	-17.14	-18.48
6	---	---	---	---	---	---	---	---	---	---	-17.72	-18.86
7	---	---	---	---	---	---	---	---	---	---	-17.60	-19.16
8	---	---	---	---	---	---	---	---	-18.26	-19.72	-17.35	-18.58
9	---	---	---	---	---	---	---	---	-18.37	-19.72	-17.19	-18.72
10	---	---	---	---	---	---	---	---	-18.29	-19.32	-17.51	-19.36
11	---	---	---	---	---	---	---	---	-18.34	-19.76	-17.52	-19.56
12	---	---	---	---	---	---	---	---	-18.39	-19.71	-17.98	-19.33
13	---	---	---	---	---	---	---	---	-18.28	-19.53	-17.80	-19.51
14	---	---	---	---	---	---	---	---	-18.03	-20.37	---	---
15	---	---	---	---	---	---	---	---	-18.13	-19.84	---	---
16	---	---	---	---	---	---	---	---	-17.94	-19.44	-17.86	-18.91
17	---	---	---	---	---	---	---	---	-17.92	-18.87	-17.82	-18.97
18	---	---	---	---	---	---	---	---	-18.07	-19.22	-17.99	-19.24
19	---	---	---	---	---	---	---	---	-18.01	-19.01	-17.83	-19.65
20	---	---	---	---	---	---	---	---	-18.06	-19.27	-17.80	-18.98
21	---	---	---	---	---	---	---	---	-18.19	-19.34	-17.22	-18.50
22	---	---	---	---	---	---	---	---	-17.75	-18.89	-17.21	-20.69
23	---	---	---	---	---	---	---	---	-17.64	-20.64	-17.84	-19.12
24	---	---	---	---	---	---	---	---	-17.83	-19.02	-17.66	-19.11
25	---	---	---	---	---	---	---	---	-17.90	-18.98	-17.72	-19.17
26	---	---	---	---	---	---	---	---	-17.88	-20.02	-17.58	-18.77
27	---	---	---	---	---	---	---	---	-17.96	-19.44	-17.82	-19.21
28	---	---	---	---	---	---	---	---	-17.73	-19.24	-17.78	-19.08
29	---	---	---	---	---	---	---	---	---	---	-17.78	-18.80
30	---	---	---	---	---	---	---	---	---	---	-17.61	-20.13
31	---	---	---	---	---	---	---	---	---	---	-17.54	-18.99
MONTH	---	---	---	---	---	---	---	---	-17.64	-20.64	-17.14	-20.69

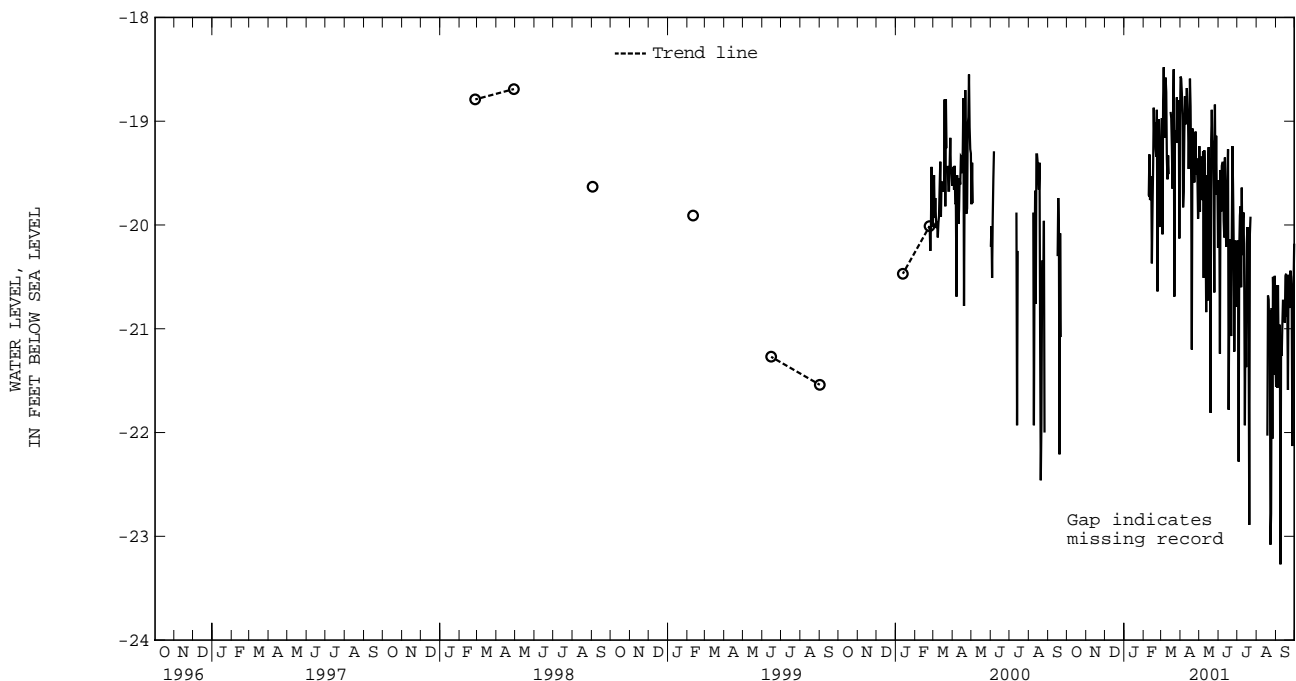
ST. MARYS COUNTY--Continued

SM Dg 21--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-17.52	-18.57	-18.12	-19.24	-17.80	-19.57	-18.57	-20.43	---	---	-19.19	-21.56
2	-17.36	-18.59	-17.99	-19.87	-17.80	-19.82	-18.66	-20.15	---	---	-19.24	-20.58
3	-17.64	-18.73	-18.00	-19.34	-17.86	-21.24	-18.68	-22.28	---	---	-19.18	-21.57
4	-17.75	-18.94	-18.11	-19.42	-18.04	-19.47	-18.58	-20.22	---	---	-19.04	-20.58
5	-17.75	-19.83	-18.10	-19.76	-18.02	-19.87	-18.58	-19.91	---	---	-19.24	-21.22
6	-17.78	-19.68	-17.92	-19.69	-18.17	-19.43	-18.52	-19.82	---	---	-19.25	-20.97
7	-17.92	-19.11	-17.66	-19.29	-18.12	-19.40	-18.61	-20.60	---	---	-19.20	-20.97
8	-17.65	-18.76	-17.73	-20.51	-18.03	-19.40	-18.47	-19.64	---	---	-19.30	-23.27
9	-17.55	-19.03	-17.98	-19.28	-17.94	-19.96	-18.62	-20.29	---	---	-19.41	-21.18
10	-17.65	-18.98	-18.05	-19.59	-18.02	-20.12	-18.59	-19.93	---	---	-19.49	-21.26
11	-17.61	-18.68	-18.06	-20.03	-18.09	-19.35	-18.48	-19.88	---	---	-19.60	-20.97
12	-17.67	-18.93	-18.07	-20.84	-18.17	-19.83	-18.78	-20.59	---	---	-19.29	-20.73
13	-17.81	-19.02	-18.39	-19.52	-18.28	-20.21	-18.75	-21.93	---	---	-19.22	-20.73
14	-17.85	-19.46	-18.15	-20.73	-18.26	-19.92	-18.86	-20.80	---	---	-19.26	-20.77
15	-17.71	-19.07	-18.15	-19.41	-18.13	-19.59	-18.75	-21.37	---	---	-19.05	-20.94
16	-17.36	-18.59	-17.87	-19.25	-18.12	-19.27	-18.74	-20.18	---	---	-18.97	-20.49
17	-17.41	-18.86	-17.83	-19.56	-18.37	-21.78	-18.72	-20.02	---	---	-19.00	-20.47
18	-17.78	-19.58	-17.94	-19.51	-18.27	-20.76	-18.77	-20.34	-19.26	-22.03	-19.03	-20.88
19	-17.75	-21.20	-18.08	-21.81	-18.27	-20.14	-18.76	-20.95	-19.29	-20.68	-19.17	-20.83
20	-17.69	-19.07	-17.95	-19.18	-18.40	-20.32	-18.53	-22.89	-19.18	-20.72	-19.18	-21.59
21	-18.07	-19.37	-17.84	-18.89	-18.24	-21.07	-18.32	-20.09	-19.26	-21.03	-19.05	-20.48
22	-18.14	-19.44	-17.81	-19.18	-18.29	-20.13	-18.38	-19.92	-19.33	-20.82	-19.30	-20.73
23	-18.24	-19.59	-17.82	-19.24	-17.91	-19.24	---	---	-19.29	-23.08	-19.34	-20.80
24	-18.12	-19.41	-17.89	-19.68	-18.18	-19.61	---	---	-19.35	-22.78	-19.14	-20.44
25	-18.12	-19.10	-17.84	-20.65	-18.25	-20.15	---	---	-19.10	-20.80	-19.00	-20.50
26	-17.77	-19.51	-17.59	-18.84	-18.39	-21.22	---	---	-18.98	-22.06	-19.25	-20.69
27	-17.38	-19.36	-17.69	-19.69	-18.61	-20.44	---	---	-19.19	-20.50	-19.22	-22.13
28	-17.64	-19.56	-17.86	-19.14	-18.72	-20.15	---	---	-19.27	-20.81	-19.48	-20.82
29	-17.94	-19.94	-17.90	-19.71	-18.60	-20.79	---	---	-19.33	-21.44	-19.43	-20.55
30	-17.87	-19.76	-18.08	-19.58	-18.52	-20.43	---	---	-19.22	-20.49	-19.05	-20.18
31	---	---	-17.99	-20.22	---	---	---	---	-19.05	-21.33	---	---
MONTH	-17.36	-21.20	-17.59	-21.81	-17.80	-21.78	-18.32	-22.89	-18.98	-23.08	-18.97	-23.27
YEAR	-17.14	-23.27										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

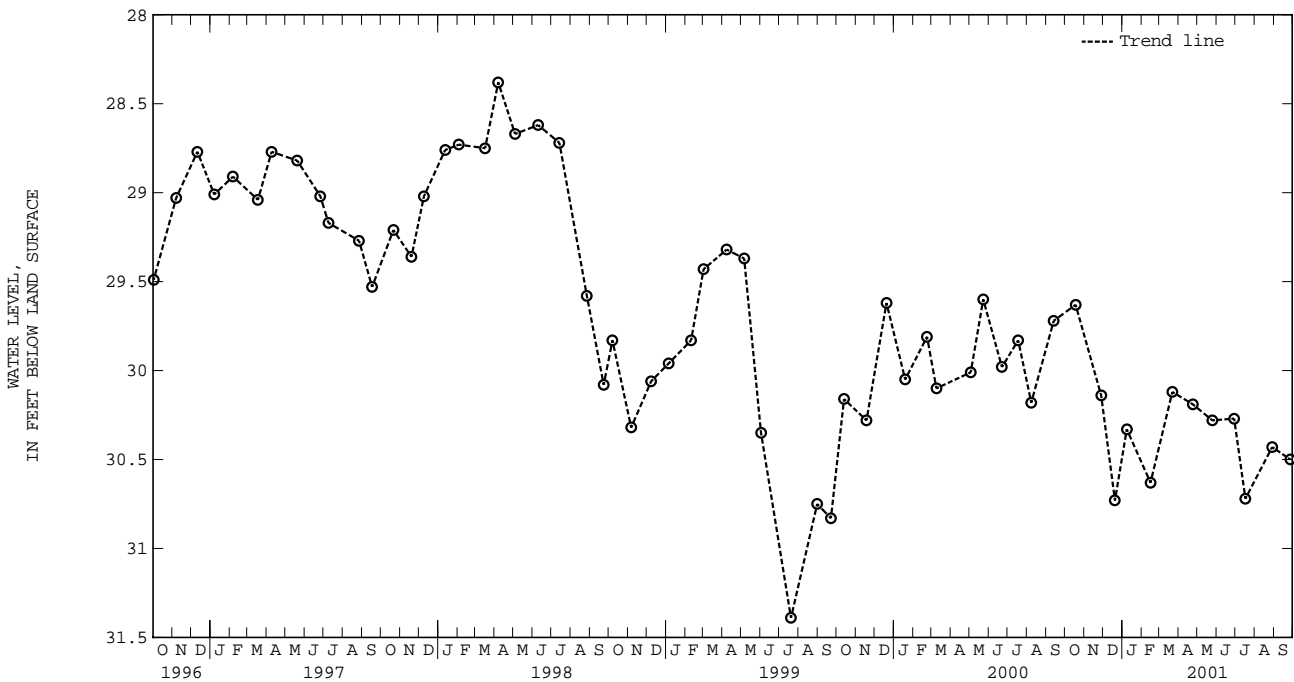
GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Eg 27. SITE ID.--381213076222801. PERMIT NUMBER.--SM-73-1993.  
 LOCATION.--Lat 38°12'13", long 76°22'28", Hydrologic Unit 02060004, 1.6 miles east of St. James, at the St. Marys Co. Environmental Studies Area.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 320 ft; casing diameter 6 in., to 70 ft; casing diameter 2 in. from 70 to 310 ft; screen diameter 2 in. from 310 to 320 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 2.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--August 1976 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.84 ft below land surface, May 12, 1978; lowest measured, 31.39 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	29.63	JAN 08, 2001	30.33	APR 24, 2001	30.19	JUL 17, 2001	30.72
NOV 28	30.14	FEB 15	30.63	MAY 25	30.28	AUG 29	30.43
DEC 20	30.73	MAR 22	30.12	JUN 29	30.27	SEP 27	30.50
WATER YEAR 2001 HIGHEST 29.63 OCT 18, 2000		LOWEST 30.73 DEC 20, 2000					



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

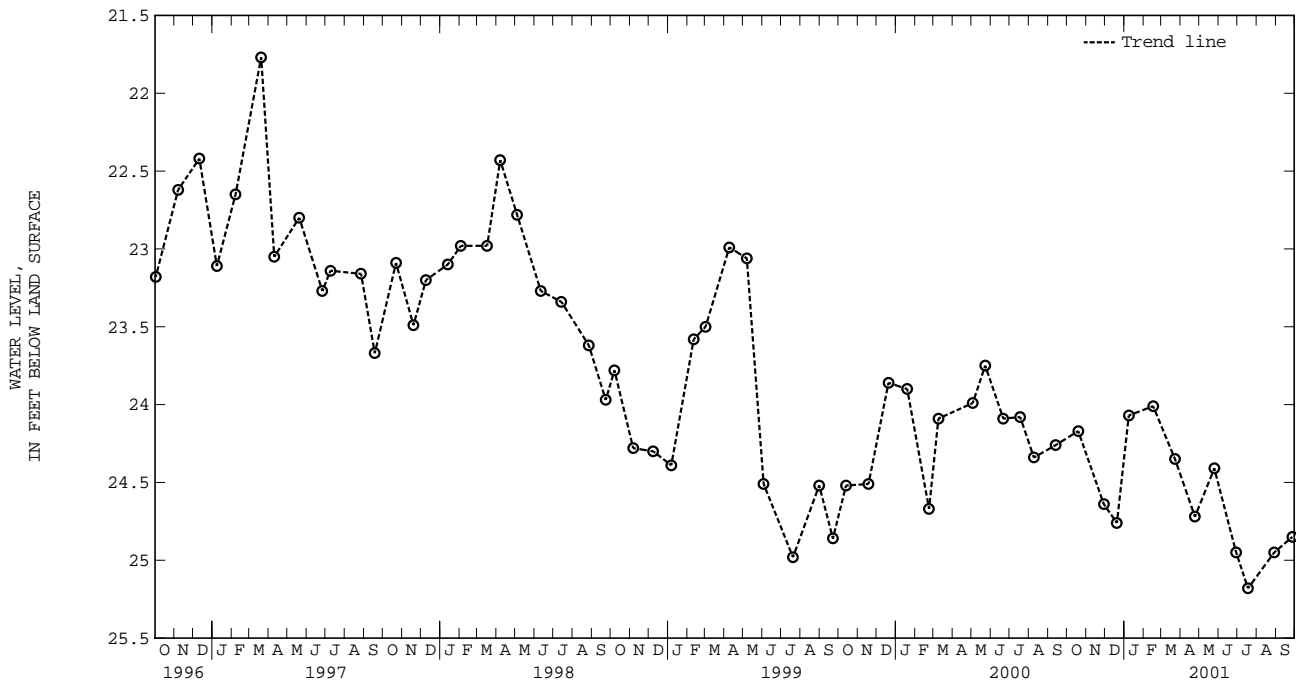
ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Fe 30. SITE ID.--380834076303401. PERMIT NUMBER.--SM-73-1917.  
 LOCATION.--Lat 38°08'34", long 76°30'34", Hydrologic Unit 02070011, St. Mary's Co. Metropolitan Commission Facility, Piney Point.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 270 ft; casing diameter 6 in., to 67 ft; casing diameter 2 in. from 67 to 260 ft; screen diameter 2 in. from 260 to 270 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Oct. 12, 1988 to Oct. 12, 1994.  
 DATUM.--Elevation of land surface is 9 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.7 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--August 1976 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.24 ft below land surface, Oct. 6, 1976; lowest measured, 25.18 ft below land surface, July 18, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	24.17	JAN 08, 2001	24.07	APR 24, 2001	24.72	JUL 18, 2001	25.18
NOV 29	24.64	FEB 16	24.01	MAY 25	24.41	AUG 29	24.95
DEC 20	24.76	MAR 23	24.35	JUN 29	24.95	SEP 27	24.85

WATER YEAR 2001 HIGHEST 24.01 FEB 16, 2001 LOWEST 25.18 JUL 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

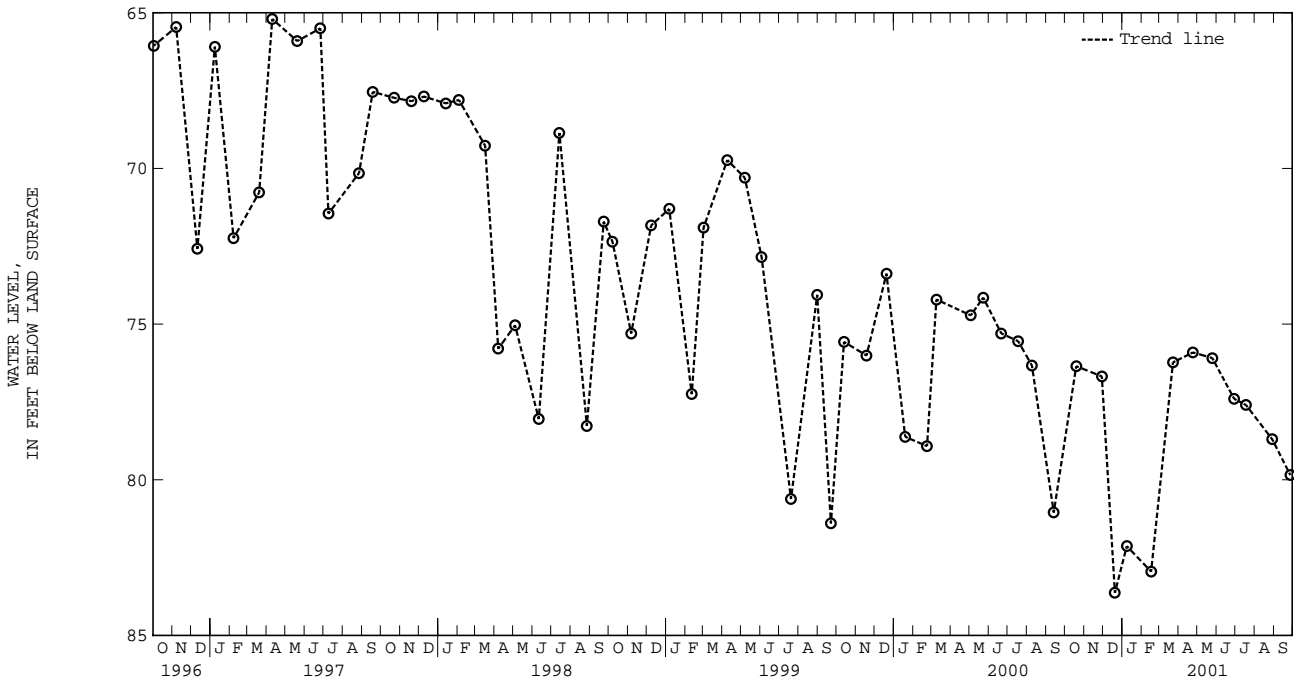
GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Fe 31. SITE ID.--380834076303402. PERMIT NUMBER.--SM-73-3088.  
 LOCATION.--Lat 38°08'34", long 76°30'34", Hydrologic Unit 02070011, St. Mary's Co. Metropolitan Commission Facility, Piney Point.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 639 ft; casing diameter 4 in., to 171 ft; casing diameter 2 in. from 171 to 451 ft; screen diameter 3 in. from 451 to 461 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 8 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.60 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 1978 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.77 ft below land surface, Dec. 5, 1978; lowest measured, 83.63 ft below land surface, Dec. 20, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	76.35	JAN 08, 2001	82.13	APR 24, 2001	75.91	JUL 18, 2001	77.60
NOV 29	76.68	FEB 16	82.95	MAY 25	76.09	AUG 29	78.70
DEC 20	83.63	MAR 23	76.23	JUN 29	77.40	SEP 27	79.85
WATER YEAR 2001		HIGHEST	75.91	APR 24, 2001	LOWEST	83.63	DEC 20, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Ff 36. SITE ID.--380724076251901. PERMIT NUMBER.--SM-73-1478.

LOCATION.--Lat 38°07'23", long 76°25'20", Hydrologic Unit 02070011, nr Kitts Point.

Owner: Jesuit Order.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, depth 618 ft; casing diameter 8 in., to 545 ft, and casing diameter 6 in. from 545 to 594 ft; screen diameter 6 in. from 594 to 618 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from September 1982 to September 1996.

DATUM.--Elevation of land surface is 5.50 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.5 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

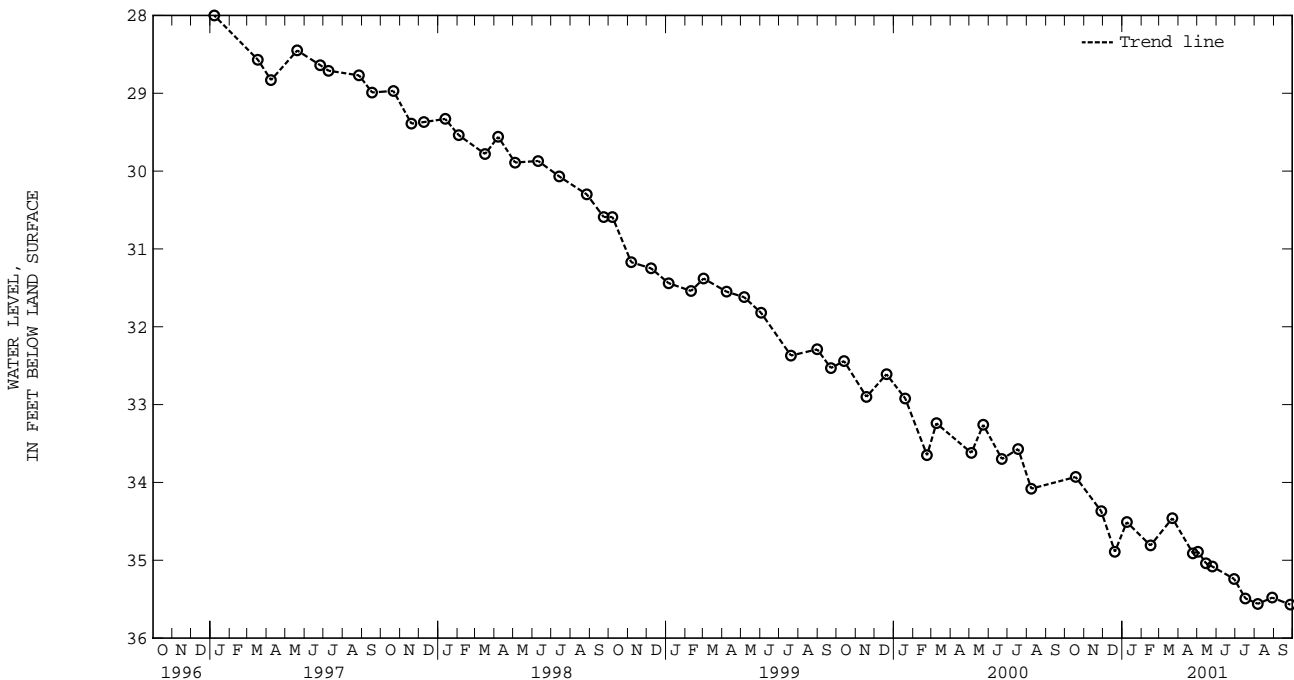
PERIOD OF RECORD.--November 1978, September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land surface, Nov. 14, 1978; lowest measured, 35.57 ft below land surface, Sept. 27, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	33.93	FEB 15, 2001	34.81	MAY 15, 2001	35.04	AUG 06, 2001	35.56
NOV 28	34.37	MAR 22	34.46	25	35.08	29	35.48
DEC 20	34.89	APR 24	34.91	JUN 29	35.24	SEP 27	35.57
JAN 08, 2001	34.51	MAY 02	34.89	JUL 17	35.49		

WATER YEAR 2001 HIGHEST 33.93 OCT 18, 2000 LOWEST 35.57 SEP 27, 2001



ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Ff 64.

LOCATION.--Hydrologic Unit 02070007, at Webster Field.

Owner: U.S. Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 534 ft; casing depth unknown.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, September 21, 1999 to current year.

DATUM.--Elevation of land surface is 10 ft above sea level.

Measuring point: Top of shelter platform, 3.00 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation well.

Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 3, 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.64 ft below sea level, Sept. 3, 1998; lowest measured, 147.15 ft below sea level, Feb. 12, 2001.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-83.89	-116.76	---	---	-81.53	-144.40	-79.45	-79.88	-79.90	-146.79	-80.37	-142.41
2	-82.41	-128.84	-83.80	-142.93	-82.82	-129.60	-79.50	-145.93	-81.45	-139.01	-81.34	-141.95
3	-82.83	-144.23	-82.20	-87.89	-80.83	-82.82	-80.10	-85.76	-81.06	-89.27	-81.34	-88.64
4	-82.64	-145.60	-81.36	-125.48	-80.03	-82.83	-80.07	-142.08	-79.58	-81.06	-79.46	-81.34
5	-83.61	-120.63	-81.57	-145.61	-79.99	-143.11	-79.79	-82.54	-78.94	-143.96	-78.93	-145.93
6	-83.51	-147.14	-83.93	-144.89	-81.42	-141.90	-79.77	-146.86	-80.55	-88.17	-81.89	-102.44
7	-82.48	-146.18	-83.49	-120.05	-81.19	-86.42	-79.81	-82.39	-80.26	-119.45	-81.10	-139.00
8	-82.09	-88.16	-82.34	-107.33	-80.39	-143.81	-79.08	-146.71	-82.64	-142.32	-81.61	-141.66
9	-81.29	-144.58	-82.14	-143.79	-81.67	-88.83	-81.06	-91.65	-82.61	-143.90	-81.23	-143.47
10	-82.22	-146.65	-81.90	-134.94	-80.15	-81.67	-80.50	-129.95	-82.06	-91.00	-81.71	-91.71
11	-83.11	-104.19	-81.57	-85.22	-80.04	-135.97	-81.53	-141.44	-80.63	-82.06	-80.16	-81.71
12	-83.03	-144.63	-80.34	-81.57	-81.33	-135.54	-81.16	-87.52	-80.17	-147.15	-79.85	-146.65
13	-82.99	-143.54	---	---	-82.91	-119.14	-80.32	-146.59	-81.73	-95.51	-81.07	-91.19
14	-82.86	-94.93	-83.08	-106.54	-81.79	-142.91	-80.79	-87.18	---	---	-80.12	-142.52
15	-81.06	-82.86	-81.43	-85.38	-81.66	-142.62	-79.44	-80.79	-81.66	-141.51	-81.07	-88.42
16	-80.91	-146.53	-80.80	-142.70	-82.81	-141.40	-79.02	-124.18	-81.20	-87.47	-80.21	-119.40
17	-82.07	-146.24	-83.76	-144.47	-80.40	-82.81	-80.36	-143.93	-80.15	-145.78	-79.85	-83.11
18	-82.64	-139.13	-82.51	-89.61	-80.22	-143.70	-80.72	-87.69	-82.23	-130.59	-79.58	-142.13
19	-83.88	-143.52	-80.93	-82.51	-82.49	-135.99	-80.39	-146.80	-80.06	-82.23	-80.39	-84.38
20	-82.55	-91.17	-80.43	-108.80	-81.20	-84.66	-79.98	-83.54	-79.83	-145.80	-79.76	-142.00
21	-81.55	-143.95	-81.73	-144.05	-80.56	-146.81	-79.86	-142.86	-81.99	-104.95	-80.00	-86.68
22	-81.99	-87.77	-81.60	-134.79	-81.73	-90.11	-80.53	-84.86	-81.02	-128.49	-79.38	-145.39
23	-81.05	-142.83	-83.54	-142.33	-80.94	-145.16	-80.17	-146.74	-81.35	-145.24	-81.26	-97.59
24	-83.22	-146.69	-81.13	-83.54	-81.44	-87.64	-82.32	-128.75	-81.44	-87.66	-79.50	-81.61
25	-82.67	-93.23	-79.86	-81.13	-80.55	-81.44	-80.48	-146.83	-80.54	-142.77	-79.36	-145.70
26	-82.34	-144.69	-79.39	-146.24	-80.02	-86.47	-81.60	-109.42	-81.25	-87.17	-80.27	-84.21
27	-82.30	-143.20	-80.98	-86.18	-80.02	-146.25	-79.92	-81.60	-80.45	-141.44	-79.83	-143.33
28	-82.40	-89.52	-80.49	-146.33	-81.43	-108.44	-79.64	-145.21	-81.17	-87.55	-81.96	-126.99
29	-80.94	-82.40	-81.97	-94.89	-80.66	-145.40	-80.65	-87.09	---	---	-82.03	-139.62
30	-80.18	-80.94	-81.47	-146.43	-80.72	-85.67	-79.71	-146.06	---	---	-80.94	-89.03
31	---	---	---	---	-79.76	-80.72	-80.57	-85.62	---	---	-80.10	-138.43
MONTH	-80.18	-147.14	-79.39	-146.43	-79.76	-146.81	-79.02	-146.86	-78.94	-147.15	-78.93	-146.65



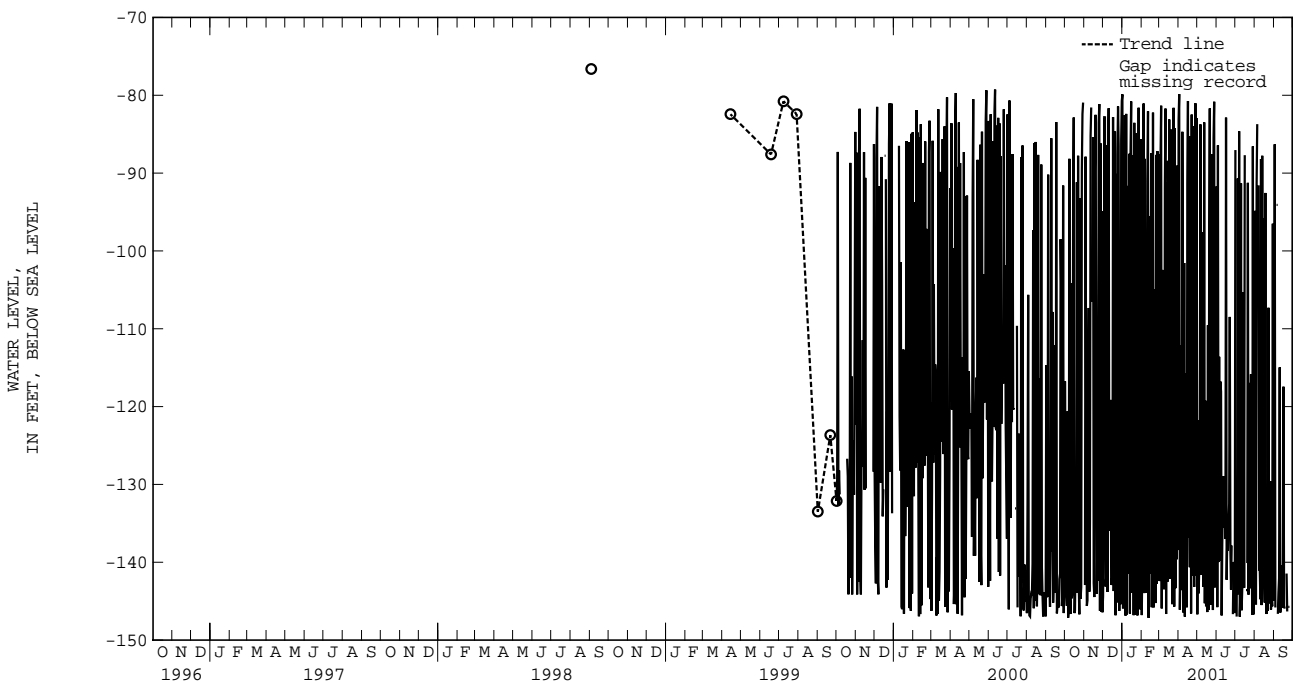
ST. MARYS COUNTY--Continued

SM Ff 64--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-79.85	-83.17	-79.99	-146.69	-81.12	-91.72	-82.23	-87.04	-83.63	-94.83	-85.62	-144.89
2	-78.91	-79.85	-81.39	-121.79	-80.23	-145.77	---	---	---	---	-83.48	-86.30
3	-78.93	-146.10	-80.97	-144.00	-80.93	-86.43	-83.25	-146.98	-84.00	-145.47	-83.18	-145.81
4	-81.07	-140.53	-81.94	-141.22	-80.76	-139.97	-84.61	-127.66	-83.71	-91.42	---	---
5	-81.77	-112.12	-82.77	-126.97	-83.14	-113.60	-82.40	-90.69	-82.33	-83.71	-84.67	-94.09
6	-80.47	-143.58	-80.36	-83.74	-82.28	-139.80	-82.40	-144.11	---	---	---	---
7	-80.26	-84.69	-80.12	-141.60	-82.53	-116.78	-81.94	-84.62	-83.80	-91.57	-84.88	-146.63
8	-79.12	-110.39	-82.26	-139.89	-81.85	-118.08	-81.89	-146.99	-83.52	-140.84	-85.64	-143.89
9	-81.17	-146.48	-81.29	-139.83	-82.17	-146.83	-82.39	-143.73	-84.36	-140.78	-84.76	-142.07
10	-79.91	-101.55	-82.02	-97.59	-82.59	-137.60	-82.69	-91.32	-84.67	-144.75	-86.14	-114.96
11	-80.90	-146.99	-80.99	-143.17	-85.16	-130.99	-82.56	-146.17	-83.61	-88.19	-87.13	-146.46
12	-80.32	-115.79	-80.49	-83.48	-83.82	-128.98	-83.69	-143.38	-82.90	-145.50	-86.70	-143.99
13	-80.85	-135.11	-80.11	-145.27	-82.50	-135.58	-84.14	-143.05	-83.07	-87.77	-86.07	-145.24
14	-80.26	-145.79	-80.60	-119.25	-82.77	-134.42	-84.02	-105.29	-82.60	-142.63	-86.32	-140.41
15	-80.74	-91.36	-82.54	-145.66	-82.87	-136.98	-82.81	-143.28	-83.72	-95.80	-86.45	-145.88
16	-79.16	-80.74	-81.16	-144.87	-80.48	-82.87	-82.60	-87.70	-83.56	-140.53	-85.97	-117.44
17	-78.94	-136.79	-81.55	-146.40	-80.49	-142.25	---	---	-84.14	-145.18	-85.45	-145.57
18	-80.58	-130.49	-82.13	-109.54	-82.14	-136.55	-86.19	-143.58	-83.84	-92.55	-87.08	-145.96
19	-81.28	-140.64	-80.69	-146.13	-82.69	-138.50	---	---	-83.73	-143.49	---	---
20	-80.36	-85.27	-81.69	-99.80	-83.27	-134.86	-85.07	-140.10	-84.06	-146.65	---	---
21	-80.28	-146.58	-79.78	-81.69	-83.38	-132.49	-83.37	-91.25	-85.52	-141.81	-89.38	-141.45
22	-80.07	-82.48	-79.78	-145.43	-84.24	-108.48	-82.11	-144.16	-84.34	-146.21	-88.04	-146.32
23	-79.84	-141.70	-81.34	-144.65	-82.58	-138.59	-83.94	-116.96	-85.03	-107.30	---	---
24	-80.11	-84.00	-82.84	-143.59	-82.61	-143.51	-82.68	-136.26	-86.08	-144.07	-87.95	-145.73
25	-79.81	-130.28	-81.41	-87.57	-84.21	-137.84	-83.81	-143.34	-85.65	-145.28	---	---
26	-80.42	-143.17	-80.58	-146.14	---	---	-84.59	-115.85	-84.33	-129.58	---	---
27	-81.03	-88.82	-80.83	-85.46	-85.10	-146.67	-83.62	-137.97	-85.87	-146.08	---	---
28	-79.72	-81.03	-79.75	-80.83	-83.94	-139.96	-83.97	-146.75	-85.03	-144.48	---	---
29	-79.57	-141.68	-79.39	-143.23	-83.50	-143.49	-82.56	-86.56	-85.45	-145.66	---	---
30	-80.08	-82.96	-82.36	-137.45	-83.70	-146.53	-82.32	-146.70	-85.38	-96.50	---	---
31	---	---	-82.71	-132.40	---	---	-83.28	-144.43	-85.03	-143.12	---	---
MONTH	-78.91	-146.99	-79.39	-146.69	-80.23	-146.83	-81.89	-146.99	-82.33	-146.65	-83.18	-146.63
YEAR	-78.91	-147.15										

Daily Low Water Levels



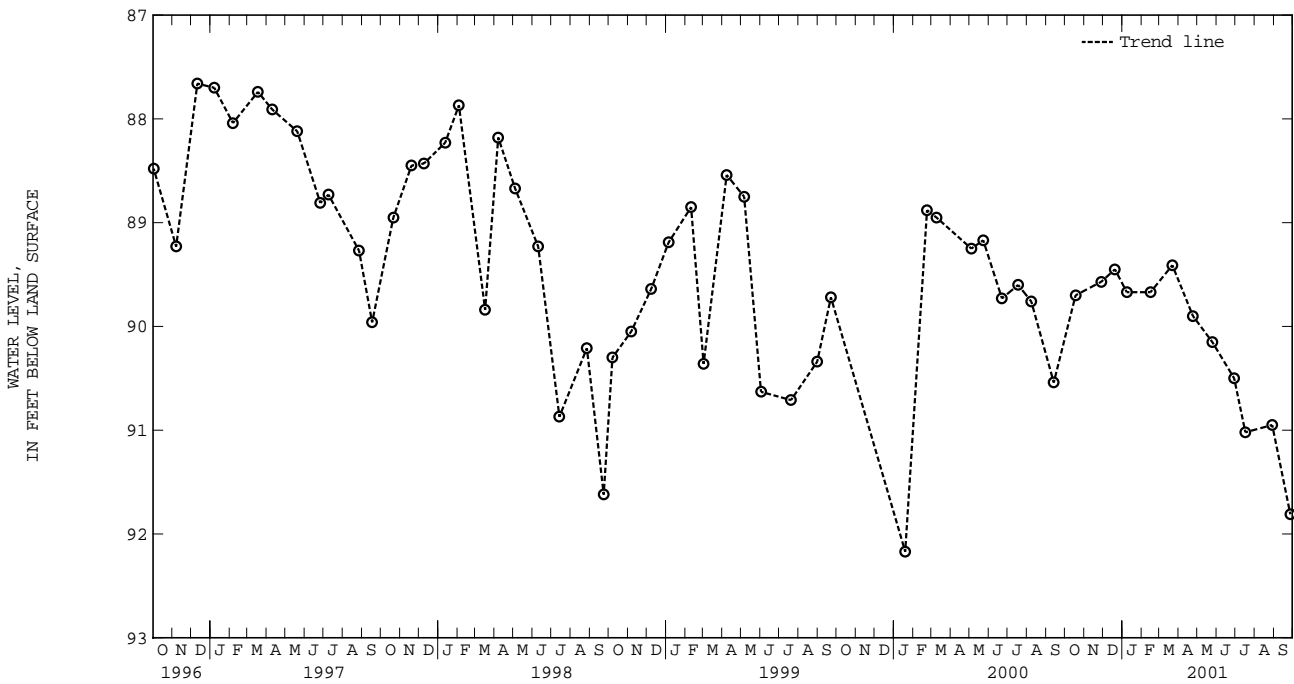
GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Fg 45. SITE ID.--38071107622201. PERMIT NUMBER.--SM-04-5190.  
 LOCATION.--Lat 38°07'11", long 76°22'22", Hydrologic Unit 02070011, in Ridge Volunteer Fire Department pumphouse, at Ridge.  
 Owner: Ridge Volunteer Fire Department.  
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 436 ft; casing diameter 6 in., to 386 ft; casing diameter 4 in. from 415 to 436 ft; screen diameter 5 in. from 386 to 415 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.  
 Measuring point: Hole in sanitary seal, 0.55 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--May 1966 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.83 ft below land surface, May 16, 1967; lowest measured, 92.17 ft below land surface, Jan. 19, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 2000	89.70	JAN 08, 2001	89.67	APR 24, 2001	89.90	JUL 17, 2001	91.02
NOV 28	89.57	FEB 15	89.67	MAY 25	90.15	AUG 29	90.95
DEC 20	89.45	MAR 22	89.41	JUN 29	90.50	SEP 27	91.81
WATER YEAR 2001 HIGHEST 89.41		MAR 22, 2001		LOWEST 91.81		SEP 27, 2001	



SOMERSET COUNTY

WELL NUMBER.--SO Be 42. SITE ID.--381156075412501.

LOCATION.--Lat 38°11'56", long 75°41'25", Hydrologic Unit 02060009, .1 mi northeast of US Rt. 13 and Hampton Ave., Princess Anne.

Owner: E. Mace Smith.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, measured depth 184 ft; casing diameter 2 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 17 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.28 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--August 1952 to current year.

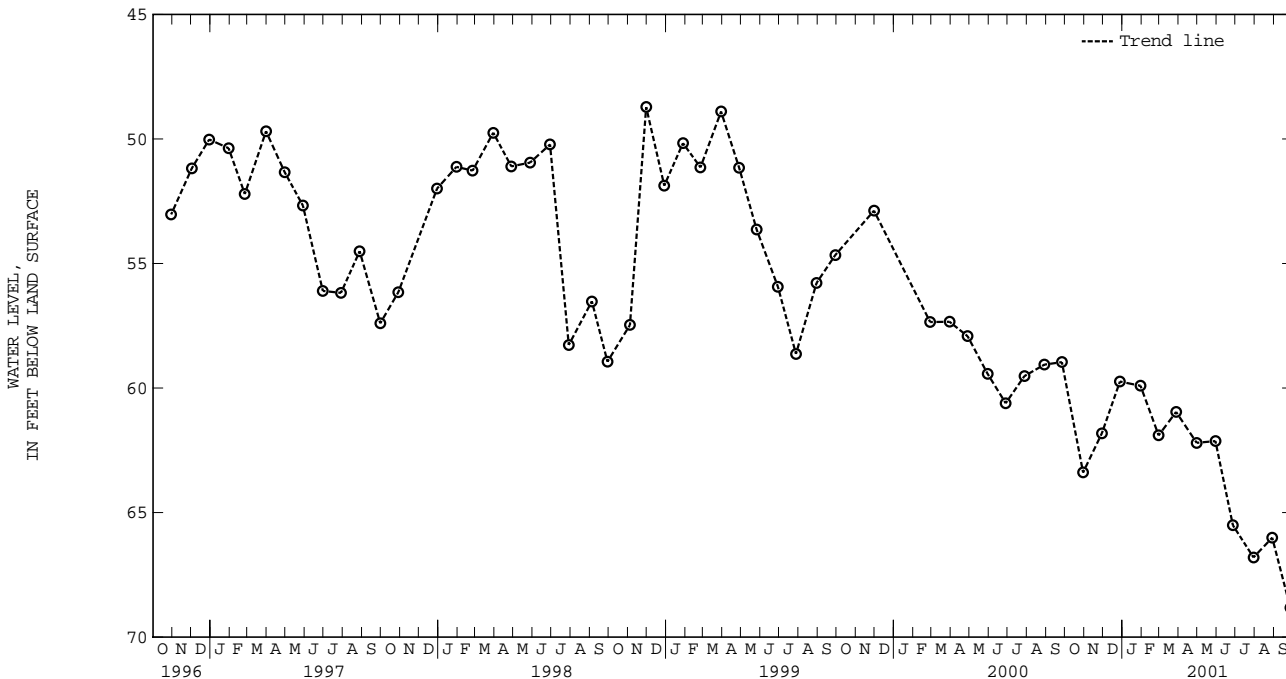
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.15 ft below land surface, May 1, 1953;

lowest measured, 68.82 ft below land surface, Sept. 27, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	63.39	JAN 30, 2001	59.91	APR 30, 2001	62.20	JUL 30, 2001	66.80
NOV 29	61.82	FEB 28	61.90	MAY 30	62.13	AUG 29	66.01
DEC 28	59.74	MAR 28	60.96	JUN 27	65.51	SEP 27	68.82

WATER YEAR 2001 HIGHEST 59.74 DEC 28, 2000 LOWEST 68.82 SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## SOMERSET COUNTY--Continued

WELL NUMBER.--SO Ce 42. SITE ID.--380927075423701. PERMIT NUMBER.--SO-81-0394.

LOCATION.--Lat 38°09'30", long 75°41'56", Hydrologic Unit 02060009, at Eastern Shore Correctional Institution.

Owner: Maryland Department of Correction.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well,

depth 215 ft; casing diameter 4 in., to 185 ft;

screen diameter 4 in. from 185 to 215 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, from Jan. 2, 1986 to current year.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 2.10 ft above land surface.

REMARKS.--Water levels affected by local pumping. Water levels are affected by local and regional ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.97 ft below land surface, Feb. 21, 1986;

lowest measured, 51.90 ft below land surface, Aug. 7, 1991.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	39.08	38.94	39.72	39.53	39.28	39.20	38.82	38.78	38.26	38.17	38.61	38.51
2	39.05	38.90	39.66	39.50	39.28	39.22	38.81	38.75	38.26	38.17	38.59	38.50
3	39.02	38.89	39.71	39.55	39.29	39.25	38.79	38.67	38.31	38.17	38.62	38.51
4	39.04	38.91	39.92	39.71	39.28	39.18	38.68	38.61	38.32	38.24	38.63	38.52
5	39.05	38.93	39.96	39.88	39.22	39.13	38.66	38.51	38.25	38.06	38.54	38.33
6	39.03	38.93	39.95	39.75	39.27	39.17	38.60	38.52	38.22	38.09	38.58	38.41
7	39.12	39.01	39.86	39.71	39.23	39.10	38.59	38.50	38.34	38.16	38.63	38.54
8	39.13	39.06	39.79	39.62	39.24	39.12	38.55	38.41	38.35	38.26	38.61	38.42
9	39.13	39.03	39.71	39.51	39.29	39.19	38.56	38.45	38.33	38.19	38.65	38.42
10	39.12	38.98	39.62	39.39	39.26	39.12	38.61	38.49	38.40	38.14	38.73	38.54
11	39.18	39.02	39.80	39.46	39.24	39.09	38.60	38.48	38.48	38.39	38.77	38.60
12	39.21	39.14	39.85	39.70	39.27	39.02	38.59	38.50	38.48	38.41	38.79	38.69
13	39.20	39.07	39.84	39.64	39.33	39.25	38.59	38.45	38.43	38.36	38.70	38.50
14	39.19	39.07	39.80	39.53	39.28	39.06	38.55	38.42	38.41	38.29	38.70	38.53
15	39.19	39.06	39.71	39.57	39.22	39.15	38.50	38.41	38.40	38.26	38.71	38.58
16	39.17	39.00	39.71	39.52	39.22	38.96	38.46	38.38	38.42	38.34	38.65	38.58
17	39.12	38.88	39.60	39.52	39.03	38.76	38.48	38.40	38.46	38.29	38.66	38.55
18	39.04	38.88	39.63	39.51	39.11	38.78	38.49	38.36	38.53	38.46	38.72	38.62
19	39.11	39.00	39.57	39.47	39.08	38.94	38.37	38.21	38.52	38.42	38.74	38.66
20	39.40	39.11	39.51	39.37	39.08	38.94	38.28	38.14	38.51	38.43	38.68	38.62
21	39.62	39.40	39.46	39.38	39.09	38.99	38.33	38.12	38.60	38.45	38.62	38.17
22	39.72	39.59	39.47	39.40	39.05	38.94	38.33	38.23	38.62	38.50	38.39	38.15
23	39.68	39.54	39.51	39.43	39.10	39.04	38.28	38.15	38.59	38.45	38.49	38.34
24	39.61	39.48	39.48	39.39	39.06	38.94	38.20	38.04	38.67	38.53	38.50	38.32
25	39.57	39.43	39.42	39.31	39.05	38.97	38.26	38.07	38.66	38.44	38.54	38.45
26	39.57	39.42	39.31	39.03	39.05	38.93	38.27	38.15	38.66	38.48	38.51	38.39
27	39.67	39.43	39.27	39.14	38.95	38.83	38.23	38.03	38.66	38.56	38.52	38.44
28	39.89	39.59	39.28	39.19	38.87	38.81	38.27	38.20	38.63	38.55	38.52	38.43
29	39.90	39.71	39.29	39.21	38.86	38.74	38.27	38.17	---	---	38.52	38.38
30	39.85	39.67	39.28	39.14	38.78	38.59	38.21	37.98	---	---	38.38	38.16
31	39.78	39.61	---	---	38.78	38.69	38.20	38.01	---	---	38.37	38.25
MONTH	39.90	38.88	39.96	39.03	39.33	38.59	38.82	37.98	38.67	38.06	38.79	38.15

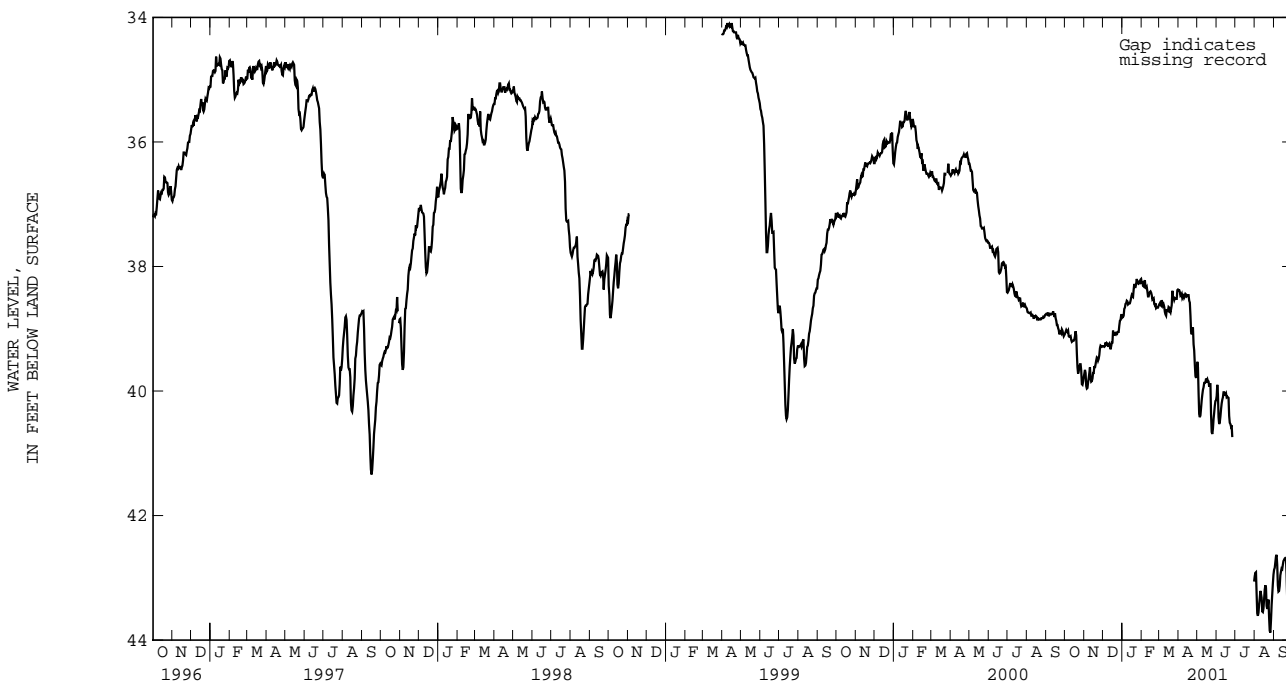
SOMERSET COUNTY--Continued

SO Ce 42--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	38.38	38.25	39.53	39.41	40.08	39.79	---	---	42.97	42.87	42.87	42.69
2	38.38	38.19	39.62	39.42	39.90	39.74	---	---	42.92	42.78	42.84	42.70
3	38.41	38.30	40.03	39.59	40.05	39.72	---	---	42.91	42.70	42.75	42.55
4	38.47	38.34	40.37	39.99	40.42	40.00	---	---	43.26	42.84	42.66	42.48
5	38.46	38.36	40.42	40.27	40.53	40.32	---	---	43.57	43.21	42.63	42.48
6	38.44	38.27	40.39	40.27	40.50	40.38	---	---	43.61	43.47	42.79	42.52
7	38.51	38.33	40.27	40.07	40.41	40.25	---	---	43.56	43.39	43.12	42.79
8	38.49	38.32	40.15	39.99	40.29	40.14	---	---	43.43	43.27	43.22	43.09
9	38.44	38.29	40.06	39.92	40.20	40.05	---	---	43.33	43.15	43.21	43.05
10	38.50	38.29	39.98	39.83	40.14	39.99	---	---	43.21	43.05	43.13	42.83
11	38.48	38.34	39.94	39.80	40.10	39.94	---	---	43.26	43.15	42.96	42.86
12	38.44	38.31	39.87	39.73	40.02	39.91	---	---	43.32	43.20	42.90	42.71
13	38.45	38.30	39.87	39.82	40.02	39.90	---	---	43.54	43.25	42.85	42.67
14	38.48	38.40	39.86	39.75	40.06	39.95	---	---	43.55	43.43	42.86	42.65
15	38.47	38.40	39.80	39.71	40.06	39.95	---	---	43.49	43.24	42.79	42.63
16	38.46	38.36	39.83	39.72	40.04	39.95	---	---	43.34	43.14	42.73	42.54
17	38.46	38.36	39.81	39.67	40.10	39.97	---	---	43.19	43.06	42.71	42.52
18	38.55	38.38	39.85	39.69	40.09	39.98	---	---	43.12	42.95	42.69	42.50
19	38.58	38.49	39.85	39.76	40.10	39.97	---	---	43.16	42.86	42.68	42.51
20	38.79	38.49	39.93	39.76	40.11	39.99	---	---	43.45	43.07	42.68	42.46
21	39.05	38.78	39.89	39.76	40.40	39.99	---	---	43.50	43.34	42.94	42.53
22	39.09	38.98	39.89	39.68	40.51	40.32	---	---	43.45	43.24	43.35	42.94
23	39.05	38.97	40.38	39.76	40.53	40.33	---	---	43.35	43.20	43.51	43.35
24	38.98	38.87	40.66	40.32	40.57	40.40	---	---	43.64	43.30	43.49	43.13
25	39.25	38.94	40.69	40.52	40.55	40.41	---	---	43.85	43.64	43.27	43.13
26	39.35	39.19	40.61	40.33	40.74	40.44	---	---	43.88	43.60	43.25	43.05
27	39.57	39.26	40.45	40.26	---	---	---	---	43.69	43.38	43.14	43.01
28	39.76	39.51	40.35	40.16	---	---	---	---	43.44	43.21	43.08	42.96
29	39.79	39.66	40.24	40.09	---	---	---	---	43.27	43.07	42.99	42.91
30	39.68	39.52	40.16	40.05	---	---	---	---	43.10	42.90	42.92	42.75
31	---	---	40.15	40.00	---	---	43.06	42.90	42.95	42.80	---	---
MONTH	39.79	38.19	40.69	39.41	40.74	39.72	43.06	42.90	43.88	42.70	43.51	42.46
YEAR	43.88	37.98										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

SOMERSET COUNTY--Continued

WELL NUMBER.--SO Cf 2. SITE ID.--380616075380701.

LOCATION.--Lat 38°06'16", long 75°38'07", Hydrologic Unit 02060009, on U.S. Rt. 13, 4.5 mi west of intersection of U.S. Rt. 13, and MD Rt. 364, near Costen.

Owner: Maryland State Highway Administration.

AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 15 ft; casing diameter 1.25 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1949 to current year.

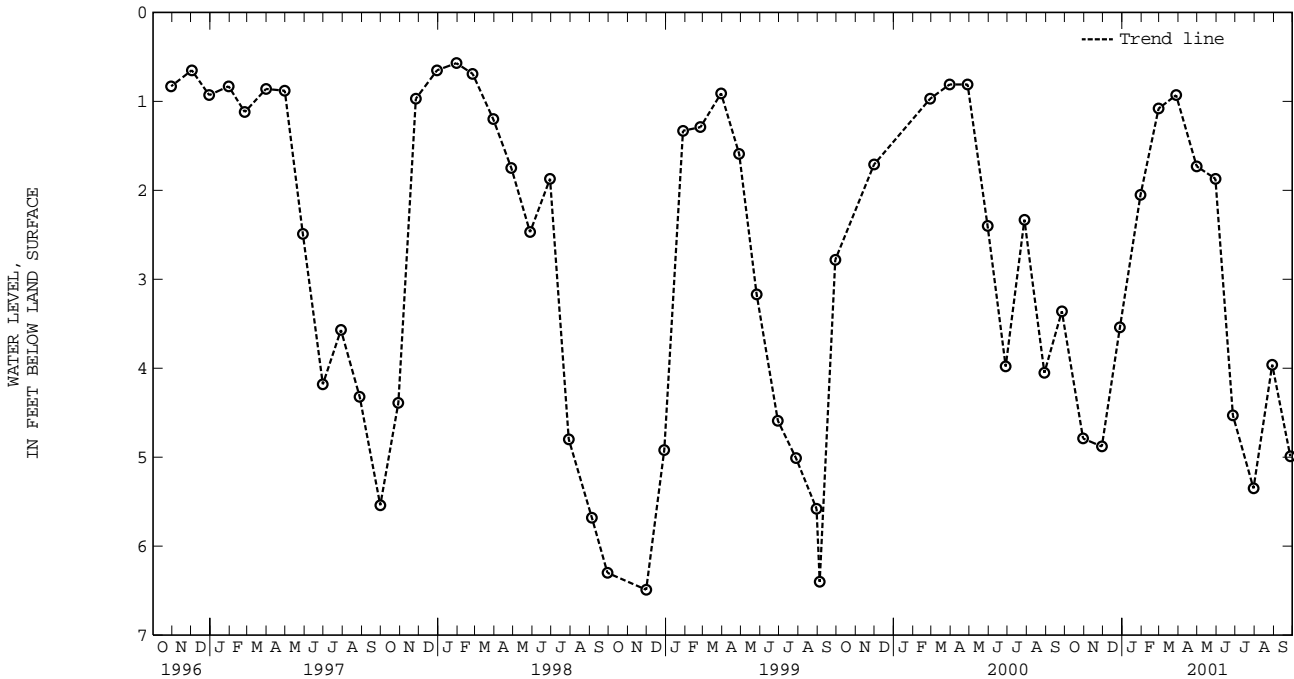
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.28 ft below land surface, May 9, 1958;

lowest measured, 6.49 ft below land surface, Nov. 30, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	4.79	JAN 30, 2001	2.05	APR 30, 2001	1.73	JUL 30, 2001	5.35
NOV 29	4.88	FEB 28	1.08	MAY 30	1.87	AUG 29	3.96
DEC 28	3.54	MAR 28	.93	JUN 27	4.53	SEP 27	4.99

WATER YEAR 2001      HIGHEST      .93 MAR 28, 2001      LOWEST      5.35 JUL 30, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

TALBOT COUNTY

WELL NUMBER.--TA Bf 73. SITE ID.--385242075593101. PERMIT NUMBER.--TA-02-1641.

LOCATION.--Lat 38°52'42", long 75°59'31", Hydrologic Unit 02060005, in Cordova.

Owner: Allen Foods.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 288 ft; casing diameter 4 in., to 276 ft; casing diameter 2 in. from 276 to 283 ft; screen diameter 3 in. from 283 to 288 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 42 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.50 ft above land surface.

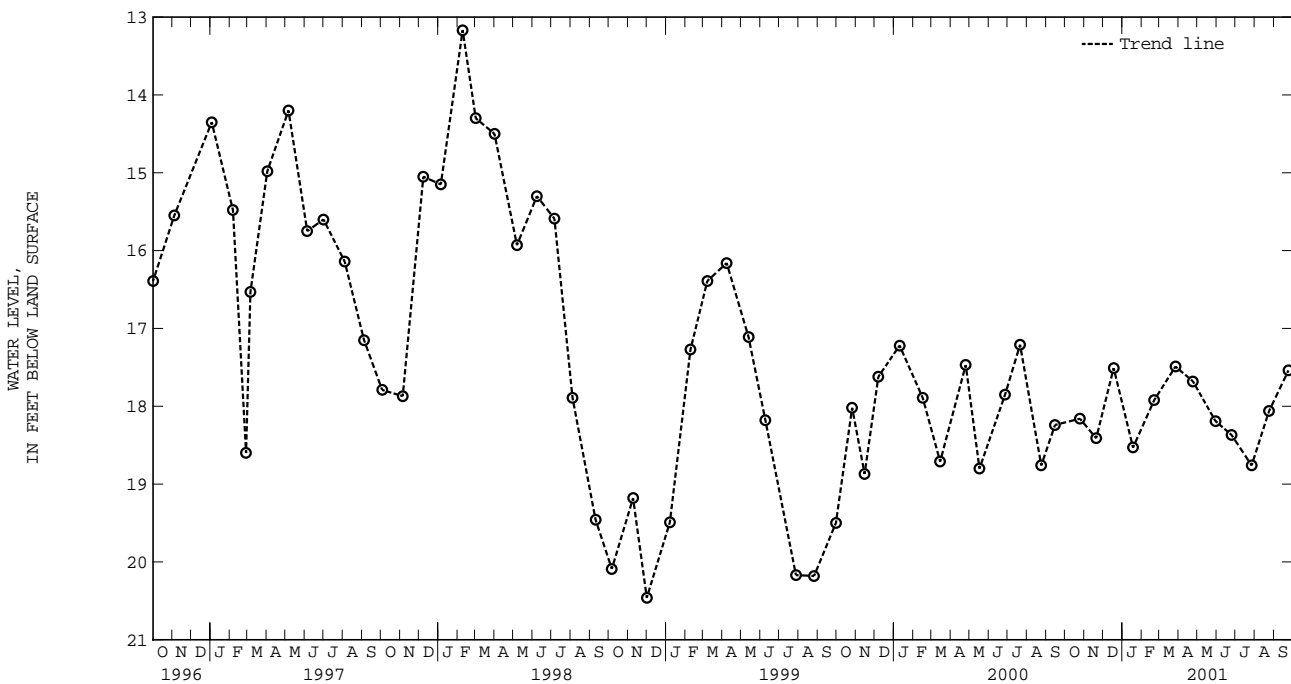
REMARKS.--Maryland Water-Level Network observation well. Water level reported by driller, 26 ft below land surface Dec. 16, 1955; water level measured 26.64 ft below land surface March 10, 1956. Water levels are affected by local ground-water withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.29 ft below land surface, May 4, 1961; lowest measured, 76.57 ft below land surface, Dec. 6, 1974.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	18.16	JAN 18, 2001	18.53	APR 24, 2001	17.68	JUL 27, 2001	18.76
NOV 20	18.41	FEB 21	17.92	MAY 30	18.19	AUG 24	18.06
DEC 18	17.51	MAR 27	17.49	JUN 25	18.37	SEP 24	17.54

WATER YEAR 2001 HIGHEST 17.49 MAR 27, 2001 LOWEST 18.76 JUL 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

TALBOT COUNTY--Continued

WELL NUMBER.--TA Bf 74. SITE ID.--385242075593102. PERMIT NUMBER.--TA-02-1805.

LOCATION.--Lat 38°52'42", long 75°59'31", Hydrologic Unit 02060005, in Cordova.

Owner: Allen Foods.

AQUIFER.--Pensauken Formation of Upper Miocene age. Aquifer code: 122PNSK.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 48.4 ft; casing diameter 4 in., to 42.5 ft; screen diameter 3 in. from 43.2 to 48.4 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 42 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.96 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--April 1956 to current year.

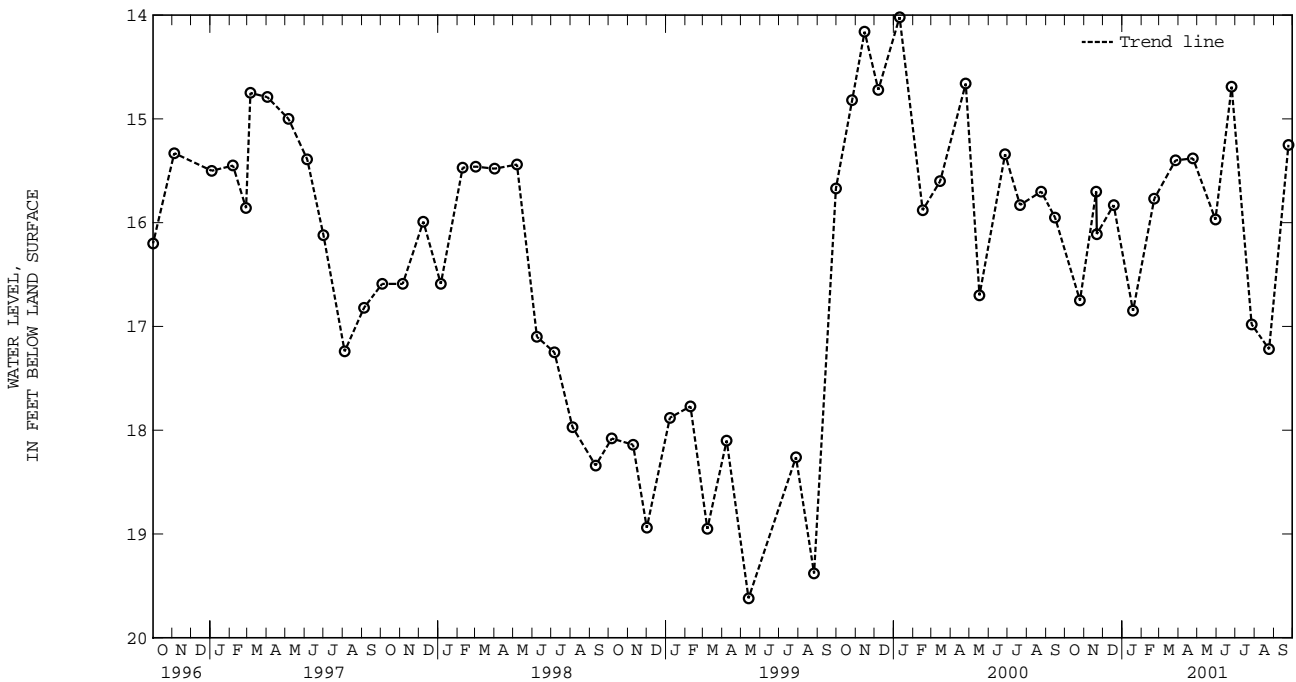
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.48 ft below land surface, Dec. 14, 1971;

lowest measured, 21.36 ft below land surface, November 2, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	16.75	JAN 18, 2001	16.85	MAY 30, 2001	15.97	SEP 24, 2001	15.25
NOV 20	15.70	FEB 21	15.77	JUN 25	14.69		
21	16.11	MAR 27	15.40	JUL 27	16.98		
DEC 18	15.83	APR 24	15.38	AUG 24	17.22		

WATER YEAR 2001 HIGHEST 14.69 JUN 25, 2001 LOWEST 17.22 AUG 24, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



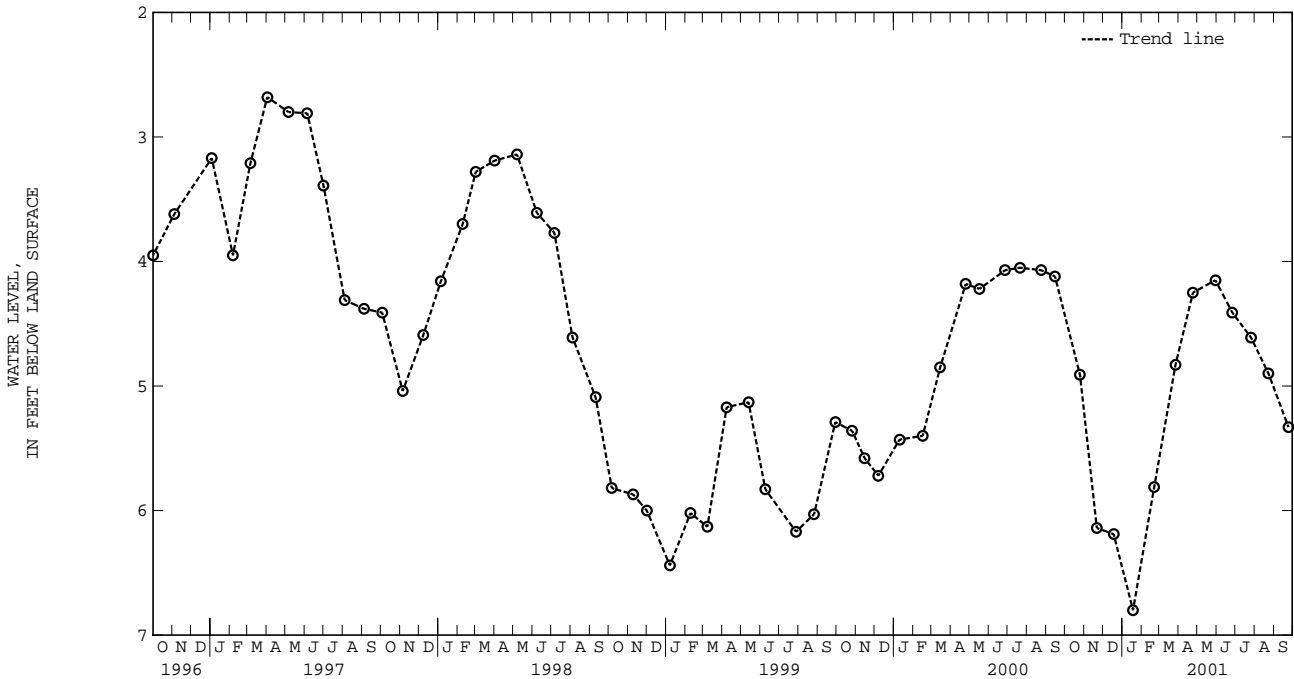
TALBOT COUNTY--Continued

WELL NUMBER.--TA Cc 35. SITE ID.--384923076100601. PERMIT NUMBER.--TA-73-0767.  
 LOCATION.--Lat 38°49'23", long 76°10'06", Hydrologic Unit 02060002, in Tunis Mills.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 6 to 2 in.;  
 screened from 170 to 180 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 1.28 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--August 1976 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.97 ft below land surface, April 2, 1980;  
 lowest measured, 6.80 ft below land surface, Jan. 18, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	4.91	JAN 18, 2001	6.80	APR 24, 2001	4.25	JUL 26, 2001	4.61
NOV 21	6.14	FEB 21	5.81	MAY 30	4.15	AUG 23	4.90
DEC 18	6.19	MAR 27	4.83	JUN 26	4.41	SEP 24	5.33

WATER YEAR 2001    HIGHEST    4.15    MAY 30, 2001    LOWEST    6.80    JAN 18, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

TALBOT COUNTY--Continued

WELL NUMBER.--TA Cc 36. SITE ID.--384514076103701. PERMIT NUMBER.--TA-73-0751.

LOCATION.--Lat 38°45'14", long 76°10'37", Hydrologic Unit 02060002, in Newcomb.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 241 ft; casing diameter 6 in., to 57 ft; casing diameter 2 in. from 51 to 231 ft; screen diameter 2 in. from 231 to 241 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.

DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.40 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--October 1976 to current year.

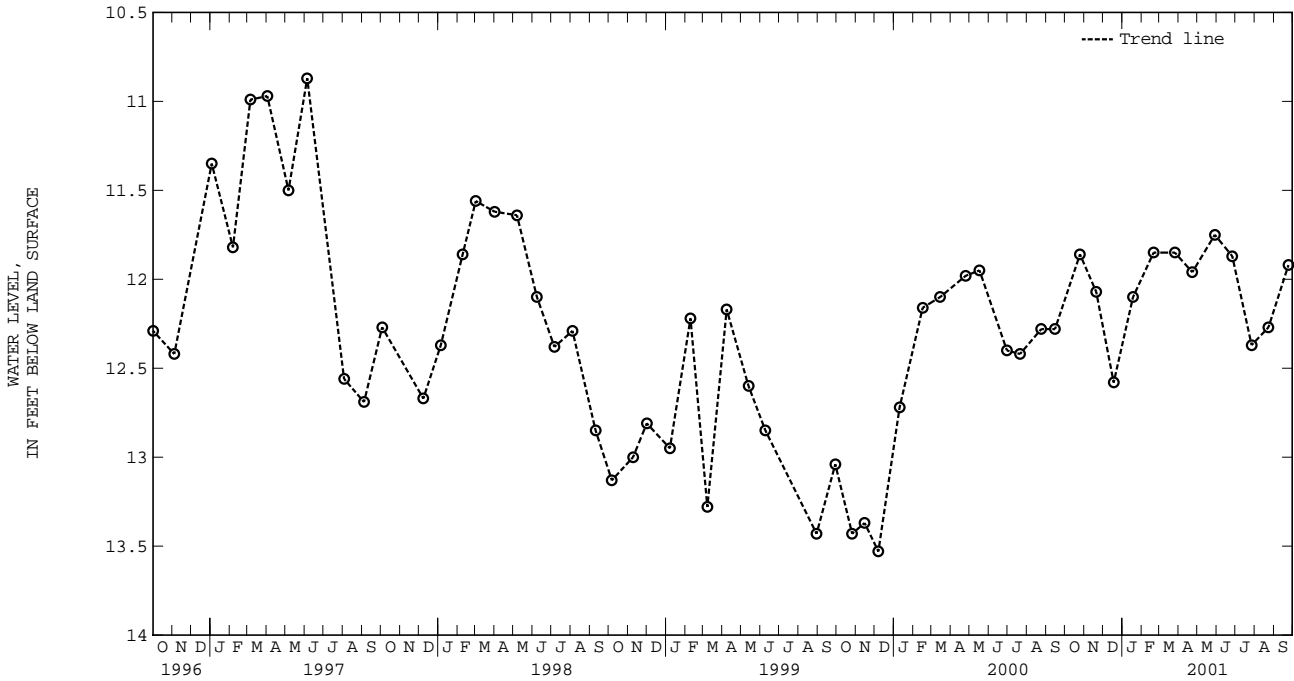
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.89 ft below land surface, April 2, 1980;

lowest measured, 14.30 ft below land surface, Nov. 3, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	11.86	JAN 18, 2001	12.10	APR 23, 2001	11.96	JUL 27, 2001	12.37
NOV 20	12.07	FEB 20	11.85	MAY 29	11.75	AUG 23	12.27
DEC 18	12.58	MAR 26	11.85	JUN 26	11.87	SEP 24	11.92

WATER YEAR 2001 HIGHEST 11.75 MAY 29, 2001 LOWEST 12.58 DEC 18, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

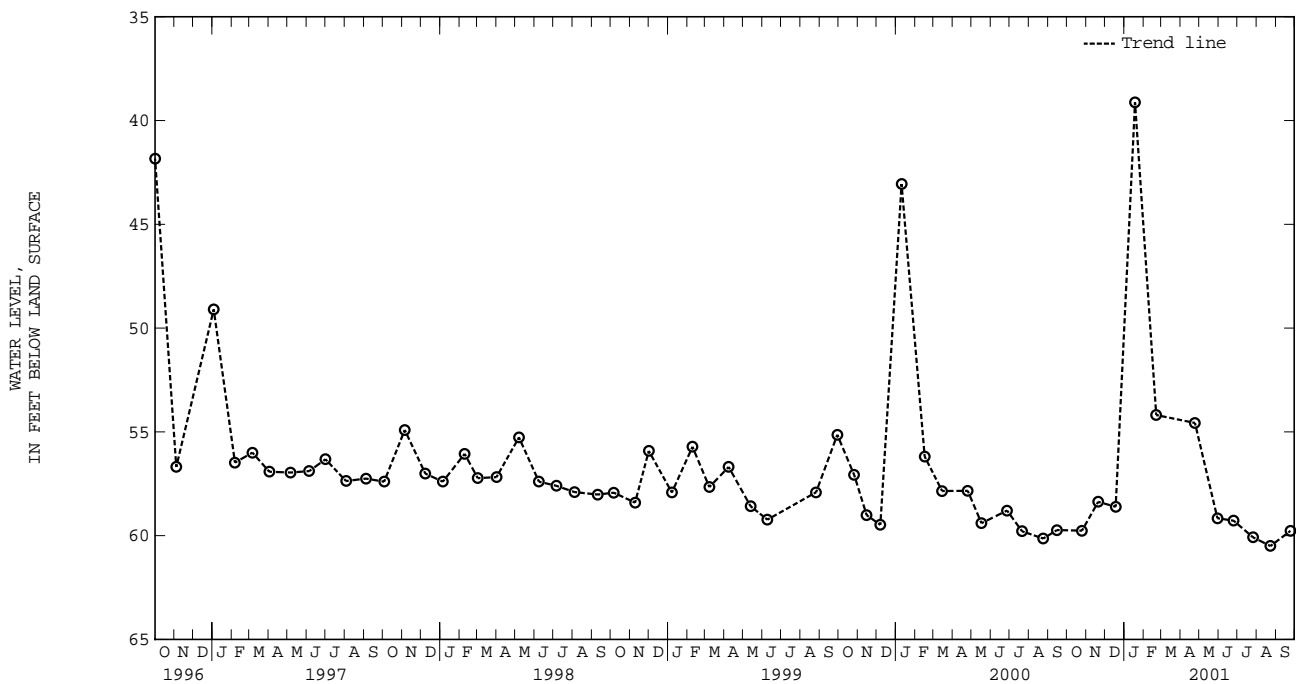
TALBOT COUNTY--Continued

WELL NUMBER.--TA Cd 57. SITE ID.--384709076050301. PERMIT NUMBER.--TA-88-1328.  
 LOCATION.--Lat 38°47'09", long 076°05'03", Hydrologic Unit 02060005, in Easton, 0.3 mi southwest of the intersection with Glebe Rd and Commerce Drive..  
 Owner: Easton Utilities Commission.  
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.  
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 1,198 ft; casing diameter 4 in., to 295 ft; casing diameter 2 in. from 260 to 1,137 ft, and 1,158 to 1,198 ft; screen diameter 2 in. from 1,137 to 1,158 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel.  
 DATUM.--Elevation of land surface is 12 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.78 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.  
 PERIOD OF RECORD.--October 1995 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.42 ft below land surface, March 4, 1996; lowest measured, 60.50 ft below land surface, Aug. 23, 2001.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	59.76	JAN 18, 2001	39.13	MAY 30, 2001	59.16	AUG 23, 2001	60.50
NOV 20	58.37	FEB 21	54.19	JUN 25	59.28	SEP 24	59.77
DEC 18	58.61	APR 24	54.57	JUL 26	60.08		

WATER YEAR 2001 HIGHEST 39.13 JAN 18, 2001 LOWEST 60.50 AUG 23, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

TALBOT COUNTY--Continued

WELL NUMBER.--TA Ce 7. SITE ID.--384643076043801.

LOCATION.--Lat 38°46'43", long 76°04'38", Hydrologic Unit 02060005, off Washington St., in Easton.

Owner: Easton Utilities Commission.

AQUIFER.--Cheswold aquifer of the Calvert Formation of Lower Miocene age. Aquifer code: 122CSLD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, measured depth 104 ft; casing diameter 4 in., to 95 ft; screen diameter 4 in. from 95 to 102 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey or Maryland Geological Survey personnel. DATUM.--Elevation of land surface is 13 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.40 ft above land surface.

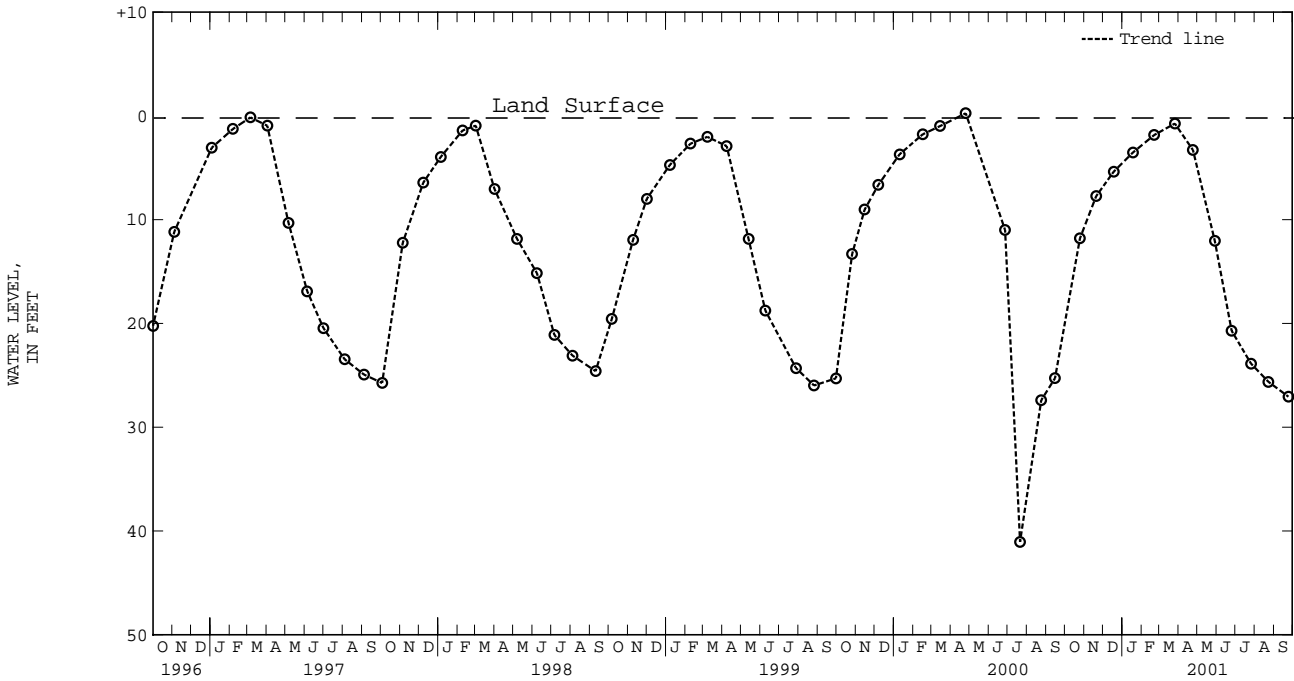
REMARKS.--Maryland Water-Level Network observation well. Water level reported 43.43 ft below land surface, Oct. 7, 1948; water levels are affected by local ground-water withdrawal.

PERIOD OF RECORDS.--April 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +.25 ft above land surface, April 25, 2000; lowest measured 75.36 ft below land surface, Aug. 2, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 2000	11.79	JAN 18, 2001	3.52	APR 24, 2001	3.29	JUL 26, 2001	23.87
NOV 20	7.73	FEB 21	1.84	MAY 29	12.04	AUG 23	25.63
DEC 18	5.38	MAR 26	.74	JUN 25	20.71	SEP 24	27.06
WATER YEAR 2001		HIGHEST	.74	MAR 26, 2001	LOWEST	27.06	SEP 24, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WASHINGTON COUNTY

WELL NUMBER.--WA Ac 1. SITE ID.--394154078103501.

LOCATION.--Lat 39°41'54", long 78°10'35", Hydrologic Unit 02070004, in Hancock.

Owner: Harry R. Barker.

AQUIFER.--Romney Formation of Middle Devonian age. Aquifer code: 344RMNY.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 83 ft; casing diameter 4 in., to unknown depth; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface is 440 ft above sea level, from topographic map.

Measuring point: Removable plug in base of hand pump, 0.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

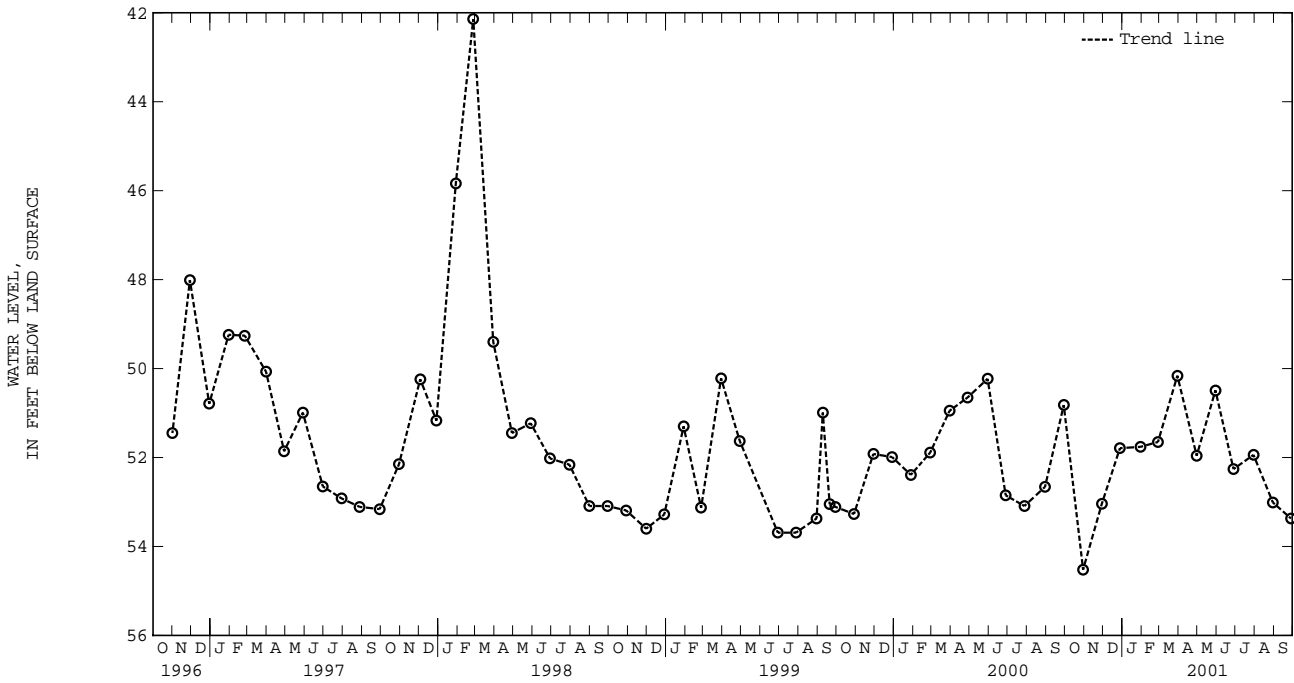
PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.65 ft below land surface, Jan. 2, 1976;

lowest measured, 58.18 ft below land surface, Nov. 23, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	54.52	JAN 30, 2001	51.76	APR 30, 2001	51.96	JUL 30, 2001	51.94
NOV 29	53.04	FEB 27	51.65	MAY 30	50.49	AUG 30	53.01
DEC 28	51.79	MAR 30	50.16	JUN 28	52.26	SEP 28	53.37
WATER YEAR 2001 HIGHEST 50.16 MAR 30, 2001		LOWEST 54.52 OCT 30, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Be 2. SITE ID.--393638078001301.

LOCATION.--Lat 39°36'38", long 78°00'13", Hydrologic Unit 02070004, about 1.2 mi southeast of Big Pool, at Fort Frederick State Park (inside Fort).

Owner: State of Maryland.

AQUIFER.--Romney Formation of Middle Devonian age. Aquifer code: 344RMNY.

WELL CHARACTERISTICS.--Dug, stone-lined, unused, water-table well, depth 41 ft; casing diameter 42 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 470 ft above sea level, from topographic map.

Measuring point: Top of inside edge of wooden access hatch, 0.90 ft above land surface.

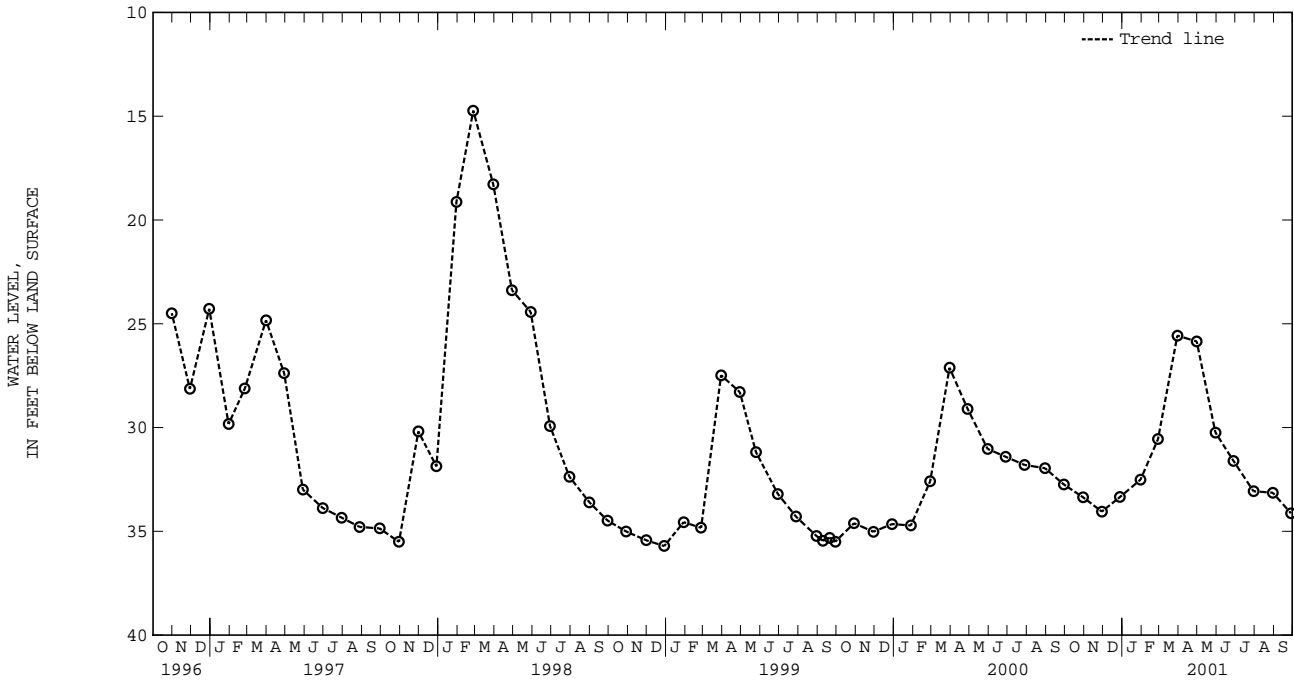
REMARKS.--Maryland Water-Level Network and Collection of Basic Records national network observation well (see figure 3).

PERIOD OF RECORD.--December 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.72 ft below land surface, April 28, 1993; lowest measured, 36.92 ft below land surface, Jan. 11, 1965.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	33.36	JAN 30, 2001	32.51	APR 30, 2001	25.85	JUL 30, 2001	33.07
NOV 29	34.05	FEB 27	30.56	MAY 30	30.24	AUG 30	33.14
DEC 28	33.35	MAR 30	25.57	JUN 28	31.61	SEP 28	34.13
WATER YEAR 2001 HIGHEST 25.57 MAR 30, 2001		LOWEST 34.13		SEP 28, 2001			



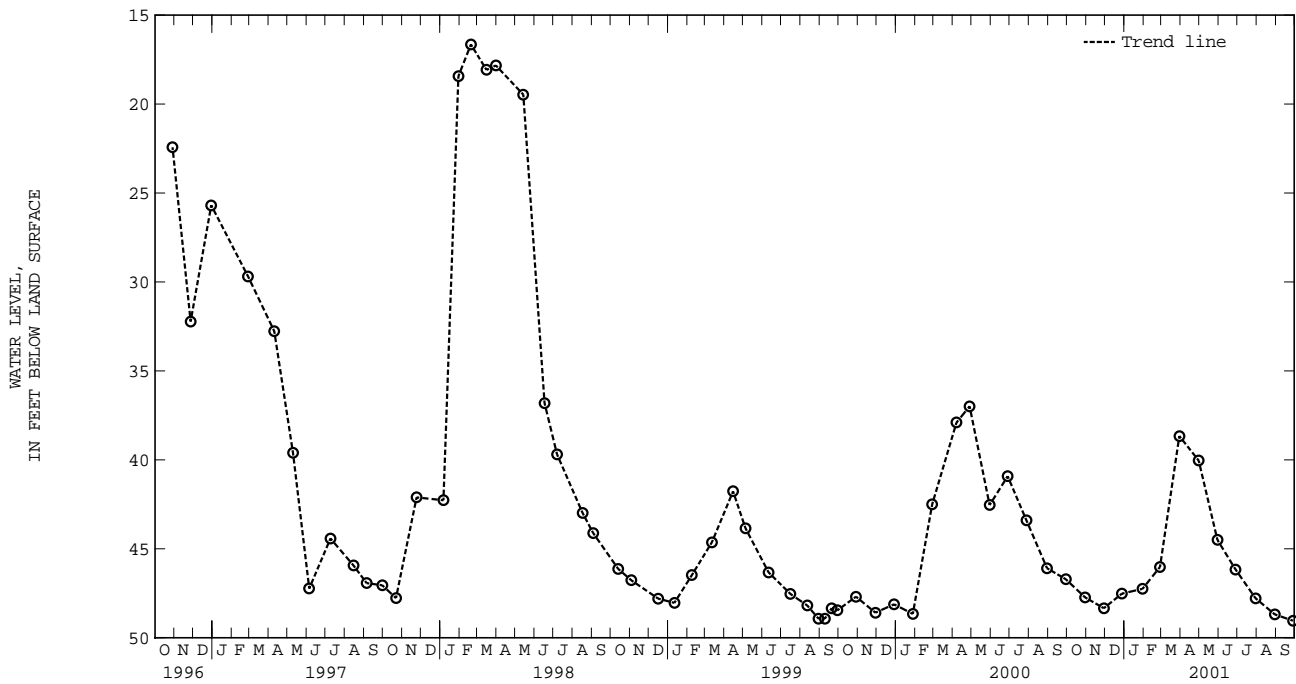
5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Bk 25. SITE ID.--393851077343001. PERMIT NUMBER.--WA-70-0235.  
 LOCATION.--Lat 39°38'51", long 77°34'30", Hydrologic Unit 02070004, 0.5 mi south of Smithsburg, at William M. Breichner Water Treatment Plant.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Tomstown Dolomite of Lower Cambrian age. Aquifer code: 377TMSN.  
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 200 ft; casing diameter 6 in., to 128 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from April 27, 1970 to current year.  
 DATUM.--Elevation of land surface is 790 ft above sea level, from topographic map.  
 Measuring point: Top of shelter platform, 3.50 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--April 1970 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.43 ft below land surface, April 23, 1993; lowest measured, 51.37 ft below land surface Jan. 31, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	47.73	JAN 30, 2001	47.25	APR 30, 2001	40.04	JUL 30, 2001	47.78
NOV 29	48.34	FEB 27	46.02	MAY 30	44.50	AUG 30	48.69
DEC 28	47.52	MAR 30	38.66	JUN 28	46.16	SEP 28	49.04
WATER YEAR 2001		HIGHEST	38.66	MAR 30, 2001	LOWEST	49.04	SEP 28, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



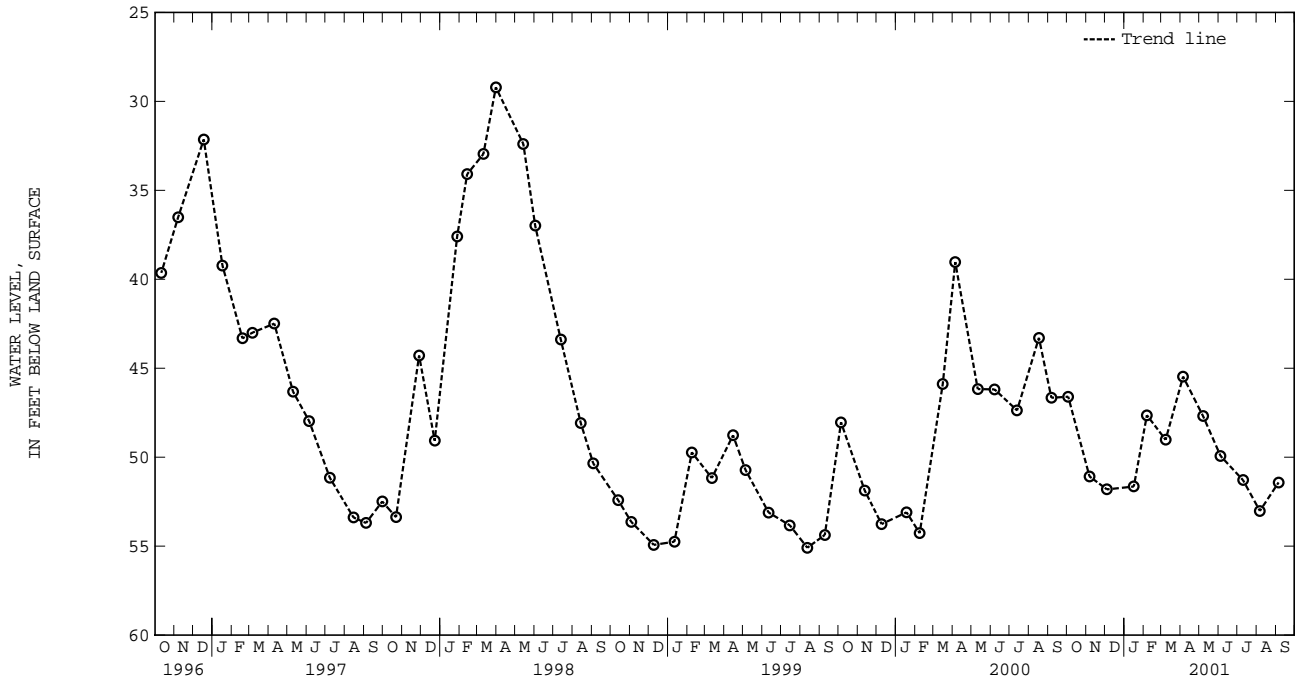


WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Ci 82. SITE ID.--393402077434201. PERMIT NUMBER.--WA-73-2101.  
 LOCATION.--Lat 39°34'02", long 77°43'42", Hydrologic Unit 02070004, at Maryland Correction Institution, nr Lappans.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Conococheague Limestone of Upper Cambrian age. Aquifer code: 371CCCG.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 84 ft; casing diameter 6 in., to 32 ft; open hole.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from April 25, 1978 to June 19, 1981.  
 DATUM.--Elevation of land surface is 500 ft above sea level, from topographic map.  
 Measuring point: Top of casing 2.30 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well.  
 PERIOD OF RECORD.--February 1978 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.95 ft below land surface, April 6, 1993;  
 lowest measured, 59.28 ft below land surface, Feb. 1, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	46.60	JAN 16, 2001	51.65	APR 05, 2001	45.47	JUL 10, 2001	51.29
NOV 06	51.08	FEB 06	47.64	MAY 07	47.69	AUG 06	53.02
DEC 04	51.81	MAR 08	49.02	JUN 04	49.93	SEP 05	51.42
WATER YEAR 2001 HIGHEST 45.47		APR 05, 2001		LOWEST 53.02		AUG 06, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Dj 2. SITE ID.--392904077371501.

LOCATION.--Lat 39°29'04", long 77°37'15", Hydrologic Unit 02070004, at Turner's Gap on Alt. U.S. 40.

Owner: Russell Schwartz.

AQUIFER.--Weverton Formation of Lower Cambrian age. Aquifer code: 377WVRN.

WELL CHARACTERISTICS.--Dug, stone-lined, observation, water-table well, depth 61.3 ft; casing diameter 48 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 1,070 ft above sea level, from topographic map.

Measuring point: Top of concrete cover, 0.25 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

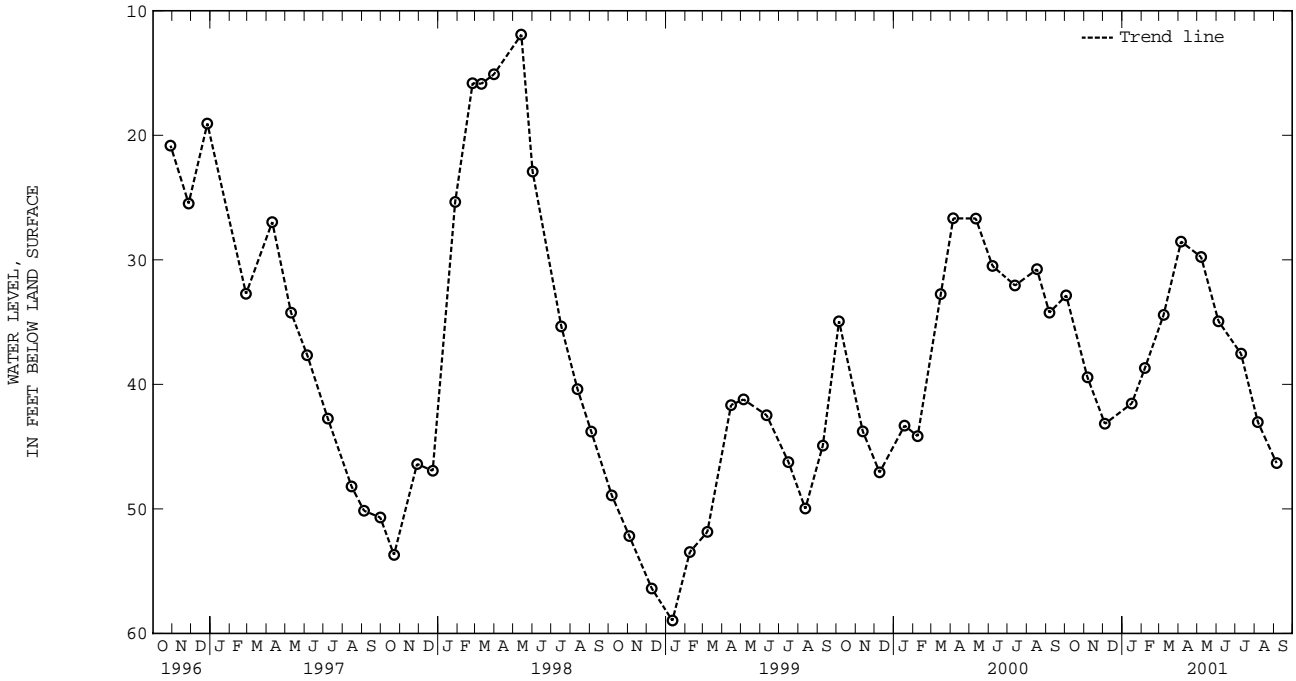
PERIOD OF RECORD.--December 1956 to current year.

EXTREMES FOR PERIOD FOR RECORD.--Highest water level measured, 11.92 ft below land surface, May 14, 1998;

lowest measured, 58.97 ft below land surface, Jan. 11, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 2000	32.86	JAN 16, 2001	41.53	APR 05, 2001	28.53	JUL 10, 2001	37.54
NOV 06	39.44	FEB 06	38.70	MAY 07	29.77	AUG 06	43.03
DEC 04	43.17	MAR 08	34.42	JUN 04	34.94	SEP 05	46.32
WATER YEAR 2001 HIGHEST		28.53	APR 05, 2001		LOWEST		46.32
					SEP 05, 2001		



WICOMICO COUNTY

WELL NUMBER.--WI Ce 13. SITE ID.--382150075352101.

LOCATION.--Lat 38°21'50", long 75°35'21", Hydrologic Unit 02060007, at Municipal Zoo Park, Salisbury.

Owner: City of Salisbury.

AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, reported depth 65 ft, measured depth 51.7 ft; casing diameter 16 to 10 in., to unknown depth; screen diameter and interval unknown; screen length 20 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from July 16, 1947 to Jan. 3, 1955; Aug. 23, 1962 to Aug. 20, 1968.

DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.22 ft above land surface.

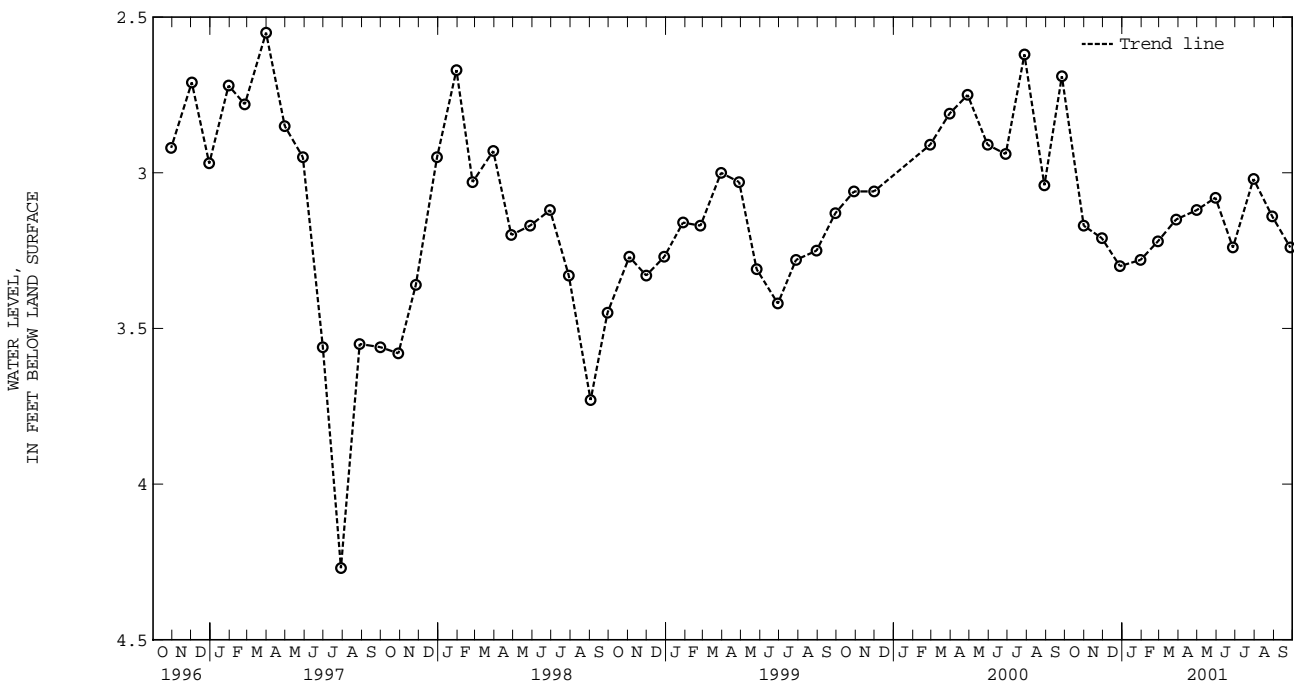
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--July 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.25 ft below land surface, Aug. 30, 1979; lowest measured, 10.72 ft below land surface, Aug. 30, 1947.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31, 2000	3.17	JAN 30, 2001	3.28	APR 30, 2001	3.12	JUL 30, 2001	3.02
NOV 29	3.21	FEB 27	3.22	MAY 30	3.08	AUG 29	3.14
DEC 28	3.30	MAR 28	3.15	JUN 27	3.24	SEP 27	3.24
WATER YEAR 2001 HIGHEST 3.02 JUL 30, 2001		LOWEST 3.30 DEC 28, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

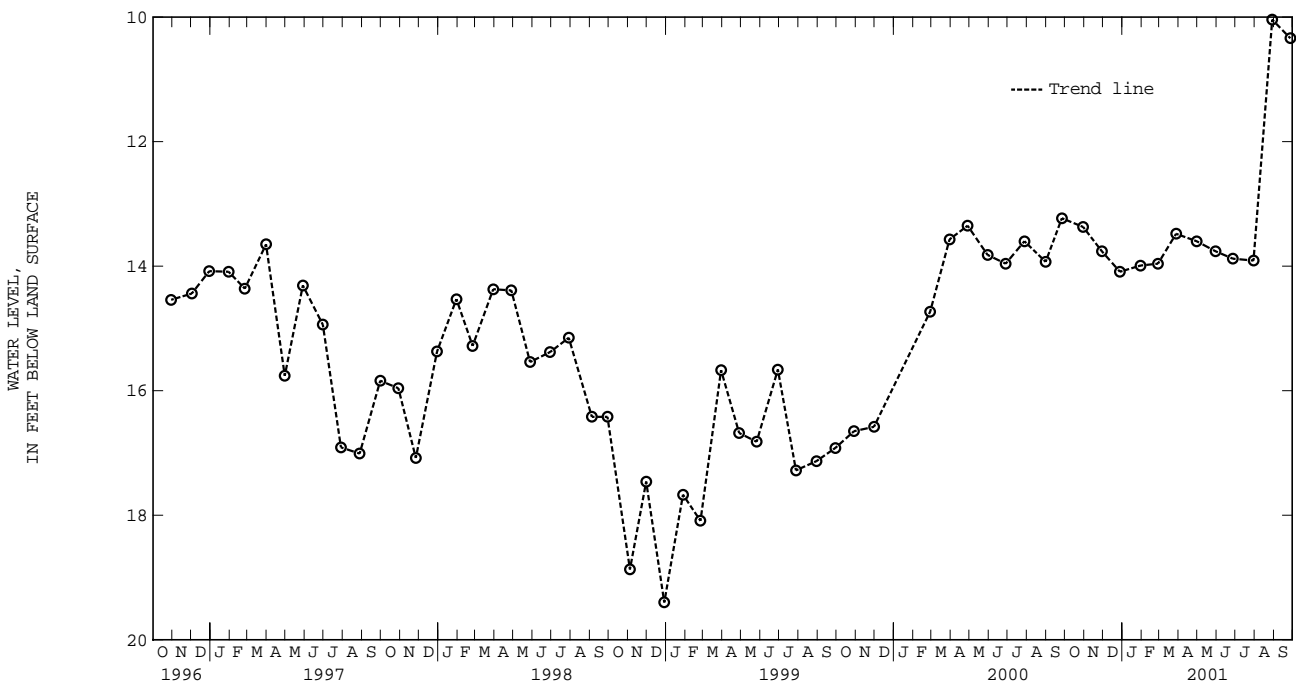
WICOMICO COUNTY--Continued

WELL NUMBER.--WI Ce 204. SITE ID.--382404075355401 PERMIT NUMBER.--WI-67-0191.  
 LOCATION.--Lat 38°24'04", long 75°35'54", Hydrologic Unit 02060007, north side of Naylor Mill Rd., Salisbury.  
 Owner: City of Salisbury.  
 AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 113 ft; casing diameter 8 in., to 109 ft; screen diameter 3 in. from 109 to 113 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 28 ft above sea level, from topographic map.  
 Measuring point: Top of shelter floor on cross-brace, 3.14 ft above land surface.  
 REMARKS.--Maryland Water-Level Network observation well. Water levels affected by local ground-water withdrawal. The nearby production well was not in use during August and September 2001.  
 PERIOD OF RECORD.--April 1967 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.35 ft below land surface, April 27, 1967; lowest measured, 19.40 ft below land surface, Dec. 29, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	13.37	JAN 30, 2001	13.99	APR 30, 2001	13.60	JUL 30, 2001	13.91
NOV 29	13.76	FEB 27	13.96	MAY 30	13.76	AUG 29	10.04
DEC 28	14.09	MAR 28	13.48	JUN 27	13.88	SEP 27	10.34

WATER YEAR 2001    HIGHEST    10.04    AUG 29, 2001    LOWEST    14.09    DEC 28, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Cf 3. SITE ID.--382037075310801.

LOCATION.--Lat 38°20'37", long 75°31'08", Hydrologic Unit 02060007, on Airport Rd., at Salisbury-Wicomico Airport, Mt. Hermon.  
 Owner: Salisbury-Wicomico Airport.

AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 110 ft; casing diameter 16 in., to 90 ft; screened from 90 to 110 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from March 24, 1948 to July 9, 1948, Aug. 2, 1949 to April 11, 1960, and Aug. 29, 1963 to Aug. 20, 1968.

DATUM.--Elevation of land surface is 44.79 ft above sea level.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level reported 7.2 ft below land surface, Oct. 26, 1942.

Water levels are affected by regional ground-water withdrawal.

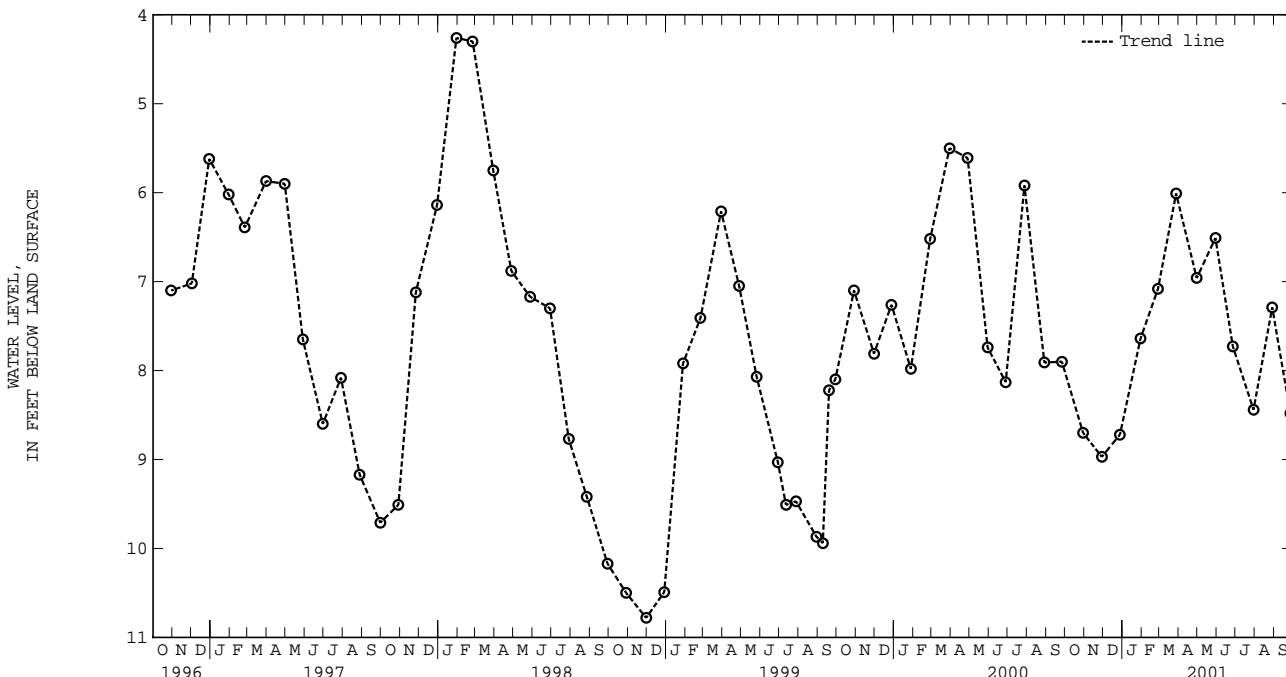
PERIOD OF RECORD.--September 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.18 ft below land surface, May 8, 1958;  
 lowest measured, 13.44 ft below land surface, Sept. 18, 1947.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	8.70	JAN 30, 2001	7.64	APR 30, 2001	6.96	JUL 30, 2001	8.44
NOV 29	8.97	FEB 27	7.08	MAY 30	6.51	AUG 29	7.29
DEC 28	8.72	MAR 28	6.01	JUN 27	7.73	SEP 27	8.48

WATER YEAR 2001 HIGHEST 6.01 MAR 28, 2001 LOWEST 8.97 NOV 29, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Cf 147. SITE ID.--382429075344501.

LOCATION.--Lat 38°24'29", long 75°34'45", Hydrologic Unit 02060007, south side of Naylor Mill Rd., Salisbury.

Owner: A.S. Abell Co.

AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 80 ft; casing diameter 2 in., to 80 ft; perforated casing from 60 to 80 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 41.83 ft above sea level.

Measuring point: Top of casing at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--November 1964; March 1966 to current year.

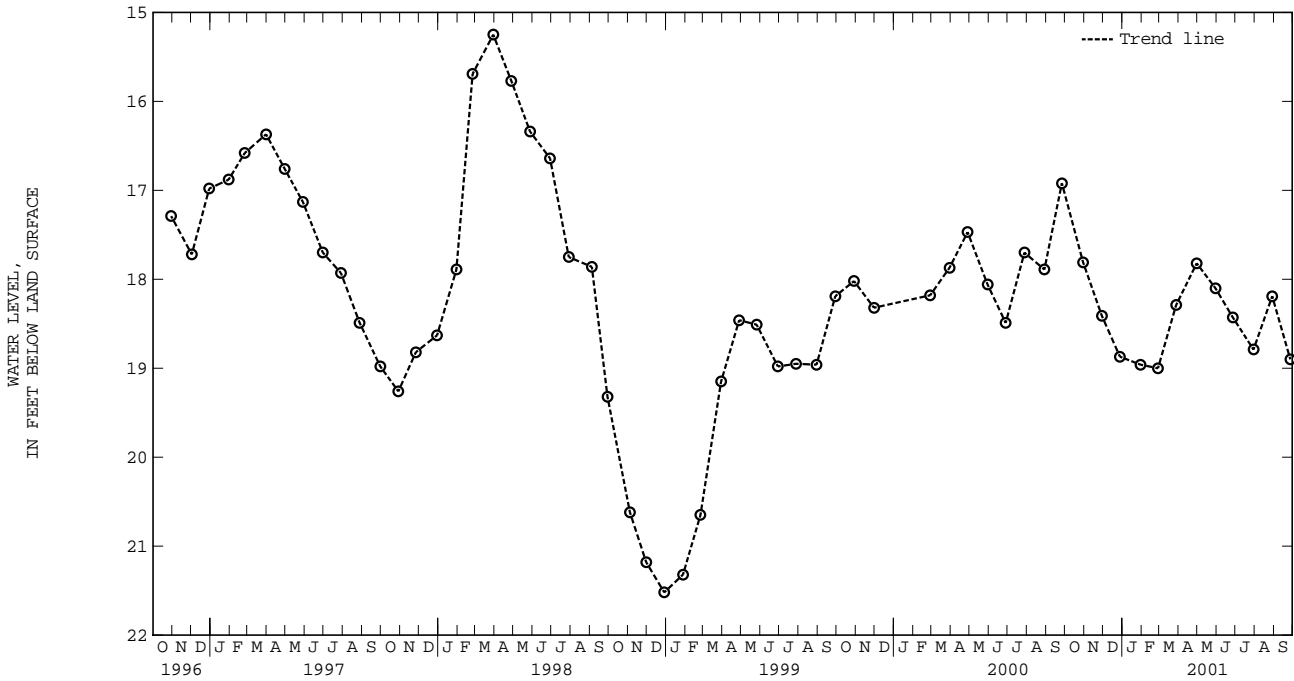
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.78 ft below land surface, June 18, 1979;

lowest measured, 21.52 ft below land surface, Dec. 29, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	17.81	JAN 30, 2001	18.96	APR 30, 2001	17.82	JUL 30, 2001	18.79
NOV 29	18.41	FEB 27	19.00	MAY 30	18.10	AUG 29	18.19
DEC 28	18.87	MAR 28	18.29	JUN 27	18.43	SEP 27	18.90

WATER YEAR 2001 HIGHEST 17.81 OCT 30, 2000 LOWEST 19.00 FEB 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Cg 20. SITE ID.--382329075263701.

LOCATION.--Lat 38°23'29", long 75°26'37", Hydrologic Unit 02060009, 1.45 mi east of Parsonsburg, south of MD Route 346.

Owner: Maryland State Highway Administration.

AQUIFER.--Parsonsburg Sand of Pleistocene age. Aquifer code: 112PRBG.

WELL CHARACTERISTICS.--Driven, unused, water-table well, depth 25 ft, casing diameter 1.25 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 68 ft above sea level, from topographic map.

Measuring point: Top of 2 in. sleeve, 0.17 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

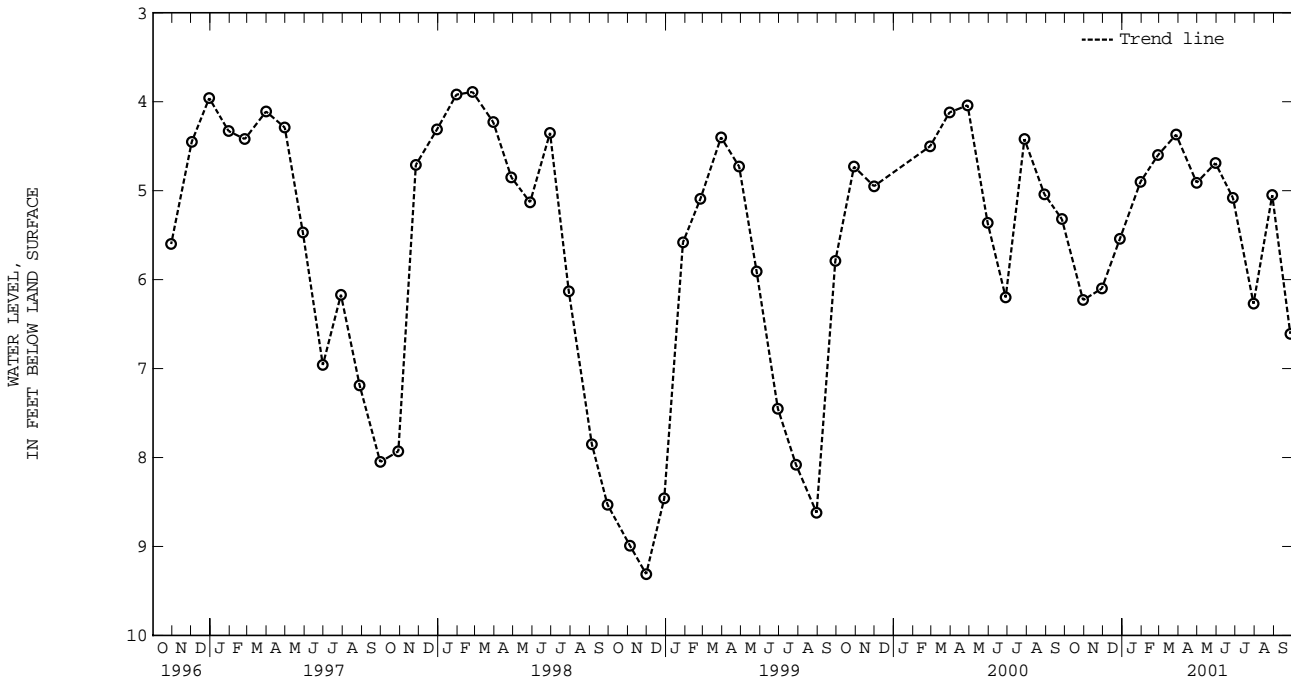
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.84 ft below land surface, Jan. 31, 1950;

lowest measured, 9.31 ft below land surface, Nov. 30, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	6.23	JAN 30, 2001	4.90	APR 30, 2001	4.91	JUL 30, 2001	6.27
NOV 29	6.10	FEB 27	4.60	MAY 30	4.69	AUG 29	5.05
DEC 28	5.54	MAR 28	4.37	JUN 27	5.08	SEP 27	6.61
WATER YEAR 2001		HIGHEST	4.37	MAR 28, 2001	LOWEST	6.61	SEP 27, 2001



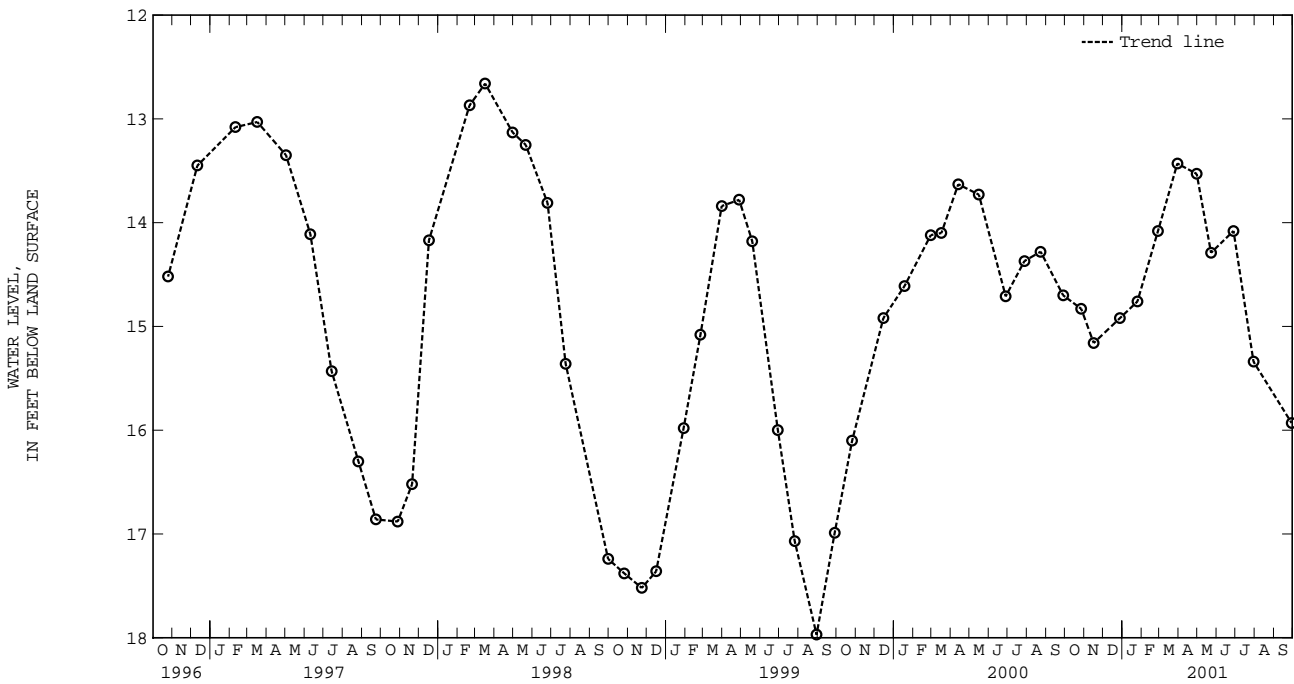
GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY

WELL NUMBER.--WO Ae 23. SITE ID.--382621075174201. PERMIT NUMBER.--WO-73-0513.  
 LOCATION.--Lat 38°26'21", long 75°17'42", Hydrologic Unit 02060009, 2.75 mi north of Whaleyville.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 280 ft; casing diameter 4 in., to 270 ft;  
 screen diameter 2 in. from 270 to 280 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.  
 Measuring point: Top of 4 in. casing, 3.52 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by regional ground-water  
 withdrawal.  
 PERIOD OF RECORD.--October 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.85 ft below land surface, Dec. 16, 1975;  
 lowest measured, 20.18 ft below land surface, Sept. 28, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	14.83	JAN 25, 2001	14.76	APR 30, 2001	13.53	JUL 30, 2001	15.34
NOV 16	15.16	FEB 27	14.08	MAY 23	14.29	SEP 29	15.93
DEC 28	14.92	MAR 30	13.43	JUN 28	14.08		
WATER YEAR 2001		HIGHEST	13.43	MAR 30, 2001	LOWEST	15.93	SEP 29, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



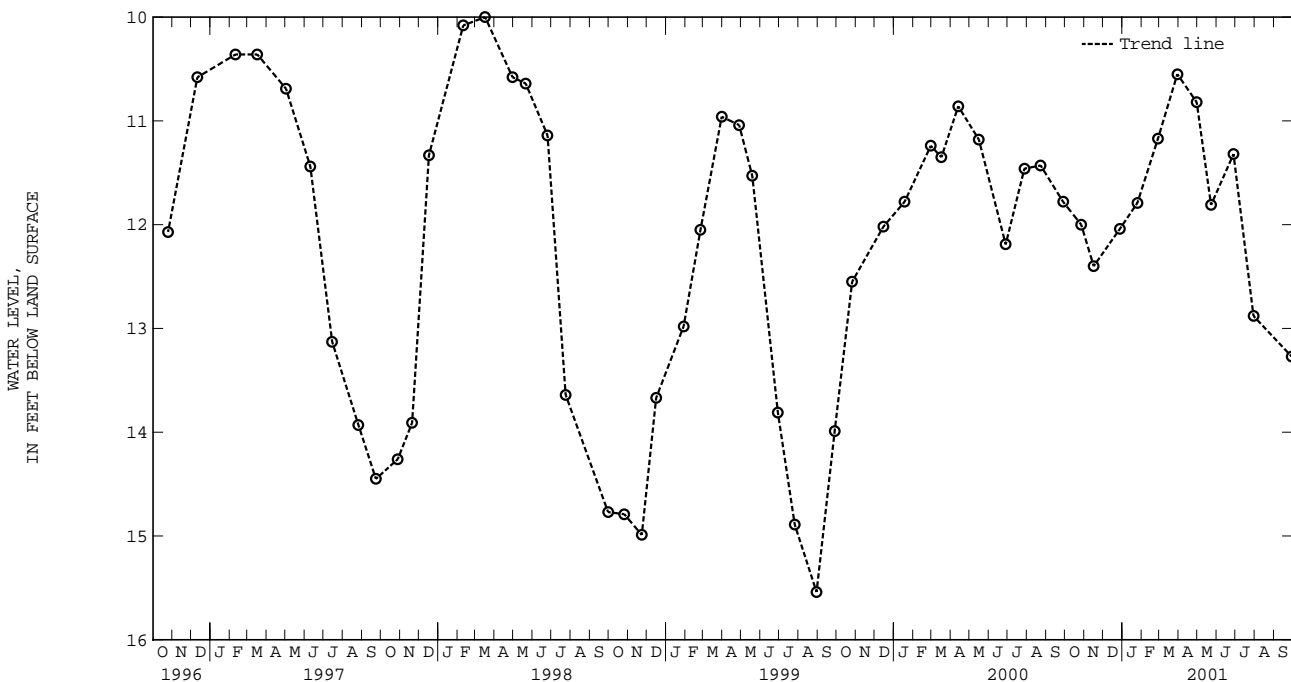
WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ae 24. SITE ID.--382621075174202. PERMIT NUMBER.--WO-73-0512.  
 LOCATION.--Lat 38°26'21", long 75°17'42", Hydrologic Unit 02060009, 2.75 mi north of Whaleyville.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 200 ft; casing diameter 4 in., to 190 ft;  
 screen diameter 2 in. from 190 to 200 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.  
 Measuring point: Top of 4 in. casing, 4.00 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by regional ground-water  
 withdrawal.  
 PERIOD OF RECORD.--October 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.49 ft below land surface, May 31, 1978;  
 lowest measured, 15.54 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	12.00	JAN 25, 2001	11.79	APR 30, 2001	10.82	JUL 30, 2001	12.88
NOV 16	12.40	FEB 27	11.17	MAY 23	11.81	SEP 29	13.27
DEC 28	12.04	MAR 30	10.55	JUN 28	11.32		

WATER YEAR 2001 HIGHEST 10.55 MAR 30, 2001 LOWEST 13.27 SEP 29, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

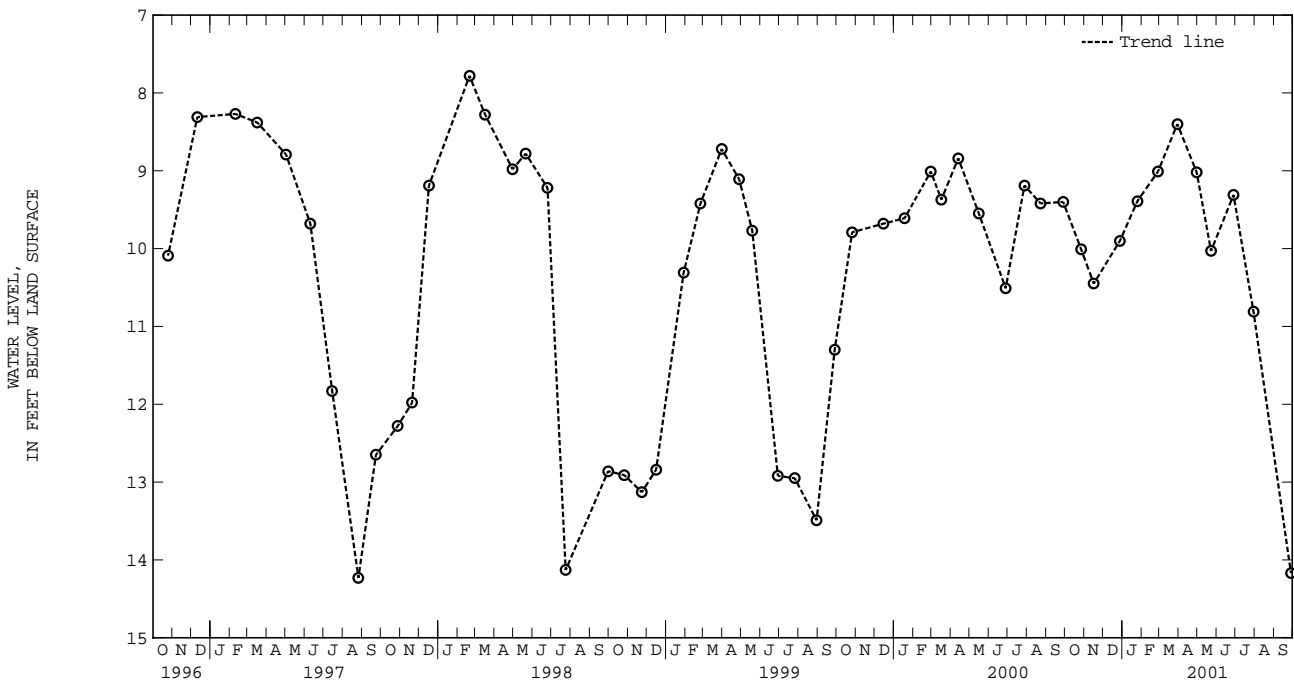
GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ae 25. SITE ID.--382621075174203. PERMIT NUMBER.--WO-73-0514.  
 LOCATION.--Lat 38°26'21", long 75°17'42", Hydrologic Unit 02060009, 2.75 mi north of Whaleyville.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 118 ft; casing diameter 4 in., to 108 ft; screened diameter 2 in. from 108 to 118 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.  
 Measuring point: Top of casing, 3.20 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels may be affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--October 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.78 ft below land surface, Feb. 20, 1998;  
 lowest measured, 15.08 ft below land surface, July 24, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	10.01	JAN 25, 2001	9.39	APR 30, 2001	9.02	JUL 30, 2001	10.81
NOV 16	10.45	FEB 27	9.01	MAY 23	10.03	SEP 28	14.17
DEC 28	9.90	MAR 30	8.40	JUN 28	9.31		
WATER YEAR 2001		HIGHEST	8.40	MAR 30, 2001	LOWEST	14.17	SEP 28, 2001



WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 6. SITE ID.--382632075031801. PERMIT NUMBER.--WO-70-0009.

LOCATION.--Lat 38°26'32", long 75°03'18", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 357 ft; casing diameter 6 in., to 347 ft; casing diameter 4 in. from 327 to 347 ft; screen diameter 4 in. from 347 to 357 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recording interval, March 1985 to February 1994.

DATUM.--Elevation of land surface is 6.35 ft above sea level.

Measuring point: Top of shelter floor, 3.27 ft above land surface, when shelter removed, measuring point top of casing, 3.27 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.

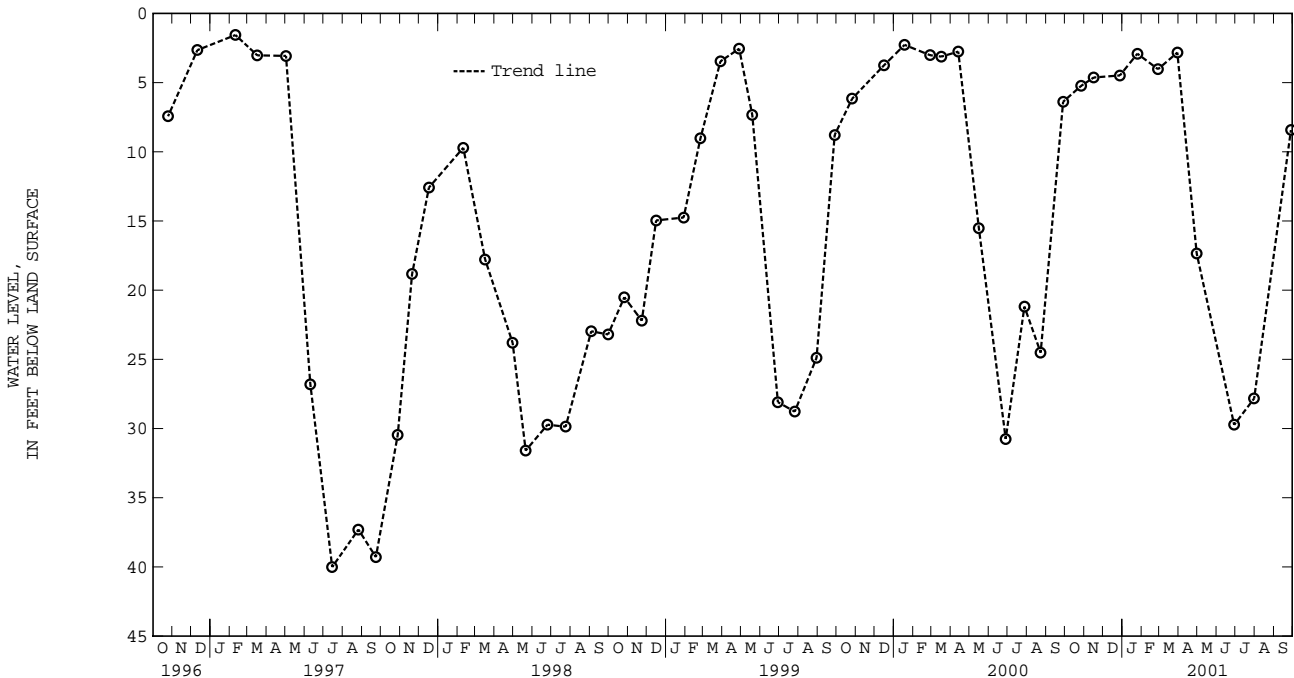
PERIOD OF RECORD.--September 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.56 ft above land surface, Feb. 10, 1997; lowest measured, 52.46 ft below land surface, July 24, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	5.23	JAN 25, 2001	2.91	APR 30, 2001	17.35	SEP 28, 2001	8.43
NOV 16	4.63	FEB 27	4.03	JUN 29	29.73		
DEC 28	4.48	MAR 30	2.83	JUL 31	27.83		

WATER YEAR 2001 HIGHEST 2.83 MAR 30, 2001 LOWEST 29.73 JUN 29, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

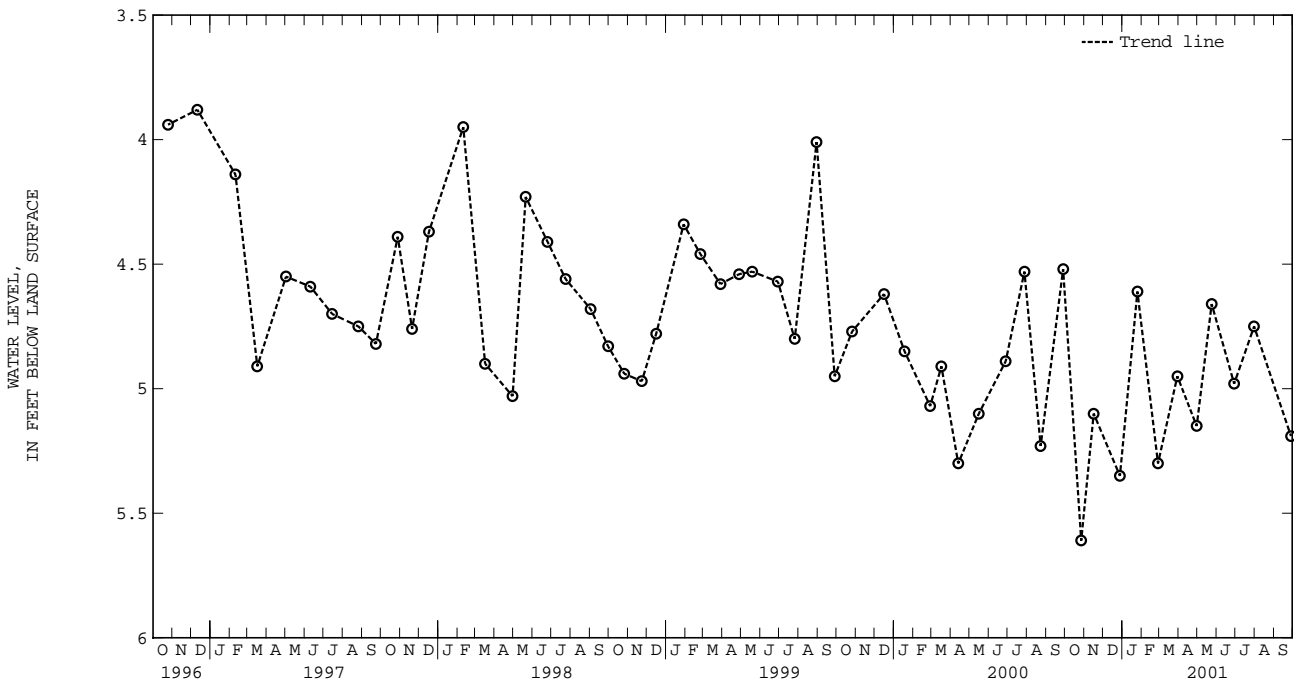
WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 35. SITE ID.--382635075030601. PERMIT NUMBER.--WO-73-0516.  
 LOCATION.--Lat 38°26'35", long 75°03'06", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--St. Marys Formation of Middle-Upper Miocene age. Aquifer code: 122SMRS.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 726 ft; casing diameter 4 in., to 716 ft; screen diameter 2 in. from 716 to 726 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 13.99 ft above sea level.  
 Measuring point: Top of 4 in. casing, 3.30 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal of the overlying aquifer.  
 PERIOD OF RECORD.--October 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.90 ft below land surface, March 10, 1976; lowest measured, 10.26 ft below land surface, Oct. 28, 1975.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	5.61	JAN 25, 2001	4.61	APR 30, 2001	5.15	JUL 31, 2001	4.75
NOV 16	5.10	FEB 27	5.30	MAY 24	4.66	SEP 28	5.19
DEC 28	5.35	MAR 30	4.95	JUN 29	4.98		

WATER YEAR 2001    HIGHEST    4.61    JAN 25, 2001    LOWEST    5.61    OCT 27, 2000



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

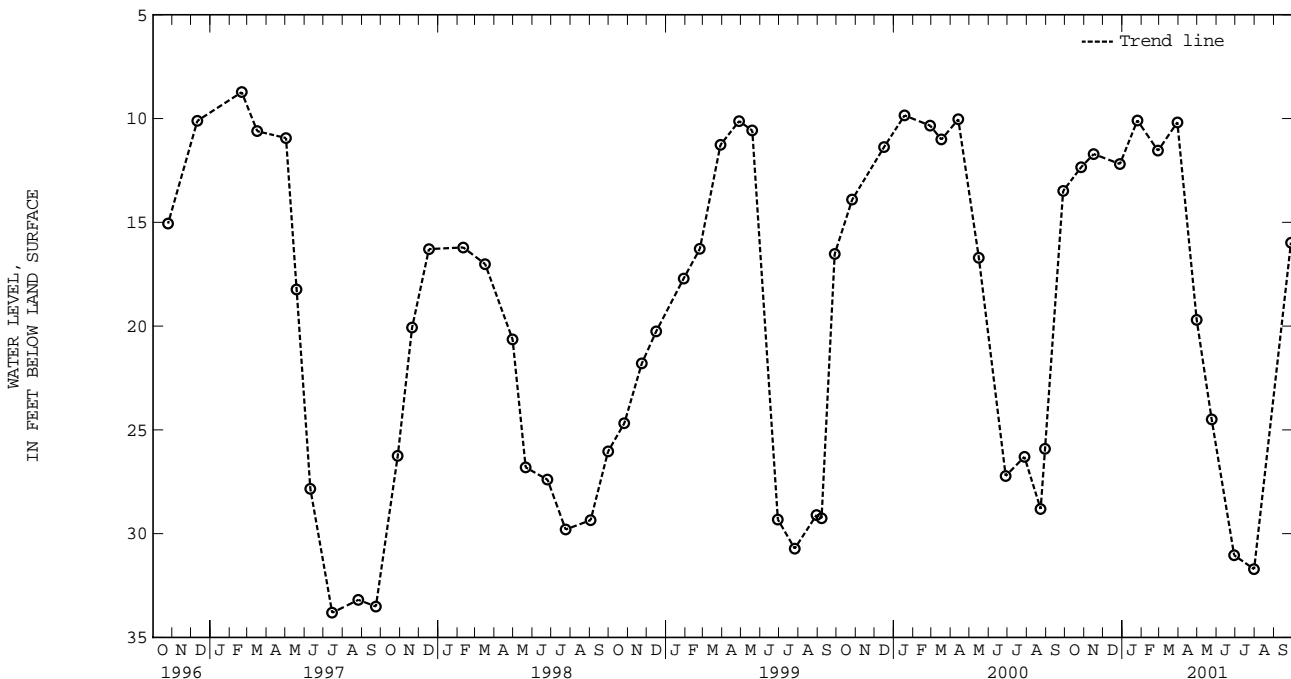
WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 36. SITE ID.--382635075030602. PERMIT NUMBER.--WO-73-0518.  
 LOCATION.--Lat 38°26'35", long 75°03'06", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 430 ft; casing diameter 4 in., to 420 ft; screen diameter 2 in. from 420 to 430 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval from May 1994 to May 1997.  
 DATUM.--Elevation of land surface is 14.32 ft above sea level.  
 Measuring point: Top of 4 in. casing, 4.29 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.  
 PERIOD OF RECORD.--October 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.23 ft below land surface, Feb. 9, 1997;  
 lowest measured, 38.75 ft below land surface, Aug. 30, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	12.34	JAN 25, 2001	10.09	APR 30, 2001	19.70	JUL 31, 2001	31.71
NOV 16	11.71	FEB 27	11.55	MAY 24	24.50	SEP 28	15.98
DEC 28	12.19	MAR 30	10.18	JUN 29	31.04		

WATER YEAR 2001 HIGHEST 10.09 JAN 25, 2001 LOWEST 31.71 JUL 31, 2001



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 37. SITE ID.--382635075030603. PERMIT NUMBER.--WO-73-0517.

LOCATION.--Lat 38°26'35", long 75°03'06", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 478 ft; casing diameter 4 in., to 468 ft; screen diameter 2 in. from 468 to 478 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 13.89 ft above sea level.

Measuring point: Top of 4 in. casing, 3.10 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.58 ft below land surface, Feb. 10, 1977; lowest measured, 41.42 ft below land surface, Aug. 30, 1989.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.22	13.75	13.17	12.01	12.70	11.59	12.81	11.71	11.65	10.43	11.23	10.07
2	14.94	13.56	12.87	11.80	12.42	11.48	12.29	11.25	11.53	10.38	11.11	9.87
3	14.83	13.61	12.83	11.84	12.45	11.48	12.13	11.16	12.09	10.46	11.01	9.80
4	14.71	13.61	12.91	11.97	12.51	11.48	12.20	11.09	11.69	10.63	10.50	9.50
5	14.64	13.54	12.92	11.91	12.61	11.51	12.09	10.93	11.44	9.88	10.57	8.71
6	15.80	13.70	13.06	11.97	12.82	11.73	12.24	10.53	12.33	9.80	10.59	9.12
7	14.53	13.45	12.99	11.93	12.86	11.60	12.21	10.61	12.34	10.35	10.46	8.65
8	14.59	13.55	12.95	11.63	12.75	11.35	12.25	10.25	12.54	10.27	10.75	8.72
9	17.46	13.49	12.95	11.47	12.79	11.09	12.26	10.07	12.27	10.00	10.97	9.00
10	20.37	16.60	12.91	11.15	12.79	10.90	12.67	10.71	12.19	10.28	11.42	9.52
11	20.39	16.86	12.97	11.28	12.76	10.77	12.80	10.61	12.52	10.68	11.68	9.87
12	17.53	14.99	12.76	10.95	13.02	10.45	12.88	10.80	12.50	10.50	11.84	9.79
13	16.18	14.38	12.97	11.14	13.29	11.33	12.55	10.67	11.64	10.35	11.17	9.44
14	15.76	14.02	12.99	11.06	12.64	10.82	12.50	10.97	11.44	10.19	11.30	9.50
15	15.33	13.65	13.07	11.28	12.83	11.15	12.37	10.92	11.24	10.05	11.21	9.87
16	18.15	13.62	13.39	11.78	12.51	10.74	12.36	10.77	11.14	10.11	10.94	9.85
17	---	---	13.45	11.85	12.40	10.39	12.52	11.17	11.41	9.70	10.85	9.89
18	---	---	13.36	12.00	13.10	11.67	12.10	11.16	11.63	10.37	11.11	10.02
19	---	---	13.21	11.87	12.76	11.45	11.79	10.67	13.69	10.45	15.34	10.06
20	17.52	15.65	13.22	11.65	12.86	11.13	11.66	10.34	13.61	10.70	14.32	10.38
21	16.43	14.81	15.05	11.93	12.78	11.53	12.24	10.13	11.82	10.43	11.28	9.42
22	15.65	14.01	13.89	12.40	12.95	11.32	12.25	10.90	11.56	10.04	12.43	9.04
23	15.39	13.77	13.89	12.15	12.95	11.38	12.20	10.76	11.21	9.79	12.43	10.24
24	15.11	13.57	13.40	11.71	12.85	11.37	11.94	10.45	11.68	10.27	12.40	10.45
25	15.07	13.41	13.28	11.58	13.05	11.45	11.89	10.32	11.47	10.02	11.77	10.13
26	14.85	13.00	12.55	10.77	13.10	11.44	11.58	10.25	13.14	10.13	11.44	9.94
27	14.47	12.68	12.67	11.03	13.13	11.62	11.64	10.26	11.96	10.43	13.58	10.09
28	14.02	12.34	12.93	11.47	12.49	11.09	11.91	10.68	11.46	10.15	13.58	10.42
29	13.81	12.32	13.05	11.57	12.07	10.69	11.79	10.50	---	---	11.79	9.71
30	13.63	12.23	12.72	11.61	11.59	10.38	11.45	10.21	---	---	14.13	9.76
31	13.51	12.09	---	---	12.77	10.99	11.50	10.31	---	---	11.43	9.97
MONTH	20.39	12.09	15.05	10.77	13.29	10.38	12.88	10.07	13.69	9.70	15.34	8.65

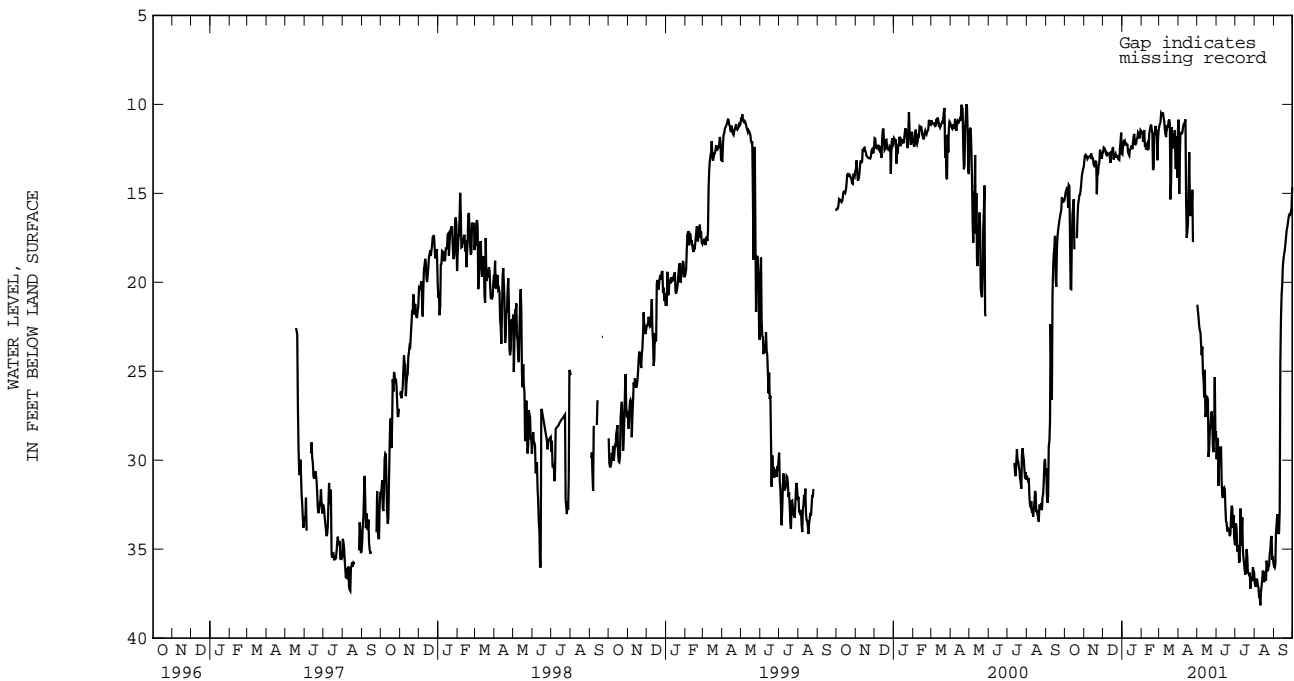
WORCESTER COUNTY--Continued

WO Ah 37--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.86	9.71	21.26	19.37	29.95	27.07	34.74	29.42	36.92	31.74	35.97	32.58
2	15.03	9.39	21.63	19.57	28.83	26.90	33.56	29.58	37.07	32.52	36.04	33.49
3	12.87	10.66	22.01	20.38	28.76	26.87	33.92	28.95	37.07	33.07	35.85	33.29
4	11.55	10.12	22.45	20.39	31.44	26.29	35.13	30.75	36.66	32.07	34.08	29.89
5	11.65	10.00	22.71	20.45	29.78	26.56	34.85	31.03	36.74	32.90	33.61	30.90
6	11.65	9.87	22.81	20.73	29.30	26.61	34.92	31.23	37.04	33.02	33.04	30.41
7	11.59	9.45	23.51	20.98	29.28	26.65	35.76	31.58	37.15	33.80	33.38	31.16
8	11.32	9.37	24.10	21.37	29.28	26.57	35.61	31.72	37.68	35.05	34.15	31.13
9	11.13	9.32	23.62	21.59	31.20	27.85	32.72	30.10	37.67	35.24	34.05	31.95
10	11.08	9.41	25.08	22.07	32.02	29.67	34.81	30.08	38.16	35.15	32.77	24.56
11	10.98	9.44	25.46	23.13	32.12	28.67	34.18	30.78	37.39	34.88	24.56	22.03
12	10.85	9.46	26.47	23.62	31.58	28.81	33.21	30.04	37.06	33.86	22.03	20.19
13	15.29	9.46	24.92	22.82	31.53	28.08	35.08	29.52	36.71	33.02	20.74	19.05
14	17.50	15.15	27.57	22.69	31.64	28.60	35.53	30.64	36.21	32.34	20.12	17.81
15	17.13	15.38	27.39	24.44	32.70	28.58	35.85	32.03	36.62	32.27	19.10	17.03
16	16.72	13.53	26.42	24.08	33.44	30.40	36.25	31.27	36.86	31.82	18.72	16.63
17	14.88	12.58	26.45	24.72	33.54	28.67	36.43	31.56	36.33	32.93	18.43	16.42
18	12.69	11.58	26.64	24.77	34.00	28.65	35.80	31.57	36.28	32.59	18.22	16.18
19	15.05	11.35	29.82	24.53	33.77	30.62	35.01	30.16	36.77	33.40	17.91	15.96
20	16.28	12.31	29.32	25.50	33.95	31.20	35.41	30.37	35.65	31.93	17.51	15.73
21	15.25	12.36	28.34	24.53	33.95	30.30	36.31	32.23	35.95	32.28	17.12	15.58
22	15.93	12.78	28.11	25.24	34.27	31.24	36.37	33.36	36.24	33.23	16.92	15.48
23	14.80	11.73	27.53	24.96	34.15	30.19	36.44	32.10	36.01	33.43	16.70	15.38
24	17.74	11.62	27.26	24.69	33.21	29.47	36.32	32.12	35.93	32.77	16.44	15.18
25	---	---	27.94	25.37	32.56	27.68	37.22	34.55	35.27	32.39	16.20	15.03
26	---	---	29.25	26.27	32.67	29.38	36.53	33.42	35.05	31.95	16.17	15.06
27	---	---	29.55	25.44	33.78	28.92	36.66	31.73	34.41	31.59	16.20	14.99
28	---	---	28.15	25.30	33.08	29.95	36.80	32.24	34.26	32.19	16.03	14.80
29	---	---	25.33	23.95	34.34	30.22	36.02	32.60	35.61	31.51	15.79	13.85
30	---	---	28.61	24.14	34.72	29.51	36.20	31.95	35.41	31.78	14.66	13.22
31	---	---	28.38	25.95	---	---	36.32	31.65	35.81	32.20	---	---
MONTH	17.74	9.32	29.82	19.37	34.72	26.29	37.22	28.95	38.16	31.51	36.04	13.22
YEAR	38.16	8.65										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 1. SITE ID.--382022075072401.

LOCATION.--Lat 38°20'22", long 75°07'24", Hydrologic Unit 02060010, 0.4 mi east of Herring Creek on U.S. Rt. 50.

Owner: MD State Highway Administration.

AQUIFER.--Sinepuxent Formation of Pleistocene age. Aquifer code: 112SNPX.

WELL CHARACTERISTICS.--Driven, water-table well, depth 14 ft; casing diameter 1.25 in., to 14 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.25 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

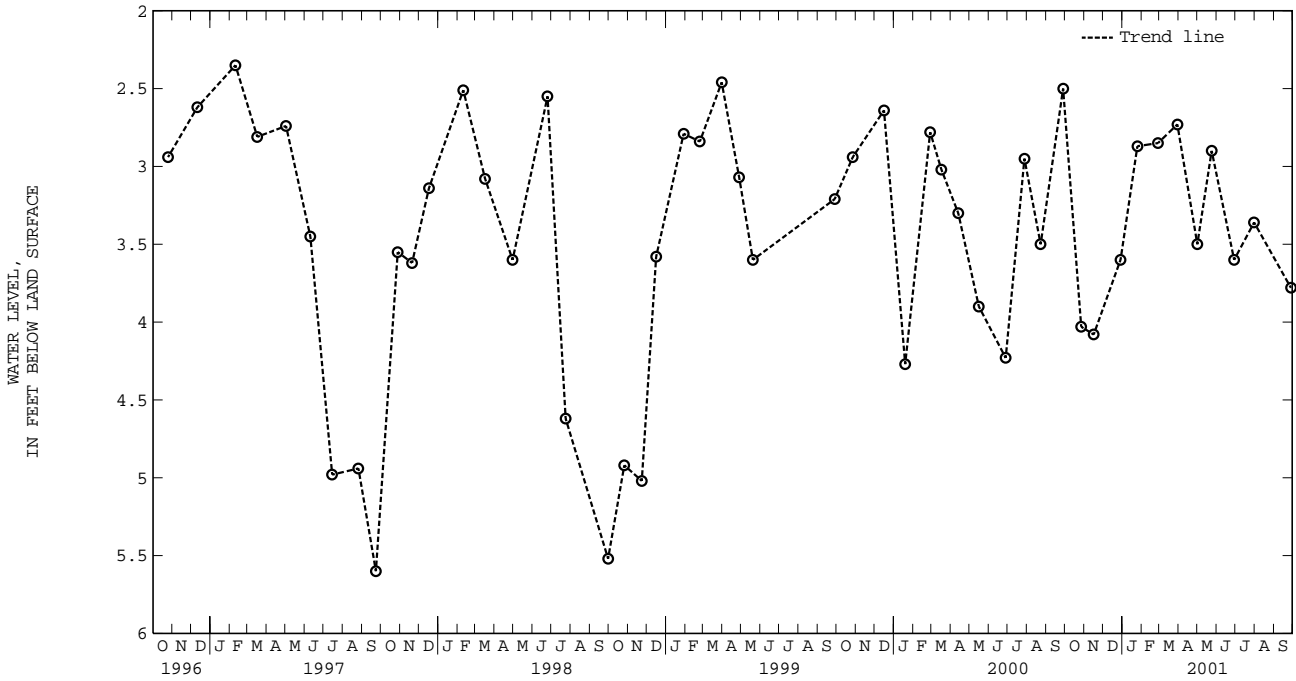
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.41 ft below land surface, March 8, 1962;

lowest measured, 8.61 ft below land surface, May 14, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	4.03	JAN 25, 2001	2.87	MAY 01, 2001	3.50	JUL 31, 2001	3.36
NOV 16	4.08	FEB 27	2.85	24	2.90	SEP 28	3.78
DEC 29	3.60	MAR 30	2.73	JUN 29	3.60		
WATER YEAR 2001 HIGHEST 2.73 MAR 30, 2001		LOWEST 4.08 NOV 16, 2000					



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

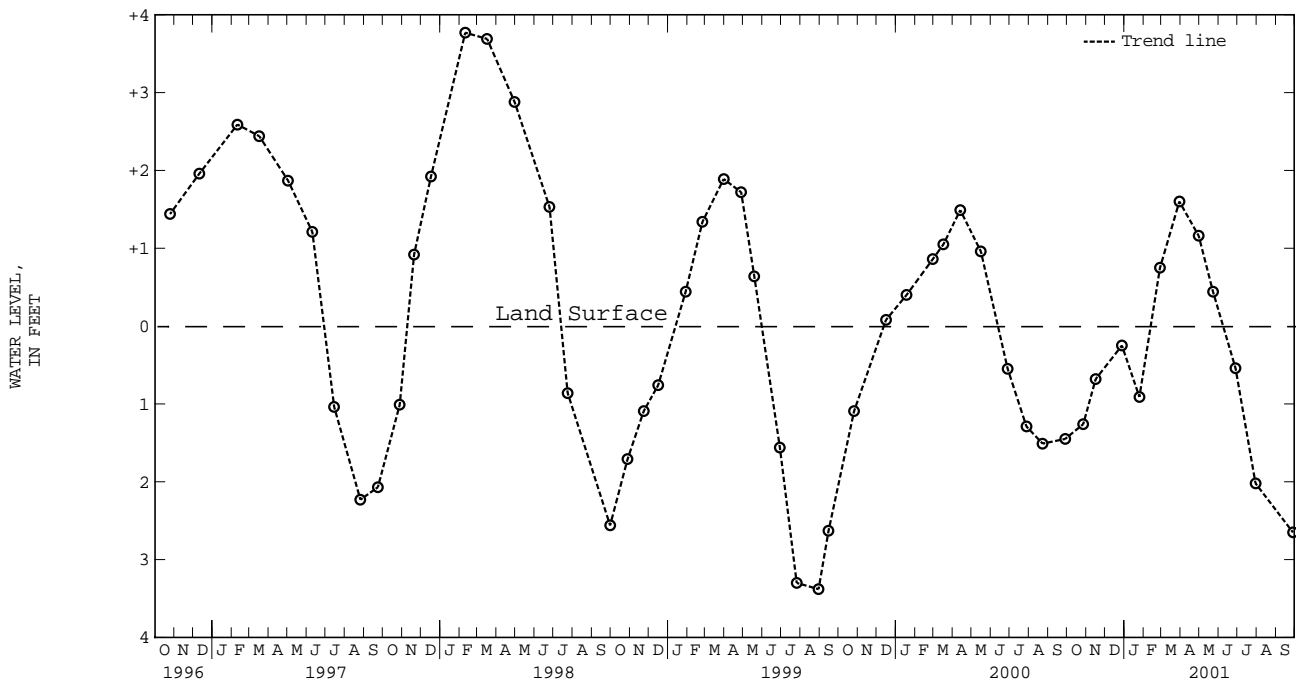


WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 15. SITE ID.--382359075094501. PERMIT NUMBER.--WO-68-0066.  
 LOCATION.--Lat 38°23'59", long 75°09'45", Hydrologic Unit 02060010, south side of Beauchamp Rd. at Ocean Pines.  
 Owner: Ocean Pines.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 318 ft; casing diameter 6 in., to 288 ft; screen diameter 6 in. from 288 to 318 ft.  
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.  
 Measuring point: Top of 6 in. casing, 5.50 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands  
 PERIOD OF RECORD.--September 1970 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.13 ft above land surface, Feb. 29, 1972; lowest measured, 3.38 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	1.26	JAN 25, 2001	.91	APR 30, 2001	+1.16	JUL 30, 2001	2.02
NOV 16	.68	FEB 27	+ .75	MAY 23	+ .44	SEP 28	2.65
DEC 28	.25	MAR 30	+1.60	JUN 28	.54		
WATER YEAR 2001 HIGHEST		+1.60 MAR 30, 2001	LOWEST		2.65	SEP 28, 2001	



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 45. SITE ID.--382358075094501. PERMIT NUMBER.--WO-68-0066.

LOCATION.--Lat 38°23'58", long 75°09'45", Hydrologic Unit 02060010, south side of Beauchamp Rd. at Ocean Pines.

Owner: Ocean Pines.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 77 ft; casing diameter 2 in., to 56 ft; screen diameter 3 in. from 56 to 77 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of 2 in. casing, 1.60 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels may be affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1970 to current year.

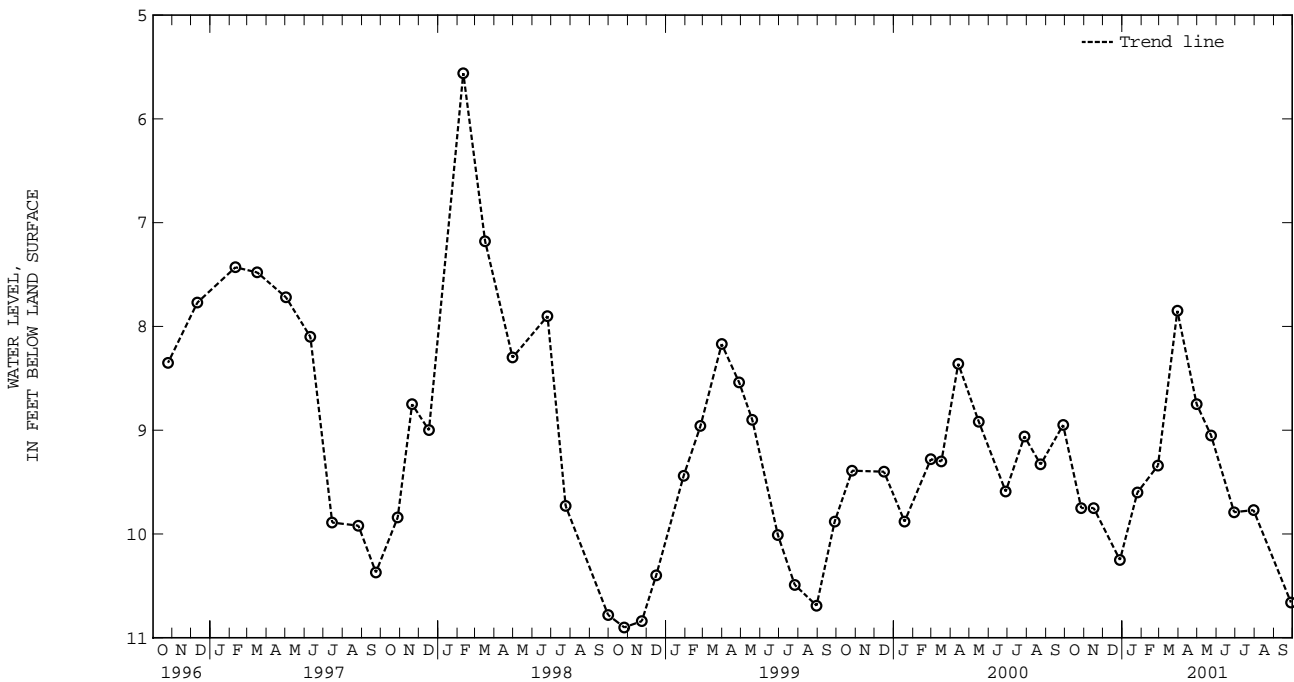
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.22 ft below land surface, Jan. 8, 1971;

lowest measured, 10.90 ft below land surface, Oct. 26, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	9.75	JAN 25, 2001	9.60	APR 30, 2001	8.75	JUL 30, 2001	9.77
NOV 16	9.75	FEB 27	9.34	MAY 23	9.05	SEP 28	10.66
DEC 28	10.25	MAR 30	7.85	JUN 29	9.79		

WATER YEAR 2001 HIGHEST 7.85 MAR 30, 2001 LOWEST 10.66 SEP 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 46. SITE ID.--382358075094502 PERMIT NUMBER.--WO-68-0066

LOCATION.--Lat 38°23'58", long 75°09'45", Hydrologic Unit 02060010, south side of Beauchamp Rd. at Ocean Pines.

Owner: Ocean Pines

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 199.5 ft; casing diameter 6 in., to 53.7 ft; casing diameter 4 in. from 53.7 to 164.2 ft, and 194.5 to 199.5 ft; screen diameter 6 in. from 164.2 to 194.5 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of 2 in. coupling, 2.5 ft above land surface.

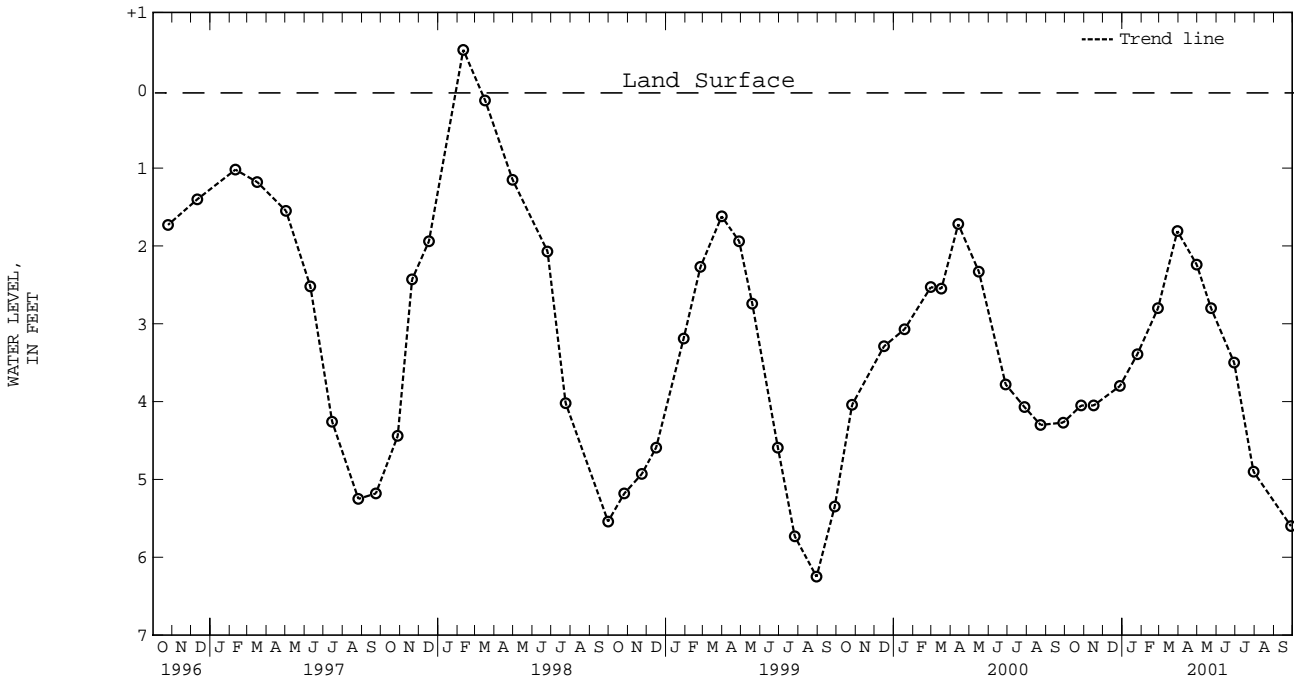
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.52 ft above land surface, Feb. 10, 1998;  
lowest measured, 6.25 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	4.05	JAN 25, 2001	3.39	APR 30, 2001	2.24	JUL 30, 2001	4.90
NOV 16	4.05	FEB 27	2.80	MAY 23	2.80	SEP 28	5.60
DEC 28	3.80	MAR 30	1.81	JUN 29	3.50		
WATER YEAR 2001 HIGHEST		1.81 MAR 30, 2001	LOWEST		5.60 SEP 28, 2001		



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 47. SITE ID.--382325075063301. PERMIT NUMBER.--WO-73-0522.  
 LOCATION.--Lat 38°23'25", long 75°06'33", Hydrologic Unit 02060010, at intersection of MD Rt. 90 and Isle of Wight Rd., Isle of Wight.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 268 ft; casing diameter 4 in., to 258 ft; screen diameter 2 in. from 258 to 268 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval from July 1985 to current year.  
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.  
 Measuring Point: Top of recorder shelf, 4.07 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--September 1975 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.71 ft below land surface, February 5, 1998; lowest measured, 13.09 ft below land surface, Aug. 8, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.20	9.54	7.49	6.86	7.33	6.73	7.33	6.86	6.30	5.65	5.86	5.36
2	10.12	9.42	7.47	6.84	7.07	6.55	7.01	6.37	6.21	5.54	5.76	5.31
3	10.07	9.46	7.57	6.96	7.08	6.60	6.75	6.21	6.53	5.72	5.66	5.05
4	10.07	9.42	7.63	7.03	7.07	6.55	6.69	6.19	6.53	5.79	5.62	4.71
5	10.01	9.26	7.52	6.97	7.14	6.61	6.69	6.15	6.17	5.20	5.34	4.12
6	9.71	9.08	7.52	7.00	7.25	6.83	6.60	5.89	6.23	5.20	5.39	4.67
7	9.67	9.13	7.54	6.97	7.28	6.77	6.63	5.93	6.53	5.87	5.40	4.41
8	9.86	9.28	7.47	6.77	7.29	6.62	6.60	5.70	6.57	5.81	5.05	4.32
9	9.75	9.12	7.32	6.68	7.10	6.35	6.58	5.69	6.33	5.50	5.35	4.61
10	9.67	9.16	7.10	6.40	7.07	6.25	6.77	6.13	6.34	5.50	5.78	5.02
11	10.04	9.42	7.33	6.62	7.02	6.21	6.84	6.00	6.61	5.93	5.98	5.33
12	9.95	9.02	7.17	6.30	7.01	6.03	6.78	5.99	6.67	6.13	6.14	5.41
13	9.42	8.83	7.25	6.49	7.50	6.79	6.59	5.79	6.13	5.55	5.66	5.05
14	9.34	8.77	7.31	6.47	6.99	6.11	6.56	5.99	5.94	5.48	5.97	4.91
15	9.30	8.68	7.43	6.67	7.09	6.45	6.55	6.00	5.89	5.27	5.86	5.39
16	9.38	8.55	7.76	7.04	6.87	6.03	6.63	5.86	5.87	5.31	5.73	5.22
17	8.98	8.18	7.81	7.09	6.56	5.48	6.84	6.18	5.95	4.98	5.64	5.13
18	8.78	8.01	7.73	7.09	7.40	6.56	6.84	6.15	6.16	5.60	5.92	5.25
19	8.67	7.98	7.63	6.96	7.40	6.60	6.53	5.79	6.24	5.67	5.92	5.38
20	8.66	7.93	7.46	6.77	7.03	6.37	6.23	5.52	6.23	5.72	5.94	5.33
21	8.70	8.01	7.53	7.00	7.10	6.63	6.33	5.42	6.07	5.47	5.60	4.31
22	8.53	7.76	7.81	7.29	7.12	6.47	6.61	6.11	6.12	5.25	5.01	4.19
23	8.44	7.80	7.93	7.23	7.19	6.59	6.57	5.90	5.72	5.13	5.51	4.95
24	8.33	7.77	7.61	6.86	7.11	6.47	6.39	5.66	6.09	5.55	5.65	5.10
25	8.34	7.76	7.43	6.60	7.18	6.58	6.28	5.61	6.02	5.31	5.89	5.19
26	8.24	7.47	6.84	6.00	7.34	6.59	6.27	5.59	5.95	5.31	5.73	5.18
27	7.98	7.22	6.98	6.26	7.29	6.63	6.23	5.59	6.05	5.52	5.83	5.18
28	7.72	7.01	7.37	6.76	6.87	6.23	6.50	6.00	5.92	5.38	5.90	5.34
29	7.73	7.06	7.51	6.79	6.63	5.83	6.42	5.77	---	---	5.90	5.13
30	7.72	7.03	7.36	6.81	6.14	5.51	6.07	5.44	---	---	5.29	4.77
31	7.66	6.91	---	---	7.14	5.92	6.15	5.56	---	---	5.50	4.65
MONTH	10.20	6.91	7.93	6.00	7.50	5.48	7.33	5.42	6.67	4.98	6.14	4.12

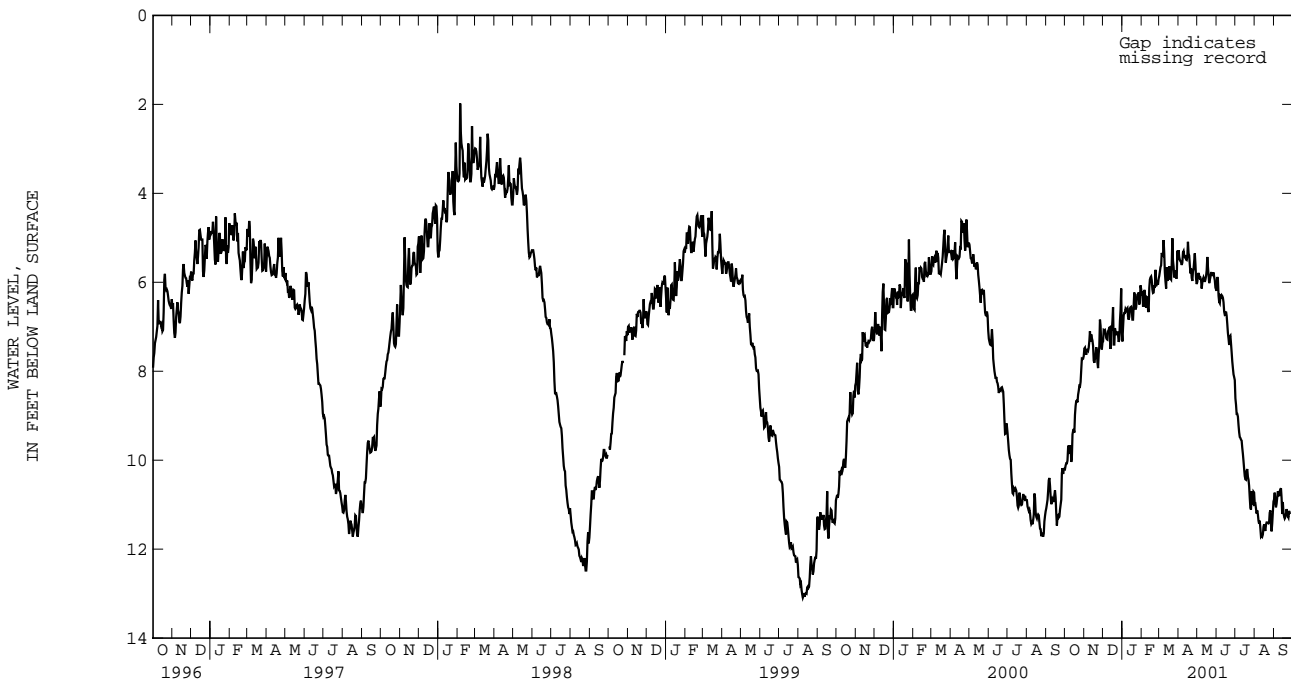
WORCESTER COUNTY--Continued

WO Bg 47--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.28	4.69	5.99	5.48	6.19	5.44	8.61	8.02	10.99	10.32	10.88	10.20
2	5.43	4.44	5.84	5.17	5.88	5.16	8.75	8.15	10.98	10.29	10.73	10.11
3	5.50	4.83	5.79	5.25	5.95	5.34	8.96	8.30	11.09	10.39	10.95	10.14
4	5.53	4.89	5.85	5.29	6.30	5.67	8.96	8.24	11.20	10.51	11.06	10.38
5	5.55	4.96	5.91	5.25	6.44	5.75	9.02	8.31	11.13	10.51	10.98	10.37
6	5.61	4.97	5.90	5.16	6.47	5.72	9.21	8.35	11.22	10.52	10.84	10.30
7	5.56	4.75	5.95	5.26	6.31	5.62	9.37	8.55	11.36	10.68	10.70	10.19
8	5.33	4.63	6.14	5.37	6.33	5.62	9.48	8.74	11.43	10.88	10.74	10.21
9	5.30	4.66	6.01	5.31	6.29	5.63	9.50	8.83	11.36	10.92	10.81	10.24
10	5.41	4.69	5.94	5.30	6.31	5.63	9.54	8.92	11.53	10.89	10.70	10.03
11	5.43	4.78	5.89	5.24	6.35	5.70	9.56	9.02	11.72	11.27	10.66	9.94
12	5.39	4.76	5.93	5.28	6.45	5.80	9.72	9.05	11.70	11.19	10.63	9.89
13	5.49	4.75	5.99	5.37	6.66	5.98	9.86	9.35	11.72	11.18	10.85	10.21
14	5.50	4.87	5.94	5.43	6.73	6.17	10.02	9.54	11.67	10.93	11.21	10.26
15	5.41	4.96	5.86	5.45	6.72	6.26	10.20	9.66	11.50	10.67	10.94	10.23
16	5.09	4.45	5.73	5.01	6.66	6.13	10.36	9.75	11.44	10.67	11.18	10.45
17	5.35	4.69	5.43	4.83	6.75	6.14	10.43	9.74	11.55	10.80	11.26	10.57
18	5.40	4.93	5.65	5.12	6.94	6.38	10.44	9.60	11.59	10.68	11.31	10.65
19	5.61	4.97	5.84	5.31	7.14	6.47	10.24	9.30	11.45	10.63	11.28	10.64
20	5.80	5.27	6.02	5.30	7.27	6.57	10.20	9.33	11.40	10.63	11.21	10.50
21	5.69	5.23	5.95	5.22	7.41	6.58	10.37	9.38	11.40	10.66	11.10	10.47
22	5.90	5.41	5.88	5.08	7.22	6.33	10.44	9.56	11.41	10.78	11.17	10.53
23	5.97	5.19	5.79	5.00	7.20	6.33	10.58	9.69	11.42	10.85	11.26	10.62
24	5.76	5.15	5.79	5.01	7.38	6.39	10.84	9.94	11.40	10.68	11.29	10.57
25	5.69	4.97	5.80	5.05	7.58	6.67	11.07	10.38	11.18	10.47	11.14	10.54
26	5.52	4.77	5.86	5.00	7.78	6.95	11.11	10.57	11.13	10.54	11.19	10.55
27	5.35	4.69	5.78	5.05	7.93	7.24	10.70	10.13	11.45	10.86	11.21	10.53
28	5.60	4.63	5.88	5.04	8.07	7.47	10.95	10.34	11.60	10.87	---	---
29	5.92	5.05	5.95	5.21	8.13	7.50	10.97	10.18	11.42	10.64	---	---
30	6.04	5.34	6.12	5.36	8.20	7.60	10.71	9.99	11.17	10.44	---	---
31	---	---	6.16	5.60	---	---	10.73	10.06	10.93	10.19	---	---
MONTH	6.04	4.44	6.16	4.83	8.20	5.16	11.11	8.02	11.72	10.19	11.31	9.89
YEAR	11.72	4.12										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 48. SITE ID.--382325075063302. PERMIT NUMBER.--WO-73-0521.

LOCATION.--Lat 38°23'25", long 75°06'33", Hydrologic Unit 02060010, at intersection of MD Rt. 90 and Isle of Wight Rd., Isle of Wight.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 420 ft; casing diameter 4 in., to 410 ft; screen diameter 2 in. from 410 to 420 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval from July 1985 to current year.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 3.87 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.54 ft below land surface, February 24, 1998; lowest measured, 14.53 ft below land surface, Aug. 8, and 9, 1999.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.07	10.51	7.88	7.28	7.57	7.05	7.40	7.01	6.40	5.84	5.85	5.43
2	10.96	10.37	7.74	7.15	7.31	6.88	7.11	6.54	6.30	5.71	5.76	5.38
3	10.91	10.39	7.78	7.23	7.31	6.91	6.84	6.37	6.59	5.90	5.67	5.14
4	10.92	10.36	7.88	7.38	7.29	6.86	6.78	6.33	6.60	5.96	5.61	4.80
5	10.85	10.20	7.85	7.39	7.35	6.90	6.78	6.30	6.25	5.38	5.34	4.23
6	10.54	10.00	7.88	7.43	7.45	7.10	6.68	6.09	6.30	5.36	5.38	4.75
7	10.49	10.02	7.89	7.41	7.47	7.04	6.73	6.14	6.56	6.02	5.42	4.57
8	10.61	10.14	7.82	7.21	7.49	6.91	6.71	5.94	6.62	5.96	5.11	4.47
9	10.50	9.96	7.68	7.11	7.31	6.68	6.67	5.92	6.38	5.63	5.37	4.73
10	10.42	10.01	7.48	6.83	7.27	6.58	6.89	6.34	6.36	5.63	5.80	5.13
11	10.80	10.26	7.67	7.06	7.20	6.53	6.95	6.23	6.64	6.04	5.99	5.44
12	10.75	9.92	7.55	6.79	7.22	6.31	6.90	6.23	6.70	6.19	6.14	5.46
13	10.23	9.66	7.60	6.94	7.68	7.06	6.74	6.05	6.19	5.67	5.66	5.11
14	10.06	9.52	7.64	6.90	7.21	6.43	6.69	6.21	5.96	5.59	5.92	5.00
15	9.91	9.37	7.75	7.09	7.28	6.74	6.68	6.22	5.92	5.37	5.86	5.47
16	9.88	9.14	8.06	7.44	7.07	6.31	6.76	6.09	5.89	5.42	5.72	5.31
17	9.50	8.79	8.09	7.47	6.75	5.75	6.97	6.39	5.99	5.11	5.63	5.22
18	9.37	8.70	8.04	7.48	7.56	6.75	6.97	6.38	6.20	5.70	5.91	5.31
19	9.35	8.74	7.92	7.34	7.56	6.86	6.68	6.03	6.26	5.77	5.91	5.45
20	9.37	8.71	7.75	7.13	7.22	6.63	6.38	5.75	6.21	5.77	5.91	5.40
21	9.38	8.75	7.82	7.33	7.28	6.88	6.53	5.66	6.05	5.54	5.59	4.38
22	9.18	8.48	8.05	7.61	7.28	6.71	6.77	6.35	6.11	5.33	5.03	4.26
23	9.05	8.47	8.16	7.57	7.35	6.84	6.74	6.16	5.72	5.23	5.48	4.99
24	8.90	8.41	7.88	7.23	7.26	6.71	6.53	5.92	6.09	5.61	5.62	5.17
25	8.88	8.37	7.67	6.93	7.31	6.81	6.42	5.85	6.03	5.38	5.87	5.26
26	8.77	8.08	7.09	6.30	7.46	6.82	6.42	5.83	5.95	5.38	5.70	5.26
27	8.48	7.80	7.19	6.57	7.37	6.80	6.35	5.80	6.04	5.58	5.79	5.26
28	8.21	7.59	7.57	7.07	6.99	6.42	6.61	6.19	5.92	5.46	5.86	5.39
29	8.21	7.62	7.74	7.11	6.76	6.04	6.56	5.99	---	---	5.85	5.14
30	8.18	7.58	7.58	7.11	6.25	5.70	6.17	5.61	---	---	5.25	4.81
31	8.10	7.43	---	---	7.19	6.07	6.24	5.72	---	---	5.45	4.72
MONTH	11.07	7.43	8.16	6.30	7.68	5.70	7.40	5.61	6.70	5.11	6.14	4.23

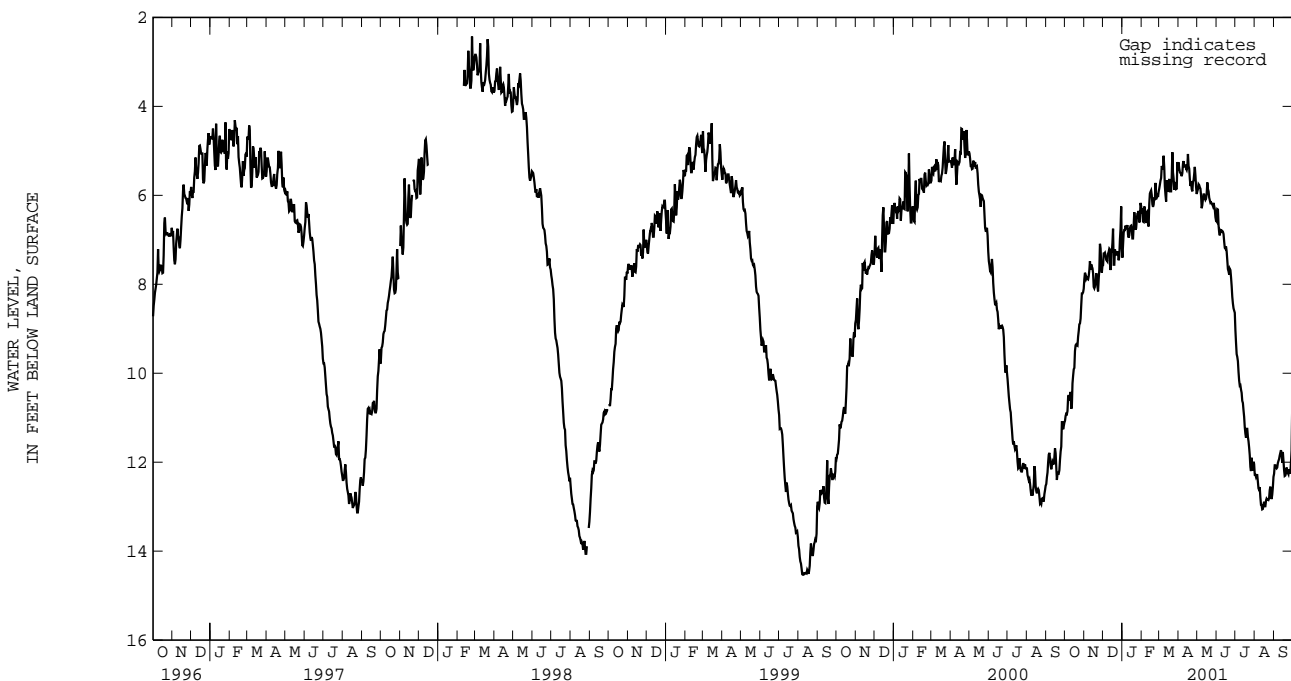
WORCESTER COUNTY--Continued

WO Bg 48--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.26	4.75	5.91	5.52	6.59	5.96	9.03	8.52	12.28	11.74	12.26	11.68
2	5.39	4.53	5.86	5.28	6.31	5.68	9.31	8.79	12.28	11.71	12.07	11.52
3	5.48	4.90	5.75	5.31	6.32	5.82	9.57	9.01	12.33	11.79	12.07	11.52
4	5.50	4.97	5.77	5.32	6.67	6.12	9.63	9.00	12.29	11.73	12.12	11.60
5	5.52	5.03	5.82	5.26	6.83	6.27	9.73	9.08	12.29	11.73	12.14	11.73
6	5.57	5.02	5.85	5.24	6.90	6.29	9.97	9.16	12.44	11.81	12.12	11.69
7	5.50	4.83	6.01	5.35	6.79	6.20	10.16	9.45	12.59	12.01	12.02	11.59
8	5.29	4.67	6.29	5.57	6.81	6.20	10.28	9.64	12.62	12.18	11.97	11.50
9	5.23	4.72	6.22	5.62	6.79	6.24	10.27	9.74	12.56	12.20	11.93	11.45
10	5.35	4.72	6.08	5.53	6.80	6.23	10.37	9.79	12.79	12.22	11.85	11.29
11	5.35	4.84	5.98	5.49	6.82	6.28	10.44	9.96	12.96	12.57	11.79	11.19
12	5.31	4.80	5.98	5.46	6.87	6.34	10.62	10.04	12.97	12.57	11.73	11.09
13	5.40	4.78	6.06	5.51	7.04	6.47	10.67	10.28	13.06	12.62	11.80	11.25
14	5.43	4.90	6.10	5.62	7.18	6.65	10.83	10.40	13.05	12.45	12.01	11.21
15	5.35	4.98	6.07	5.72	7.20	6.82	10.98	10.57	12.95	12.26	11.77	11.15
16	5.07	4.51	5.97	5.37	7.15	6.71	11.21	10.73	12.89	12.27	11.96	11.38
17	5.34	4.74	5.71	5.20	7.26	6.71	11.36	10.82	12.99	12.37	12.18	11.55
18	5.40	4.99	5.86	5.44	7.46	6.97	11.45	10.74	12.99	12.24	12.31	11.70
19	5.63	5.07	5.91	5.49	7.66	7.07	11.25	10.45	12.87	12.18	12.30	11.76
20	5.79	5.34	6.05	5.47	7.71	7.09	11.25	10.53	12.82	12.18	12.25	11.65
21	5.69	5.29	6.11	5.53	7.78	7.08	11.43	10.58	12.84	12.22	12.12	11.61
22	5.86	5.45	6.17	5.51	7.65	6.91	11.53	10.77	12.84	12.34	12.18	11.64
23	5.91	5.25	6.16	5.50	7.68	6.91	11.67	10.91	12.85	12.40	12.24	11.70
24	5.70	5.20	6.19	5.51	7.84	7.00	11.84	11.10	12.81	12.24	12.27	11.66
25	5.66	5.06	6.20	5.56	8.04	7.24	12.11	11.45	12.63	12.01	12.16	11.68
26	5.52	4.87	6.24	5.52	8.28	7.52	12.20	11.75	12.55	12.04	12.24	11.71
27	5.36	4.82	6.17	5.56	8.43	7.83	11.90	11.43	12.73	12.22	12.24	11.67
28	5.56	4.75	6.24	5.53	8.54	8.03	12.14	11.64	12.83	12.26	12.02	11.43
29	5.81	5.09	6.31	5.70	8.59	8.03	12.19	11.53	12.73	12.13	11.74	10.62
30	5.97	5.35	6.49	5.83	8.64	8.13	11.99	11.41	12.57	11.97	10.78	10.02
31	---	---	6.57	6.07	---	---	12.04	11.50	12.33	11.70	---	---
MONTH	5.97	4.51	6.57	5.20	8.64	5.68	12.20	8.52	13.06	11.70	12.31	10.02
YEAR	13.06	4.23										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 49. SITE ID.--382038075065901. PERMIT NUMBER.--WO-73-0520.

LOCATION.--Lat 38°20'38", long 75°06'59", Hydrologic Unit 020060010, near Keyser Point Rd., West Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 243 ft; casing diameter 4 in., to 233 ft; screen diameter 2 in. from 233 to 243 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, May 1985 to current year. Periodic measurements with chalked steel tape October 1975 to May 1985.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 2.13 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.. Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.42 ft below land surface, March 12, 1993; lowest measured, 24.84 ft below land surface, Aug. 16, 1988.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.56	20.19	18.33	18.03	17.03	16.59	16.68	16.11	13.48	13.32	13.89	13.76
2	20.59	20.38	18.03	17.76	16.59	16.39	16.73	16.54	13.37	13.17	13.79	13.62
3	20.48	20.36	17.91	17.70	16.53	16.43	16.54	16.11	13.70	13.33	13.81	13.61
4	20.45	20.25	18.08	17.90	16.52	16.33	16.11	15.76	13.91	13.70	13.81	13.59
5	20.26	20.04	18.44	18.08	16.33	16.04	15.76	15.35	13.87	13.56	13.59	13.31
6	20.08	19.85	18.46	18.39	16.04	15.75	15.38	15.00	13.74	13.43	13.51	13.28
7	19.99	19.85	18.46	18.08	15.85	15.68	15.19	15.04	13.79	13.71	13.35	13.03
8	20.09	19.97	18.08	17.65	15.72	15.44	15.21	15.03	13.82	13.58	13.07	12.88
9	20.09	19.16	17.65	17.24	15.52	15.36	15.10	14.70	13.68	13.46	13.05	12.97
10	19.16	18.19	17.25	16.92	15.47	15.33	14.83	14.72	13.77	13.50	13.52	12.98
11	18.19	17.91	17.24	16.90	15.44	15.09	14.86	14.63	14.29	13.77	13.99	13.52
12	18.26	18.02	17.67	17.24	15.11	14.87	14.78	14.59	14.41	14.29	14.17	13.99
13	18.32	18.22	17.79	17.61	15.23	15.08	14.78	14.68	14.30	13.99	14.08	13.81
14	18.45	18.28	17.63	17.19	15.08	14.71	14.98	14.78	13.99	13.80	13.94	13.76
15	18.84	18.45	17.19	17.03	14.91	14.74	15.08	14.96	13.85	13.63	13.87	13.67
16	19.00	18.32	17.10	16.93	14.79	14.47	15.08	14.96	13.63	13.40	13.96	13.66
17	18.32	17.00	17.02	16.87	14.51	14.25	15.00	14.65	13.74	13.35	14.36	13.91
18	17.00	16.01	17.05	16.78	14.92	14.49	14.65	14.52	14.35	13.74	14.98	14.36
19	16.01	15.52	17.22	17.05	14.93	14.82	14.52	14.10	14.59	14.35	14.98	14.94
20	16.52	15.64	17.22	16.85	14.86	14.70	14.11	13.65	14.63	14.38	14.95	14.56
21	17.37	16.52	16.90	16.61	14.92	14.77	14.27	13.72	14.38	14.29	14.58	14.00
22	17.88	17.37	16.76	16.63	14.77	14.54	14.35	14.24	14.29	13.83	14.00	13.75
23	18.22	17.88	16.65	16.47	14.65	14.41	14.36	14.10	13.83	13.62	14.18	13.90
24	18.22	17.99	16.58	16.33	14.42	14.14	14.10	13.85	14.03	13.64	14.58	14.18
25	18.09	18.00	16.89	16.58	15.03	14.38	13.88	13.71	14.20	14.03	14.88	14.58
26	18.01	17.86	17.12	16.85	15.14	14.69	13.79	13.61	14.37	14.20	14.97	14.88
27	17.91	17.79	17.17	17.00	15.30	14.76	13.80	13.59	14.39	14.17	14.98	14.95
28	18.17	17.89	17.17	16.90	15.38	15.25	14.18	13.80	14.17	13.89	14.97	14.74
29	18.45	18.17	17.40	17.09	15.44	15.30	14.17	13.95	---	---	14.76	14.51
30	18.62	18.45	17.32	17.03	15.45	15.32	13.95	13.58	---	---	14.51	14.27
31	18.52	18.26	---	---	16.11	15.45	13.58	13.48	---	---	14.32	14.16
MONTH	20.59	15.52	18.46	16.33	17.03	14.14	16.73	13.48	14.63	13.17	14.98	12.88



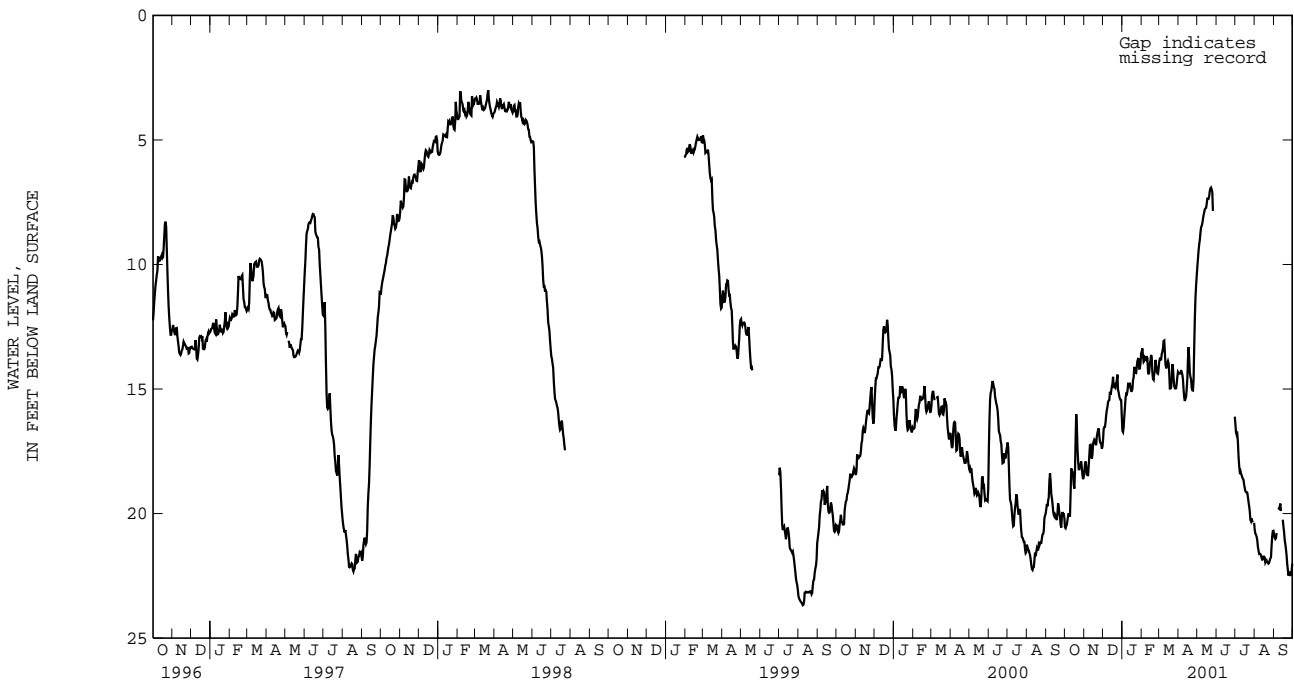
WORCESTER COUNTY--Continued

WO Bg 49--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.37	14.30	10.11	9.77	---	---	16.41	16.11	20.66	20.37	20.87	20.59
2	14.38	14.25	9.77	9.44	---	---	16.74	16.41	20.81	20.66	20.97	20.87
3	14.38	14.34	9.44	9.19	---	---	16.84	16.74	20.85	20.74	21.02	20.94
4	14.37	14.20	9.19	8.99	---	---	16.80	16.75	20.93	20.80	20.98	20.78
5	14.24	14.14	9.01	8.71	---	---	17.13	16.77	21.06	20.92	20.78	20.21
6	14.33	14.16	8.73	8.41	---	---	17.69	17.13	21.33	21.04	---	---
7	14.42	14.33	8.51	8.34	---	---	18.07	17.69	21.48	21.29	19.78	19.68
8	14.62	14.41	8.45	8.29	---	---	18.32	18.06	21.62	21.45	19.79	19.70
9	15.03	14.62	8.35	8.15	---	---	18.28	18.21	21.61	21.49	19.81	19.67
10	15.34	15.03	8.18	7.97	---	---	18.40	18.28	21.63	21.43	19.72	19.42
11	15.48	15.34	8.02	7.86	---	---	18.46	18.35	21.67	21.61	19.60	19.36
12	15.39	15.27	7.91	7.76	---	---	18.55	18.44	21.78	21.66	19.90	19.60
13	15.31	15.00	7.78	7.68	---	---	18.60	18.51	21.85	21.75	---	---
14	15.00	14.57	7.75	7.62	---	---	18.65	18.54	21.84	21.73	20.26	20.07
15	14.57	13.82	7.73	7.57	---	---	18.84	18.65	21.73	21.58	20.28	20.12
16	13.82	13.32	7.58	7.35	---	---	18.98	18.84	21.73	21.57	20.52	20.25
17	13.32	13.13	7.36	7.21	---	---	19.10	18.96	21.77	21.62	20.75	20.47
18	13.78	13.26	7.36	7.24	---	---	19.14	19.03	21.97	21.77	21.06	20.75
19	14.35	13.78	7.36	7.19	---	---	19.14	18.98	21.92	21.80	21.23	21.00
20	14.52	14.35	7.26	7.05	---	---	19.16	18.98	21.88	21.78	21.43	21.22
21	14.61	14.48	7.05	6.91	---	---	19.33	19.06	21.95	21.80	21.67	21.43
22	14.96	14.61	6.94	6.76	---	---	19.53	19.30	21.98	21.91	22.03	21.67
23	15.05	14.96	6.91	6.76	---	---	19.70	19.46	22.01	21.95	22.25	22.03
24	15.06	14.62	6.99	6.85	---	---	19.90	19.66	21.98	21.87	22.49	22.25
25	14.62	13.34	7.10	6.92	---	---	20.25	19.88	21.88	21.72	22.41	22.31
26	13.34	12.20	7.85	7.08	---	---	20.31	20.18	21.80	21.72	22.38	22.28
27	12.20	11.36	---	---	---	---	20.20	20.04	21.76	21.28	22.47	22.31
28	11.36	10.86	---	---	---	---	20.31	20.13	21.28	20.91	22.46	22.38
29	10.86	10.47	---	---	---	---	20.35	20.18	20.91	20.64	22.38	22.01
30	10.47	10.11	---	---	16.11	15.63	---	---	20.70	20.65	22.01	21.66
31	---	---	---	---	---	---	20.37	20.19	20.69	20.57	---	---
MONTH	15.48	10.11	10.11	6.76	16.11	15.63	20.37	16.11	22.01	20.37	22.49	19.36
YEAR	22.49	6.76										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 31. SITE ID.--382215075041801. PERMIT NUMBER.--WO-04-9586.

LOCATION.--Lat 38°22'15", long 75°04'18", Hydrologic Unit 020060010, at 44th St., Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 278 ft; casing diameter 4 in., to 263 ft; screen diameter 3 in. from 263 to 278 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Periodic measurements with chalked steel tape September 1970 to May 1985. Equipped with digital water-level recorder--60-minute recording interval, May 1985 to current year.

DATUM.--Elevation of land surface is 5.59 ft above sea level.

Measuring Point: Top of shelter platform, 2.49 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft below land surface, March 13, 1993; lowest measured, 51.44 ft below land surface, August 16, 1998.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	42.23	34.06	13.75	12.79	12.90	11.95	12.28	11.50	10.61	9.62	10.09	9.27
2	---	---	13.49	12.58	12.50	11.72	11.73	10.89	10.37	9.46	9.97	9.08
3	39.70	31.13	13.46	12.62	12.47	11.71	11.45	10.74	10.92	9.59	9.82	8.85
4	37.56	27.61	13.55	12.75	12.48	11.67	11.48	10.66	10.77	9.76	9.36	8.49
5	32.02	25.16	13.49	12.69	12.57	11.73	11.34	10.52	10.44	9.05	9.37	7.73
6	37.68	27.02	13.62	12.77	12.74	11.94	11.37	10.12	13.84	8.96	9.39	8.24
7	38.86	25.93	13.61	12.74	12.75	11.83	11.37	10.14	11.23	9.75	9.38	7.87
8	37.62	33.24	13.58	12.47	12.73	11.57	11.32	9.81	11.23	9.58	9.24	7.83
9	37.40	30.56	13.43	12.35	12.47	11.21	11.29	9.64	10.80	9.26	9.49	8.14
10	30.56	22.26	13.22	11.96	12.48	11.03	11.53	10.17	10.71	9.38	10.05	8.69
11	23.35	20.18	13.38	12.10	12.38	10.90	11.63	10.03	10.99	9.78	10.42	9.18
12	24.79	19.44	13.12	11.72	12.35	10.56	11.51	10.02	11.06	9.74	10.59	9.13
13	25.76	19.40	13.29	11.95	12.90	11.52	11.16	9.76	10.26	9.45	10.01	8.64
14	32.59	21.55	13.36	11.91	12.25	10.81	11.11	10.03	10.04	9.38	10.19	8.59
15	31.46	22.01	13.42	12.06	12.35	11.13	11.04	10.06	9.93	9.11	10.15	9.21
16	26.39	19.51	13.82	12.57	12.03	10.65	11.09	9.89	10.31	9.13	10.01	9.09
17	21.35	15.89	13.85	12.60	11.68	10.11	11.33	10.27	10.20	8.70	9.94	9.11
18	16.22	14.30	13.69	12.63	12.62	11.40	11.10	10.27	10.57	9.44	10.21	9.27
19	15.15	13.67	13.52	12.45	12.36	11.30	10.83	9.79	10.74	9.67	10.28	9.39
20	18.34	14.72	13.30	12.17	12.22	10.84	10.54	9.36	10.76	9.84	10.27	9.36
21	21.94	15.10	13.56	12.43	12.21	11.32	10.91	9.14	10.56	9.57	9.93	8.23
22	21.94	16.07	13.88	12.71	12.20	11.08	11.01	10.05	10.58	9.31	9.41	7.98
23	16.54	14.98	13.90	12.61	12.22	11.07	10.95	9.83	10.13	9.10	9.73	8.76
24	15.88	14.62	13.41	12.12	12.08	10.97	10.71	9.54	10.64	9.68	10.02	9.04
25	15.65	14.41	13.19	11.89	12.12	11.03	10.63	9.43	10.51	9.39	10.38	9.24
26	15.36	13.95	12.47	11.05	12.33	11.04	10.53	9.44	10.37	9.39	10.18	9.17
27	14.91	13.56	12.57	11.35	12.34	11.26	10.46	9.48	10.47	9.45	10.28	9.34
28	14.45	13.21	12.96	11.93	11.78	10.59	10.84	9.96	10.25	9.28	11.67	9.46
29	14.29	13.15	13.15	12.02	11.38	10.21	10.76	9.74	---	---	10.54	8.91
30	14.20	13.07	12.93	11.96	10.76	9.75	10.38	9.41	---	---	9.55	8.58
31	14.07	12.94	---	---	12.05	10.33	10.45	9.55	---	---	9.74	8.51
MONTH	42.23	12.94	13.90	11.05	12.90	9.75	12.28	9.14	13.84	8.70	11.67	7.73

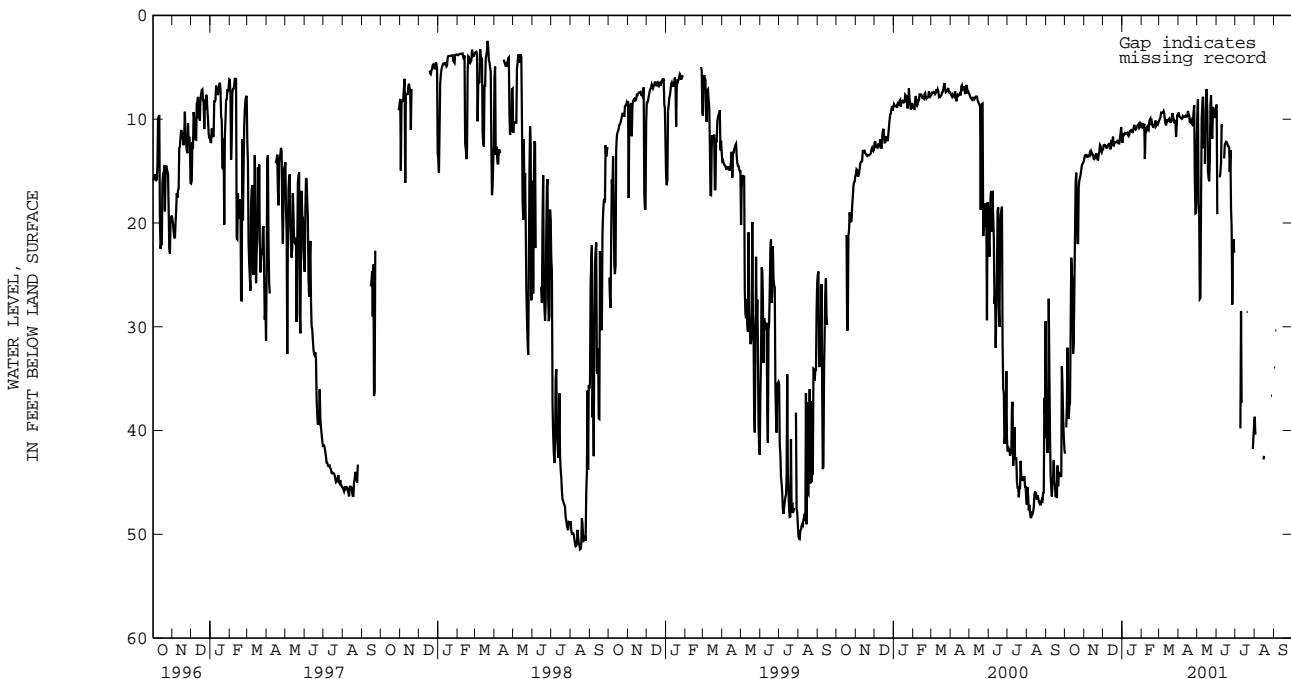
WORCESTER COUNTY--Continued

WO Bh 31--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.35	8.56	9.77	8.03	8.59	7.20	---	---	38.67	26.12	33.92	21.90
2	9.65	8.23	8.10	7.12	19.15	7.10	---	---	40.40	26.14	---	---
3	9.79	8.67	18.08	6.90	---	---	---	---	---	---	30.37	24.77
4	9.83	8.67	19.14	8.05	---	---	---	---	---	---	---	---
5	9.92	8.74	27.32	11.41	---	---	---	---	---	---	---	---
6	9.98	8.75	27.23	12.46	15.60	10.86	---	---	---	---	---	---
7	9.93	8.46	17.45	9.11	15.10	10.35	---	---	---	---	---	---
8	9.70	8.41	9.86	7.94	14.19	9.54	---	---	---	---	---	---
9	9.76	8.47	8.71	7.10	10.51	9.55	39.79	24.85	---	---	---	---
10	9.78	8.59	7.84	6.54	10.68	9.67	28.50	24.84	---	---	---	---
11	9.76	8.59	12.81	6.54	---	---	37.33	23.04	---	---	---	---
12	9.67	8.60	---	---	---	---	---	---	---	---	---	---
13	9.75	8.63	14.32	9.01	13.77	12.30	---	---	---	---	---	---
14	9.76	8.78	9.40	7.68	12.46	11.89	---	---	---	---	---	---
15	9.64	8.79	7.74	7.08	12.30	11.57	---	---	42.79	27.92	---	---
16	9.21	8.28	7.09	6.16	12.17	11.29	---	---	42.44	27.87	---	---
17	9.49	8.50	9.30	5.82	12.20	11.18	---	---	---	---	---	---
18	9.69	8.70	14.95	9.30	12.36	11.46	---	---	---	---	---	---
19	10.28	8.95	15.69	9.01	12.59	11.41	28.57	23.72	---	---	---	---
20	10.30	9.33	15.98	10.12	12.60	11.53	---	---	---	---	---	---
21	10.14	9.24	14.03	8.10	12.73	11.49	---	---	---	---	---	---
22	10.45	9.45	8.66	6.81	15.09	11.76	---	---	---	---	---	---
23	10.52	9.19	7.70	6.39	12.96	11.61	---	---	---	---	---	---
24	10.26	8.47	11.38	6.50	18.57	11.65	---	---	---	---	---	---
25	9.25	7.76	11.87	7.24	20.47	15.34	---	---	---	---	---	---
26	8.65	6.89	8.82	7.25	27.86	17.52	---	---	---	---	---	---
27	15.86	6.90	9.15	7.78	22.50	17.01	---	---	36.64	27.21	---	---
28	19.07	6.89	9.58	8.22	21.56	17.32	---	---	---	---	---	---
29	19.02	9.25	9.88	8.75	22.87	17.42	41.78	27.78	---	---	---	---
30	12.42	8.72	9.31	8.44	---	---	40.45	25.47	---	---	---	---
31	---	---	8.79	7.86	---	---	39.47	26.27	---	---	---	---
MONTH	19.07	6.89	27.32	5.82	27.86	7.10	41.78	23.04	42.79	26.12	33.92	21.90
YEAR	42.79	5.82										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 34. SITE ID.382443075033501. PERMIT NUMBER.--WO-04-9588.  
 LOCATION.--Lat 38°24'43", long 75°03'35", Hydrologic Unit 02060010, north side of 100th St., 0.2 mi west of MD Rt. 528, Ocean City.  
 Owner: Town of Ocean City.  
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 353 ft; casing diameter 4 in., to 316.2 ft, casing diameter 2.5 in. from 316.2 to 337 ft; screen diameter 3 in. from 337 to 353 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval April 1985 to current year. Prior to April 1985, periodic measurements with chalked steel tape.  
 DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.  
 Measuring point: Top of recorder shelf, 2.86 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.  
 PERIOD OF RECORD.--December 1972 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.54 ft above land surface, March 27, 1973; lowest measured, 19.04 ft below land surface, Sept. 5, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.31	8.33	6.44	5.57	5.81	5.03	5.76	5.06	4.70	3.86	4.16	3.47
2	9.06	8.10	6.15	5.34	5.48	4.85	5.22	4.53	4.56	3.74	4.06	3.36
3	8.96	8.12	6.11	5.37	5.49	4.87	4.98	4.39	5.06	3.86	3.96	3.15
4	8.91	8.12	6.18	5.49	5.51	4.83	5.03	4.32	4.93	4.04	3.54	2.81
5	8.87	8.03	6.11	5.44	5.63	4.89	4.94	4.20	4.65	3.36	3.54	2.01
6	8.58	7.86	6.23	5.49	5.81	5.11	5.01	3.88	5.13	3.28	3.57	2.49
7	8.58	7.84	6.23	5.45	5.87	5.03	5.01	3.91	5.25	3.98	3.57	2.13
8	8.69	7.97	6.17	5.19	5.87	4.83	4.98	3.63	5.39	3.92	3.45	2.12
9	8.59	7.73	6.06	5.06	5.68	4.58	5.00	3.51	5.11	3.62	3.77	2.44
10	9.05	8.01	5.91	4.74	5.74	4.42	5.30	4.05	5.06	3.77	4.24	2.99
11	9.90	8.86	6.07	4.91	5.66	4.32	5.40	3.95	5.37	4.16	4.52	3.39
12	9.94	8.72	5.86	4.54	5.77	3.99	5.38	4.02	5.43	4.08	4.69	3.29
13	9.46	8.40	6.04	4.77	6.22	4.97	5.12	3.85	4.65	3.81	4.09	2.89
14	9.27	8.14	6.07	4.73	5.62	4.34	5.09	4.13	4.43	3.73	4.25	2.89
15	8.93	7.83	6.13	4.92	5.75	4.66	5.02	4.14	4.29	3.47	4.22	3.43
16	8.72	7.48	6.49	5.40	5.47	4.22	5.06	4.00	4.14	3.51	3.98	3.29
17	8.28	7.20	6.54	5.47	5.23	3.73	5.29	4.35	4.38	3.07	3.86	3.23
18	8.68	7.61	6.46	5.56	6.07	4.94	5.10	4.37	4.64	3.74	4.15	3.34
19	9.19	8.18	6.32	5.42	5.83	4.89	4.86	3.94	4.72	3.87	4.26	3.46
20	9.34	8.33	6.18	5.16	5.76	4.54	4.58	3.57	4.74	3.95	4.26	3.52
21	9.27	8.22	6.49	5.44	5.76	4.96	4.95	3.35	4.54	3.69	4.03	2.50
22	8.86	7.66	6.82	5.76	5.82	4.76	5.05	4.22	4.51	3.42	3.53	2.22
23	8.56	7.50	6.84	5.71	5.84	4.89	5.01	4.04	4.09	3.18	3.87	3.02
24	8.34	7.32	6.42	5.28	5.78	4.78	4.78	3.76	4.56	3.73	4.16	3.31
25	8.27	7.19	6.24	5.09	5.88	4.86	4.70	3.68	4.41	3.43	4.49	3.46
26	8.06	6.79	5.58	4.26	6.00	4.91	4.62	3.70	4.31	3.48	4.25	3.34
27	7.66	6.42	5.63	4.52	5.99	5.03	4.63	3.72	4.44	3.62	4.34	3.49
28	7.22	6.07	5.95	5.04	5.42	4.46	4.93	4.19	4.31	3.48	4.51	3.59
29	7.07	6.02	6.09	5.10	5.04	4.06	4.85	3.96	---	---	4.55	3.10
30	6.91	5.91	5.83	5.05	4.48	3.60	4.47	3.60	---	---	3.79	3.01
31	6.76	5.73	---	---	5.60	4.09	4.54	3.75	---	---	4.07	2.96
MONTH	9.94	5.73	6.84	4.26	6.22	3.60	5.76	3.35	5.43	3.07	4.69	2.01

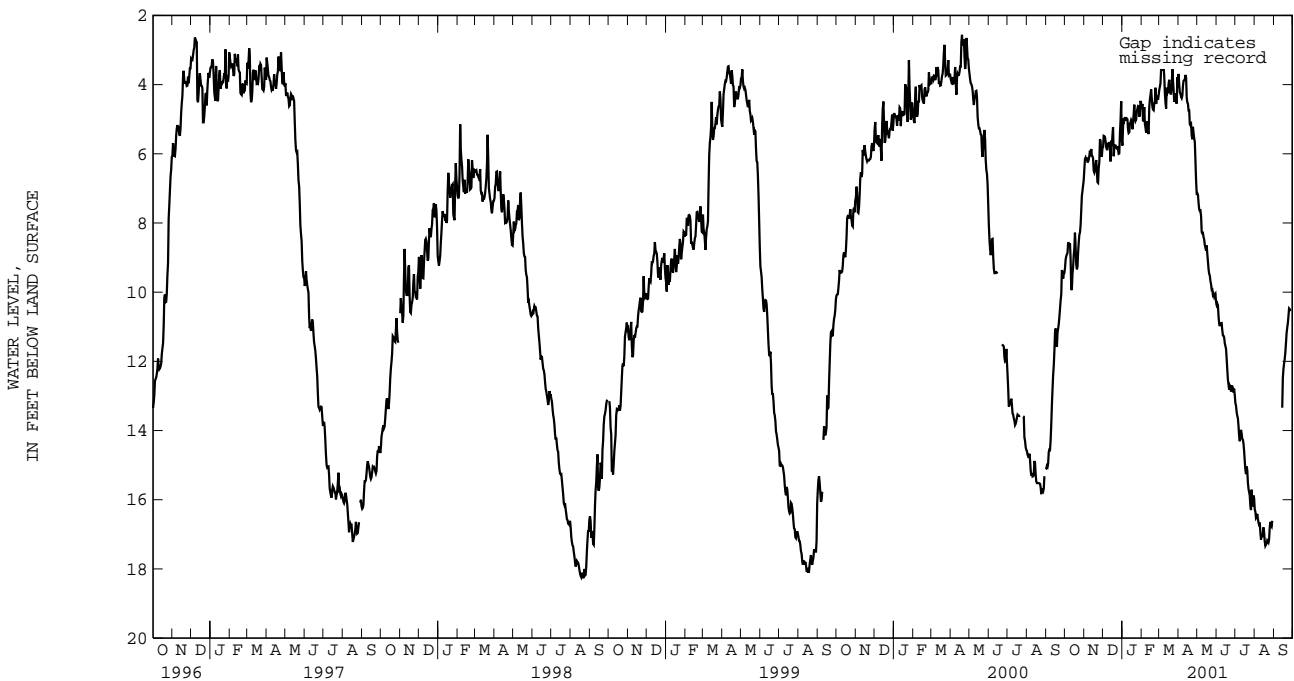
WORCESTER COUNTY--Continued

WO Bh 34--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.69	3.03	7.14	6.39	10.37	9.38	13.21	12.28	16.28	15.33	---	---
2	3.99	2.64	7.19	6.18	10.33	9.25	13.28	12.35	16.35	15.41	---	---
3	4.23	3.21	7.42	6.42	10.39	9.43	13.47	12.49	16.53	15.62	---	---
4	4.27	3.27	7.61	6.60	10.70	9.77	13.57	12.51	16.50	15.49	---	---
5	4.35	3.30	7.65	6.50	10.91	9.84	13.65	12.67	16.41	15.57	---	---
6	4.39	3.26	7.64	6.47	10.98	9.89	13.87	13.00	16.54	15.75	---	---
7	4.32	2.90	7.80	6.81	10.90	9.86	14.15	13.20	16.67	15.84	---	---
8	4.03	2.72	8.26	7.21	10.91	9.93	14.31	13.36	16.72	15.97	---	---
9	3.89	2.75	8.30	7.25	10.90	9.94	14.13	13.27	16.66	15.99	---	---
10	3.87	2.82	8.29	7.34	11.10	10.08	13.98	13.27	16.94	16.05	---	---
11	3.85	2.81	8.41	7.35	11.25	10.40	14.08	13.35	17.15	16.47	---	---
12	3.72	2.81	8.48	7.59	11.26	10.58	14.24	13.46	17.03	16.34	---	---
13	3.79	2.81	8.64	7.75	11.31	10.59	14.27	13.67	17.08	16.26	---	---
14	4.37	3.14	8.71	7.99	11.48	10.77	14.38	13.78	16.97	15.98	13.34	11.65
15	4.52	3.86	8.80	8.17	11.56	10.98	14.60	13.92	16.80	15.69	12.48	11.02
16	4.55	3.67	8.65	8.10	11.64	10.99	14.88	14.06	16.95	15.80	12.22	10.82
17	4.75	3.99	8.90	8.00	11.92	11.04	15.14	14.18	17.20	16.02	12.06	10.72
18	4.75	4.09	9.11	8.42	12.24	11.36	15.26	14.09	17.33	15.95	11.93	10.59
19	5.15	4.09	9.34	8.50	12.53	11.44	15.04	13.67	17.29	15.97	11.75	10.47
20	5.18	4.42	9.47	8.55	12.68	11.54	15.14	13.80	17.27	15.98	11.48	10.25
21	5.15	4.41	9.52	8.49	12.82	11.50	15.50	14.19	17.18	16.10	11.19	10.12
22	5.47	4.61	9.68	8.50	12.69	11.33	15.69	14.40	17.21	16.13	11.03	10.03
23	5.58	4.33	9.77	8.58	12.72	11.48	15.78	14.53	17.24	16.27	10.90	9.94
24	5.22	4.22	9.93	8.75	12.87	11.55	15.88	14.63	17.14	16.06	10.70	9.74
25	5.41	4.40	9.92	8.80	12.72	11.67	16.18	15.03	16.81	15.80	10.47	9.65
26	5.55	4.43	10.08	8.81	12.72	11.66	16.30	15.22	16.64	15.80	10.49	9.68
27	5.66	4.43	10.05	8.95	12.77	11.83	15.71	14.93	16.75	15.89	10.55	9.68
28	6.20	4.73	10.13	8.99	12.90	12.03	16.07	15.23	16.78	15.83	---	---
29	6.76	5.47	10.08	9.18	12.79	11.85	16.19	15.15	16.61	15.71	---	---
30	7.15	6.02	10.05	9.10	12.98	12.04	15.88	14.91	---	---	---	---
31	---	---	10.28	9.31	---	---	15.96	15.03	---	---	---	---
MONTH	7.15	2.64	10.28	6.18	12.98	9.25	16.30	12.28	17.33	15.33	13.34	9.65
YEAR	17.33	2.01										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 84. SITE ID.--382215075041901. PERMIT NUMBER.--WO-73-0095.  
 LOCATION.--Lat 38°22'15", long 75°04'20", Hydrologic Unit 02060010, west end of 44th St., Ocean City.  
 Owner: U.S. Geological Survey.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.  
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 89 ft; casing diameter 4 in., to 84 ft; screen diameter 4 in. from 84 to 89 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.55 ft above land surface.

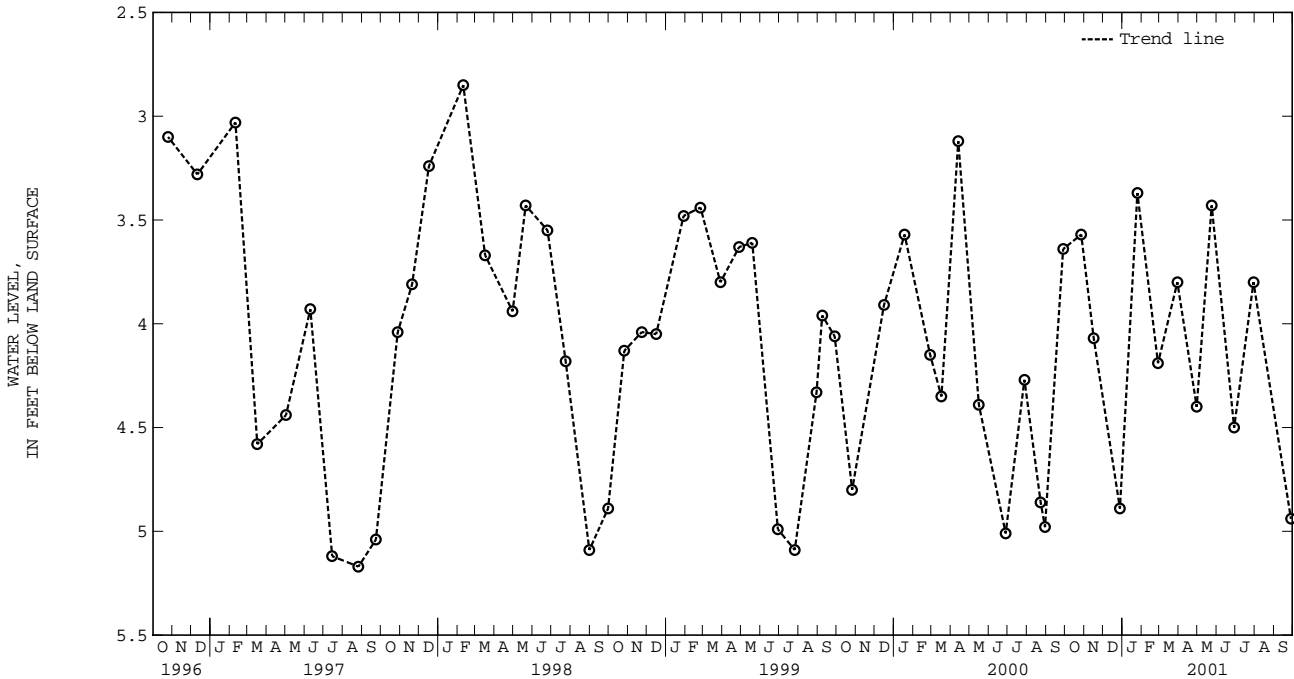
REMARKS.--Ocean City ground-water monitoring network well.

PERIOD OF RECORD.--April 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft below land surface, Jan. 11, 1993;  
 lowest measured, 6.34 ft below land surface, Sept. 17, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	3.57	JAN 25, 2001	3.37	APR 30, 2001	4.40	JUL 30, 2001	3.80
NOV 16	4.07	FEB 27	4.19	MAY 24	3.43	SEP 28	4.94
DEC 28	4.89	MAR 30	3.80	JUN 29	4.50		
WATER YEAR 2001 HIGHEST		3.37 JAN 25, 2001	LOWEST		4.94	SEP 28, 2001	



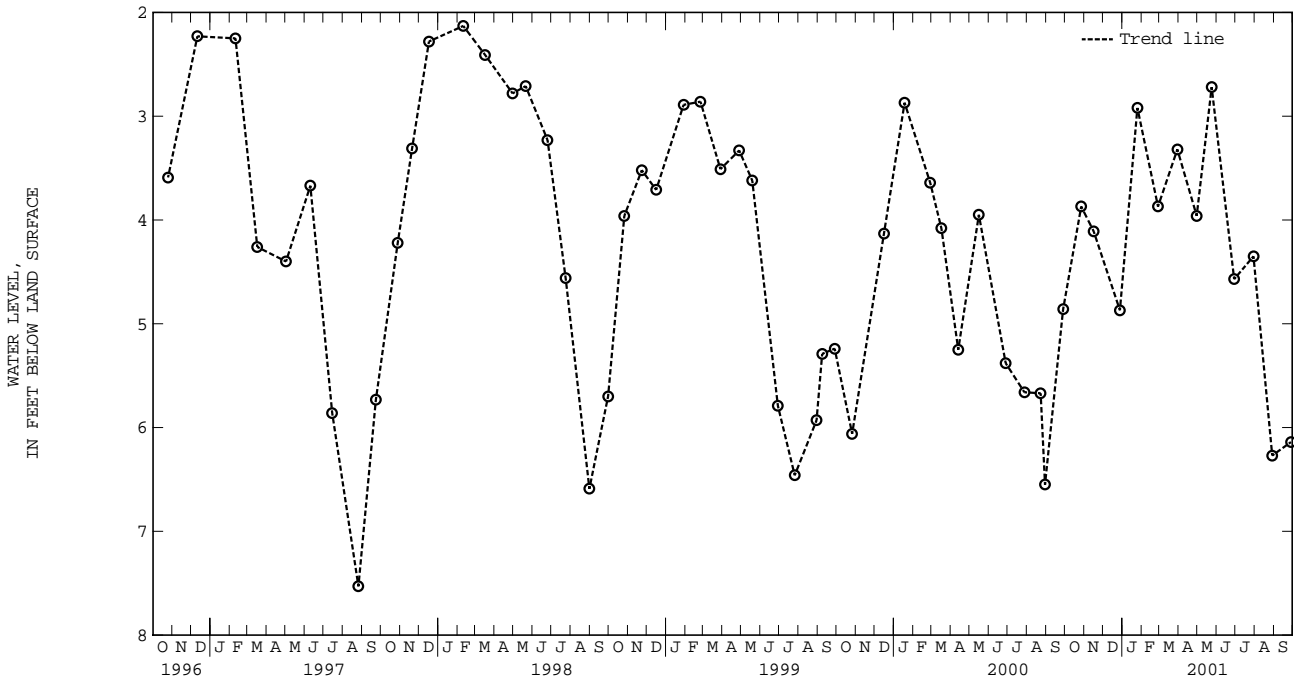
5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 85. SITE ID.--382215075041902. PERMIT NUMBER.--WO-73-0094.  
 LOCATION.--Lat 38°22'15", long 75°04'19", Hydrologic Unit 02060010, west end of 44th St., Ocean City.  
 Owner: U.S. Geological Survey.  
 AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.  
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 195 ft; casing diameter 4 in., to 190 ft; screen diameter 4 in. from 190 to 195 ft.  
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.  
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.  
 Measuring point: Top of 4 in. casing, 1.78 ft above land surface.  
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.  
 PERIOD OF RECORD.--April 1973 to current year.  
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.43 ft below land surface, Jan. 11, 1993;  
 lowest measured, 7.53 ft below land surface, August 26, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	3.87	JAN 25, 2001	2.92	APR 30, 2001	3.96	JUL 30, 2001	4.35
NOV 16	4.11	FEB 27	3.87	MAY 24	2.72	AUG 29	6.27
DEC 28	4.87	MAR 30	3.32	JUN 29	4.57	SEP 28	6.14
WATER YEAR 2001 HIGHEST		2.72 MAY 24, 2001	LOWEST		6.27 AUG 29, 2001		



5 YEAR HYDROGRAPH  
 OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 89. SITE ID.--382215075041903 PERMIT NUMBER.--WO-81-1497.

LOCATION.--Lat 38°22'15", long 75°04'19", Hydrologic Unit 020060010, at 44th St., Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 510 ft; casing diameter 4 in., to 388 ft; 408 to 413 ft, 423 to 433 ft, 443 to 464 ft, and 474 to 495 ft; screen diameter 4 in. from 388 to 408 ft, 413 to 423 ft, 433 to 443 ft, 464 to 474 ft, and 495 to 510 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, October 1986 to current year.

DATUM.--Elevation of land surface is 5.59 ft above sea level.

Measuring Point: Top of recorder shelf, 2.84 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.42 ft below land surface, Oct. 8, 1993;  
lowest recorded, 40.65 ft below land surface, Aug. 17, 1998.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	32.60	30.30	12.34	11.51	11.45	10.63	10.87	10.22	9.24	8.41	8.75	8.07
2	30.80	28.23	12.07	11.28	11.07	10.43	10.36	9.63	9.02	8.26	8.62	7.93
3	30.22	27.35	12.04	11.31	11.02	10.41	10.08	9.47	9.58	8.39	8.48	7.64
4	28.22	26.02	12.12	11.44	11.05	10.38	10.11	9.40	9.54	8.55	8.14	7.29
5	26.09	23.64	12.06	11.37	11.14	10.42	10.03	9.29	9.14	7.84	8.02	6.56
6	28.22	24.99	12.19	11.45	11.31	10.63	10.00	8.90	9.62	7.77	8.03	7.02
7	29.92	24.00	12.19	11.41	11.31	10.51	10.00	8.92	9.77	8.54	8.04	6.70
8	29.92	25.40	12.12	11.17	11.31	10.28	9.94	8.59	9.85	8.46	7.81	6.66
9	28.82	26.97	11.97	11.04	11.02	9.95	9.92	8.44	9.53	8.16	8.12	6.95
10	26.97	21.18	11.75	10.66	11.04	9.77	10.15	8.97	9.48	8.28	8.68	7.49
11	21.18	18.75	11.94	10.80	10.93	9.63	10.23	8.83	9.80	8.63	9.03	7.97
12	21.20	18.14	11.67	10.43	10.94	9.30	10.13	8.80	9.89	8.63	9.20	7.91
13	22.08	18.05	11.83	10.65	11.47	10.26	9.78	8.55	9.10	8.31	8.65	7.47
14	24.04	20.04	11.90	10.60	10.81	9.56	9.72	8.80	8.88	8.23	8.82	7.40
15	23.66	20.44	11.97	10.73	10.91	9.87	9.66	8.82	8.75	7.93	8.78	8.00
16	22.67	18.57	12.36	11.26	10.61	9.39	9.71	8.65	8.61	7.95	8.63	7.86
17	18.57	15.05	12.39	11.28	10.30	8.88	9.97	9.02	8.84	7.51	8.58	7.87
18	15.26	13.54	12.25	11.33	11.17	10.10	9.86	9.03	9.18	8.21	8.86	8.04
19	13.89	12.74	12.08	11.13	11.04	10.00	9.55	8.57	9.31	8.43	8.93	8.16
20	15.20	13.46	11.86	10.87	10.80	9.58	9.20	8.14	9.35	8.60	8.93	8.15
21	18.21	13.83	12.12	11.14	10.80	10.01	9.49	7.91	9.17	8.34	8.59	7.04
22	18.24	14.74	12.39	11.40	10.78	9.81	9.63	8.82	9.20	8.08	8.01	6.81
23	15.19	13.71	12.43	11.32	10.82	9.86	9.58	8.62	8.77	7.88	8.35	7.53
24	14.47	13.35	11.99	10.84	10.67	9.71	9.34	8.34	9.26	8.47	8.65	7.83
25	14.23	13.12	11.76	10.62	10.73	9.75	9.27	8.23	9.13	8.18	9.00	8.02
26	13.95	12.67	11.04	9.78	10.92	9.79	9.17	8.25	9.00	8.19	8.81	7.95
27	13.49	12.30	11.13	10.05	10.92	9.97	9.14	8.27	9.10	8.25	8.93	8.04
28	13.02	11.93	11.51	10.61	10.39	9.33	9.48	8.74	8.89	8.09	9.48	8.16
29	12.88	11.88	11.69	10.68	10.04	9.00	9.40	8.53	---	---	9.20	7.74
30	12.77	11.79	11.47	10.64	9.40	8.54	9.03	8.19	---	---	8.25	7.45
31	12.64	11.65	---	---	10.66	9.05	9.09	8.32	---	---	8.41	7.36
MONTH	32.60	11.65	12.43	9.78	11.47	8.54	10.87	7.91	9.89	7.51	9.48	6.56



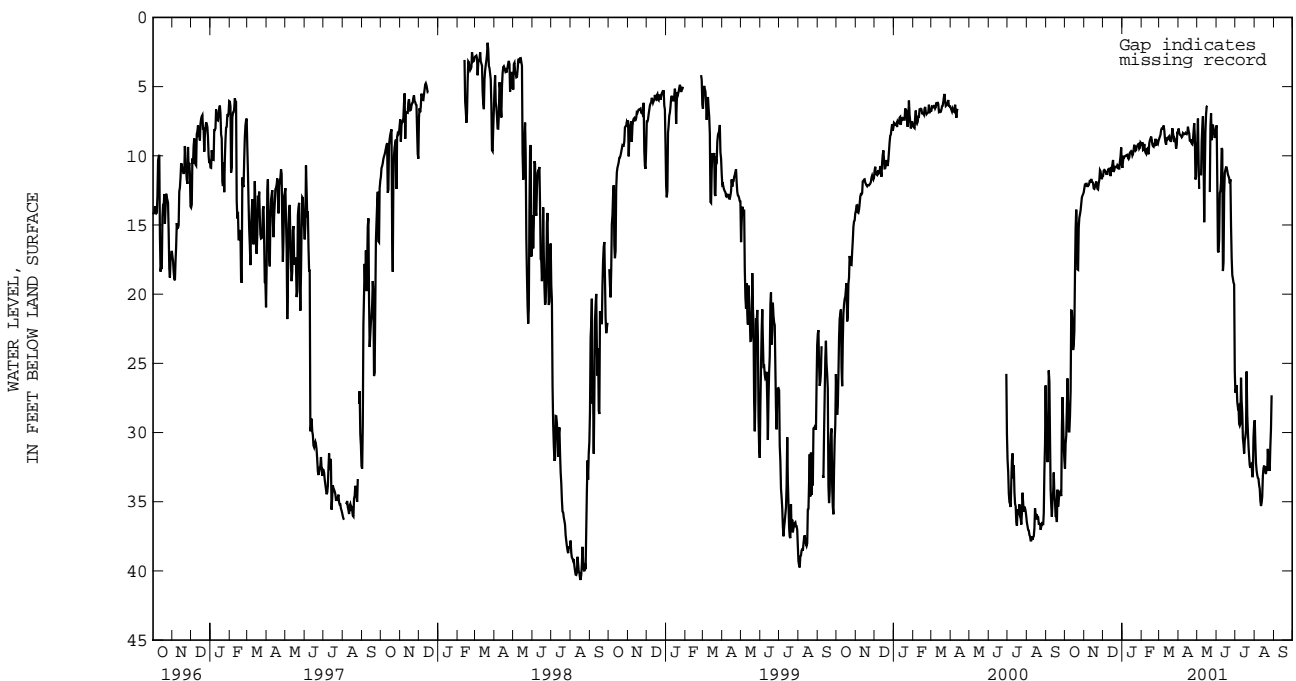
WORCESTER COUNTY--Continued

WO Bh 89--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.03	7.37	8.92	7.18	7.80	6.50	27.12	19.06	29.11	24.46	---	---
2	8.33	7.05	7.31	6.28	11.88	6.27	26.85	19.84	30.81	24.39	---	---
3	8.47	7.47	10.30	6.09	16.89	10.56	26.58	20.13	32.19	25.38	---	---
4	8.51	7.50	12.40	7.20	16.98	10.62	27.78	21.54	32.75	27.46	---	---
5	8.56	7.57	---	---	16.04	11.03	28.19	22.57	33.07	27.52	---	---
6	8.66	7.60	---	---	12.69	10.10	28.11	22.29	33.28	28.01	---	---
7	8.60	7.29	11.42	8.30	12.53	9.59	29.35	22.81	33.34	27.61	---	---
8	8.36	7.24	8.97	7.22	11.91	8.62	29.50	23.52	33.79	27.96	---	---
9	8.41	7.30	7.91	6.41	9.44	8.60	29.36	22.92	34.07	28.79	---	---
10	8.44	7.42	7.15	5.87	9.54	8.60	26.04	23.04	34.93	28.56	---	---
11	8.42	7.41	9.73	5.87	18.33	8.80	27.76	21.31	35.31	30.43	---	---
12	8.35	7.41	14.80	6.67	17.70	12.76	28.55	22.54	35.08	28.63	---	---
13	8.42	7.45	11.24	8.25	12.76	11.13	30.41	22.91	34.64	28.56	---	---
14	8.44	7.57	8.28	7.01	11.23	10.69	30.86	23.72	33.13	27.38	---	---
15	8.33	7.64	7.01	6.38	11.00	10.36	31.52	24.13	32.59	26.33	---	---
16	7.90	7.12	6.44	5.48	10.83	10.09	30.58	24.58	32.39	26.25	---	---
17	8.19	7.33	6.38	5.18	10.84	9.98	30.30	24.02	32.77	25.72	---	---
18	8.37	7.52	---	---	11.09	10.25	29.80	24.12	32.84	26.29	---	---
19	8.91	7.74	---	---	11.35	10.28	25.59	22.15	33.00	26.45	---	---
20	8.94	8.15	---	---	11.48	10.35	28.76	21.62	32.45	25.79	---	---
21	8.81	8.07	12.62	7.36	11.61	10.32	29.90	22.97	32.78	26.43	---	---
22	9.12	8.28	7.86	6.09	11.99	10.55	30.98	24.50	31.18	25.77	---	---
23	9.17	8.02	6.93	5.68	11.70	10.44	31.73	25.37	32.43	25.46	---	---
24	8.91	7.56	8.87	5.85	15.02	10.44	32.37	26.14	32.15	25.60	---	---
25	8.22	6.89	8.09	6.33	17.38	13.89	32.55	26.90	32.78	26.13	---	---
26	7.64	6.10	7.75	6.33	18.61	16.03	32.29	26.84	30.97	26.12	---	---
27	8.52	6.10	8.07	6.71	18.88	15.59	32.24	25.46	29.78	25.55	---	---
28	11.71	6.16	8.44	7.11	19.17	15.84	33.16	25.69	27.31	24.02	---	---
29	11.53	8.41	8.71	7.61	19.29	16.02	33.16	25.86	---	---	---	---
30	9.64	7.82	8.39	7.59	25.59	16.12	30.29	23.70	---	---	23.39	19.61
31	---	---	7.98	7.10	---	---	29.41	24.50	---	---	---	---
MONTH	11.71	6.10	14.80	5.18	25.59	6.27	33.16	19.06	35.31	24.02	23.39	19.61
YEAR	35.31	5.18										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

## GROUND-WATER LEVELS IN MARYLAND--Continued

## WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 98. SITE ID.--382127075043802. PERMIT NUMBER.--WO-81-1822.

LOCATION.--Lat 38°21'27", long 75°04'38", Hydrologic Unit 02060010, at 28th Street Park, Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 310 ft; casing diameter 4 in., to 255 ft, 275 to 285 ft, and 290 to 305 ft; screen diameter 4 in. from 255 to 275 ft, 285 to 290 ft, and 305 to 310 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from November 1990 to current year.

DATUM.--Elevation of land surface is 5 ft above sea level.

Measuring Point: Top of casing, 2.52 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.89 ft above land surface, April 2, 1993;  
lowest measured, 97.71 ft below land surface, Aug. 17, 2000.

## WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.56	25.87	15.84	15.41	14.87	14.27	16.58	15.23	11.29	10.94	11.41	11.06
2	26.58	25.79	15.51	15.14	14.27	13.88	15.23	14.05	11.19	10.72	11.16	10.82
3	25.95	25.55	15.34	15.06	14.16	13.89	14.05	13.33	11.68	10.88	12.02	10.62
4	25.55	24.93	15.51	15.27	14.14	13.85	13.43	12.93	11.68	11.30	11.97	10.82
5	25.06	23.93	15.69	15.37	14.09	13.71	13.15	12.57	11.55	10.84	10.86	10.18
6	24.17	23.95	15.91	15.55	14.02	13.64	12.82	12.21	11.82	10.70	10.86	10.30
7	24.80	23.92	15.91	15.39	13.94	13.59	12.73	12.14	11.94	11.30	10.72	9.91
8	24.85	24.55	15.61	14.99	13.88	13.26	12.76	12.00	12.01	11.21	10.37	9.74
9	45.77	23.89	15.30	14.68	13.58	13.00	12.68	11.77	11.70	10.91	11.72	10.00
10	47.22	21.71	15.08	14.32	13.55	12.89	12.68	12.09	11.71	10.96	12.53	11.33
11	21.71	20.35	15.06	14.32	13.53	12.82	12.75	11.98	12.18	11.36	13.29	12.32
12	20.54	19.63	15.11	14.32	13.32	12.45	12.62	11.90	12.36	11.65	13.22	12.53
13	20.35	19.56	15.28	14.67	13.78	13.20	12.45	11.65	11.74	11.29	12.55	11.17
14	21.05	20.16	15.25	14.49	13.31	12.51	13.01	12.13	11.43	11.08	12.89	11.12
15	21.51	20.78	15.04	14.36	13.23	12.78	12.88	12.38	11.15	10.85	14.14	12.88
16	21.53	18.90	15.22	14.64	13.03	12.29	12.55	12.15	11.14	10.77	14.38	13.90
17	18.90	16.38	15.19	14.60	12.67	11.84	12.54	12.25	11.92	10.40	14.40	13.86
18	16.38	14.65	15.01	14.54	13.47	12.66	12.46	11.87	14.47	11.92	13.89	13.19
19	14.86	14.01	15.08	14.65	13.47	12.84	12.04	11.36	15.08	14.47	13.89	12.81
20	15.76	14.86	15.01	14.37	13.20	12.51	11.56	10.83	15.08	13.94	13.43	12.36
21	17.15	15.75	14.85	14.38	13.20	12.87	11.80	10.74	14.68	13.81	13.43	11.27
22	17.54	17.07	15.01	14.56	13.12	12.60	11.93	11.61	14.31	13.11	12.32	10.86
23	17.48	16.93	15.03	14.34	13.35	12.47	11.96	11.46	13.24	12.29	13.40	12.27
24	17.28	16.62	14.57	13.93	13.60	13.05	11.70	11.12	13.44	12.69	13.85	12.68
25	16.99	16.41	14.50	14.04	13.42	12.87	11.52	10.94	13.28	12.47	14.22	13.38
26	16.75	16.01	14.29	13.65	14.63	12.87	11.39	10.94	12.76	12.01	13.99	12.46
27	16.37	15.68	14.52	14.02	15.04	13.73	11.34	10.94	12.29	11.52	12.64	12.04
28	16.11	15.60	15.12	14.39	13.80	13.17	11.80	11.32	11.70	11.23	12.38	11.89
29	16.24	15.76	16.15	15.12	13.20	12.55	11.82	11.34	---	---	12.20	11.29
30	16.33	15.86	15.32	14.83	13.64	12.21	11.46	11.02	---	---	11.34	10.91
31	16.20	15.65	---	---	15.81	13.64	11.25	10.98	---	---	12.35	10.82
MONTH	47.22	14.01	16.15	13.65	15.81	11.84	16.58	10.74	15.08	10.40	14.40	9.74

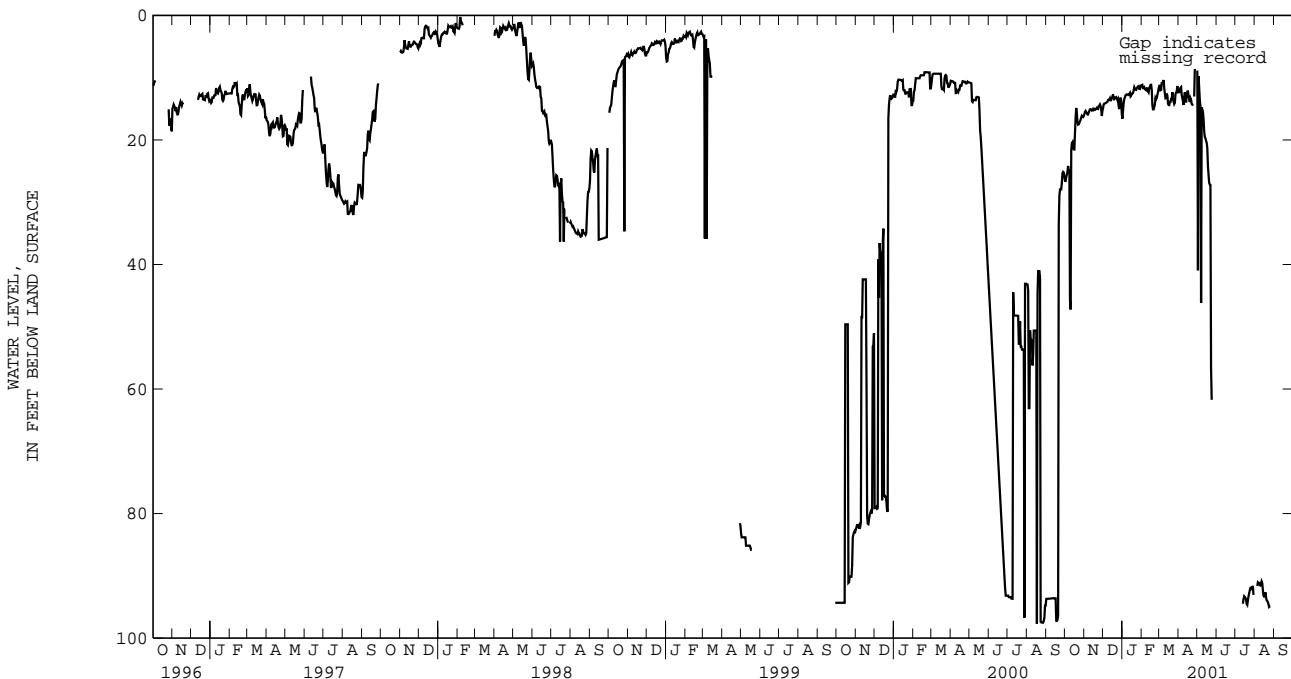
WORCESTER COUNTY--Continued

WO Bh 98--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.34	11.73	8.85	7.89	---	---	---	---	---	---	---	---
2	12.32	11.75	40.93	7.65	---	---	---	---	---	---	---	---
3	11.92	11.38	9.77	8.77	---	---	---	---	---	---	---	---
4	11.62	11.09	11.65	9.62	---	---	---	---	---	---	---	---
5	11.51	11.00	13.64	11.65	---	---	---	---	91.63	90.55	---	---
6	12.81	11.04	14.61	13.45	---	---	---	---	91.04	90.24	---	---
7	13.31	12.41	46.17	14.14	---	---	---	---	91.15	90.40	---	---
8	13.80	13.04	14.80	14.23	---	---	---	---	91.15	90.41	---	---
9	14.37	12.86	15.06	14.35	---	---	---	---	91.49	90.90	---	---
10	13.06	12.01	15.50	14.64	---	---	---	---	91.55	91.01	---	---
11	12.36	11.92	16.69	15.13	---	---	---	---	91.23	90.38	---	---
12	13.05	11.92	18.63	16.41	---	---	---	---	90.88	89.88	---	---
13	13.96	12.77	19.53	18.22	---	---	94.48	93.42	91.15	89.88	---	---
14	12.77	11.97	19.72	19.18	---	---	93.76	93.11	92.29	90.88	---	---
15	12.22	11.68	20.15	19.50	---	---	93.28	92.60	93.18	91.83	---	---
16	12.20	11.44	20.43	19.92	---	---	93.39	92.60	93.34	92.56	---	---
17	12.97	11.67	21.33	20.30	---	---	93.51	92.84	93.33	91.62	---	---
18	13.52	12.89	24.14	21.33	---	---	93.80	92.75	92.64	91.44	---	---
19	13.90	13.28	25.66	24.12	---	---	94.52	93.55	93.32	92.26	---	---
20	13.29	12.18	26.91	25.66	---	---	94.68	93.86	93.91	92.94	---	---
21	13.55	11.85	27.16	26.46	---	---	93.95	93.23	94.03	92.69	---	---
22	14.22	13.29	27.22	26.61	---	---	93.31	92.55	94.22	93.12	---	---
23	14.31	13.62	56.52	26.80	---	---	92.81	92.08	94.55	93.73	---	---
24	14.49	11.89	61.73	23.88	---	---	92.37	91.62	95.00	93.92	---	---
25	---	---	---	---	---	---	91.95	91.34	94.90	94.24	---	---
26	13.02	8.59	---	---	---	---	91.90	91.34	94.90	94.25	---	---
27	8.61	7.61	---	---	---	---	92.30	91.51	---	---	---	---
28	8.30	7.58	---	---	---	---	91.88	91.18	---	---	---	---
29	8.61	7.98	---	---	---	---	91.63	91.18	---	---	---	---
30	---	---	---	---	---	---	93.07	91.63	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	14.49	7.58	61.73	7.65	---	---	94.68	91.18	95.00	89.88	---	---
YEAR	95.00	7.58										

Daily Low Water Levels



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Cg 72. SITE ID.--381939075052101. PERMIT NUMBER.--WO-73-1304.

LOCATION.--Lat 38°19'39", long 75°05'21", Hydrologic Unit 02060010, at South Division St., Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 450 ft; casing diameter 4 in., to 384 ft, 394 to 404 ft, and 424 to 445 ft; screen diameter 4 in. from 384 to 394 ft, 404 to 424 ft, and 445 to 450 ft..

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

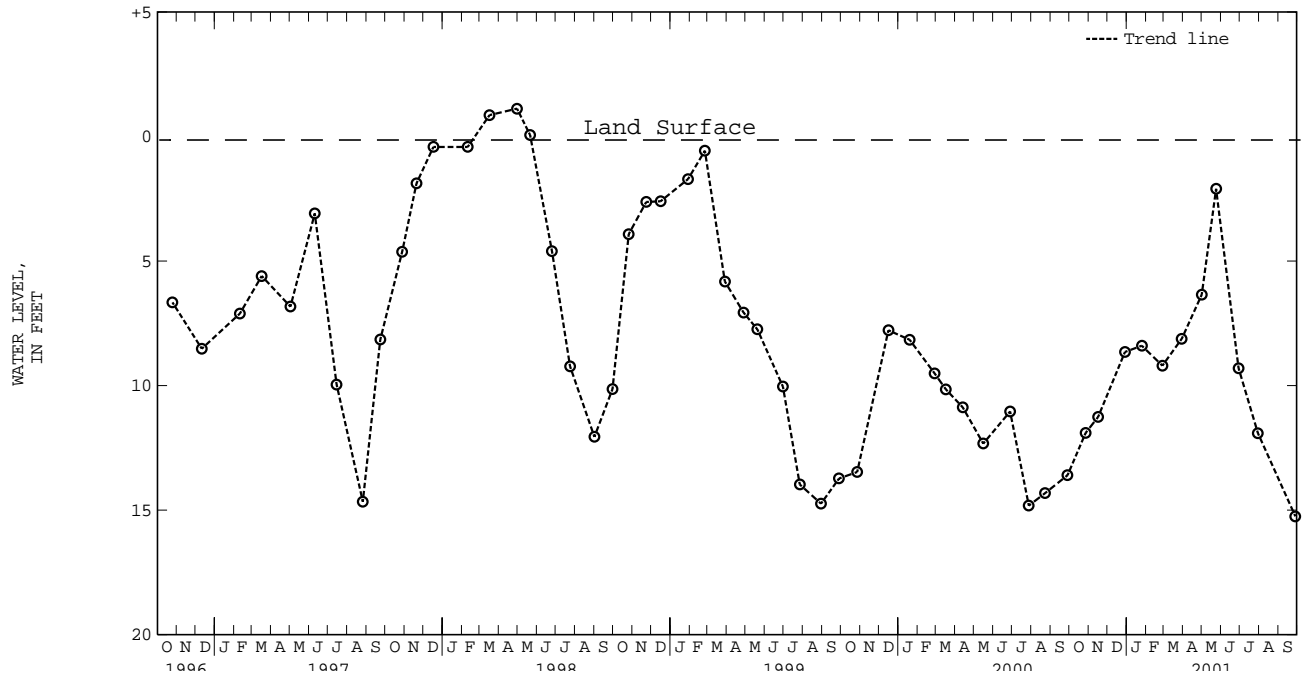
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.

PERIOD OF RECORD.--January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.58 ft above land surface, March 30, 1990;  
lowest measured, 32.49 ft below land surface, Sept. 25, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 2000	11.90	JAN 25, 2001	8.40	MAY 01, 2001	6.35	JUL 30, 2001	11.91
NOV 16	11.26	FEB 27	9.20	24	2.10	SEP 28	15.25
DEC 29	8.65	MAR 30	8.12	JUN 29	9.30		
WATER YEAR 2001		HIGHEST	2.10	MAY 24, 2001	LOWEST	15.25	SEP 28, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Dd 7. SITE ID.--381037075234301.

LOCATION.--Lat 38°10'37", long 75°23'43", Hydrologic Unit 02060009, near intersection of Green and Commerce Sts., Snow Hill.

Owner: City of Snow Hill.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 290 ft; casing diameter 6 in.; casing length unknown.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 13 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 0.40 ft below land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

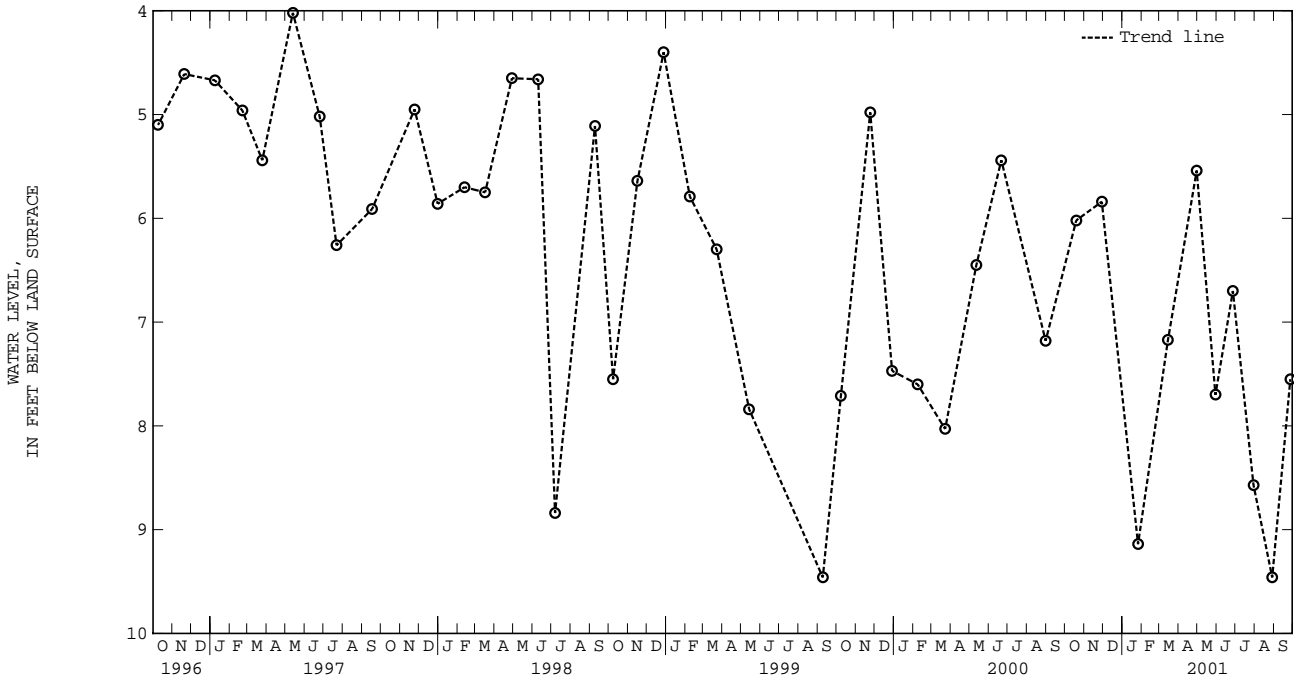
PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.63 ft below land surface, March 8, 1962;

lowest measured, 38.02 ft below land surface, Sept. 17, 1970.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 2000	6.02	MAR 15, 2001	7.17	JUN 27, 2001	6.70	SEP 27, 2001	7.55
NOV 29	5.84	APR 30	5.54	JUL 30	8.57		
JAN 26, 2001	9.14	MAY 30	7.70	AUG 29	9.46		
WATER YEAR 2001		HIGHEST	5.54	APR 30, 2001	LOWEST	9.46	AUG 29, 2001



GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO De 36. SITE ID.--381457075174101. PERMIT NUMBER.--WO-73-0515.

LOCATION.--Lat 38°14'57", long 75°17'41", Hydrologic Unit 02060010, at Newark.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 330 ft; casing diameter 4 in., to 320 ft; screen diameter 2 in. from 320 to 330 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 30 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.84 ft above land surface.

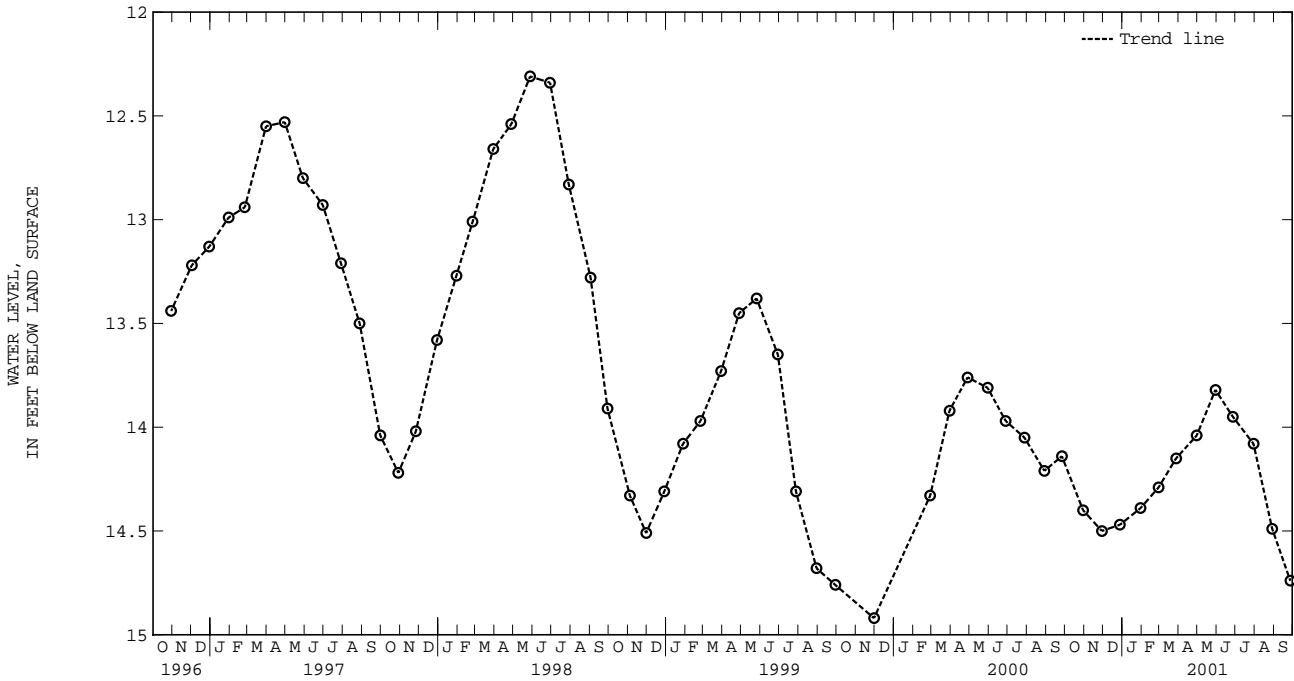
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.62 ft below land surface, May 20, 1976, lowest measured, 15.00 ft below land surface, Sep. 11, 1975.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	14.40	JAN 30, 2001	14.39	APR 30, 2001	14.04	JUL 30, 2001	14.08
NOV 29	14.50	FEB 28	14.29	MAY 30	13.82	AUG 29	14.49
DEC 28	14.47	MAR 28	14.15	JUN 27	13.95	SEP 27	14.74
WATER YEAR 2001		HIGHEST	13.82	MAY 30, 2001	LOWEST	14.74	SEP 27, 2001



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Dg 21. SITE ID.--381427075081102. PERMIT NUMBER.--WO-73-0519.

LOCATION.--Lat 38°14'26", long 75°08'11", Hydrologic Unit 020060010, at Assateague Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 310 ft; casing diameter 4 in., to 300 ft; screen diameter 2 in. from 300 to 310 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel, November 1990 to current year. Periodic measurements with chalked steel tape October 1975, to April 1985. Equipped with digital water-level recorder--60-minute recording interval, April 1985 to October 1990.

DATUM.--Elevation of land surface is 5.66 ft above sea level.

Measuring point: Top of casing, 4.06 ft above land surface.

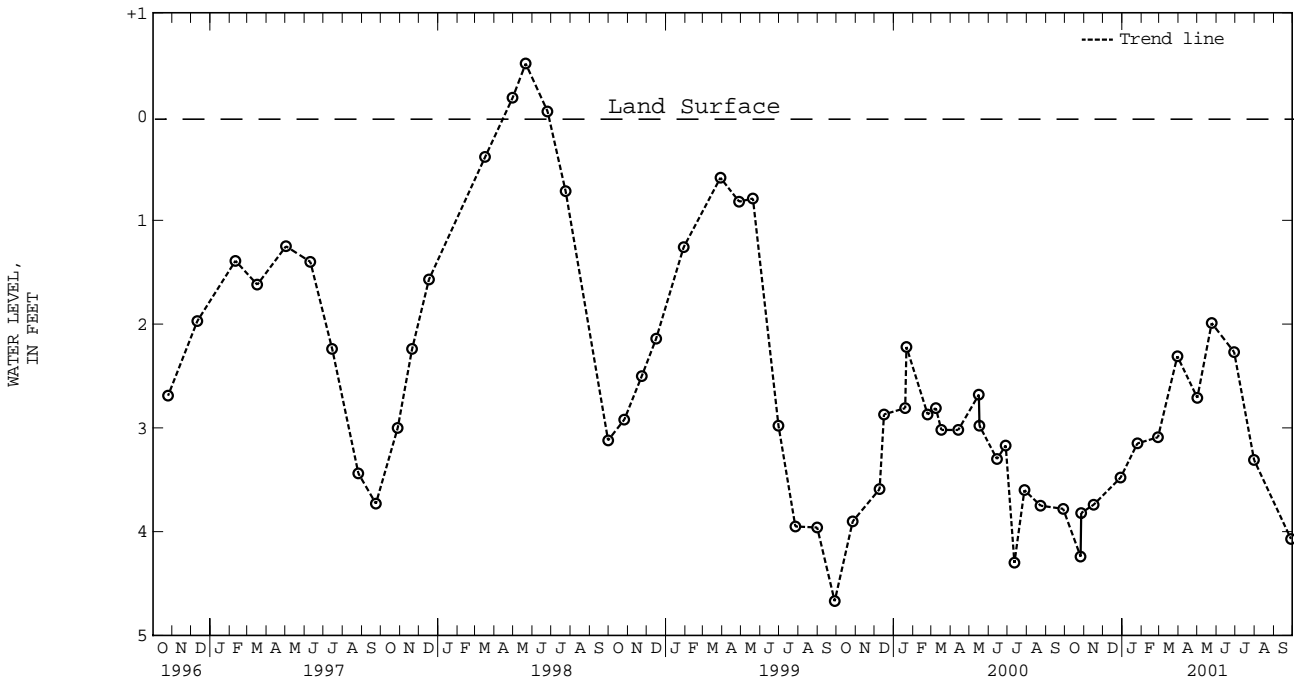
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.37 ft above land surface, April 22, 1991; lowest recorded, 5.25 ft below land surface, Aug. 25, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 2000	4.24	DEC 29, 2000	3.48	MAR 30, 2001	2.31	JUN 29, 2001	2.27
27	3.82	JAN 25, 2001	3.15	MAY 01	2.71	JUL 31	3.31
NOV 16	3.74	FEB 27	3.09	24	1.99	SEP 28	4.07
WATER YEAR 2001 HIGHEST 1.99		MAY 24, 2001		LOWEST 4.24		OCT 26, 2000	



GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Fb 2. SITE ID.--380408075335701. PERMIT NUMBER.--WO-00-1633.

LOCATION.--Lat 38°04'08", long 75°33'57", Hydrologic Unit 02060009, near 7th and Young St., Pocomoke City.

Owner: Pocomoke City.

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 130 ft; casing diameter 16 in., to 100 ft; casing diameter 10 in., to 100 ft; screen diameter 9.5 in. from 100 to 130 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.

Measuring point: Top of 1.5 in. casing extension, 3.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level reported 30 ft below land surface, Oct. 3, 1947.

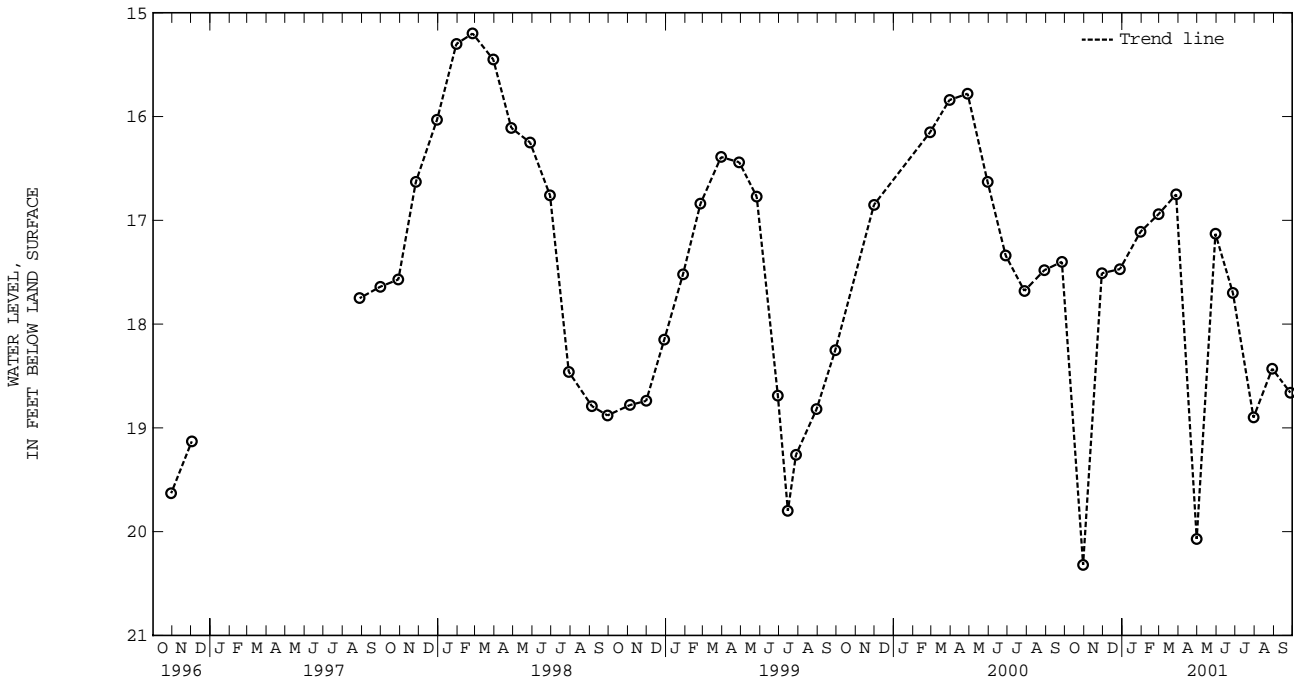
Well inaccessible between January 1997 and July 1997 due to construction equipment. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--January 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.05 ft below land surface, Feb. 25, 1998; lowest measured, 49.70 ft below land surface, July 1, 1954.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 2000	20.32	JAN 30, 2001	17.11	APR 30, 2001	20.07	JUL 30, 2001	18.90
NOV 29	17.51	FEB 28	16.94	MAY 30	17.13	AUG 29	18.43
DEC 28	17.47	MAR 28	16.75	JUN 27	17.70	SEP 27	18.66
WATER YEAR 2001		HIGHEST	16.75	MAR 28, 2001	LOWEST	20.32	OCT 30, 2000



5 YEAR HYDROGRAPH  
OCTOBER 1, 1996 THROUGH SEPTEMBER 30, 2001



## GROUND-WATER-QUALITY RECORDS

## REMARK CODES

The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blank.
M	Presence of material verified but not quantified.

## Dissolved Trace-Element Concentrations

**NOTE**--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols in water year 1994.

## Change in National Trends Network Procedures

**NOTE**--Sample handling procedures at all national Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW SURFACE LAND (WATER LEVEL) (FEET) (72019)
Hc34-03	10-16-00	1105	391747075364202	BLANK	--	--	--	--	--
	10-16-00	1200		ENVIRONMENTAL	112CLMB	GW	8030	20	--
	10-16-00	1203		REPLICATE	112CLMB	GW	8030	20	--
Ib32-05	08-23-01	0930	391233075433102	ENVIRONMENTAL	112CLMB	GW	4040	65	27.12
	08-23-01	0935		REPLICATE	112CLMB	GW	4040	65	--
Jc43-05	10-26-00	1000	390652075370701	ENVIRONMENTAL	112CLMB	GW	8030	20	--
Jc52-04	07-02-01	0830	390533075380501	ENVIRONMENTAL	112CLMB	GW	4040	59	3.52
Jc55-03	06-28-01	0930	390503075354001	ENVIRONMENTAL	112PCPC	GW	4090	62	--
Je41-08	10-26-00	1300	390619075290901	ENVIRONMENTAL	112CLMB	GW	8030	9	--
Le24-11	07-11-01	0930	385817075265101	BLANK	--	--	4040	--	--
Le35-11	07-11-01	1000		ENVIRONMENTAL	112CLMB	GW	4040	30	6.95
	06-27-01	1000	385713075253701	ENVIRONMENTAL	112PCPC	GW	4090	20	--

WELL NUMBER	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE (FT) (72016)	DEPTH TO TOP OF SAMPLE (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
Hc34-03	10-16-00	--	--	--	--	--	--	--	--	--	--	--
	10-16-00	95	95	80	30	--	772	44.0	4.5	5.3	176	
	10-16-00	95	95	80	30	--	--	--	--	--	--	
Ib32-05	08-23-01	30	30	27	75	.37	765	.5	.1	7.6	194	
	08-23-01	30	--	--	--	--	--	--	--	--	--	
Jc43-05	10-26-00	70	70	60	40	--	776	38.1	4.0	5.3	148	
Jc52-04	07-02-01	9	8.5	3.5	120	.50	762	66.9	6.1	6.5	2140	
Jc55-03	06-28-01	30	30	25	30	1.0	769	56.1	5.2	5.1	221	
Je41-08	10-26-00	40	40	--	60	--	777	56.4	5.8	5.0	100	
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--	
Le35-11	07-11-01	13.5	14	8.5	60	.55	755	36.0	3.3	4.6	410	
	06-27-01	48	48	40	30	.50	773	75.9	7.6	4.8	168	

WELL NUMBER	DATE	TIME	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
Hc34-03	10-16-00	--	--	--	--	--	--	--	--	--	--	--
	10-16-00	22.0	15.0	50.7	10.7	5.79	4.23	9.8	15	18	18.2	
	10-16-00	--	--	--	--	--	--	--	--	--	--	
Ib32-05	08-23-01	26.0	14.0	84.8	33.4	.288	.68	3.7	61	74	10.3	
	08-23-01	--	--	--	--	--	--	--	--	--	--	
Jc43-05	10-26-00	14.5	14.0	41.9	11.3	3.29	1.65	14.6	11	14	16.9	
Jc52-04	07-02-01	19.0	19.5	398	103	33.9	1.87	269	128	156	600	
Jc55-03	06-28-01	32.0	19.5	38.6	8.38	4.18	3.48	22.4	7	10	33.3	
Je41-08	10-26-00	18.0	15.0	30.3	4.75	4.47	2.37	5.9	6	7	10.7	
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--	
Le35-11	07-11-01	26.0	19.0	126	18.5	19.4	1.57	6.3	14	17	26.7	
	06-27-01	23.0	16.0	56.9	9.26	8.13	2.78	5.0	4	5	12.7	

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
112PCPC - Pleistocene-Pliocene Series

Station Type: GW - Groundwater

Sampling Method: 4040 - Submersible pump  
4090 - Jet pump  
8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	FLUO- RIDE, DIS- SOLVED	BROMIDE DIS- SOLVED	SILICA, DIS- SOLVED	SULFATE DIS- SOLVED	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC DIS.	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, NITRATE DIS- SOLVED	NITRO- GEN, ORGANIC DIS- SOLVED
		(MG/L AS F) (00950)	(MG/L AS BR) (71870)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00625)	(MG/L AS N) (00613)	(MG/L AS N) (00618)	(MG/L AS N) (00607)
Hc34-03	10-16-00	--	--	--	--	--	--	--	--	--	--
	10-16-00	<.2	.05	15.2	17.8	<.041	<.10	<.08	<.006	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	E.1	.02	16.5	19.9	<.040	<.10	--	<.006	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.2	.01	25.0	19.4	<.041	<.10	<.08	<.006	--	--
Jc52-04	07-02-01	.2	.06	4.7	19.3	.046	.21	--	.019	.233	.164
Jc55-03	06-28-01	<.2	.03	16.5	12.2	<.040	E.06	--	E.003	--	--
Je41-08	10-26-00	<.2	.07	13.5	5.4	<.041	<.10	<.08	<.006	--	--
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	07-11-01	<.2	.05	11.8	58.9	<.040	E.10	--	<.006	--	--
	06-27-01	<.2	.04	12.4	14.2	E.025	<.10	--	E.003	--	--

WELL NUMBER	DATE	NITRO- GEN DIS- SOLVED	NITRO- GEN, NO2+NO3 DIS- SOLVED	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL DIS- SOLVED	PHOS- PHATE, ORTHO, DIS- SOLVED	TOTAL COLI- FORM, M ENDO MF, WTR	E COLI, NA-MUG, WATER	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED
		(MG/L AS N) (00602)	(MG/L AS N) (00631)	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS PO4) (00660)	(COL/ 100 ML) (31501)	(COL/ 100 ML) (50278)	(MG/L) (70300)	(MG/L) (70301)
Hc34-03	10-16-00	--	--	--	--	--	--	--	--	--	--
	10-16-00	--	5.18	.013	.037	.016	.113	--	--	117	114
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	<.050	--	.108	--	.331	--	--	136	122
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	5.53	<.060	.325	2.10	.997	--	--	124	125
Jc52-04	07-02-01	.462	.252	--	<.020	--	--	--	--	1340	1110
Jc55-03	06-28-01	--	5.45	--	<.020	--	--	<1	<1	128	130
Je41-08	10-26-00	--	5.29	<.006	<.018	<.004	--	--	--	66	74.0
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	07-11-01	--	12.1	--	<.020	--	--	--	--	206	206
	06-27-01	--	9.62	--	<.020	--	--	27	<1	126	110

WELL NUMBER	DATE	ALUM- INUM, DIS- SOLVED	ANTI- MONY, DIS- SOLVED	ARSENIC DIS- SOLVED	BARIUM, DIS- SOLVED	BERYL- LIUM, DIS- SOLVED	BORON, DIS- SOLVED	CADMIUM DIS- SOLVED	CHRO- MIUM, DIS- SOLVED	COBALT, DIS- SOLVED	COPPER, DIS- SOLVED
		(UG/L AS AL) (01106)	(UG/L AS SB) (01095)	(UG/L AS AS) (01000)	(UG/L AS BA) (01005)	(UG/L AS BE) (01010)	(UG/L AS B) (01020)	(UG/L AS CD) (01025)	(UG/L AS CR) (01030)	(UG/L AS CO) (01035)	(UG/L AS CU) (01040)
Hc34-03	10-16-00	--	--	--	--	--	--	--	--	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<1	.07	.9	38.2	<.06	9	E.03	<.8	.06	.3
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	--	--	--	--	--	--	--	--	--
Jc52-04	07-02-01	3	.15	<.2	649	<.06	22	.07	E.8	1.36	3.1
Jc55-03	06-28-01	6	<.05	<.2	282	.36	E4	.21	1.8	5.29	43.3
Je41-08	10-26-00	--	--	--	--	--	--	--	--	--	--
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	07-11-01	233	<.05	<.2	78.0	.21	13	.06	E.4	3.66	1.2
	06-27-01	41	<.05	<.2	198	.26	15	.12	<.8	4.39	6.0

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	IRON, DIS- SOLVED	LEAD, DIS- SOLVED	LITHIUM DIS- SOLVED	MANGA- NESE, DIS- SOLVED	MOLYB- DENUM, DIS- SOLVED	NICKEL, DIS- SOLVED	SELE- NIUM, DIS- SOLVED	SILVER, DIS- SOLVED	STRON- TIUM, DIS- SOLVED	THAL- LIUM, DIS- SOLVED
		(UG/L AS FE) (01046)	(UG/L AS PB) (01049)	(UG/L AS LI) (01130)	(UG/L AS MN) (01056)	(UG/L AS MO) (01060)	(UG/L AS NI) (01065)	(UG/L AS SE) (01145)	(UG/L AS AG) (01075)	(UG/L AS SR) (01080)	(UG/L AS TL) (01057)
Hc34-03	10-16-00	--	--	--	--	--	--	--	--	--	--
	10-16-00	<10	--	--	59.5	--	--	--	--	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	240	<.08	.8	14.8	7.4	<.06	<.3	<1.0	216	<.04
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	250	--	--	19.9	--	--	--	--	--	--
Jc52-04	07-02-01	<10	.10	.4	11.5	.8	.92	.4	<1.0	391	.15
Jc55-03	06-28-01	<10	5.88	2.0	45.1	<.2	3.03	2.6	<1.0	205	.10
Je41-08	10-26-00	<10	--	--	25.1	--	--	--	--	--	--
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	<10	.39	1.2	68.6	<.2	1.88	1.3	<1.0	53.1	<.04
Le35-11	06-27-01	30	1.12	3.3	18.8	<.2	3.89	.7	<1.0	142	E.03
		VANA- DIUM, DIS- SOLVED	ZINC, DIS- SOLVED	CARBON, ORGANIC DIS- SOLVED	2,4,5-T SURROG WATER FLTRD	2,4-D METHYL ESTER, WATER FLTRD	2,4-D, DIS- SOLVED	2,4-DB WATER, FLTRD, GF 0.7U	2,6-DI- ETHYL ANILINE WAT FLT GF 0.7 U	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U	3-KETO CARBO- FURAN WATER FLTRD
		(UG/L AS V) (01085)	(UG/L AS ZN) (01090)	(MG/L AS C) (00681)	PERCENT (99958)	(UG/L) REC (50470)	(UG/L) REC (39732)	(UG/L) REC (38746)	(UG/L) GF, REC (82660)	(UG/L) GF, REC (49308)	(UG/L) REC (50295)
Hc34-03	10-16-00	--	--	--	--	--	--	--	<.002	--	--
	10-16-00	--	--	--	--	--	--	--	<.002	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.2	<1	.54	93	<.009	<.02	<.02	<.002	<.01	<1.50
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	--	--	--	--	--	--	<.002	--	--
Jc52-04	07-02-01	2.1	5	5.0	--	--	--	--	<.002	--	--
Jc55-03	06-28-01	.5	54	.69	--	--	--	--	<.002	--	--
Je41-08	10-26-00	--	--	--	--	--	--	--	<.002	--	--
Le24-11	07-11-01	--	--	--	63	<.009	.14	<.02	<.002	<.01	<1.50
	07-11-01	<.2	5	.96	71	<.009	<.02	<.02	<.002	<.01	<1.50
Le35-11	06-27-01	<.2	15	.41	--	--	--	--	<.002	--	--
		ACETO- CHLOR ESA FLTRD 0.7 UM GF REC	ACETO- CHLOR OA FLTRD 0.7 UM GF REC	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L)	ALA- CHLOR OA FLTRD 0.7 UM GF REC	ALA- CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L)
		(61029)	(61030)	(49260)	(49315)	(61031)	(50009)	(46342)	(49313)	(49314)	(49312)
Hc34-03	10-16-00	--	--	<.004	--	--	--	<.002	--	--	--
	10-16-00	--	--	<.004	--	--	--	<.005	--	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.05	<.05	<.004	<.01	<.05	.090	<.002	<.02	<.01	<.04
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	--	<.004	--	--	--	<.002	--	--	--
Jc52-04	07-02-01	<.05	<.05	<.004	--	<.05	<.050	<.002	--	--	--
Jc55-03	06-28-01	<.05	<.05	<.004	--	<.05	.060	<.002	--	--	--
Je41-08	10-26-00	--	--	<.004	--	--	--	<.002	--	--	--
Le24-11	07-11-01	--	--	<.004	<.01	--	--	<.002	<.02	<.01	<.04
	07-11-01	<.05	<.05	<.004	<.01	<.05	.080	<.002	<.02	<.01	<.04
Le35-11	06-27-01	<.05	<.05	<.004	--	<.05	.520	<.002	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN	BENDIO-	BEN-	BEN-	BEN-	BRO-	BRO-	
				SURROG-ATE WTR FLT SCD 2060, RE PERCENT (90640)	CARB, WATER FLTRD (UG/L) (50299)	FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD (UG/L) (50300)	SUL-FURON METHYL WAT FLT REC (UG/L) (61693)	ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	MACIL, WATER, DISS, REC (UG/L) (04029)	MOXYNIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49311)
Hc34-03	10-16-00	<.005	E.002	--	--	<.010	--	--	--	--	
	10-16-00	<.005	.054	--	--	<.010	--	--	--	--	
	10-16-00	--	--	--	--	--	--	--	--	--	
Ib32-05	08-23-01	<.005	<.007	93	<.025	<.010	<.004	<.0158	<.01	<.03	
	08-23-01	--	--	--	--	--	--	--	--	--	
Jc43-05	10-26-00	<.005	<.007	--	--	<.010	--	--	--	--	
Jc52-04	07-02-01	<.005	<.007	--	--	<.010	--	--	--	--	
Jc55-03	06-28-01	<.005	E.002	--	--	<.010	--	--	--	--	
Je41-08	10-26-00	<.005	<.007	--	--	<.010	--	--	--	--	
Le24-11	07-11-01	<.005	<.007	62	<.025	<.010	<.004	<.0158	<.01	<.03	
Le35-11	07-11-01	<.005	E.011	110	<.025	<.010	<.004	<.0158	<.01	<.03	
	06-27-01	<.005	<.007	--	--	<.010	--	--	--	--	
		BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER, FLTRD REC (UG/L) (50305)	CAF-FEINE-C13 SURROG, WAT FLT REC PERCENT (99959)	CAR-BARYL, WATER, FLTRD GF 0.7U REC (UG/L) (49310)	CAR-BARYL, WATER, FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD GF 0.7U REC (UG/L) (49309)	CARBO-FURAN, WATER, FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI-MURON, WATER, FLTRD REC (UG/L) (50306)	CHLORO-THALONIL, WAT, FLT GF 0.7U REC (UG/L) (49306)
Hc34-03	10-16-00	<.002	--	--	--	<.041	--	<.020	--	--	
	10-16-00	<.002	--	--	--	<.041	--	<.020	--	--	
	10-16-00	--	--	--	--	--	--	--	--	--	
Ib32-05	08-23-01	<.002	<.010	123	<.03	<.041	<.01	<.020	<.02	<.010	
	08-23-01	--	--	--	--	--	--	--	--	--	
Jc43-05	10-26-00	<.002	--	--	--	<.041	--	<.020	--	--	
Jc52-04	07-02-01	<.002	--	--	--	<.041	--	<.020	--	--	
Jc55-03	06-28-01	<.002	--	--	--	<.041	--	<.020	--	--	
Je41-08	10-26-00	<.002	--	--	--	<.041	--	E.141	--	--	
Le24-11	07-11-01	<.002	<.010	66	<.0007	<.041	<.01	<.020	<.02	<.010	
Le35-11	07-11-01	<.002	<.010	34	<.03	<.041	<.01	<.020	<.02	<.010	
	06-27-01	<.002	--	--	--	<.041	--	<.020	--	--	
		CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04039)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZ-INON D10 SRG WAT, FLT 0.7 U GF, REC PERCENT (91063)
Hc34-03	10-16-00	<.005	--	<.018	--	--	<.003	<.006	--	--	
	10-16-00	<.005	--	<.018	--	--	<.003	E.023	--	107	
	10-16-00	--	--	--	--	--	--	--	--	95	
Ib32-05	08-23-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	
	08-23-01	--	--	--	--	--	--	--	--	97	
Jc43-05	10-26-00	<.005	--	<.018	--	--	<.003	E.017	--	0	
Jc52-04	07-02-01	<.005	--	<.018	--	--	<.003	E.002	--	95	
Jc55-03	06-28-01	<.005	--	<.018	--	--	<.003	<.006	--	84	
Je41-08	10-26-00	<.005	--	<.018	--	--	<.003	E.009	--	107	
Le24-11	07-11-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	
Le35-11	07-11-01	<.005	<.01	<.018	<.01	<.01	<.003	E.004	E.01	<.04	
	06-27-01	<.005	--	<.018	--	--	<.003	E.004	--	118	

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	DI-AZINON, DIS-SOLVED	DICAMBA WATER, FLTRD, GF 0.7U REC	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC	DI-ELDRIN DIS-SOLVED	DIMETH-ENAMID OXA, WATER, FLT, REC	DIMETH-ENAMID, ESA, WAT FLT	DINOSEB WATER, FLTRD, GF 0.7U REC	DIPHEN-AMID, WATER, DISS, REC	DISUL-FOTON WATER, FLTRD, 0.7 U GF, REC	DIURON, WATER, FLTRD, GF 0.7U REC
		(UG/L) (39572)	(UG/L) (38442)	(UG/L) (49302)	(UG/L) (39381)	(UG/L) (62482)	(UG/L) (61951)	(UG/L) (49301)	(UG/L) (04033)	(UG/L) (82677)	(UG/L) (49300)
Hc34-03	10-16-00	<.005	--	--	<.005	--	--	--	--	<.021	--
	10-16-00	<.005	--	--	.042	--	--	--	--	<.021	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.005	--	--	<.005	--	--	--	--	<.021	--
Jc52-04	07-02-01	<.005	--	--	<.005	<.0500	<.05	--	--	<.021	--
Jc55-03	06-28-01	<.005	--	--	E.004	<.0500	<.05	--	--	<.021	--
Je41-08	10-26-00	<.005	--	--	<.005	--	--	--	--	<.021	--
Le24-11	07-11-01	<.005	<.01	<.01	<.005	--	--	<.0003	<.03	<.021	<.0014
	07-11-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
Le35-11	06-27-01	<.005	--	--	<.005	<.0500	<.05	--	--	<.021	--
		EPIC WATER, FLTRD, 0.7 U GF, REC	ETHAL-FLUR-ALIN WATER, FLTRD, 0.7 U GF, REC	ETHO-PROP WATER, FLTRD, 0.7 U GF, REC	FEN-URON, WATER, FLTRD, GF 0.7U REC	FLUFEN-ACET, ESA, WAT FLT	FLUFE-NACET OXA, WATER, FLT, REC	FLUMET-SULAM WATER, FLTRD, REC	FLUO-METURON WATER, FLTRD, GF 0.7U REC	FONOFOS WATER, DISS, REC	HCH ALPHA D6 SRG, 0.7 U GF, REC PERCENT
		(82668)	(82663)	(82672)	(49297)	(61952)	(62483)	(61694)	(38811)	(04095)	(91065)
Hc34-03	10-16-00	<.002	<.009	<.005	--	--	--	--	--	<.003	101
	10-16-00	<.002	<.009	<.005	--	--	--	--	--	<.003	88
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	90
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.002	<.009	<.005	--	--	--	--	--	<.003	106
Jc52-04	07-02-01	<.002	<.009	<.005	--	<.05	<.0500	--	--	<.003	93
Jc55-03	06-28-01	<.002	<.009	<.005	--	<.05	<.0500	--	--	<.003	90
Je41-08	10-26-00	<.002	<.009	<.005	--	--	--	--	--	<.003	108
Le24-11	07-11-01	<.002	<.009	<.005	<.03	--	--	<.0110	<.03	<.003	101
	07-11-01	<.002	<.009	<.005	<.03	<.05	<.0500	E.0509	<.03	<.003	101
Le35-11	06-27-01	<.002	<.009	<.005	--	<.05	<.0500	--	--	<.003	97
		HYDROXY ATRA-ZINE WATER, FLTRD, REC	IMAZ-AQUIN WATER, FLTRD, REC	IMAZE-THAPYR WATER, FLTRD, REC	IMID-ACLOP-RID WATER, FLTRD, REC	LINDANE DIS-SOLVED	LINURON WATER, FLTRD, GF 0.7U REC	LIN-URON WATER, FLTRD, 0.7 U GF, REC	MALA-THION, DIS-SOLVED	MCPA, WATER, FLTRD, GF 0.7U REC	MCPB, WATER, FLTRD, GF 0.7U REC
		(50355)	(50356)	(50407)	(61695)	(39341)	(38478)	(82666)	(39532)	(38482)	(38487)
Hc34-03	10-16-00	--	--	--	--	<.004	--	<.035	<.027	--	--
	10-16-00	--	--	--	--	<.004	--	<.035	<.027	--	--
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	--	--	--	<.004	--	<.035	<.027	--	--
Jc52-04	07-02-01	--	--	--	--	<.004	--	<.035	<.027	--	--
Jc55-03	06-28-01	--	--	--	--	<.004	--	<.035	<.027	--	--
Je41-08	10-26-00	--	--	--	--	<.004	--	<.035	<.027	--	--
Le24-11	07-11-01	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
	07-11-01	<.008	<.016	<.017	<.0068	<.004	.02	E.018	<.027	<.02	<.01
Le35-11	06-27-01	--	--	--	--	<.004	--	<.035	<.027	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	METHIO-	METH-	METH-	METHYL	METHYL	METOLA-	METOLA-	METO-	METRI-	
		CARB-	OMYL	OMYL,	AZIN-	PARA-	CHLOR	CHLOR			
		AXYL	OXIME	OMYL,	PHOS	THION	ESA	OA	LACHLOR	SENCOR	
		WATER	WATER	WATER	WATER,	WAT FLT	WAT FLT	FLTRD	FLTRD	WATER	
		FLTRD	FLTRD	FLTRD	GF 0.7U	0.7 U	0.7 U	0.7 UM	0.7 UM	DISSOLV	
		REC	REC	REC	REC	GF, REC	GF, REC	GF REC	GF REC	DISSOLV	
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
		(50359)	(38501)	(61696)	(49296)	(82686)	(82667)	(61043)	(61044)	(39415)	
										(82630)	
Hc34-03	10-16-00	--	--	--	--	<.050	<.006	--	--	.016	<.006
	10-16-00	--	--	--	--	<.050	<.006	--	--	.185	<.006
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.020	<.01	<.0110	<.0044	<.050	<.006	.09	<.05	<.013	<.006
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	--	--	--	<.050	<.006	--	--	<.013	<.006
Jc52-04	07-02-01	--	--	--	--	<.050	<.006	.08	<.05	E.003	<.006
Jc55-03	06-28-01	--	--	--	--	<.050	<.006	.07	<.05	<.013	<.006
Je41-08	10-26-00	--	--	--	--	<.050	<.006	--	--	<.013	<.006
Le24-11	07-11-01	<.020	<.01	<.0110	<.0044	<.050	<.006	--	--	.023	<.006
Le35-11	07-11-01	.021	<.01	<.0110	<.0044	<.050	<.006	18.0	5.25	E.003	<.006
	06-27-01	--	--	--	--	<.050	<.006	1.07	<.05	<.013	<.006
		MET-	MOL-	NAPROP-	NEB-	NICOSUL	NORFLUR	ORY-	OXAMYL	OXAMYL,	P,P'
		SUL-	INATE	AMIDE	URON,	FURON	WATER,	ZALIN,	OXIME	WATER,	DDE
		FURON	WATER	WATER	WATER,	WATER	WATER,	WATER,	WATER	WATER,	DISSOLV
		METHYL	FLTRD	FLTRD	FLTRD,	FLTRD	FLTRD,	FLTRD,	FLTRD,	FLTRD,	DISSOLV
		WAT FLT	0.7 U	0.7 U	GF 0.7U	FLTRD	GF 0.7U	GF 0.7U	FLTRD	GF 0.7U	DISSOLV
		REC	GF, REC	GF, REC	REC	REC	REC	REC	REC	REC	DISSOLV
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(61697)	(82671)	(82684)	(49294)	(50364)	(49293)	(49292)	(50410)	(38866)	(34653)
Hc34-03	10-16-00	--	<.002	<.007	--	--	--	--	--	--	<.003
	10-16-00	--	<.002	<.007	--	--	--	--	--	--	<.003
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	--	<.002	<.007	--	--	--	--	--	--	<.003
Jc52-04	07-02-01	--	<.002	<.007	--	--	--	--	--	--	<.003
Jc55-03	06-28-01	--	<.002	<.007	--	--	--	--	--	--	<.003
Je41-08	10-26-00	--	<.002	<.007	--	--	--	--	--	--	<.003
Le24-11	07-11-01	<.0250	<.002	<.007	<.0003	<.013	<.02	<.02	<.013	<.01	<.003
Le35-11	07-11-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
	06-27-01	--	<.002	<.007	--	--	--	--	--	--	<.003
		PARA-	PEB-	PENDI-	PER-	PHORATE	PIC-	PRO-	PRON-	PROPA-	PRO-
		THION,	ULATE	METH-	METHRIN	WATER	LORAM,	METON,	AMIDE	CHLOR,	PANIL
		DIS-	WATER	ALIN	CIS	WATER	WATER,	WATER,	WATER	WATER,	WATER
		SOLVED	FLTRD	WAT FLT	WAT FLT	FLTRD	FLTRD,	FLTRD,	FLTRD	FLTRD,	FLTRD
		(UG/L)	0.7 U	0.7 U	0.7 U	0.7 U	GF 0.7U	DISS,	0.7 U	DISS,	0.7 U
		(UG/L)	GF, REC	GF, REC	GF, REC	GF, REC	REC	REC	GF, REC	REC	GF, REC
		(39542)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
			(82669)	(82683)	(82687)	(82664)	(49291)	(04037)	(82676)	(04024)	(82679)
Hc34-03	10-16-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
	10-16-00	<.007	<.002	<.010	<.006	<.011	--	.046	<.004	<.010	<.011
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Jc52-04	07-02-01	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Jc55-03	06-28-01	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Je41-08	10-26-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Le24-11	07-11-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
Le35-11	07-11-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
	06-27-01	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (82685)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (49236)	PROP- ICONA- ZOLE, WATER FLTRD REC (50471)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (38538)	SIDURON WATER FLTRD REC (38548)	SI- MAZINE, WATER, DISS, WTR FLT REC (04035)	SULFO- MET- RURON METHYL REC (50337)	TEBU- THIURON FLTRD 0.7 U GF, REC (82670)	TER- BACIL, WATER, DISS, REC (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (82665)
Hc34-03	10-16-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
	10-16-00	<.023	--	--	--	--	.015	--	E.007	--	<.034
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.023	<.01	<.021	<.01	<.017	<.011	<.002	<.016	<.01	<.034
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
Jc52-04	07-02-01	<.023	--	--	--	--	<.011	--	<.016	--	<.034
Jc55-03	06-28-01	<.023	--	--	--	--	E.003	--	<.016	--	<.034
Je41-08	10-26-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
Le24-11	07-11-01	<.023	<.01	<.002	<.01	<.017	<.011	<.001	<.016	<.01	<.034
Le35-11	07-11-01	<.023	<.01	<.021	<.01	<.017	<.011	<.009	<.016	<.01	<.034
	06-27-01	<.023	--	--	--	--	<.011	--	<.016	--	<.034
		TER- BUFOS WATER FLTRD 0.7 U GF, REC (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (82678)	TRI- BENURON METHYL WATER FLTRD (61159)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (49235)	TRI- ALIN METHYL WAT FLT 0.7 U GF, REC (82661)	UREA 3( 4-CHLOR OPHENYL METHYL WAT FLT REC (61692)	1,1,1- TRI- CHLORO- ETHANE TOTAL (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (34511)	1,1-DI- CHLORO- ETHANE TOTAL (34496)
Hc34-03	10-16-00	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
	10-16-00	<.017	<.005	<.002	--	--	<.009	--	2.44	<.06	.15
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
Jc52-04	07-02-01	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
Jc55-03	06-28-01	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
Je41-08	10-26-00	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
Le24-11	07-11-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	--	--	--
Le35-11	07-11-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	--	--	--
	06-27-01	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
		1,1-DI- CHLORO- ETHYL- ENE TOTAL (34501)	1,1-DI- CHLORO- PRO- PANE, WAT, WH TOTAL (77168)	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (77443)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (77651)	1,2-DI- CHLORO- ETHANE TOTAL (32103)	1,2-DI- CHLORO- PROPANE TOTAL (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (34546)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (77170)	2BUTENE TRANS-1 4-DI- CHLORO UNFLTRD RECOVER TOTAL (73547)	2-HEXA- NONE WATER TOTAL (77103)
Hc34-03	10-16-00	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
	10-16-00	.50	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
Je41-08	10-26-00	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	06-27-01	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7

E Estimated value.

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ACETONE	ACRYLO-	1, 2, 3-	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	
		WATER	NITRILE	TRI-	123-TRI	METHYL-	1, 2, 4-	124-TRI	METHYL	1, 3-DI-	14BRFL-	1, 4-DI-
		WHOLE	WAT, WH	CHLORO	WATER	CHLORO-	WAT UNF	METHYL	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD
		REC	REC	REC	RECOVER	REC	REC	REC	REC	REC	PERCENT	REC
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(99834)	(UG/L)
		(81552)	(34215)	(77613)	(77221)	(34551)	(77222)	(77226)	(34566)	(99834)	(99834)	(34571)
Hc34-03	10-16-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	90	<.05	
	10-16-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	90	<.05	
	10-16-00	--	--	--	--	--	--	--	--	--	--	
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--	
	08-23-01	--	--	--	--	--	--	--	--	--	--	
Jc43-05	10-26-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	93	<.05	
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--	
Jc55-03	06-28-01	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	100	<.05	
Je41-08	10-26-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	84	<.05	
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--	
	07-11-01	--	--	--	--	--	--	--	--	--	--	
Le35-11	06-27-01	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	78	<.05	

WELL NUMBER	DATE	ISO-	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BROMO-	BROMO-	BROMO-
		PROPYL-	N-BUTYL	N-PROPY	O-DI-	SEC	TERT-	BENZENE	WHOLE,	ETHENE	FORM
		WATER	WATER	WATER	CHLORO-	BUTYL-	BUTYL-	WHOLE,	WATER,	UNFLTRD	FORM
		WHOLE	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	WHOLE,	UNFLTRD	RECOVER	TOTAL
		REC	REC	REC	REC	REC	REC	TOTAL	TOTAL	RECOVER	TOTAL
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(77223)	(77342)	(77224)	(34536)	(77350)	(77353)	(34030)	(81555)	(50002)	(32104)
Hc34-03	10-16-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
	10-16-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
Je41-08	10-26-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06

WELL NUMBER	DATE	CARBON	CARBON	CHLORO-	CHLORO-	CHLORO-	CIS-1,2	CIS	DIBROMO	DI-	
		DI-	TETRA-	DI-	DI-	DI-	-DI-	1, 3-DI-	CHLORO-	BROMO-	
		SULFIDE	CHLO-	DI-	BROMO-	CHLORO-	CHLORO-	CHLORO-	PROPANE	METHANE	
		WATER	RIDE	METHANE	ETHANE	ETHANE	ETHENE	ETHENE	WATER	WATER	
		WHOLE	BENZENE	METHANE	TOTAL	TOTAL	FORM	PROPENE	WHOLE	WHOLE	
		TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOT. REC	RECOVER	
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
		(77041)	(32102)	(34301)	(32105)	(34311)	(32106)	(77093)	(34704)	(82625)	(30217)
Hc34-03	10-16-00	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.2	<.05
	10-16-00	<.07	<.06	<.03	<.2	<.1	.32	<.04	<.09	<.2	<.05
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.07	<.06	<.03	<.2	<.1	E.04	<.04	<.09	<.2	<.05
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.09	<.2	<.05
Je41-08	10-26-00	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.2	<.05
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.09	<.2	<.05

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	BROMO-DI-CHLORO-METHANE	DI-CHLORO-DI-FLUORO-METHANE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD	ETHANE, 1112-TETRA-CHLORO-WAT UNF	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF	ETHANE 1,2-DICL SURROG VOC UNFLTRD	ETHANE HEXA-CHLORO-WATER UNFLTRD	ETHER ETHYL WATER UNFLTRD	ETHER TERT-BUTYL ETHYL UNFLTRD	ETHER TERT-PENTYL METHYL UNFLTRD
		TOTAL (UG/L) (32101)	TOTAL (UG/L) (34668)	RECOVER (UG/L) (81577)	REC (UG/L) (77562)	REC (UG/L) (34516)	PERCENT (99832)	RECOVER (UG/L) (34396)	RECOVER (UG/L) (81576)	RECOVER (UG/L) (50004)	RECOVER (UG/L) (50005)
Hc34-03	10-16-00	<.05	<.3	<.1	<.03	<.09	115	<.2	<.2	<.05	<.1
	10-16-00	<.05	<.3	<.1	<.03	<.09	110	<.2	<.2	<.05	.1
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.05	<.3	<.1	<.03	<.09	123	<.2	<.2	<.05	<.1
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.05	<.3	<.1	<.03	<.09	95	<.2	<.2	<.05	<.1
Je41-08	10-26-00	<.05	<.3	<.1	<.03	<.09	119	<.2	<.2	<.05	<.1
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	<.05	<.3	<.1	<.03	<.09	111	<.2	<.2	<.05	<.1

WELL NUMBER	DATE	ETHYL-BENZENE	FREON-113 WATER UNFLTRD	FURAN, HYDRO-WATER UNFLTRD	HEXA-CHLORO-BUT-ADIENE TOTAL	ISO-DURENE WATER UNFLTRD	METHACRYLATE ETHYL-WATER UNFLTRD	METHACRYLATE METHYL WATER UNFLTRD	METH-ACRYLO-NITRILE WATER UNFLTRD	METHANE BROMO-CHLORO-WAT UNFLTRD	METHYL ACRYLATE WATER UNFLTRD
		TOTAL (UG/L) (34371)	REC (UG/L) (77652)	RECOVER (UG/L) (81607)	TOTAL (UG/L) (39702)	RECOVER (UG/L) (50000)	RECOVER (UG/L) (73570)	RECOVER (UG/L) (81597)	RECOVER (UG/L) (81593)	RECOVER (UG/L) (77297)	RECOVER (UG/L) (49991)
Hc34-03	10-16-00	<.03	E.04	<2	<.1	<.2	<.2	<.3	<.6	<.04	<.1
	10-16-00	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<.1
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<.1
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<.1
Je41-08	10-26-00	<.03	E.02	<2	<.1	<.2	<.2	<.3	<.6	<.04	<.1
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<.1

WELL NUMBER	DATE	METHYL IODIDE WATER UNFLTRD	METHYL TERT-BUTYL ETHER WAT UNF	METHYL-BROMIDE TOTAL	METHYL-CHLO-RIDE TOTAL	METHYL-ENE-CHLO-RIDE TOTAL	METHYL-ETHYL-KETONE WATER WHOLE TOTAL	METHYL-ISO-BUTYL KETONE WAT. WH. TOTAL	META/PARA-XYLENE WATER UNFLTRD REC TOTAL	O-CHLORO-TOLUENE WATER WHOLE TOTAL	
		RECOVER (UG/L) (77424)	REC (UG/L) (78032)	(UG/L) (34413)	(UG/L) (34418)	(UG/L) (34423)	(UG/L) (81595)	(UG/L) (78133)	(UG/L) (85795)	(UG/L) (34696)	(UG/L) (77275)
Hc34-03	10-16-00	<.1	<.2	<.3	<.2	E.1	<2	<.4	<.06	<.2	<.03
	10-16-00	<.1	8.6	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.1	.2	<.3	M	<.2	<2	<.4	<.06	<.2	<.03
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
Je41-08	10-26-00	<.1	.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

## QUALITY OF GROUND WATER DATA

## KENT COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3- CHLORO- WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD REC (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)
		Hc34-03	10-16-00	<.04	<.07	<.2	<.1	<.1	<.04	<.1	101
	10-16-00	<.04	<.07	<.2	<.1	<.1	<.04	M	100	<.06	<.06
	10-16-00	--	--	--	--	--	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	<.04	<.07	<.2	<.1	<.1	<.04	<.1	99	<.06	<.06
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	<.04	<.07	<.2	<.1	<.1	<.04	<.1	100	<.06	<.06
Je41-08	10-26-00	<.04	<.07	<.2	<.1	<.1	<.04	M	99	<.06	<.06
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	<.04	<.07	<.2	<.1	<.1	<.04	<.1	96	<.06	<.06
			TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L) AS CS-137 (03515)	RADIUM 226, DIS- SOLVED (09503)
Hc34-03	10-16-00	<.05	<.09	<.04	<.09	<.1	1.5	<3.00	3.8	<4.00	<1.00
	10-16-00	<.05	<.09	.81	<.09	<.1	2.9	5.11	4.2	6.73	<1.00
	10-16-00	--	--	--	--	--	3.1	5.83	4.1	4.61	<1.00
Ib32-05	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
Jc43-05	10-26-00	E.01	<.09	E.01	<.09	<.1	--	--	--	--	--
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	--	--
Jc55-03	06-28-01	E.02	<.09	<.04	<.09	<.1	--	--	--	--	--
Je41-08	10-26-00	E.01	<.09	<.04	<.09	<.1	--	--	--	--	--
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	--	--	--	--	--
Le35-11	06-27-01	E.02	<.09	<.04	<.09	<.1	--	--	--	--	--
			RADIUM 228 DIS- SOLVED (PCI/L) AS RA-228 (81366)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50834)	RA-224 2 SIGMA WATER, DISS, FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, FLTRD (PCI/L) (76001)	RA-228 2 SIGMA WATER, DISS, FLTRD (PCI/L) (76000)	RADON 222 TOTAL (PCI/L) (82303)	RADON 222, 2X CL, SS MDC, WATER, UNFLTRD (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURAL DIS- SOLVED (UG/L) AS U) (22703)
Hc34-03	10-16-00	<1.00	0	<1.00	.03	.40	<26.0	--	14	--	--
	10-16-00	1.13	.32	<1.00	.15	.46	167	--	18	--	--
	10-16-00	1.15	.24	<1.00	.12	.52	--	--	--	--	--
Ib32-05	08-23-01	--	--	--	--	--	1680	23.0	37	<.02	--
	08-23-01	--	--	--	--	--	1470	16.0	28	--	--
Jc43-05	10-26-00	--	--	--	--	--	--	--	--	--	--
Jc52-04	07-02-01	--	--	--	--	--	--	--	--	.46	--
Jc55-03	06-28-01	--	--	--	--	--	162	25.0	19	<.02	--
Je41-08	10-26-00	--	--	--	--	--	--	--	--	--	--
Le24-11	07-11-01	--	--	--	--	--	--	--	--	--	--
	07-11-01	--	--	--	--	--	323	25.0	22	E.02	--
Le35-11	06-27-01	--	--	--	--	--	151	25.0	18	<.02	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

NEW CASTLE COUNTY, DELAWARE

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	
Cd31-19	08-06-01	0930	394224075340501		BLANK	--	--	4040	--	--	
	08-06-01	1000			ENVIRONMENTAL	217PTMC	GW	4040	68	53.41	
Ec42-15	07-05-01	0930	393122075383201		ENVIRONMENTAL	112PCPC	GW	4040	53	--	
Gc14-03	07-17-01	1030	392414075361001		ENVIRONMENTAL	112CLMB	GW	4040	12	--	
	07-17-01	1035			REPLICATE	112CLMB	GW	4040	12	--	
			DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT- TOM OF SAMPLE VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	BARO- METRIC PRES- SURE OF (MM HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	
	08-06-01	75	75	72	65	.43	768	53.4	5.2	132	
Ec42-15	07-05-01	38	38	36	45	.45	760	87.2	7.9	343	
Gc14-03	07-17-01	80	80	60	65	.53	766	11.6	1.1	523	
	07-17-01	80	--	--	--	--	--	--	--	--	
		TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL AS CACO3 (00900)	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)	ALKA- LINITY WAT DIS TOT IT FIELD CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
Cd31-19	08-06-01	--	--	--	.07	E.008	<.09	1.8	--	M	
	08-06-01	33.0	17.0	35.3	7.91	3.74	1.35	9.1	14	18.8	
Ec42-15	07-05-01	29.0	20.0	109	20.9	13.8	1.72	4.8	16	24.8	
Gc14-03	07-17-01	32.5	18.0	201	77.6	1.76	1.50	5.8	183	223	
	07-17-01	--	--	--	--	--	--	--	--	--	
		FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AM- MONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
Cd31-19	08-06-01	<.2	.02	7.3	<.1	<.040	<.10	<.006	--	E.031	<.020
	08-06-01	<.2	.14	12.5	7.0	<.040	<.10	<.006	--	3.19	<.020
Ec42-15	07-05-01	<.2	.03	14.1	26.7	E.023	E.05	.007	14.0	14.0	<.020
Gc14-03	07-17-01	E.1	.06	27.7	10.9	<.040	<.10	E.003	--	3.54	<.020
	07-17-01	--	--	--	--	--	--	--	--	--	--
		TOTAL COLI- FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, NA-MUG, WATER (COL/ 100 ML) (50278)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)
Cd31-19	08-06-01	--	--	<10	--	39	.14	<.2	<1.0	<.06	331
	08-06-01	1	1	90	83.8	3	<.05	<.2	96.2	.21	10
Ec42-15	07-05-01	--	--	200	179	2	.06	.3	115	E.04	E4
Gc14-03	07-17-01	<1	<1	277	263	<1	<.05	E.1	3.7	<.06	15
	07-17-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

Geologic Unit (aquifer): 112CLMB - Columbia aquifer  
 112PCPC - Pleistocene-Pliocene Series  
 217PTMC - Potomac Group

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump

QUALITY OF GROUND WATER DATA

NEW CASTLE COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
		Cd31-19	08-06-01	.04	<.8	.04	.7	30	.51	<.3	2.7
	08-06-01	<.04	1.4	.84	1.0	<10	.12	4.1	8.6	<.2	5.26
Ec42-15	07-05-01	E.03	E.5	.08	148	10	4.75	.6	1.8	<.2	.73
Gc14-03	07-17-01	<.04	<.8	.09	7.8	<10	.36	9.7	.5	.2	<.06
	07-17-01	--	--	--	--	--	--	--	--	--	--
		SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC, DIS-SOLVED (MG/L AS C) (00681)	2,4,5-T SURROG WATER FLTRD REC (99958)	2,4-D METHYL ESTER, WATER FLTRD REC (50470)	2,4-D, DIS-SOLVED (UG/L) (39732)
Cd31-19	08-06-01	<.3	<1.0	.13	<.04	<.2	9	--	--	--	--
	08-06-01	.7	<1.0	65.6	<.04	<.2	8	.62	91	<.009	<.02
Ec42-15	07-05-01	8.0	<1.0	191	<.04	<.2	21	.58	--	--	--
Gc14-03	07-17-01	<.3	<1.0	157	<.04	E.1	5	1.0	E90	<.009	<.02
	07-17-01	--	--	--	--	--	--	--	E91	<.009	<.02
		2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DIETHYL ANILINE WAT,FLT GF 0.7 U (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U (UG/L) (49308)	3-KETO CARBO-FURAN WAT,FLT GF 0.7U (UG/L) (50295)	ACETO-CHLOR ESA FLTRD GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD GF REC (UG/L) (61030)	ACIFLUORFEN WATER, FLTRD, GF 0.7U (UG/L) (49315)	ALA-CHLOR OA FLTRD GF REC (UG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U (UG/L) (50009)	
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05	<.050
Ec42-15	07-05-01	--	<.002	--	--	.74	<.05	<.004	--	.05	.350
Gc14-03	07-17-01	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05	.050
	07-17-01	<.02	<.002	<.01	<1.50	--	--	<.004	<.01	--	--
		ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U (UG/L) (49313)	ALDICA-RB SULFOXIDE WAT,FLT GF 0.7U (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN SURROG ATE WTR FLT SCF 2060, 9060 RE (90640)	BENDIO-CARB, WATER, FLTRD REC (UG/L) (50299)	BEN-FLUR-ALIN WAT FLT GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD REC (UG/L) (50300)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.002	<.02	<.01	<.04	<.005	.009	97	<.025	<.010	<.004
Ec42-15	07-05-01	.041	--	--	--	<.005	.657	--	--	<.010	--
Gc14-03	07-17-01	<.002	<.02	<.01	<.04	<.005	<.007	E105	<.025	<.010	<.004
	07-17-01	<.002	<.02	<.01	<.04	<.005	<.007	E105	<.025	<.010	<.004
		BEN-SUL-FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA-ZON, WATER, FLTRD, GF 0.7U (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER, FLTRD REC (UG/L) (50305)	CAF-FEINE-C13 SURROG WAT FLT REC (99959)	CAR-BARYL, WATER, FLTRD, GF 0.7U (UG/L) (49310)	CAR-BARYL, WATER, FLTRD, GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U (UG/L) (49309)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.0158	<.01	E.21	<.02	<.002	<.010	122	<.03	<.041	<.01
Ec42-15	07-05-01	--	--	--	--	<.002	--	--	--	<.041	--
Gc14-03	07-17-01	<.0158	<.01	<.03	<.02	<.002	<.010	E163	<.03	<.041	<.01
	07-17-01	<.0158	<.01	<.03	<.02	<.002	<.010	E155	<.03	<.041	<.01

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## NEW CASTLE COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	CARBO-FURAN WATER, FLTRD 0.7 U	CHLOR-AMBYN, METHYL ESTER WATER, FLTRD (UG/L)	CHLORI-MURON, WATER, FLTRD (UG/L)	CHLORO-THALO-NIL, WAT, FLT GF 0.7U (UG/L)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L)	CLOPYR-ALID, WATER, FLTRD GF 0.7U (UG/L)	CYANA-ZINE, WATER, DISS, REC (UG/L)	SI-CLOATE, WATER, DISS, REC (UG/L)	DACTHAL-MONO-ACID, WAT, FLT GF 0.7U (UG/L)	DCPA WATER, FLTRD 0.7 U (UG/L)
		(82674)	(61188)	(50306)	(49306)	(38933)	(49305)	(04041)	(04031)	(49304)	(82682)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003
Ec42-15	07-05-01	<.020	--	--	--	<.005	--	<.018	--	--	<.003
Gc14-03	07-17-01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003
	07-17-01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003
		DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L)	DEETHYL-DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L)	DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L)	DIAZ-D10 SRG WAT FLT 0.7 U GF, REC PERCENT (UG/L)	DI-AZINON, DIS-SOLVED (UG/L)	DICAMBA-WATER, FLTRD GF 0.7U (UG/L)	DICHLOR-PROP, WATER, FLTRD GF 0.7U (UG/L)	DI-ELDRIN, DIS-SOLVED (UG/L)	DIMETH-ENAMID, OXA, WATER, FLT, REC (UG/L)	DIMETH-ENAMID, ESA, WAT FLT (UG/L)
		(04040)	(04039)	(04038)	(91063)	(39572)	(38442)	(49302)	(39381)	(62482)	(61951)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	E.004	<.01	<.04	103	<.005	<.01	<.01	.005	<.0500	<.05
Ec42-15	07-05-01	E.208	--	--	102	<.005	--	--	<.005	<.0500	<.05
Gc14-03	07-17-01	<.006	<.01	<.04	100	<.005	<.01	<.01	<.005	<.0500	<.05
	07-17-01	<.006	<.01	<.04	92	<.005	<.01	<.01	<.005	--	--
		DINOSEB-WATER, FLTRD GF 0.7U (UG/L)	DIPHEN-AMID, WATER, DISS, REC (UG/L)	DISUL-FOTON, WATER, FLTRD GF, REC (UG/L)	DIURON, WATER, FLTRD GF 0.7U (UG/L)	EPTC-WATER, FLTRD GF, REC (UG/L)	ETHAL-FLUR-ALIN, WAT FLT GF, REC (UG/L)	ETHO-PROP, WATER, FLTRD GF 0.7U (UG/L)	FEN-URON, WATER, FLTRD GF 0.7U (UG/L)	FLUFEN-ACET, ESA, WAT FLT (UG/L)	FLUFE-NACET, OXA, WATER, FLT, REC (UG/L)
		(49301)	(04033)	(82677)	(49300)	(82668)	(82663)	(82672)	(49297)	(61952)	(62483)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.0003	<.03	<.021	<.0032	<.002	<.009	<.005	<.0011	<.05	<.0500
Ec42-15	07-05-01	--	--	<.021	--	<.002	<.009	<.005	--	<.05	<.0500
Gc14-03	07-17-01	<.01	<.03	<.021	<.0010	<.002	<.009	<.005	<.0006	<.05	<.0500
	07-17-01	<.01	<.03	<.021	<.0009	<.002	<.009	<.005	<.0006	--	--
		FLUMET-SULAM, WATER, FLTRD REC (UG/L)	FLUO-METURON, WATER, FLTRD GF 0.7U (UG/L)	FONOFOS, WATER, DISS, REC (UG/L)	HCH-ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (UG/L)	HYDROXY-ATRA-ZINE, WATER, FLTRD REC (UG/L)	IMAZ-AQUIN, WATER, FLTRD REC (UG/L)	IMAZE-THAPYR, WATER, FLTRD REC (UG/L)	IMID-ACLOP-RID, WATER, FLTRD REC (UG/L)	LINDANE, DIS-SOLVED (UG/L)	LINURON, WATER, FLTRD GF 0.7U (UG/L)
		(61694)	(38811)	(04095)	(91065)	(50355)	(50356)	(50407)	(61695)	(39341)	(38478)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.0110	<.03	<.003	101	<.008	<.016	E.005	<.0068	<.004	<.01
Ec42-15	07-05-01	--	--	<.003	125	--	--	--	--	<.004	--
Gc14-03	07-17-01	<.0110	<.03	<.003	102	<.008	<.016	<.017	<.0068	<.004	<.01
	07-17-01	<.0110	<.03	<.003	92	<.008	<.016	<.017	<.0068	<.004	<.01
		LIN-URON, WATER, FLTRD 0.7 U GF, REC (UG/L)	MALA-THION, DIS-SOLVED (UG/L)	MCPA, WATER, FLTRD GF 0.7U (UG/L)	MCPB, WATER, FLTRD GF 0.7U (UG/L)	METAL-AXYL, WATER, FLTRD REC (UG/L)	METHIO-CARB, WATER, FLTRD GF 0.7U (UG/L)	METH-OMYL, OXIME, WATER, FLTRD REC (UG/L)	METH-OMYL, WATER, FLTRD GF 0.7U (UG/L)	METHYL-AZIN-THION, WAT FLT 0.7 U GF, REC (UG/L)	METHYL-PARA-THION, WAT FLT 0.7 U GF, REC (UG/L)
		(82666)	(39532)	(38482)	(38487)	(50359)	(38501)	(61696)	(49296)	(82686)	(82667)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006
Ec42-15	07-05-01	<.035	<.027	--	--	--	--	--	--	<.050	<.006
Gc14-03	07-17-01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006
	07-17-01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

NEW CASTLE COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	METOLA-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)
		Cd31-19	08-06-01	--	--	--	--	--	--	--	--
	08-06-01	<.05	<.05	E.003	<.006	<.0250	<.002	<.007	<.01	<.013	<.02
Ec42-15	07-05-01	17.0	4.13	.603	<.006	--	<.002	<.007	--	--	--
Gc14-03	07-17-01	<.05	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02
	07-17-01	--	--	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02
		ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER FLTRD, GF 0.7U REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS- SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH- ALIN WAT FLT GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT GF, REC (UG/L) (82687)	PHORATE WATER FLTRD GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
Ec42-15	07-05-01	--	--	--	<.003	<.007	<.002	<.010	<.006	<.011	--
Gc14-03	07-17-01	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
	07-17-01	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
		PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP-ICONA- ZOLE , WATER FLTRD GF 0.7U REC (UG/L) (50471)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017	<.011
Ec42-15	07-05-01	<.015	<.004	<.010	<.011	<.023	--	--	--	--	E.003
Gc14-03	07-17-01	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017	<.011
	07-17-01	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017	<.011
		SULFO-MET- RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER, FLTRD, DISS, REC (UG/L) (04032)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-BENURON METHYL WATER FLTRD GF 0.7U REC (UG/L) (61159)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR- ALIN WAT FLT GF, REC (UG/L) (82661)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02	<.009
Ec42-15	07-05-01	--	<.016	--	<.034	<.017	<.005	<.002	--	--	<.009
Gc14-03	07-17-01	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02	<.009
	07-17-01	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02	<.009
		UREA 3( 4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1-DI- CHLORO- PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.0242	<.03	<.06	.12	<.04	<.03	<.2	<.04	<.1	<.03
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.0242	<.03	<.06	<.04	<.04	<.03	<.2	<.04	<.1	<.03
	07-17-01	<.0242	--	--	--	--	--	--	--	--	--

E Estimated value.  
< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

NEW CASTLE COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	TRANS-1,2-DI-CHLORO-ETHENE	2,2-DI-CHLORO-PRO-PANE	2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD	2-HEXA-NONE WATER	ACETONE WATER	ACRYLO-NITRILE	1,2,3-TRI-CHLORO-BENZENE	BENZENE 123-TRI-METHYL-WATER	BENZENE 1,2,4-TRI-CHLORO-WAT UNF	BENZENE 124-TRI-METHYL UNFILT
		TOTAL RECOVER (UG/L) (34546)	TOTAL RECOVER (UG/L) (77170)	TOTAL RECOVER (UG/L) (73547)	TOTAL RECOVER (UG/L) (77103)	TOTAL RECOVER (UG/L) (81552)	TOTAL RECOVER (UG/L) (34215)	TOTAL RECOVER (UG/L) (77613)	TOTAL RECOVER (UG/L) (77221)	TOTAL RECOVER (UG/L) (34551)	TOTAL RECOVER (UG/L) (77222)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1	<.2	<.06
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1	<.2	<.06
	07-17-01	--	--	--	--	--	--	--	--	--	--
		BENZENE 135-TRI-METHYL UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL-WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY-WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC-BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.04	<.03	78	E.02	<.03	<.2	<.04	<.03	<.03	<.06
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.04	<.03	93	<.05	<.03	<.2	<.04	<.03	<.03	<.06
	07-17-01	--	--	--	--	--	--	--	--	--	--
		BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-ETHENE WATER UNFLTRD REC (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.04
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	<.02
	07-17-01	--	--	--	--	--	--	--	--	--	--
		CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.04	<.09	<.5	<.05	<.05	<.3	<.1	<.03	<.09	116
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.04	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	76
	07-17-01	--	--	--	--	--	--	--	--	--	--
		ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC-RYLATE ETHYL-WATER UNFLTRD RECOVER (UG/L) (73570)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2	<.2
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2	<.2
	07-17-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

NEW CASTLE COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	METHAC- RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH- ACRYLO- NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO- CHLORO- WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY- LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (UG/L) (81595)
		Cd31-19	08-06-01	--	--	--	--	--	--	--	--
	08-06-01	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2	<.2	<2
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2	<.2	<2
	07-17-01	--	--	--	--	--	--	--	--	--	--
		METHYL ISO- BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH- ALENE TOTAL (UG/L) (34696)	O- CHLORO- TOLUENE WHOLE TOTAL (UG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO- PROPYL- TOLUENE WHOLE REC (UG/L) (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3- CHLORO- WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.4	<.06	<.5	<.03	<.04	<.07	<.2	<.1	<.1	<.04
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	--
Gc14-03	07-17-01	<.4	<.06	<.2	<.03	<.04	<.07	<.2	<.1	<.1	<.04
	07-17-01	--	--	--	--	--	--	--	--	--	--
		TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD REC (PERCENT) (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOLUENE TOTAL (UG/L) (34010)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	RADIUM 226, DIS- SOLVED (PCI/L) (09503)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	<.1	97	<.06	<.06	<.05	<.09	<.04	<.09	<.1	--
Ec42-15	07-05-01	--	--	--	--	--	--	--	--	--	.14
Gc14-03	07-17-01	<.1	100	<.06	<.06	<.05	<.09	<.04	<.09	<.1	--
	07-17-01	--	--	--	--	--	--	--	--	--	--
		RADIUM 228 DIS- SOLVED (PCI/L) AS RA-228) (81366)	RA-224 2 SIGMA WATER, FLTRD (PCI/L) (50834)	RADIUM 224, 2X CL, SS MDC, WATER, FLTRD (PCI/L) (99324)	RA-224 WATER FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, FLTRD (PCI/L) (76001)	RADIUM 226, 2X CL, SS MDC, WATER, DISS, FLTRD (PCI/L) (99325)	RA-228 2 SIGMA WATER, DISS, FLTRD (PCI/L) (76000)	RADIUM 228, 2X CL, SS MDC, WATER, FLTRD (PCI/L) (99326)	RADON 222 TOTAL (PCI/L) (82303)	RADON 222, 2X CL, SS MDC, WATER, UNFLTRD (PCI/L) (99327)
Cd31-19	08-06-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	140	33.0
Ec42-15	07-05-01	.74	.07	.04300	.11	.13	.14000	.50	.89700	--	--
Gc14-03	07-17-01	--	--	--	--	--	--	--	--	133	27.0
	07-17-01	--	--	--	--	--	--	--	--	--	--
		RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURA DIS- SOLVED (UG/L) AS U) (22703)								
Cd31-19	08-06-01	--	<.02								
	08-06-01	22	.04								
Ec42-15	07-05-01	--	<.02								
Gc14-03	07-17-01	20	.75								
	07-17-01	--	--								

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SUSSEX, DELAWARE

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	STATION TYPE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
DG-4	05-23-01	1000	384927075170501	ENVIRONMENTAL	112CLMB	GW	4080	2.5	.60
DG-8	05-23-01	1135	384926075170502	ENVIRONMENTAL	112CLMB	GW	4080	2.1	-0.20
DG-8S	05-23-01	1029	384926075170503	BLANK	--	--	4080	--	--
	05-23-01	1050		ENVIRONMENTAL	112CLMB	GW	4080	2.1	.10
DG-9	05-25-01	1000	384925075170501	ENVIRONMENTAL	112CLMB	GW	4080	2.0	-0.10
DZ-0	05-18-01	1000	384926075170601	ENVIRONMENTAL	112CLMB	GW	4080	3	1.50
DZ-1	05-18-01	0930	384926075170602	ENVIRONMENTAL	112CLMB	GW	4080	3.9	1.60
DZ-2	05-16-01	1415	384926075170504	ENVIRONMENTAL	112CLMB	GW	4080	2.2	-0.20
DZ-3	05-18-01	1115	384926075170603	ENVIRONMENTAL	112CLMB	GW	4080	2.6	.20
Forest Hills 1	10-12-00	1100	383705075192801	ENVIRONMENTAL	112BVDM	GW	8030	33.0	--
Nh53-01	10-24-00	1000	384530075121101	ENVIRONMENTAL	112CLMB	GW	8030	16.2	--
Oc21-02	07-25-01	1000	384322075394401	ENVIRONMENTAL	112CLMB	GW	4040	50	6.35
	07-25-01	1005		REPLICATE	112CLMB	GW	4040	50	--
Oc21-03	07-25-01	1300	384323075393201	ENVIRONMENTAL	112CLMB	GW	4040	50	4.72
Oe44-01	07-24-01	1500	384150075265301	ENVIRONMENTAL	112CLMB	GW	4040	39	8.10
Oe44-02	07-24-01	1200	384150075265302	ENVIRONMENTAL	112CLMB	GW	4040	39	7.20
	07-24-01	1210		REPLICATE	112CLMB	GW	4040	39	--
Oi25-19	11-01-00	1000	384326075050801	ENVIRONMENTAL	112CLMB	GW	8030	5.0	--
PH-DG-5	05-16-01	1500	384926075170501	ENVIRONMENTAL	112CLMB	GW	4080	2.3	0
	05-16-01	1505		REPLICATE	112CLMB	GW	4080	2.3	--
	08-23-01	1020		BLANK	--	GW	4080	2.3	--
	08-23-01	1025		ENVIRONMENTAL	112CLMB	GW	4080	2.3	.10
	08-23-01	1030		BLANK	--	--	4080	--	--
PH-UG	05-16-01	0959	384923075170901	BLANK	--	--	4080	--	--
	05-16-01	1000		ENVIRONMENTAL	112CLMB	GW	4080	4.8	2.00
PN1	10-11-00	1000	383649075090801	ENVIRONMENTAL	112CLMB	GW	8030	7.9	--
	10-11-00	1001		REPLICATE	112CLMB	GW	8030	7.9	--
Pi12-08	10-24-00	1300	383947075083401	ENVIRONMENTAL	112CLMB	GW	8030	17.5	--
Qc22-04	08-28-01	0900	383308075382301	BLANK	112CLMB	GW	4040	26	--
	08-28-01	1100		ENVIRONMENTAL	112CLMB	GW	4040	26	10.80
Qd52-09	10-12-00	0900	383000075326001	ENVIRONMENTAL	112BVDM	GW	8030	39.2	--
Ri22-03	09-05-01	1100	382825075081601	ENVIRONMENTAL	112CLMB	GW	4040	15	--
	09-05-01	1105		REPLICATE	112CLMB	GW	4040	15	--
	09-05-01	1300		BLANK	--	--	4040	--	--
UG-2	05-16-01	1200	384923075170601	ENVIRONMENTAL	112CLMB	GW	4080	2.4	.20

Geologic Unit (aquifer): 112BVDM - Beaverdam Sand  
112CLMB - Columbia aquifer

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
4080 - Peristaltic pump  
8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
DG-4	05-23-01	4.70	4.7	3.7	10	E.25	758	29.4	3.0	6.0	106
DG-8	05-23-01	5.00	5.0	4.0	15	.25	758	29.4	3.0	6.1	144
DG-8S	05-23-01	1.9	--	--	--	--	--	--	--	--	--
	05-23-01	1.90	1.9	0	19	.20	758	19.7	1.9	5.6	94
DG-9	05-25-01	3.10	3.1	2.1	7	.20	758	60.1	6.0	6.4	152
DZ-0	05-18-01	3.12	3.1	.12	27	E.17	761	13.5	1.3	5.2	37
DZ-1	05-18-01	4.70	4.7	1.7	25	.25	761	17.6	1.7	5.3	66
DZ-2	05-16-01	10.17	10	7.1	25	.25	760	29.4	3.1	5.3	88
DZ-3	05-18-01	7.60	7.6	6.6	10	E.25	761	--	2.2	5.3	81
Forest Hills 1	10-12-00	110	110	--	28	--	777	51.0	5.3	5.5	118
Nh53-01	10-24-00	110	110	100	30	--	781	30.3	3.2	5.0	97
Oc21-02	07-25-01	45.00	45	35	52	.79	764	85.9	8.5	5.5	199
	07-25-01	45	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	23	23	20	45	.37	764	86.9	8.6	5.1	193
Oe44-01	07-24-01	18.5	18	16	95	.08	765	1.0	.1	4.8	70
Oe44-02	07-24-01	90	90	50	135	.52	765	3.0	.3	6.1	67
	07-24-01	90	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	37	37	27	30	--	764	32.3	3.3	5.5	261
PH-DG-5	05-16-01	1.90	1.9	0	18	.50	760	13.9	1.4	5.5	67
	05-16-01	4	--	--	--	--	--	--	--	--	--
	08-23-01	4	--	--	--	--	--	--	--	--	--
	08-23-01	1.85	1.9	0	10	.17	763	23.9	2.0	5.5	82
	08-23-01	4	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	4	--	--	--	--	--	--	--	--	--
	05-16-01	4.20	4.2	1.2	20	.25	760	19.0	2.0	5.9	173
PN1	10-11-00	85.00	85	--	27	--	774	48.7	5.1	5.4	63
	10-11-00	85.00	85	--	27	--	--	--	--	--	--
Pi12-08	10-24-00	70.00	55	45	60	--	780	59.7	6.3	5.7	84
Qc22-04	08-28-01	29	--	--	--	--	--	--	--	--	--
	08-28-01	29	29	26	50	.39	763	67.8	7.0	5.0	119
Qd52-09	10-12-00	70	70	60	25	--	778	32.3	3.4	5.4	51
Ri22-03	09-05-01	50	50	40	75	.80	767	1.0	.1	6.3	227
	09-05-01	50	--	--	--	--	--	--	--	--	--
	09-05-01	50	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	8.90	8.9	5.9	20	E.25	760	31.7	3.3	4.8	191

E Estimated value.  
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## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CI) (00940)
DG-4	05-23-01	--	14.4	14.1	3.54	1.27	2.03	3.3	8	10	5.3
DG-8	05-23-01	19.5	15.0	55.9	15.9	3.94	2.22	3.3	26	32	6.4
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	19.0	16.1	31.9	6.19	3.98	2.16	2.7	13	15	5.5
DG-9	05-25-01	20.0	15.2	46.5	7.44	6.78	3.98	6.4	4	4	16.2
DZ-0	05-18-01	14.5	17.2	6.8	1.89	.501	.55	2.6	5	6	2.8
DZ-1	05-18-01	--	16.4	12.7	3.26	1.11	2.27	2.7	15	18	3.4
DZ-2	05-16-01	18.5	12.8	26.3	2.95	4.59	2.68	2.3	--	--	4.4
DZ-3	05-18-01	16.5	--	22.4	2.77	3.76	2.00	1.8	2	3	3.0
Forest Hills 1	10-12-00	20.5	14.5	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	15.5	14.0	16.2	3.73	1.68	1.77	11.8	3	4	12.1
Oc21-02	07-25-01	29.0	16.0	62.9	19.6	3.29	1.88	11.2	6	7	15.9
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	34.0	16.0	64.6	12.1	8.23	1.25	10.1	3	4	9.8
Oe44-01	07-24-01	31.0	16.0	14.0	3.75	1.08	.92	8.4	2	2	22.9
Oe44-02	07-24-01	30.5	15.5	3.15	.86	.228	.80	7.6	25	30	6.6
	07-24-01	--	--	3.18	.87	.230	.80	7.7	--	--	6.8
Oi25-19	11-01-00	10.5	14.5	52.0	8.05	7.75	2.23	18.1	15	19	30.8
PH-DG-5	05-16-01	18.0	14.8	14.9	3.70	1.37	2.87	4.1	19	23	6.6
	05-16-01	--	--	14.7	3.67	1.34	3.18	4.2	--	--	6.4
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	30.2	23.1	--	--	--	--	--	22	27	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	<.01	<.008	<.09	<.1	--	--	<.1
	05-16-01	16.0	13.0	63.1	14.1	6.76	6.83	2.2	13	16	15.4
PN1	10-11-00	17.5	14.0	8.53	1.98	.868	1.41	10.5	8	9	10.5
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	17.0	14.0	28.8	5.93	3.41	1.65	14.9	15	18	22.0
Qc22-04	08-28-01	--	--	1.19	.46	.010	E.08	.1	--	--	E.1
	08-28-01	30.0	14.0	30.6	4.16	4.85	2.39	9.2	3	4	9.3
Qd52-09	10-12-00	15.0	14.0	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	27.0	16.0	72.3	25.2	2.25	1.26	10.2	100	122	10.1
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	.03	<.008	<.09	<.1	--	--	<.1
UG-2	05-16-01	19.5	13.4	52.1	4.94	9.67	5.36	6.8	--	--	17.3

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)
DG-4	05-23-01	<.2	--	5.8	8.9	--	--	--	--	--	--
DG-8	05-23-01	<.2	--	7.9	21.8	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	<.2	--	9.1	16.9	--	--	--	--	--	--
DG-9	05-25-01	<.2	--	10.4	.8	--	--	--	--	--	--
DZ-0	05-18-01	<.2	--	5.4	3.6	--	--	--	--	--	--
DZ-1	05-18-01	<.2	--	4.4	6.1	--	--	--	--	--	--
DZ-2	05-16-01	<.2	--	10.7	21.9	--	--	--	--	--	--
DZ-3	05-18-01	<.2	--	7.9	21.9	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<.2	.05	15.4	3.5	<.041	<.10	<.08	<.006	--	--
Oc21-02	07-25-01	<.2	.03	21.9	6.6	<.040	<.10	--	<.006	--	--
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.2	<.01	15.3	16.9	<.040	.14	--	<.006	--	14.1
Oe44-01	07-24-01	<.2	<.01	5.5	3.6	.093	.27	--	<.006	.173	--
Oe44-02	07-24-01	<.2	.05	32.5	4.1	E.029	E.08	--	E.003	--	--
	07-24-01	<.2	.07	32.5	4.2	E.039	E.08	--	<.006	--	--
Oi25-19	11-01-00	<.2	.12	14.1	26.7	<.041	<.10	E.05	<.006	--	--
PH-DG-5	05-16-01	<.2	--	8.2	.6	--	--	--	--	--	--
	05-16-01	<.2	--	8.0	.8	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	<.2	--	<.5	<.1	--	--	--	--	--	--
	05-16-01	<.2	--	3.3	15.6	--	--	--	--	--	--
PN1	10-11-00	<.2	.05	18.5	1.5	<.041	E.08	<.08	<.006	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	E.1	.06	15.6	11.0	<.041	<.10	<.08	<.006	--	--
Qc22-04	08-28-01	<.2	<.01	<.1	E.1	<.040	<.10	--	<.006	--	--
	08-28-01	<.2	.02	10.8	5.2	<.040	E.07	--	<.006	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.2	<.01	42.5	2.6	E.494	.53	--	E.043	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	<.2	<.01	<.1	<.1	<.040	<.10	--	<.006	--	--
UG-2	05-16-01	<.2	--	11.8	23.1	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	TOTAL COLI- FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, NA-MUG, WATER (COL/ 100 ML) (50278)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)
DG-4	05-23-01	--	--	--	--	--	--	--	--	35.2	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	77.1	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	54.9	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	54.3	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	22	3
DZ-1	05-18-01	--	--	--	--	--	--	--	--	35.6	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	12
DZ-3	05-18-01	--	--	--	--	--	--	--	--	45.7	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	5.55	<.006	<.018	<.004	--	--	--	65	76.6	--
Oc21-02	07-25-01	14.1	--	<.020	--	--	<1	<1	179	147	<1
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	14.0	--	<.020	--	--	--	--	140	138	9
Oe44-01	07-24-01	<.050	--	<.020	--	--	--	--	61	49.4	189
Oe44-02	07-24-01	.060	--	E.013	--	--	<1	<1	65	79.8	<1
	07-24-01	.064	--	.018	--	.055	--	--	63	--	<1
Oi25-19	11-01-00	1.16	E.003	<.018	.006	--	--	--	126	122	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	40	60
	05-16-01	--	--	--	--	--	--	--	--	--	53
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	<1
	05-16-01	--	--	--	--	--	--	--	--	72	1
PN1	10-11-00	2.67	<.006	<.018	<.004	--	--	--	60	61.6	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	3.49	<.006	<.018	E.002	--	--	--	83	98.8	--
Qc22-04	08-28-01	E.046	--	<.020	--	--	--	--	<10	--	1
	08-28-01	E9.72	--	<.020	--	--	--	--	85	48.2	33
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	E.063	--	E.010	--	--	--	--	168	168	<1
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	E.025	--	<.020	--	--	--	--	<10	--	<1
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
DG-4	05-23-01	1.58	.2	--	--	--	--	--	--	--	50
DG-8	05-23-01	5.54	1.2	--	--	--	--	--	--	--	220
DG-8S	05-23-01	.09	<.2	--	--	--	--	--	--	--	--
	05-23-01	22.9	22.0	--	--	--	--	--	--	--	270
DG-9	05-25-01	2.78	.2	--	--	--	--	--	--	--	<10
DZ-0	05-18-01	.43	--	23.5	E.04	--	1.01	<.8	1.81	E.2	2180
DZ-1	05-18-01	.40	1.5	--	--	--	--	--	--	--	3160
DZ-2	05-16-01	17.0	--	118	.07	--	.22	<.8	1.05	<.2	800
DZ-3	05-18-01	13.9	11.0	--	--	--	--	--	--	--	550
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	--	--	--	--	--	--	--	--	--	M
Oc21-02	07-25-01	<.05	E.1	167	.40	16	.05	6.1	.06	.4	<10
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.05	<.2	130	1.52	9	.05	2.2	.12	.9	M
Oe44-01	07-24-01	<.05	1.5	172	.52	8	<.04	1.3	1.08	<.2	1670
Oe44-02	07-24-01	<.05	6.2	49.8	E.05	E6	.10	<.8	6.22	<.2	11900
	07-24-01	<.05	6.2	49.2	E.05	E6	.12	<.8	6.33	<.2	11800
Oi25-19	11-01-00	--	<2.0	--	--	--	--	--	--	--	<10
PH-DG-5	05-16-01	51.8	--	35.4	E.04	--	.80	<.8	.93	.3	540
	05-16-01	59.9	--	39.0	E.03	--	.50	<.8	.91	<.2	590
	08-23-01	<.05	--	--	--	--	--	--	--	--	--
	08-23-01	65.0	--	--	--	--	--	--	--	--	--
	08-23-01	.14	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	<.05	--	<1.0	<.06	--	<.04	<.8	<.01	<.2	<10
	05-16-01	.07	--	73.8	<.06	--	.06	<.8	.60	<.2	<10
PN1	10-11-00	--	--	--	--	--	--	--	--	--	20
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	--	--	--	--	--	--	--	--	<10
Qc22-04	08-28-01	.06	<.2	<1.0	<.06	<7	<.04	<.8	E.01	.5	<10
	08-28-01	<.05	<.2	181	.38	10	.06	E.6	1.07	.9	<10
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.05	1.4	8.8	.23	13	<.04	<.8	4.46	<.2	14000
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	E.03	<.2	<1.0	<.06	<7	<.04	<.8	.03	.5	M
UG-2	05-16-01	.14	E.2	--	--	--	--	--	--	--	20

E Estimated value.

< Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
DG-4	05-23-01	131	--	12.2	--	.82	--	--	--	--	--
DG-8	05-23-01	11.3	--	E43.9	--	2.43	--	--	--	--	--
DG-8S	05-23-01	1.44	--	--	--	.06	--	--	--	--	--
	05-23-01	357	--	35.0	--	1.60	--	--	--	--	--
DG-9	05-25-01	112	--	39.6	--	2.33	--	--	--	--	--
DZ-0	05-18-01	7.56	--	--	<.2	.52	--	<1.0	--	--	--
DZ-1	05-18-01	14.4	--	120	--	1.07	--	--	--	--	--
DZ-2	05-16-01	529	--	67.9	<.2	1.60	--	<1.0	--	--	--
DZ-3	05-18-01	491	--	67.9	--	1.35	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	--	--	17.4	--	--	--	--	--	--	--
Oc21-02	07-25-01	.09	1.6	1.6	<.2	1.47	3.7	<1.0	372	<.04	.2
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	.10	1.1	19.6	<.2	2.45	E.2	<1.0	309	<.04	.3
Oe44-01	07-24-01	<.08	1.7	16.2	<.2	1.68	E.3	<1.0	27.3	<.04	4.6
Oe44-02	07-24-01	<.08	.7	98.2	<.2	2.48	<.3	<1.0	18.3	<.04	<.2
	07-24-01	<.08	.8	99.0	<.2	2.61	<.3	<1.0	18.3	<.04	<.2
Oi25-19	11-01-00	--	--	<3.2	--	--	--	--	--	--	--
PH-DG-5	05-16-01	1010	--	19.0	<.2	1.46	--	<1.0	--	--	--
	05-16-01	777	--	19.0	<.2	.86	--	<1.0	--	--	--
	08-23-01	<.08	--	--	--	--	<.3	--	--	--	--
	08-23-01	1420	--	--	--	--	<.3	--	--	--	--
	08-23-01	.09	--	--	--	--	<.3	--	--	--	--
PH-UG	05-16-01	<.08	--	<.1	<.2	<.06	--	<1.0	--	--	--
	05-16-01	.80	--	41.5	<.2	.34	--	<1.0	--	--	--
PN1	10-11-00	--	--	E1.8	--	--	--	--	--	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	--	<3.2	--	--	--	--	--	--	--
Qc22-04	08-28-01	1.47	<.3	1.1	<.2	.25	<.3	<1.0	.12	<.04	<.2
	08-28-01	1.46	1.7	31.2	<.2	.67	.8	<1.0	131	E.02	E.2
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.08	1.4	140	E.1	1.19	<.3	<1.0	117	<.04	.6
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	E.06	<.3	2.9	<.2	.57	<.3	<1.0	<.08	<.04	<.2
UG-2	05-16-01	6.25	--	76.5	--	3.02	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	2,4,5-T WATER FLTRD REC PERCENT (99958)	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	3-KETO CARBO- FURAN WATER FLTRD REC (UG/L) (50295)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	3	--	1.6	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	5	--	5.5	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	<.002	--	--
Nh53-01	10-24-00	--	--	--	--	--	--	--	<.002	--	--
Oc21-02	07-25-01	5	.62	--	73	<.009	<.02	<.02	<.002	<.01	<1.50
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	16	.97	--	87	<.009	<.02	<.02	<.002	<.01	<1.50
Oe44-01	07-24-01	2	4.7	--	75	<.009	<.02	<.02	.002	<.01	<1.50
Oe44-02	07-24-01	13	1.2	--	74	<.009	<.02	<.02	<.002	<.01	<1.50
	07-24-01	14	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	--	--	--	--	--	--	--	<.002	--	--
PH-DG-5	05-16-01	8	--	12	--	--	--	--	--	--	--
	05-16-01	6	--	11	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	<1	--	E.47	--	--	--	--	--	--	--
	05-16-01	<1	--	2.2	--	--	--	--	--	--	--
PN1	10-11-00	--	--	--	--	--	--	--	<.002	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	--	--	--	--	--	--	<.002	--	--
Qc22-04	08-28-01	7	--	--	--	--	--	--	--	--	--
	08-28-01	4	.90	--	62	<.009	<.02	<.02	<.002	<.01	<1.50
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	5	3.4	--	86	<.009	<.02	<.02	<.002	<.01	<1.50
	09-05-01	--	3.6	--	--	--	--	--	--	--	--
	09-05-01	2	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	4.5	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ACETO-	ACETO-	ACETO-	ACIFL-	ALA-	ALA-	ALA-	ALDI-	ALDICA-	ALDI-
		CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	CHLOR, WATER FLTRD REC (UG/L) (49260)	UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	CHLOR, WATER, DISS, REC, (UG/L) (46342)	CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	<.004	--	--	--	<.002	--	--	--
Nh53-01	10-24-00	--	--	<.004	--	--	--	<.002	--	--	--
Oc21-02	07-25-01	<.05	<.05	<.004	<.01	<.05	.330	<.002	<.02	<.01	<.04
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.05	<.05	<.004	<.01	<.05	.160	<.002	<.02	<.01	<.04
Oe44-01	07-24-01	<.05	<.05	<.004	<.01	<.05	<.050	<.002	<.02	<.01	<.04
Oe44-02	07-24-01	<.05	<.05	<.004	<.01	<.05	.340	<.002	<.02	<.01	<.04
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	--	--	<.004	--	--	--	<.002	--	--	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	--	--	<.004	--	--	--	<.002	--	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	--	<.004	--	--	--	<.002	--	--	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.05	<.05	<.004	<.01	<.05	.080	<.002	<.02	<.01	<.04
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.05	<.05	<.004	<.01	<.05	.160	<.002	<.02	<.01	<.04
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN SURROG- ATE WTR FLT SCD 2060, PERCENT (90640)	BENDIO- CARB, WATER REC (UG/L) (50299)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD WAT FLT REC (UG/L) (50300)	BEN- SUL- FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.005	E.002	--	--	<.010	--	--	--	--	--
Nh53-01	10-24-00	<.005	<.007	--	--	<.010	--	--	--	--	--
Oc21-02	07-25-01	<.005	<.007	E106	<.025	<.010	<.004	<.0158	<.01	<.03	<.02
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.005	E.001	92	<.025	<.010	<.004	<.0158	<.01	<.03	<.02
Oe44-01	07-24-01	<.005	<.007	189	<.025	<.010	<.004	<.0158	<.01	<.03	<.02
Oe44-02	07-24-01	<.005	<.007	130	<.025	<.010	<.004	<.0158	<.01	<.03	<.02
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.005	<.007	--	--	<.010	--	--	--	--	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.005	<.007	--	--	<.010	--	--	--	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.005	<.007	--	--	<.010	--	--	--	--	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.005	<.007	22	<.025	<.010	<.004	<.0158	<.01	<.03	<.02
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.005	<.007	139	<.025	<.010	<.004	<.0158	<.01	E.01	<.02
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAF- FEINE, WATER FLTRD REC (UG/L) (50305)	CAF- FEINE- C13 SURROG, WAT FLT REC PERCENT (99959)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI- MURON, WATER FLTRD REC (UG/L) (50306)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.002	--	--	--	<.041	--	<.020	--	--	--
Nh53-01	10-24-00	<.002	--	--	--	<.041	--	<.020	--	--	--
Oc21-02	07-25-01	<.002	<.010	E92	<.03	<.041	<.01	<.020	<.02	<.010	<.04
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.002	<.010	E82	<.03	<.041	<.01	<.020	<.02	<.010	<.04
Oe44-01	07-24-01	<.002	<.010	77	<.03	<.041	<.01	<.020	<.02	<.010	<.04
Oe44-02	07-24-01	<.002	<.010	77	<.03	<.041	<.01	<.020	<.02	<.010	<.04
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.002	--	--	--	E.009	--	<.020	--	--	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.002	--	--	--	<.041	--	<.020	--	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.002	--	--	--	<.041	--	<.020	--	--	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.002	<.002	82	<.03	<.041	<.01	<.020	<.02	<.010	<.04
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	.003	<.010	85	<.03	<.041	<.01	<.020	<.02	<.010	<.04
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L) (04039)	DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L) (04038)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.005	--	<.018	--	--	<.003	E.043	--	--	91
Nh53-01	10-24-00	<.005	--	<.018	--	--	<.003	E.017	--	--	106
Oc21-02	07-25-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	88
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.005	<.01	<.018	<.01	<.01	<.003	E.014	E.01	<.04	88
Oe44-01	07-24-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	98
Oe44-02	07-24-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	113
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.005	--	<.018	--	--	<.003	E.004	--	--	116
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.005	--	<.018	--	--	<.003	<.006	--	--	115
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.005	--	<.018	--	--	<.003	<.006	--	--	108
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.0017	90
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	110
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	DI- AZINON, DIS- SOLVED	DICAMBA WATER, FLTRD, GF 0.7U REC	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC	DI- ELDRIN DIS- SOLVED	DIMETH- ENAMID OXA, WATER FLT, ESR	DIMETH- ENAMID, ESA, WAT FLT	DINOSEB WATER, FLTRD, GF 0.7U REC	DIPHEN- AMID, WATER, DISS, REC	DISUL- FOTON WATER FLTRD, 0.7 U GF, REC	DIURON, WATER, FLTRD, GF 0.7U REC
		(UG/L) (39572)	(UG/L) (38442)	(UG/L) (49302)	(UG/L) (39381)	(UG/L) (62482)	(UG/L) (61951)	(UG/L) (49301)	(UG/L) (04033)	(UG/L) (82677)	(UG/L) (49300)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.005	--	--	<.005	--	--	--	--	<.021	--
Nh53-01	10-24-00	<.005	--	--	<.005	--	--	--	--	<.021	--
Oc21-02	07-25-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
Oe44-01	07-24-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
Oe44-02	07-24-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.005	--	--	.087	--	--	--	--	<.021	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.005	--	--	<.005	--	--	--	--	<.021	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.005	--	--	<.005	--	--	--	--	<.021	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUFEN- ACET, ESA, WAT FLT (UG/L) (61952)	FLUFE- NACET OXA WATER REC (UG/L) (62483)	FLUMET- SULAM WATER FLTRD REC (UG/L) (61694)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.002	<.009	<.005	--	--	--	--	--	<.003	85
Nh53-01	10-24-00	<.002	<.009	<.005	--	--	--	--	--	<.003	106
Oc21-02	07-25-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	86
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	84
Oe44-01	07-24-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	96
Oe44-02	07-24-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	104
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.002	<.009	<.005	--	--	--	--	--	<.003	98
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.002	<.009	<.005	--	--	--	--	--	<.003	111
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.002	<.009	<.005	--	--	--	--	--	<.003	110
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	83
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	87
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	HYDROXY	IMAZ-	IMAZE-	IMID-	LINDANE	LINURON	LIN-	MALA-	MCPA,	MCPB,
		ATRA- ZINE WATER FLTRD REC (UG/L) (50355)	AQUIN WATER FLTRD REC (UG/L) (50356)	THAPYR WATER FLTRD REC (UG/L) (50407)	ACLOP- RID WATER FLTRD REC (UG/L) (61695)		WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)		THION, DIS- SOLVED (UG/L) (39532)	WATER, FLTRD, GF 0.7U REC (UG/L) (38482)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	<.004	--	<.035	<.027	--	--
Nh53-01	10-24-00	--	--	--	--	<.004	--	<.035	<.027	--	--
Oc21-02	07-25-01	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.008	E.098	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
Oe44-01	07-24-01	E.097	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
Oe44-02	07-24-01	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	--	--	--	--	.006	--	<.035	<.027	--	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	--	--	--	--	<.004	--	<.035	<.027	--	--
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	--	--	--	<.004	--	<.035	<.027	--	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02	<.01
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	METHIO-	METH-	METH-	METHYL	METHYL	METOLA-	METOLA-	METO-	METRI-
		CARB,	OMYL	OMYL,	AZIN-	PARA-	CHLOR	CHLOR		
		AXYL	OXIME	WATER,	PHOS	THION	ESA	OA	LACHLOR	BUZIN
		WATER	WATER	FLTRD,	WAT FLT	WAT FLT	FLTRD	FLTRD	WATER	SENCOR
		FLTRD	FLTRD	GF 0.7U	GF 0.7U	0.7 U	0.7 U	0.7 UM	0.7 UM	WATER
		REC	REC	REC	REC	GF, REC	GF, REC	GF REC	GF REC	DISSOLV
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(50359)	(38501)	(61696)	(49296)	(82686)	(82667)	(61043)	(61044)	(39415)
										(82630)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	<.050	<.006	--	E.003	<.006
Nh53-01	10-24-00	--	--	--	--	<.050	<.006	--	<.013	<.006
Oc21-02	07-25-01	<.020	<.01	<.0110	<.0044	<.050	<.006	4.83	<.05	<.013
	07-25-01	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.020	<.01	<.0110	<.0044	<.050	<.006	6.94	2.96	E.005
Oe44-01	07-24-01	<.020	<.01	<.0110	<.0044	<.050	<.006	1.34	.13	E.012
Oe44-02	07-24-01	<.020	<.01	<.0110	<.0044	<.050	<.006	.17	<.05	E.005
	07-24-01	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	--	--	--	--	<.050	<.006	--	--	<.013
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--
PN1	10-11-00	--	--	--	--	<.050	<.006	--	--	E.001
	10-11-00	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	--	--	--	<.050	<.006	--	--	<.013
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--
	08-28-01	<.020	<.01	<.0110	<.0044	<.050	<.006	.45	<.05	E.002
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.020	<.01	<.0110	<.0044	<.050	<.006	<.05	<.05	E.007
	09-05-01	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	MET- SUL- FURON METHYL WAT FLT REC (UG/L) (61697)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER FLTRD REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	<.002	<.007	--	--	--	--	--	--	<.003
Nh53-01	10-24-00	--	<.002	<.007	--	--	--	--	--	--	<.003
Oc21-02	07-25-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
Oe44-01	07-24-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
Oe44-02	07-24-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	--	<.002	<.007	--	--	--	--	--	--	<.003
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	--	<.002	<.007	--	--	--	--	--	--	E.001
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	--	<.002	<.007	--	--	--	--	--	--	<.003
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01	<.003
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	PARA- THION, DIS- SOLVED	PEB- ULATE WATER FILTRD	PENDI- METH- ALIN WAT FLT	PER- METHRIN CIS WAT FLT	PHORATE WATER FLTRD	PIC- LORAM, WATER, FLTRD, GF 0.7U	PRO- METON, WATER, DISS, REC	PRON- AMIDE WATER FLTRD	PROPA- CHLOR, WATER, DISS, REC	PRO- PANIL WATER FLTRD
		(UG/L) (39542)	GF, REC (UG/L) (82669)	GF, REC (UG/L) (82683)	GF, REC (UG/L) (82687)	GF, REC (UG/L) (82664)	REC (UG/L) (49291)	REC (UG/L) (04037)	GF, REC (UG/L) (82676)	REC (UG/L) (04024)	GF, REC (UG/L) (82679)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Nh53-01	10-24-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Oc21-02	07-25-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
Oe44-01	07-24-01	<.007	<.002	<.010	<.006	<.011	<.02	.021	<.004	<.010	<.011
Oe44-02	07-24-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.007	<.002	<.010	<.006	<.011	--	E.006	<.004	<.010	<.011
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.007	<.002	<.010	<.006	<.011	--	<.015	<.004	<.010	<.011
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.007	<.002	<.010	<.006	<.011	<.02	<.015	<.004	<.010	<.011
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP- ICONA- ZOLE , WATER FLTRD REC (UG/L) (50471)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SULFO- MET- RURON METHYL REC (UG/L) (50337)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
Nh53-01	10-24-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
Oc21-02	07-25-01	<.023	<.01	<.021	<.01	<.017	<.011	<.009	<.016	<.01	<.034
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	<.023	<.01	<.021	<.01	<.017	<.011	<.009	<.016	<.01	<.034
Oe44-01	07-24-01	<.023	<.01	<.021	<.01	<.017	<.011	<.009	<.016	<.01	<.034
Oe44-02	07-24-01	<.023	<.01	<.003	<.01	<.017	<.011	<.009	<.016	<.01	<.034
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.023	--	--	--	--	<.011	--	<.016	--	<.034
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.023	<.01	<.002	<.01	<.017	<.011	<.009	<.016	<.01	<.034
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.023	<.01	<.006	<.01	<.017	<.011	<.009	<.016	<.01	<.034
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3( 4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	<.017	<.005	<.002	--	--	<.009	--	--	--	--
Nh53-01	10-24-00	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
Oc21-02	07-25-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	<.03	<.06	<.04
	07-25-01	--	--	--	--	--	--	--	<.03	<.06	<.04
Oc21-03	07-25-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	--	--	--
Oe44-01	07-24-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	--	--	--
Oe44-02	07-24-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	<.03	<.06	<.04
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.017	<.005	<.002	--	--	<.009	--	<.03	<.06	<.04
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.017	<.005	<.002	--	--	<.009	--	E.03	<.06	E.02
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.017	<.005	<.002	--	--	<.009	--	E.09	<.06	<.04
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.017	<.005	<.002	<.01	<.02	<.009	<.0242	E.01	<.06	<.04
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	1,1-DI- CHLORO- ETHYL- ENE	1,1-DI- CHLORO- PRO- PENE, WAT, WH	123-TRI CHLORO- PROPANE WATER WHOLE	1,2- DIBROMO ETHANE WATER WHOLE	1,2-DI- CHLORO- ETHANE	1,2-DI- CHLORO- PROPANE	TRANS- 1,2-DI- CHLORO- ETHENE	2,2-DI- CHLORO- PRO- PANE WAT, WH	2BUTENE TRANS-1 4-DI- CHLORO UNFLTRD	2-HEXA- NONE WATER WHOLE
		TOTAL (UG/L) (34501)	TOTAL (UG/L) (77168)	TOTAL (UG/L) (77443)	TOTAL (UG/L) (77651)	TOTAL (UG/L) (32103)	TOTAL (UG/L) (34541)	TOTAL (UG/L) (34546)	TOTAL (UG/L) (77170)	TOTAL (UG/L) (73547)	RECOVER (UG/L) (77103)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
Oc21-02	07-25-01	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
	07-25-01	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	E.01	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	E.01	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.04	<.03	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ACETONE WATER TOTAL (UG/L) (81552)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL-UNFLTRD WAT UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF RECOVER (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	91	<.05
Oc21-02	07-25-01	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	87	<.05
	07-25-01	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	89	<.05
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	106	<.05
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	90	<.05
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	96	<.05
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	90	<.05
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<7	<1	<.3	<.1	<.2	<.06	<.04	<.03	96	<.05
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

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## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ISO-	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE TOTAL	BROMO-	BROMO-	BROMO- FORM TOTAL
		PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	N-PROPY WATER UNFLTRD REC (UG/L) (77224)	O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)		BENZENE TOTAL (UG/L) (34030)	BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
Oc21-02	07-25-01	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
	07-25-01	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.03	<.2	<.04	E.06	<.03	<.06	<.04	<.04	<.1	<.06
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	CARBON	CARBON	CHLORO-			CIS-1,2	CIS	DIBROMO	DI-	
		DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	CHLORO- BENZENE TOTAL (UG/L) (34301)	DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHLORO- FORM TOTAL (UG/L) (32106)	-DI- CHLORO- ETHENE TOTAL (UG/L) (77093)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	CHLORO- PROPANE WATER TOT. REC (UG/L) (82625)	BROMO- METHANE WATER WHOLE RECOVER (UG/L) (30217)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	
	05-23-01	--	--	--	--	--	--	--	--	--	
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	
Nh53-01	10-24-00	<.07	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.2	<.05
Oc21-02	07-25-01	<.07	<.06	<.03	<.2	<.1	E.08	<.04	<.09	<.2	<.05
	07-25-01	E.02	<.06	<.03	<.2	<.1	E.10	<.04	<.09	<.2	<.05
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.2	<.05
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.07	<.06	<.03	<.2	<.1	.39	<.04	<.09	<.2	<.05
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.07	<.06	<.03	<.2	<.1	1.02	E.02	<.09	<.2	<.05
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	E.02	<.06	<.03	E.1	<.1	3.85	<.04	<.09	<.2	<.05
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	.42	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	BROMO-	DI-	DI-ISO-	ETHANE,	ETHANE,	ETHANE	ETHANE	ETHER	ETHER	ETHER		
		CHLORO- DI- CHLORO- METHANE	CHLORO- DI- FLUORO- METHANE	PROPYL- DI- ETHER, WATER, UNFLTRD	1112- TETRA- CHLORO- WAT UNF	1,1,2,2 TETRA- CHLORO- WAT UNF	1,2-DICL SURROG VOC	HEXA- CHLORO- WATER	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD
		TOTAL (UG/L) (32101)	TOTAL (UG/L) (34668)	RECOVER (UG/L) (81577)	REC (UG/L) (77562)	REC (UG/L) (34516)	PERCENT (99832)	RECOVER (UG/L) (34396)	RECOVER (UG/L) (81576)	RECOVER (UG/L) (50004)	RECOVER (UG/L) (50005)		
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--		
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--		
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--		
	05-23-01	--	--	--	--	--	--	--	--	--	--		
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--		
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--		
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--		
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--		
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--		
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--		
Nh53-01	10-24-00	<.05	<.3	<.1	<.03	<.09	117	<.2	<.2	<.05	<.1		
Oc21-02	07-25-01	<.05	<.3	<.1	<.03	<.09	99	<.2	<.2	<.05	<.1		
	07-25-01	<.05	<.3	<.1	<.03	<.09	99	<.2	<.2	<.05	<.1		
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--		
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--		
Oe44-02	07-24-01	<.05	<.3	<.1	<.03	<.09	105	<.2	<.2	<.05	<.1		
	07-24-01	--	--	--	--	--	--	--	--	--	--		
Oi25-19	11-01-00	<.05	<.3	<.1	<.03	<.09	107	<.2	<.2	<.05	<.1		
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--		
	05-16-01	--	--	--	--	--	--	--	--	--	--		
	08-23-01	--	--	--	--	--	--	--	--	--	--		
	08-23-01	--	--	--	--	--	--	--	--	--	--		
	08-23-01	--	--	--	--	--	--	--	--	--	--		
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--		
	05-16-01	--	--	--	--	--	--	--	--	--	--		
PN1	10-11-00	<.05	<.3	<.1	<.03	<.09	107	<.2	<.2	<.05	<.1		
	10-11-00	--	--	--	--	--	--	--	--	--	--		
Pi12-08	10-24-00	.23	<.3	<.1	<.03	<.09	117	<.2	<.2	<.05	E.1		
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--		
	08-28-01	--	--	--	--	--	--	--	--	--	--		
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--		
Ri22-03	09-05-01	<.05	<.3	<.1	<.03	<.09	98	<.2	<.2	<.05	<.1		
	09-05-01	--	--	--	--	--	--	--	--	--	--		
	09-05-01	--	--	--	--	--	--	--	--	--	--		
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--		

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	ISO- DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC- RYLATE ETHYL- WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC- RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH- ACRYLO- NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY- LATE WATER UNFLTRD RECOVER (UG/L) (49991)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<.03	E.04	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
Oc21-02	07-25-01	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
	07-25-01	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.03	E.02	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

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## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	METHYL	METHYL		METHYL	METHYL-	METHYL	METHYL	METHYL	METHYL	O-
		IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER TOTAL (UG/L) (81595)	ISO- BUTYL KETONE WAT. WH. TOTAL (UG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH- ALENE TOTAL (UG/L) (34696)	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
Oc21-02	07-25-01	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
	07-25-01	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.1	1.9	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.1	<.2	<.3	M	<.2	<2	<.4	<.06	<.2	<.03
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.1	1.0	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06	<.5	<.03
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3- CHLORO- WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)
		DG-4	05-23-01	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	--
Nh53-01	10-24-00	<.04	<.07	<.2	<.1	<.1	<.04	M	99	<.06	<.06
Oc21-02	07-25-01	<.04	<.07	<.2	<.1	<.1	<.04	<.1	93	<.06	<.06
	07-25-01	<.04	<.07	<.2	<.1	<.1	<.04	<.1	96	<.06	<.06
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.04	<.07	<.2	<.1	<.1	<.04	<.1	99	<.06	<.06
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.04	<.07	<.2	<.1	<.1	<.04	<.1	102	<.06	<.06
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.04	<.07	<.2	<.1	<.1	<.04	E.1	97	<.06	<.06
	10-11-00	--	--	--	--	--	--	--	--	--	--
Pi12-08	10-24-00	<.04	<.07	<.2	<.1	<.1	<.04	<.1	95	<.06	<.06
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	--
Ri22-03	09-05-01	<.04	<.07	<.2	<.1	<.1	<.04	<.1	92	<.06	<.06
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

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## QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	TOLUENE TOTAL (UG/L) (34010)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS CS-137 (03515)	RADIUM 226, DIS- SOLVED (09503)
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	--
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	--	--	--	--	--	--	--	--	<1.00
Nh53-01	10-24-00	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
Oc21-02	07-25-01	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
	07-25-01	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
Oc21-03	07-25-01	--	--	--	--	--	--	--	--	--	--
Oe44-01	07-24-01	--	--	--	--	--	--	--	--	--	--
Oe44-02	07-24-01	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
	07-24-01	--	--	--	--	--	--	--	--	--	--
Oi25-19	11-01-00	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	--
	05-16-01	--	--	--	--	--	--	--	--	--	--
PN1	10-11-00	<.05	<.09	E.04	<.09	<.1	2.1	<3.00	3.6	<4.00	<1.00
	10-11-00	--	--	--	--	--	1.8	<3.00	3.7	<4.00	<1.00
Pi12-08	10-24-00	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
Qd52-09	10-12-00	--	--	--	--	--	--	--	--	--	<1.00
Ri22-03	09-05-01	<.05	<.09	<.04	<.09	<.1	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	--
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

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

WELL NUMBER	DATE	RADIUM 228					RADON 222,			RN-222 2 SIGMA	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
		DIS- SOLVED (PCI/L AS RA-228) (81366)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50834)	RA-224 WATER FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	RA-228 2 SIGMA WATER, DISS, (PCI/L) (76000)	RADON 222 TOTAL (PCI/L) (82303)	SS MDC, WATER, UNFLTRD (PCI/L) (99327)	WATER, WHOLE, TOTAL, (PCI/L) (76002)		
DG-4	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-8S	05-23-01	--	--	--	--	--	--	--	--	--	--
	05-23-01	--	--	--	--	--	--	--	--	--	--
DG-9	05-25-01	--	--	--	--	--	--	--	--	--	--
DZ-0	05-18-01	--	--	--	--	--	--	--	--	--	<.02
DZ-1	05-18-01	--	--	--	--	--	--	--	--	--	--
DZ-2	05-16-01	--	--	--	--	--	--	--	--	--	<.02
DZ-3	05-18-01	--	--	--	--	--	--	--	--	--	--
Forest Hills 1	10-12-00	--	.17	<1.00	.11	--	--	--	--	--	--
Nh53-01	10-24-00	--	--	--	--	--	--	--	--	--	--
Oc21-02	07-25-01	--	--	--	--	--	300	25.0	22	--	<.02
	07-25-01	--	--	--	--	--	--	--	--	--	--
Oc21-03	07-25-01	--	--	--	--	--	211	26.0	20	--	<.02
Oe44-01	07-24-01	--	--	--	--	--	245	23.0	19	--	.03
Oe44-02	07-24-01	--	--	--	--	--	123	23.0	17	--	<.02
	07-24-01	--	--	--	--	--	--	--	--	--	<.02
Oi25-19	11-01-00	--	--	--	--	--	--	--	--	--	--
PH-DG-5	05-16-01	--	--	--	--	--	--	--	--	--	<.02
	05-16-01	--	--	--	--	--	--	--	--	--	<.02
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
	08-23-01	--	--	--	--	--	--	--	--	--	--
PH-UG	05-16-01	--	--	--	--	--	--	--	--	--	<.02
	05-16-01	--	--	--	--	--	--	--	--	--	<.02
PN1	10-11-00	<1.00	.07	<1.00	.04	.45	343	--	21	--	--
	10-11-00	<1.00	.05	<1.00	.05	.39	341	--	21	--	--
Pi12-08	10-24-00	--	--	--	--	--	--	--	--	--	--
Qc22-04	08-28-01	--	--	--	--	--	--	--	--	--	<.02
	08-28-01	--	--	--	--	--	371	27.0	24	--	<.02
Qd52-09	10-12-00	--	.08	<1.00	.07	--	--	--	--	--	--
Ri22-03	09-05-01	--	--	--	--	--	150	21.0	16	--	<.02
	09-05-01	--	--	--	--	--	--	--	--	--	--
	09-05-01	--	--	--	--	--	--	--	--	--	<.02
UG-2	05-16-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ANNE ARUNDEL COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
AA Ed 65	10-10-00	1550	385406076383902	ENVIRONMENTAL	211MGTY	GW	4040	110	103.30
AA Fc 34	10-06-00	1515	384833076415601	ENVIRONMENTAL	211MGTY	GW	4040	51.0	49.10
AA Fc 35	10-04-00	1530	384833076415602	ENVIRONMENTAL	125AQUI	GW	4040	51.3	52.30

WELL, TOTAL (FEET) (72008)	DEPTH OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72015)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
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AA Ed 65	10-10-00	310	305	285	470	74.0	7.2	262	14.6	125	41.4
AA Fc 34	10-06-00	371	366	336	435	98.0	7.1	318	15.8	163	58.5
AA Fc 35	10-04-00	177	172	142	450	75.0	7.6	308	15.6	156	49.0

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)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
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AA Ed 65	10-10-00	5.31	3.06	1.6	2.3	.4	.02	23.3	15.8	<.047	171
AA Fc 34	10-06-00	4.19	2.92	1.8	2.0	.3	.02	11.9	19.1	<.047	199
AA Fc 35	10-04-00	8.08	4.69	2.4	1.4	.2	.02	16.9	46.7	<.047	207

SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)
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AA Ed 65	10-10-00	168	E.1	7650	7620	140	134	12.2	3.1	E2.84	4.4
AA Fc 34	10-06-00	196	<.2	3930	4210	141	144	22.9	3.1	3.50	4.4
AA Fc 35	10-04-00	202	.4	300	360	25.3	25	5.9	2.6	<3.00	4.0

WELL NUMBER	DATE	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
AA Ed 65	10-10-00	E1.98
AA Fc 34	10-06-00	11.0
AA Fc 35	10-04-00	4.60

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 125AQUI - Aquia Formation  
 211MGTY - Magothy Formation

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump



QUALITY OF GROUND WATER DATA

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BALTIMORE COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
BA Ab 51	10-31-00	1300	394206076470201	ENVIRONMENTAL	300PRTB	GW	8030	860	150
	10-31-00	1305		REPLICATE	300PRTB	GW	8030	860	150
BA Ab 53	10-10-00	1230	394011076474601	ENVIRONMENTAL	--	GW	8030	760	52
BA Ac 151	11-13-00	0955	394057076423301	BLANK	300PRTB	GW	--	760	198
	11-13-00	1000		ENVIRONMENTAL	300PRTB	GW	8030	760	198
	11-13-00	1005		REPLICATE	300PRTB	GW	8030	760	198
BA Ac 154	11-01-00	1115	394105076435901	ENVIRONMENTAL	--	GW	8030	780	40
BA Ad 145	11-15-00	1000	394130076360101	ENVIRONMENTAL	300PRTB	GW	8030	690	240
	03-12-01	1100		ENVIRONMENTAL	300PRTB	GW	8030	690	240
BA Ad 146	07-19-01	1300	394019076374501	ENVIRONMENTAL	300PRTB	GW	8030	720	100
BA Ad 149	01-16-01	1100	394250076370801	ENVIRONMENTAL	300PRTB	GW	8030	730	300
BA Ae 19	11-15-00	1300	394013076343001	ENVIRONMENTAL	300PRTB	GW	8030	660	225
BA Bb 136	01-08-01	0955	393937076482101	BLANK	300PRTB	GW	--	720	200
	01-08-01	1000		ENVIRONMENTAL	300PRTB	GW	8030	720	200
BA Bb 140	11-14-00	1000	393746076470001	ENVIRONMENTAL	300PRTB	GW	8030	670	116
BA Bb 143	11-13-00	1400	393607076485001	ENVIRONMENTAL	300PRTB	GW	8030	760	252
BA Bb 144	01-23-01	1200	393544076463401	ENVIRONMENTAL	300PRTB	GW	8030	660	110
BA Bb 148	10-30-00	1350	393707076450801	BLANK	300PRTB	GW	--	710	300
	10-30-00	1355		BLANK	300PRTB	GW	--	710	300
	10-30-00	1400		ENVIRONMENTAL	300PRTB	GW	8030	710	300
BA Bb 151	11-29-00	1000	393643076480201	ENVIRONMENTAL	300PRTB	GW	8030	660	200
BA Bc 267	11-14-00	1400	393633076443801	ENVIRONMENTAL	300PRTB	GW	8030	630	150
BA Bc 277	10-30-00	1400	393908076420301	ENVIRONMENTAL	--	GW	8030	800	47
BA Bd 227	12-04-00	0755	393928076381301	BLANK	300PRTB	GW	--	590	200
	12-04-00	0800		ENVIRONMENTAL	300PRTB	GW	8030	590	200
BA Bd 232	01-08-01	1300	393554076384401	ENVIRONMENTAL	300PNRN	GW	8030	600	200
BA Bd 235	11-27-00	0855	393733076391301	BLANK	300PLGV	GW	--	570	175
	11-27-00	0900		ENVIRONMENTAL	300PLGV	GW	8030	570	175
BA Bd 237	11-28-00	1000	393738076391401	ENVIRONMENTAL	300PLGV	GW	8030	590	175
BA Bd 239	10-16-00	1000	393521076394301	ENVIRONMENTAL	--	GW	8030	650	57
BA Bd 240	10-25-00	1145	393931076391601	ENVIRONMENTAL	--	GW	8030	580	100
BA Bd 241	11-01-00	1415	393607076354701	ENVIRONMENTAL	--	GW	8030	620	63
BA Bd 242	11-06-00	1045	393529076400101	ENVIRONMENTAL	--	GW	8030	660	25
BA Be 37	11-29-00	1300	393708076345501	ENVIRONMENTAL	370LCRV	SP	70	590	--
BA Be 38	11-28-00	1200	393519076344701	ENVIRONMENTAL	300STRS	GW	8030	470	175
BA Ca 66	12-12-00	1200	393355076501901	ENVIRONMENTAL	300PRTB	GW	8030	790	210
BA Cb 134	12-05-00	1000	393243076450901	ENVIRONMENTAL	300PNRN	GW	8030	630	300
BA Cb 136	11-27-00	1200	393119076454501	ENVIRONMENTAL	400BLMR	GW	8030	440	100
	11-27-00	1205		REPLICATE	400BLMR	GW	8030	440	100
BA Cb 138	01-22-01	1200	393237076495601	ENVIRONMENTAL	300PRTB	GW	8030	690	205
BA Cb 142	12-13-00	1000	393221076483401	ENVIRONMENTAL	300PLGV	GW	8030	625	180
BA Cb 144	01-23-01	1000	393036076452901	ENVIRONMENTAL	300CCKV	GW	8030	430	220
BA Cc 253	12-07-00	1200	393427076412201	ENVIRONMENTAL	370LCRV	GW	8030	630	300
BA Cc 254	12-13-00	1200	393418076435301	ENVIRONMENTAL	300PLGV	GW	8030	630	175
BA Cc 257	01-17-01	1100	393058076441701	ENVIRONMENTAL	400BLMR	GW	8030	410	225
BA Cc 260	11-06-00	1330	393105076430401	ENVIRONMENTAL	--	GW	8030	380	79
BA Cc 261	11-09-00	1100	393233076440601	ENVIRONMENTAL	--	GW	8030	450	--
BA Cd 230	12-07-00	1000	393426076361401	ENVIRONMENTAL	400BLMR	GW	8030	470	220
	03-09-01	1030		ENVIRONMENTAL	400BLMR	GW	8030	470	220
BA Cd 234	12-04-00	1100	393352076365301	ENVIRONMENTAL	400BLMR	GW	8030	400	200
BA Cd 235	11-29-00	1500	393313076373701	ENVIRONMENTAL	400BLMR	GW	8030	410	200
BA Cd 237	01-16-01	1255	393212076365901	BLANK	400BLMR	SP	--	390	--
	01-16-01	1600		ENVIRONMENTAL	400BLMR	SP	4010	390	--
	03-09-01	1200		ENVIRONMENTAL	400BLMR	SP	4010	390	--
BA Cd 239	12-12-00	1000	393155076385301	ENVIRONMENTAL	400BLMR	GW	8030	450	200
BA Ce 313	11-28-00	1355	393143076332601	BLANK	370LCRV	GW	--	540	250
	11-28-00	1400		ENVIRONMENTAL	370LCRV	GW	8030	540	250
BA Da 123	01-09-01	1200	392538076510101	ENVIRONMENTAL	370LCRV	GW	8030	620	200
BA Db 262	10-30-00	1200	392943076485101	ENVIRONMENTAL	--	GW	8030	560	50

Geologic Unit (aquifer): 300PLGV - Pleasant Grove Schist  
 300PNRN - Piney Run Formation  
 300PRTB - Prettyboy Schist  
 370LCRV - Loch Raven Schist  
 400BLMR - Baltimore Gneiss

Station Type: GW - Ground Water  
 SP - Spring

Sampling Method: 70 - Grab sample  
 4010 - Thief sampler  
 8030 - Grab sample at water supply tap

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM- PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
BA Ab 51	10-31-00	150	55	25	3.0	9.9	5.4	149	--	13.4	47.3
	10-31-00	150	55	25	--	--	--	--	--	--	46.7
BA Ab 53	10-10-00	--	--	15	3.2	8.9	5.8	138	12.5	13.0	28.0
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	105	85	30	3.0	8.1	6.0	41	--	11.9	11.5
	11-13-00	105	85	30	--	--	--	--	--	--	11.4
BA Ac 154	11-01-00	--	--	20	3.0	9.4	5.4	165	9.5	13.0	63.9
BA Ad 145	11-15-00	240	40	25	4.0	9.2	5.9	156	--	12.5	50.7
	03-12-01	240	40	20	3.0	--	--	146	--	12.3	--
BA Ad 146	07-19-01	100	48	20	4.0	9.6	5.7	32	--	12.1	10.4
BA Ad 149	01-16-01	300	73	30	3.0	8.0	6.4	51	4.5	12.0	16.0
BA Ae 19	11-15-00	225	65	25	4.0	8.2	5.7	43	5.5	11.4	12.8
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	200	20	38	3.0	10.9	5.5	305	4.5	10.4	63.5
BA Bb 140	11-14-00	116	35	38	4.0	9.7	6.0	352	--	12.5	128
BA Bb 143	11-13-00	252	86	29	3.0	5.6	6.4	169	--	12.7	61.7
BA Bb 144	01-23-01	110	48	21	3.0	7.4	6.3	107	1.0	11.7	34.5
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	300	28	40	4.0	9.3	5.1	182	--	13.3	55.4
BA Bb 151	11-29-00	200	38	20	5.0	--	6.1	500	--	12.5	199
BA Bc 267	11-14-00	150	39	24	3.0	9.3	5.7	551	--	13.0	186
BA Bc 277	10-30-00	--	--	20	3.0	7.7	5.2	257	11.0	15.0	59.8
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	200	20	24	3.0	--	5.7	153	--	11.7	47.4
BA Bd 232	01-08-01	200	69	19	3.0	10.4	5.9	80	4.0	12.4	11.2
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	175	69	23	3.0	10.0	5.7	166	--	12.3	55.6
BA Bd 237	11-28-00	175	40	20	4.0	11.0	5.7	157	--	12.9	52.7
BA Bd 239	10-16-00	--	--	20	4.0	6.8	5.6	829	15.5	14.0	269
BA Bd 240	10-25-00	--	--	15	3.8	9.6	6.5	310	20.5	14.5	107
BA Bd 241	11-01-00	--	--	15	3.8	9.2	5.8	96	13.5	12.5	43.8
BA Bd 242	11-06-00	--	--	20	3.0	9.3	5.3	137	6.5	14.0	46.8
BA Be 37	11-29-00	--	--	--	5.0	8.8	5.5	219	--	12.0	70.6
BA Be 38	11-28-00	175	57	25	2.0	.6	7.0	90	--	12.8	26.4
BA Ca 66	12-12-00	210	94	21	3.0	8.8	5.9	104	2.5	12.8	32.2
BA Cb 134	12-05-00	300	55	24	3.0	--	5.3	167	5.0	12.9	41.7
BA Cb 136	11-27-00	100	60	25	4.0	11.0	6.0	310	--	13.3	104
	11-27-00	100	60	25	--	--	--	--	--	--	104
BA Cb 138	01-22-01	205	70	20	3.0	5.8	6.0	321	-2.5	11.5	110
BA Cb 142	12-13-00	180	35	32	2.0	9.4	6.0	213	-3.0	13.6	85.2
BA Cb 144	01-23-01	220	21	40	3.0	7.8	7.1	567	-4.5	11.4	294
BA Cc 253	12-07-00	300	53	22	3.0	--	5.9	535	-0.2	12.1	173
BA Cc 254	12-13-00	175	62	25	5.0	9.4	5.7	319	.5	12.0	86.9
BA Cc 257	01-17-01	225	40	25	3.0	--	6.3	180	6.5	11.8	70.8
BA Cc 260	11-06-00	--	--	15	2.5	8.5	6.0	127	12.5	12.5	60.0
BA Cc 261	11-09-00	--	--	15	4.2	5.4	6.1	340	15.0	12.0	135
BA Cd 230	12-07-00	220	32	20	4.0	9.9	5.7	433	-0.2	13.0	158
	03-09-01	220	32	20	3.0	--	--	459	--	12.8	--
BA Cd 234	12-04-00	200	47	25	3.0	7.5	6.4	99	--	14.5	30.2
BA Cd 235	11-29-00	200	20	24	3.0	9.1	6.0	223	--	12.7	77.7
BA Cd 237	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	--	--	--	--	--	6.0	191	--	8.8	57.6
	03-09-01	--	--	--	--	--	--	180	--	8.3	--
BA Cd 239	12-12-00	200	46	20	3.0	9.8	6.0	131	4.5	12.5	41.8
BA Ce 313	11-28-00	--	--	--	--	--	--	--	--	--	--
	11-28-00	250	67	25	2.0	.6	7.0	105	--	12.4	35.3
BA Da 123	01-09-01	200	60	24	2.0	3.4	6.8	243	-2.5	10.1	82.4
BA Db 262	10-30-00	--	--	20	4.0	7.6	6.0	86	12.0	13.0	34.3

E Estimated value.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM DIS-SOLVED (MG/L AS MG) (00925)	POTASSIUM DIS-SOLVED (MG/L AS K) (00935)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ANC BICARBONATE IT FIELD (MG/L AS HCO3) (00450)	CHLORIDE DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE DIS-SOLVED (MG/L AS F) (00950)
BA Ab 51	10-31-00	8.58	6.29	1.18	9.2	5	--	6	--	21.2	--
	10-31-00	8.45	6.21	1.15	9.1	5	--	6	--	21.6	--
BA Ab 53	10-10-00	5.86	3.25	1.02	19.0	--	12	--	15	38.2	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	3.11	.903	.38	2.2	9	--	11	--	1.7	--
	11-13-00	3.08	.898	.36	2.2	9	--	11	--	1.8	--
BA Ac 154	11-01-00	14.2	6.90	1.20	8.8	--	10	--	12	23.3	--
BA Ad 145	11-15-00	13.9	3.87	2.42	5.3	21	--	26	--	9.4	--
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	2.08	1.26	.35	1.8	9	--	11	--	2.5	<.2
BA Ad 149	01-16-01	4.08	1.41	E.17	3.1	15	--	18	--	2.3	--
BA Ae 19	11-15-00	3.25	1.13	.34	2.2	15	--	18	--	2.2	--
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	11.1	8.71	1.18	24.2	15	--	18	--	58.6	--
BA Bb 140	11-14-00	36.3	9.14	1.49	13.1	23	--	28	--	85.8	--
BA Bb 143	11-13-00	19.5	3.15	.65	6.2	28	--	34	--	7.7	--
BA Bb 144	01-23-01	8.58	3.17	.61	5.5	31	--	38	--	6.2	--
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.01	<.008	<.09	.1	--	--	--	--	<.1	--
	10-30-00	11.6	6.44	2.25	7.4	5	--	6	--	30.0	--
BA Bb 151	11-29-00	48.3	19.1	1.77	8.6	37	--	46	--	115	--
BA Bc 267	11-14-00	48.3	15.9	2.52	17.2	17	--	21	--	120	--
BA Bc 277	10-30-00	12.8	6.72	1.06	13.7	--	12	--	15	33.8	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	11.5	4.55	1.06	7.4	12	--	14	--	10.4	--
BA Bd 232	01-08-01	2.54	1.19	.83	3.2	8	--	10	--	5.4	--
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	12.9	5.71	.94	5.6	13	--	16	--	19.7	--
BA Bd 237	11-28-00	12.0	5.52	1.04	5.3	15	--	18	--	17.0	--
BA Bd 239	10-16-00	57.3	30.5	5.93	86.2	--	18	--	22	306	--
BA Bd 240	10-25-00	25.1	10.8	1.04	13.0	--	34	--	42	68.9	--
BA Bd 241	11-01-00	9.86	4.65	2.46	4.1	--	26	--	32	7.7	--
BA Bd 242	11-06-00	5.90	7.78	2.48	7.6	--	4	--	4	19.3	--
BA Be 37	11-29-00	14.6	8.27	2.19	8.0	10	--	12	--	27.7	--
BA Be 38	11-28-00	5.08	3.32	2.99	4.9	31	--	38	--	3.3	--
BA Ca 66	12-12-00	9.10	2.30	.61	5.0	27	--	33	--	3.3	--
BA Cb 134	12-05-00	7.95	5.30	1.33	7.3	9	--	11	--	12.1	--
BA Cb 136	11-27-00	26.9	8.98	2.66	9.8	17	--	20	--	55.8	--
	11-27-00	26.8	9.00	2.67	9.9	E17	--	20	--	56.1	--
BA Cb 138	01-22-01	30.9	7.97	1.15	10.2	33	--	41	--	39.6	--
BA Cb 142	12-13-00	24.5	5.86	1.47	5.7	31	--	38	--	12.8	--
BA Cb 144	01-23-01	68.9	29.6	1.22	2.4	306	--	373	--	5.0	--
BA Cc 253	12-07-00	47.2	13.4	3.55	25.7	28	--	34	--	146	--
BA Cc 254	12-13-00	16.8	10.9	2.93	19.4	22	--	27	--	61.6	--
BA Cc 257	01-17-01	16.0	7.49	.93	6.1	62	--	75	--	3.6	--
BA Cc 260	11-06-00	15.4	5.21	1.16	7.4	--	24	--	30	7.6	--
BA Cc 261	11-09-00	29.6	14.9	3.53	31.9	--	36	--	44	115	--
BA Cd 230	12-07-00	38.7	15.0	4.18	12.5	20	--	24	--	92.8	--
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	7.41	2.83	2.07	5.8	31	--	38	--	3.6	--
BA Cd 235	11-29-00	22.2	5.43	2.82	11.2	33	--	41	--	14.3	--
BA Cd 237	01-16-01	E.01	<.008	<.24	M	--	--	--	--	<.1	--
	01-16-01	14.7	5.08	2.83	10.2	45	--	54	--	9.7	--
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	12.6	2.53	2.15	6.3	40	--	49	--	6.2	--
BA Ce 313	11-28-00	<.01	<.008	<.09	<.1	--	--	--	--	<.1	--
	11-28-00	10.1	2.47	2.59	4.8	30	--	37	--	2.6	--
BA Da 123	01-09-01	13.4	11.9	4.21	5.8	68	--	83	--	21.9	--
BA Db 262	10-30-00	8.52	3.16	2.00	5.5	--	20	--	24	4.0	--

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	SILICA, DIS- SOLVED	SULFATE DIS- SOLVED	NITRO- GEN, AM- MONIA, DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC DIS.	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, NITRATE DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	PHOS- PHORUS DIS- SOLVED
		(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00625)	(MG/L AS N) (00613)	(MG/L AS N) (00618)	(MG/L AS N) (00600)	(MG/L AS N) (00631)	(MG/L AS N) (00666)
BA Ab 51	10-31-00	6.7	.2	<.041	--	--	--	--	--	8.43	--
	10-31-00	6.7	.2	<.041	--	--	--	--	--	8.43	--
BA Ab 53	10-10-00	--	.5	<.041	<.10	E.05	<.006	--	--	2.26	<.006
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	10.1	.8	<.041	--	--	--	--	--	1.21	--
	11-13-00	10.2	.7	<.041	--	--	--	--	--	1.21	--
BA Ac 154	11-01-00	--	2.4	<.041	<.10	<.08	<.006	--	--	11.1	E.005
BA Ad 145	11-15-00	15.2	8.1	<.041	--	--	--	--	--	6.82	--
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	8.2	.1	<.040	--	--	.008	.602	--	.610	<.060
BA Ad 149	01-16-01	14.2	2.3	<.041	--	--	--	--	--	.724	--
BA Ae 19	11-15-00	9.5	.8	<.041	--	--	--	--	--	.130	--
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	6.8	3.6	<.041	--	--	--	--	--	5.04	--
BA Bb 140	11-14-00	17.5	1.8	<.041	--	--	--	--	--	3.54	--
BA Bb 143	11-13-00	18.5	2.7	<.041	--	--	--	--	--	9.35	--
BA Bb 144	01-23-01	21.0	3.8	<.041	--	--	--	--	--	2.89	--
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.5	<.1	<.041	--	--	--	--	--	<.047	--
	10-30-00	8.5	.3	<.041	--	--	--	--	--	6.11	--
BA Bb 151	11-29-00	21.9	5.7	<.041	--	--	--	--	--	5.85	--
BA Bc 267	11-14-00	15.6	6.3	<.041	--	--	--	--	--	10.2	--
BA Bc 277	10-30-00	--	.7	<.041	<.10	<.08	<.006	--	--	8.47	.025
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	10.9	1.1	<.041	--	--	--	--	--	9.40	--
BA Bd 232	01-08-01	12.1	.6	<.041	--	--	--	--	--	.989	--
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	14.5	8.2	<.041	--	--	--	--	--	5.36	--
BA Bd 237	11-28-00	13.1	E.1	<.041	--	--	--	--	--	7.19	--
BA Bd 239	10-16-00	--	7.9	<.041	<.10	E.05	<.006	--	--	10.1	<.006
BA Bd 240	10-25-00	--	.4	<.041	E.05	<.08	<.006	--	--	2.33	.033
BA Bd 241	11-01-00	--	.9	<.041	<.10	<.08	<.006	--	--	6.38	.006
BA Bd 242	11-06-00	--	.3	<.041	E.07	<.08	<.006	--	--	9.63	<.006
BA Be 37	11-29-00	15.7	5.2	<.041	--	--	--	--	--	9.48	--
BA Be 38	11-28-00	23.9	8.4	<.041	--	--	--	--	--	<.047	--
BA Ca 66	12-12-00	20.3	7.1	<.041	--	--	--	--	--	2.40	--
BA Cb 134	12-05-00	10.5	.6	E.027	--	--	--	--	--	8.93	--
BA Cb 136	11-27-00	30.5	10	<.041	--	--	--	--	--	6.55	--
	11-27-00	30.0	9.9	<.041	--	--	--	--	--	6.59	--
BA Cb 138	01-22-01	19.3	3.2	<.041	--	--	--	--	--	12.3	--
BA Cb 142	12-13-00	12.1	15.9	<.041	--	--	--	--	--	6.85	--
BA Cb 144	01-23-01	10.6	5.0	<.041	--	--	--	--	--	2.98	--
BA Cc 253	12-07-00	24.0	.6	<.041	--	--	--	--	--	.203	--
BA Cc 254	12-13-00	13.3	1.4	<.041	--	--	--	--	--	7.02	--
BA Cc 257	01-17-01	48.4	10.1	<.041	--	--	--	--	--	3.59	--
BA Cc 260	11-06-00	--	24.1	<.041	E.08	<.08	<.006	--	--	4.29	.038
BA Cc 261	11-09-00	--	7.5	<.041	E.06	<.08	<.006	--	--	.684	E.003
BA Cd 230	12-07-00	26.0	16.6	<.041	--	--	--	--	--	4.11	--
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	29.9	8.6	<.041	--	--	--	--	--	1.01	--
BA Cd 235	11-29-00	29.9	36.8	<.041	--	--	--	--	--	1.79	--
BA Cd 237	01-16-01	<.5	<.1	<.041	--	--	--	--	--	<.047	--
	01-16-01	15.0	18.5	<.041	--	--	--	--	--	2.66	--
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	26.4	14.9	<.041	--	--	--	--	--	1.92	--
BA Ce 313	11-28-00	<.5	<.1	<.041	--	--	--	--	--	<.047	--
	11-28-00	29.5	10.5	<.041	--	--	--	--	--	.050	--
BA Da 123	01-09-01	31.2	4.5	<.041	--	--	--	--	--	.524	--
BA Db 262	10-30-00	--	14.9	<.041	<.10	.14	<.006	--	2.72	2.58	.035

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
BA Ab 51	10-31-00	--	--	--	--	101	93.9	--	--	<10	<10
	10-31-00	--	--	--	--	104	93.9	--	--	<10	<10
BA Ab 53	10-10-00	<.018	.108	--	--	--	90	--	--	40	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	--	--	--	--	30	30.0	--	--	<10	30
	11-13-00	--	--	--	--	29	29.9	--	--	<10	150
BA Ac 154	11-01-00	<.018	.005	--	--	--	110	--	--	<10	--
BA Ad 145	11-15-00	--	--	--	--	99	101	--	--	<10	E10
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	E.013	--	--	<1	18	24.4	<.2	<.06	<10	<10
BA Ad 149	01-16-01	--	--	--	--	38	--	--	--	<10	50
BA Ae 19	11-15-00	--	--	--	--	28	29.0	--	--	60	330
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	--	--	--	--	153	145	--	--	<10	40
BA Bb 140	11-14-00	--	--	--	--	226	195	--	--	<10	50
BA Bb 143	11-13-00	--	--	--	--	120	117	--	--	<10	190
BA Bb 144	01-23-01	--	--	--	--	75	80.3	--	--	<10	330
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	--	--	--	--	<10	--	--	--	<10	<10
	10-30-00	--	--	--	--	104	96.5	--	--	<10	90
BA Bb 151	11-29-00	--	--	--	--	311	269	--	--	<10	470
BA Bc 267	11-14-00	--	--	--	--	329	281	--	--	<10	<10
BA Bc 277	10-30-00	.019	.026	.058	--	--	110	--	--	<10	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	--	--	--	--	87	95.3	--	--	<10	<10
BA Bd 232	01-08-01	--	--	--	--	38	35.1	--	--	<10	140
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	--	--	--	--	98	99.1	--	--	<10	<10
BA Bd 237	11-28-00	--	--	--	--	96	--	--	--	<10	<10
BA Bd 239	10-16-00	<.018	.009	--	--	--	550	--	--	30	--
BA Bd 240	10-25-00	.028	.040	.086	--	--	150	--	--	<10	--
BA Bd 241	11-01-00	<.018	.007	--	--	--	70	--	--	<10	--
BA Bd 242	11-06-00	<.018	E.003	--	--	--	90	--	--	<10	--
BA Be 37	11-29-00	--	--	--	--	136	130	--	--	<10	10
BA Be 38	11-28-00	--	--	--	--	67	70.8	--	--	130	200
BA Ca 66	12-12-00	--	--	--	--	70	74.6	--	--	<10	170
BA Cb 134	12-05-00	--	--	--	--	80	90.0	--	--	<10	20
BA Cb 136	11-27-00	--	--	--	--	198	183	--	--	<10	40
	11-27-00	--	--	--	--	197	183	--	--	<10	30
BA Cb 138	01-22-01	--	--	--	--	189	187	--	--	<10	40
BA Cb 142	12-13-00	--	--	--	--	128	127	--	--	<10	<10
BA Cb 144	01-23-01	--	--	--	--	308	319	--	--	<10	70
BA Cc 253	12-07-00	--	--	--	--	294	278	--	--	10	20
BA Cc 254	12-13-00	--	--	--	--	167	171	--	--	<10	<10
BA Cc 257	01-17-01	--	--	--	--	138	145	--	--	<10	<10
BA Cc 260	11-06-00	.032	.048	.098	--	--	90	--	--	M	--
BA Cc 261	11-09-00	<.018	.006	--	--	--	230	--	--	<10	--
BA Cd 230	12-07-00	--	--	--	--	263	236	--	--	<10	1060
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	--	--	--	--	71	83.3	--	--	<10	30
BA Cd 235	11-29-00	--	--	--	--	151	151	--	--	<10	10
BA Cd 237	01-16-01	--	--	--	--	<10	--	--	--	<10	<10
	01-16-01	--	--	--	--	114	114	--	--	<10	60
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	--	--	--	--	92	104	--	--	<10	<10
BA Ce 313	11-28-00	--	--	--	--	<10	--	--	--	<10	<10
	11-28-00	--	--	--	--	84	81.3	--	--	290	670
BA Da 123	01-09-01	--	--	--	--	135	136	--	--	70	640
BA Db 262	10-30-00	.030	.036	.092	--	--	60	--	--	M	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)
BA Ab 51	10-31-00	1.21	19.3	17	--	--	--	47.3	<.002	<.004	<.002
	10-31-00	1.23	18.6	18	--	--	--	--	<.002	<.004	<.002
BA Ab 53	10-10-00	--	--	--	--	--	--	33.8	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	.94	E2.2	E2	--	--	--	20.8	<.002	<.004	<.002
	11-13-00	.96	E2.5	E2	--	--	--	--	<.002	<.004	<.002
BA Ac 154	11-01-00	--	--	--	--	--	--	77.6	--	--	--
BA Ad 145	11-15-00	.44	<3.2	E2	--	--	--	50.1	<.002	<.004	<.002
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	1.42	<3.0	<3	<.01	<.04	<.60	39.0	--	<.050	<.050
BA Ad 149	01-16-01	.73	<3.2	4	--	--	--	11.9	<.002	<.004	<.002
BA Ae 19	11-15-00	2.26	7.5	8	--	--	--	61.3	<.002	<.004	<.002
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	1.60	10.1	11	--	--	--	98.5	<.002	<.004	.034
BA Bb 140	11-14-00	.82	<3.2	<3	--	--	--	44.3	<.002	<.004	<.002
BA Bb 143	11-13-00	.68	E1.7	E2	--	--	--	22.0	<.002	<.004	<.002
BA Bb 144	01-23-01	.13	<3.2	<3	--	--	--	25.1	<.002	<.004	<.002
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.08	<3.2	<3	--	--	--	--	<.002	<.004	<.002
	10-30-00	7.39	102	87	--	--	--	92.8	<.002	<.004	<.002
BA Bb 151	11-29-00	.67	8.0	15	--	--	--	51.6	<.002	<.004	.020
BA Bc 267	11-14-00	.38	7.2	7	--	--	--	72.8	<.002	<.004	<.002
BA Bc 277	10-30-00	--	--	--	--	--	--	142	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	2.13	<3.2	<3	--	--	--	46.0	<.002	<.004	<.002
BA Bd 232	01-08-01	1.82	<3.2	E2	--	--	--	23.7	<.002	<.004	<.002
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	.32	<3.2	<3	--	--	--	56.6	<.002	<.004	<.002
BA Bd 237	11-28-00	.70	<3.2	<3	--	--	--	63.3	<.002	<.004	<.002
BA Bd 239	10-16-00	--	--	--	--	--	--	95.6	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	20.4	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	77.2	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	47.9	--	--	--
BA Be 37	11-29-00	E.06	4.9	5	--	--	--	69.8	<.002	<.004	<.002
BA Be 38	11-28-00	.23	25.0	24	--	--	--	5.7	<.002	<.004	<.002
BA Ca 66	12-12-00	.44	4.2	4	--	--	--	64.7	<.002	<.004	<.002
BA Cb 134	12-05-00	.34	125	126	--	--	--	103	<.002	<.004	<.002
BA Cb 136	11-27-00	.92	<3.2	<3	--	--	--	34.6	<.002	<.004	<.002
	11-27-00	.94	<3.2	<3	--	--	--	--	<.002	<.004	<.002
BA Cb 138	01-22-01	1.23	<3.2	<3	--	--	--	62.3	<.002	<.004	<.002
BA Cb 142	12-13-00	.45	<3.2	<3	--	--	--	75.0	<.002	<.004	<.002
BA Cb 144	01-23-01	.41	<3.2	<3	--	--	--	44.8	<.002	<.004	<.002
BA Cc 253	12-07-00	.43	E2.8	<3	--	--	--	68.7	<.002	<.004	<.002
BA Cc 254	12-13-00	1.95	<3.2	<3	--	--	--	86.3	<.002	<.004	<.002
BA Cc 257	01-17-01	.86	<3.2	<3	--	--	--	57.2	<.002	<.004	<.002
BA Cc 260	11-06-00	--	--	--	--	--	--	51.8	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	50.9	--	--	--
BA Cd 230	12-07-00	2.50	6.0	23	--	--	--	87.5	<.002	<.004	<.002
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	.71	<3.2	E2	--	--	--	22.0	<.002	<.004	<.002
BA Cd 235	11-29-00	.59	<3.2	<3	--	--	--	62.7	<.002	<.004	<.002
BA Cd 237	01-16-01	<.08	<3.2	<3	--	--	--	--	<.002	<.004	<.002
	01-16-01	<.08	<3.2	3	--	--	--	78.3	<.002	<.004	<.002
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	1.53	<3.2	<3	--	--	--	50.9	<.002	<.004	<.002
BA Ce 313	11-28-00	<.08	<3.2	<3	--	--	--	--	<.002	<.004	<.002
	11-28-00	.20	22.5	22	--	--	--	7.0	<.002	<.004	<.002
BA Da 123	01-09-01	E.05	84.9	87	--	--	--	19.9	<.002	<.004	<.002
BA Db 262	10-30-00	--	--	--	--	--	--	39.2	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ALPHA-	ALPHA-	AMETRYN	ATRA-	BEN-	BRO-	BUTA-	BUTYL-	CAR-	CARBO-
		HCH, D6 SUR SCD 1379 WTR, DIS- SOLVED (UG/L) (34253)	HCH, D6 SUR SCD 1379 FLTRD, PERCENT (90505)	WATER, DISS, REC, (UG/L) (38401)	ZINE, WATER, DISS, REC, (UG/L) (39632)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	MACIL, WATER, DISS, REC (UG/L) (04029)	CHLOR, WATER, DISS, REC (UG/L) (04026)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL- WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
BA Ab 51	10-31-00	<.005	--	--	E.003	<.010	--	--	<.002	<.041	<.020
	10-31-00	<.005	--	--	E.002	<.010	--	--	<.002	<.041	<.020
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	E.011
	11-13-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	E.011
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	<.005	--	--	.049	<.010	--	--	<.002	<.041	<.020
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	--	89	<.05	<.050	--	<.05	<.05	<.050	--	--
BA Ad 149	01-16-01	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Ae 19	11-15-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	<.005	--	--	.294	<.010	--	--	<.002	<.041	<.020
BA Bb 140	11-14-00	<.005	--	--	E.001	<.010	--	--	<.002	<.041	<.020
BA Bb 143	11-13-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	E.019
BA Bb 144	01-23-01	<.005	--	--	.009	<.010	--	--	<.002	<.041	<.020
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
	10-30-00	<.005	--	--	.044	<.010	--	--	<.002	<.041	<.020
BA Bb 151	11-29-00	<.005	--	--	.019	<.010	--	--	<.002	<.041	<.020
BA Bc 267	11-14-00	<.005	--	--	.398	<.010	--	--	<.002	<.041	E.086
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	<.005	--	--	.250	<.010	--	--	<.002	<.041	<.020
BA Bd 232	01-08-01	<.005	--	--	.184	<.010	--	--	<.002	<.041	<.020
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	<.005	--	--	.402	<.010	--	--	<.002	<.041	E.019
BA Bd 237	11-28-00	<.005	--	--	.187	<.010	--	--	<.002	<.041	E.034
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	<.005	--	--	.143	<.010	--	--	<.002	<.041	<.020
BA Be 38	11-28-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Ca 66	12-12-00	<.005	--	--	.010	<.010	--	--	<.002	<.041	<.020
BA Cb 134	12-05-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Cb 136	11-27-00	<.005	--	--	.543	<.010	--	--	<.002	<.041	<.020
	11-27-00	<.005	--	--	.578	<.010	--	--	<.002	<.041	<.020
BA Cb 138	01-22-01	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Cb 142	12-13-00	<.005	--	--	.032	<.010	--	--	<.002	<.041	<.020
BA Cb 144	01-23-01	<.005	--	--	E.007	<.010	--	--	<.002	<.041	<.020
BA Cc 253	12-07-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Cc 254	12-13-00	<.005	--	--	E.001	<.010	--	--	<.002	<.041	<.020
BA Cc 257	01-17-01	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Cd 235	11-29-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Cd 237	01-16-01	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
	01-16-01	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	<.005	--	--	.768	<.010	--	--	<.002	<.041	<.020
BA Ce 313	11-28-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
	11-28-00	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Da 123	01-09-01	<.005	--	--	<.007	<.010	--	--	<.002	<.041	<.020
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
BA Ab 51	10-31-00	--	<.005	<.018	--	<.003	E.060	--	112	--	<.005
	10-31-00	--	<.005	<.018	--	<.003	E.054	--	81	--	<.005
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	--	<.005	<.018	--	<.003	E.083	--	92	--	<.005
	11-13-00	--	<.005	<.018	--	<.003	E.085	--	96	--	<.005
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	--	<.005	<.018	--	<.003	E.625	--	90	--	<.005
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	<.05	--	<.200	<.05	--	<.050	<.05	--	88	--
BA Ad 149	01-16-01	--	<.005	<.018	--	<.003	E.007	--	91	--	<.005
BA Ae 19	11-15-00	--	<.005	<.018	--	<.003	<.006	--	92	--	<.005
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	--	<.005	<.018	--	<.003	E.399	--	116	--	<.005
BA Bb 140	11-14-00	--	<.005	<.018	--	<.003	E.089	--	96	--	<.005
BA Bb 143	11-13-00	--	<.005	<.018	--	<.003	E.151	--	91	--	<.005
BA Bb 144	01-23-01	--	<.005	<.018	--	<.003	E.076	--	107	--	<.005
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	--	<.005	<.018	--	<.003	<.006	--	90	--	<.005
	10-30-00	--	<.005	<.018	--	<.003	E.394	--	114	--	<.005
BA Bb 151	11-29-00	--	<.005	<.018	--	<.003	E.637	--	109	--	<.005
BA Bc 267	11-14-00	--	<.005	<.018	--	<.003	E.599	--	95	--	<.005
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	--	<.005	<.018	--	<.003	E.363	--	110	--	<.005
BA Bd 232	01-08-01	--	<.005	<.018	--	<.003	E3.5	--	115	--	<.005
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	--	<.005	<.018	--	<.003	E.678	--	104	--	<.005
BA Bd 237	11-28-00	--	<.005	<.018	--	<.003	E1.2	--	110	--	<.005
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	--	<.005	<.018	--	<.003	E.798	--	117	--	<.005
BA Be 38	11-28-00	--	<.005	<.018	--	<.003	<.006	--	102	--	<.005
BA Ca 66	12-12-00	--	<.005	<.018	--	<.003	E.046	--	116	--	<.005
BA Cb 134	12-05-00	--	<.005	<.018	--	<.003	<.006	--	132	--	<.005
BA Cb 136	11-27-00	--	<.005	<.018	--	<.003	E1.2	--	113	--	<.005
	11-27-00	--	<.005	<.018	--	<.003	E1.2	--	110	--	<.005
BA Cb 138	01-22-01	--	<.005	<.018	--	<.003	E.063	--	112	--	<.005
BA Cb 142	12-13-00	--	<.005	<.018	--	<.003	E.022	--	110	--	<.005
BA Cb 144	01-23-01	--	<.005	<.018	--	<.003	E.036	--	92	--	<.005
BA Cc 253	12-07-00	--	<.005	<.018	--	<.003	E.144	--	121	--	<.005
BA Cc 254	12-13-00	--	<.005	<.018	--	<.003	E.178	--	98	--	<.005
BA Cc 257	01-17-01	--	<.005	<.018	--	<.003	<.006	--	91	--	<.005
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	--	<.005	<.018	--	<.003	E.001	--	73	--	<.005
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	--	<.005	<.018	--	<.003	<.006	--	111	--	<.005
BA Cd 235	11-29-00	--	<.005	<.018	--	<.003	<.006	--	117	--	<.005
BA Cd 237	01-16-01	--	<.005	<.018	--	<.003	<.006	--	74	--	<.005
	01-16-01	--	<.005	<.018	--	<.003	<.006	--	116	--	<.005
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	--	<.005	<.018	--	<.003	E.195	--	109	--	<.005
BA Ce 313	11-28-00	--	<.005	<.018	--	<.003	<.006	--	101	--	<.005
	11-28-00	--	<.005	<.018	--	<.003	E.014	--	105	--	<.005
BA Da 123	01-09-01	--	<.005	<.018	--	<.003	<.006	--	95	--	<.005
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	LINDANE DIS-SOLVED (UG/L) (39341)
BA Ab 51	10-31-00	<.005	--	<.021	<.002	<.009	<.005	<.003	104	--	<.004
	10-31-00	<.005	--	<.021	<.002	<.009	<.005	<.003	75	--	<.004
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	<.005	--	<.021	<.002	<.009	<.005	<.003	90	--	<.004
	11-13-00	<.005	--	<.021	<.002	<.009	<.005	<.003	88	--	<.004
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	<.005	--	<.021	<.002	<.009	<.005	<.003	89	--	<.004
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	--	<.05	--	--	--	--	--	--	<.05	--
BA Ad 149	01-16-01	<.005	--	<.021	<.002	<.009	<.005	<.003	82	--	<.004
BA Ae 19	11-15-00	<.005	--	<.021	<.002	<.009	<.005	<.003	90	--	<.004
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	<.005	--	<.021	<.002	<.009	<.005	<.003	106	--	<.004
BA Bb 140	11-14-00	<.005	--	<.021	<.002	<.009	<.005	<.003	93	--	<.004
BA Bb 143	11-13-00	<.005	--	<.021	<.002	<.009	<.005	<.003	86	--	<.004
BA Bb 144	01-23-01	<.005	--	<.021	<.002	<.009	<.005	<.003	96	--	<.004
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.005	--	<.021	<.002	<.009	<.005	<.003	89	--	<.004
	10-30-00	<.005	--	<.021	<.002	<.009	<.005	<.003	100	--	<.004
BA Bb 151	11-29-00	<.005	--	<.021	<.002	<.009	<.005	<.003	87	--	<.004
BA Bc 267	11-14-00	<.005	--	<.021	<.002	<.009	<.005	<.003	90	--	<.004
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	<.005	--	<.021	<.002	<.009	<.005	<.003	87	--	<.004
BA Bd 232	01-08-01	<.005	--	<.021	<.002	<.009	<.005	<.003	103	--	<.004
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	<.005	--	<.021	<.002	<.009	<.005	<.003	95	--	<.004
BA Bd 237	11-28-00	<.005	--	<.021	<.002	<.009	<.005	<.003	96	--	<.004
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	<.005	--	<.021	<.002	<.009	<.005	<.003	99	--	<.004
BA Be 38	11-28-00	<.005	--	<.021	<.002	<.009	<.005	<.003	94	--	<.004
BA Ca 66	12-12-00	<.005	--	<.021	<.002	<.009	<.005	<.003	105	--	<.004
BA Cb 134	12-05-00	<.005	--	<.021	<.002	<.009	<.005	<.003	100	--	<.004
BA Cb 136	11-27-00	<.005	--	<.021	<.002	<.009	<.005	<.003	94	--	<.004
	11-27-00	<.005	--	<.021	<.002	<.009	<.005	<.003	96	--	<.004
BA Cb 138	01-22-01	<.005	--	<.021	<.002	<.009	<.005	<.003	94	--	<.004
BA Cb 142	12-13-00	<.005	--	<.021	<.002	<.009	<.005	<.003	109	--	<.004
BA Cb 144	01-23-01	.039	--	<.021	<.002	<.009	<.005	<.003	93	--	<.004
BA Cc 253	12-07-00	<.005	--	<.021	<.002	<.009	<.005	<.003	112	--	<.004
BA Cc 254	12-13-00	<.005	--	<.021	<.002	<.009	<.005	<.003	97	--	<.004
BA Cc 257	01-17-01	<.005	--	<.021	<.002	<.009	<.005	<.003	79	--	<.004
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	<.005	--	<.021	<.002	<.009	<.005	<.003	73	--	<.004
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	<.005	--	<.021	<.002	<.009	<.005	<.003	85	--	<.004
BA Cd 235	11-29-00	<.005	--	<.021	<.002	<.009	<.005	<.003	92	--	<.004
BA Cd 237	01-16-01	<.005	--	<.021	<.002	<.009	<.005	<.003	71	--	<.004
	01-16-01	<.005	--	<.021	<.002	<.009	<.005	<.003	101	--	<.004
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	<.005	--	<.021	<.002	<.009	<.005	<.003	98	--	<.004
BA Ce 313	11-28-00	<.005	--	<.021	<.002	<.009	<.005	<.003	91	--	<.004
	11-28-00	<.005	--	<.021	<.002	<.009	<.005	<.003	92	--	<.004
BA Da 123	01-09-01	<.005	--	<.021	<.002	<.009	<.005	<.003	85	--	<.004
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)
		BA Ab 51	10-31-00	<.035	<.027	<.050	<.006	E.010	<.006	<.002	<.007
	10-31-00	<.035	<.027	<.050	<.006	E.010	<.006	<.002	<.007	<.003	<.007
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	<.035	<.027	<.050	<.006	.355	<.006	<.002	<.007	<.003	<.007
	11-13-00	<.035	<.027	<.050	<.006	.381	<.006	<.002	<.007	<.003	<.007
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	<.035	<.027	<.050	<.006	.101	<.006	<.002	<.007	<.003	<.007
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	--	--	--	--	E.007	<.050	--	--	--	--
BA Ad 149	01-16-01	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Ae 19	11-15-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	<.035	<.027	<.050	<.006	.053	<.006	<.002	<.007	<.003	<.007
BA Bb 140	11-14-00	<.035	<.027	<.050	<.006	E.012	<.006	<.002	<.007	<.003	<.007
BA Bb 143	11-13-00	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.007
BA Bb 144	01-23-01	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
	10-30-00	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003	<.007
BA Bb 151	11-29-00	<.035	<.027	<.050	<.006	.086	<.006	<.002	<.007	<.003	<.007
BA Bc 267	11-14-00	<.035	<.027	<.050	<.006	.531	<.006	<.002	<.007	<.003	<.007
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.007
BA Bd 232	01-08-01	<.035	<.027	<.050	<.006	.065	<.006	<.002	<.007	<.003	<.007
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	<.035	<.027	<.050	<.006	.199	<.006	<.002	<.007	<.003	<.007
BA Bd 237	11-28-00	<.035	<.027	<.050	<.006	.359	<.006	<.002	<.007	<.003	<.007
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	<.035	<.027	<.050	<.006	.060	<.006	<.002	<.007	<.003	<.007
BA Be 38	11-28-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Ca 66	12-12-00	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003	<.007
BA Cb 134	12-05-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Cb 136	11-27-00	<.035	<.027	<.050	<.006	.024	<.006	<.002	<.007	<.003	<.007
	11-27-00	<.035	<.027	<.050	<.006	.026	<.006	<.002	<.007	<.003	<.007
BA Cb 138	01-22-01	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003	<.007
BA Cb 142	12-13-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Cb 144	01-23-01	<.035	<.027	<.050	<.006	E.002	<.006	<.002	<.007	<.003	<.007
BA Cc 253	12-07-00	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003	<.007
BA Cc 254	12-13-00	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.007
BA Cc 257	01-17-01	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	M	<.007
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Cd 235	11-29-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Cd 237	01-16-01	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
	01-16-01	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	<.035	<.027	<.050	<.006	E.013	<.006	<.002	<.007	<.003	<.007
BA Ce 313	11-28-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
	11-28-00	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Da 123	01-09-01	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PEB- ULATE WATER FILTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U	PER- METHRIN CIS WAT FLT 0.7 U	PHORATE WATER FLTRD 0.7 U	PRO- METON, WATER, DISS, REC	PRO- METRYN, WATER, DISS, REC	PRON- AMIDE WATER FLTRD 0.7 U	PROPA- CHLOR- WATER, DISS, REC	PRO- PANIL WATER FLTRD 0.7 U	PRO- PARGITE WATER FLTRD 0.7 U
		GF, REC (82669)	GF, REC (82683)	GF, REC (82687)	GF, REC (82664)	GF, REC (04037)	GF, REC (04036)	GF, REC (82676)	GF, REC (04024)	GF, REC (82679)	GF, REC (82685)
BA Ab 51	10-31-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	10-31-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	11-13-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	--	--	--	--	<.050	<.05	--	<.050	--	--
BA Ad 149	01-16-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Ae 19	11-15-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	<.002	<.010	<.006	<.011	E.001	--	<.004	<.010	<.011	<.023
BA Bb 140	11-14-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bb 143	11-13-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bb 144	01-23-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	10-30-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bb 151	11-29-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bc 267	11-14-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bd 232	01-08-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bd 237	11-28-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Be 38	11-28-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Ca 66	12-12-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cb 134	12-05-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cb 136	11-27-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	11-27-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cb 138	01-22-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cb 142	12-13-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cb 144	01-23-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cc 253	12-07-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cc 254	12-13-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cc 257	01-17-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cd 235	11-29-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Cd 237	01-16-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	01-16-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Ce 313	11-28-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
	11-28-00	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Da 123	01-09-01	<.002	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PROP- AZINE WATER DISS REC (UG/L) (38535)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)
BA Ab 51	10-31-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	10-31-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--	--	--	--	--
	11-13-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	11-13-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	--	E.005	--	<.016	--	<.034	<.017	<.005	<.002	--
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	<.05	<.050	<.05	--	<.05	--	--	--	--	<.05
BA Ad 149	01-16-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Ae 19	11-15-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bb 136	01-08-01	--	--	--	--	--	--	--	--	--	--
	01-08-01	--	.032	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bb 140	11-14-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bb 143	11-13-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bb 144	01-23-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bb 148	10-30-00	--	--	--	--	--	--	--	--	--	--
	10-30-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	10-30-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bb 151	11-29-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bc 267	11-14-00	--	E.005	--	<.016	--	E.052	<.017	<.005	<.002	--
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--	--	--	--	--
	12-04-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bd 232	01-08-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bd 235	11-27-00	--	--	--	--	--	--	--	--	--	--
	11-27-00	--	E.003	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bd 237	11-28-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Be 38	11-28-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Ca 66	12-12-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cb 134	12-05-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cb 136	11-27-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	11-27-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cb 138	01-22-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cb 142	12-13-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cb 144	01-23-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cc 253	12-07-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cc 254	12-13-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cc 257	01-17-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cd 235	11-29-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Cd 237	01-16-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	01-16-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	--	E.003	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Ce 313	11-28-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
	11-28-00	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Da 123	01-09-01	--	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI-FLUR-ALIN	VERNO-LATE, WATER, DISS, REC	XYLENE WATER UNFLTRD REC	BENZENE 14BRFL-SURROG VOC UNFLTRD REC	BENZENE TOTAL (UG/L)	ETHANE 12DICL SURROG VOC UNFLTRD REC	ETHYL-BENZENE TOTAL (UG/L)	METHYL TERT-BUTYL ETHER WAT UNF REC	META/PARA-XYLENE WATER UNFLTRD REC	O-XYLENE WATER WHOLE TOTAL (UG/L)
		WAT FLT 0.7 U GF, REC (82661)	(UG/L) (04034)	(UG/L) (81551)	PERCENT (99834)	(UG/L) (34030)	PERCENT (99832)	(UG/L) (34371)	(UG/L) (78032)	(UG/L) (85795)	(UG/L) (77135)
BA Ab 51	10-31-00	<.009	--	<.2	90	<.20	102	<.20	<.2	<.20	<.20
	10-31-00	<.009	--	<.2	91	<.20	106	<.20	<.2	<.20	<.20
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	<.2	100	<.20	108	<.20	<.2	<.20	<.20
	11-13-00	<.009	--	<.2	119	<.20	105	<.20	<.2	<.20	<.20
	11-13-00	<.009	--	<.2	118	<.20	101	<.20	<.2	<.20	<.20
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	<.009	--	<.2	95	<.20	99	<.20	<.2	<.20	<.20
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ad 146	07-19-01	--	<.05	<.2	105	<.20	108	<.20	<.2	<.20	<.20
BA Ad 149	01-16-01	<.009	--	<.2	99	<.20	101	<.20	<.2	<.20	<.20
BA Ae 19	11-15-00	<.009	--	<.2	101	<.20	109	<.20	2.9	<.20	<.20
BA Bb 136	01-08-01	--	--	<.2	97	<.20	99	<.20	<.2	<.20	<.20
	01-08-01	<.009	--	<.2	85	<.20	107	<.20	<.2	<.20	<.20
BA Bb 140	11-14-00	<.009	--	<.2	117	<.20	106	<.20	<.2	<.20	<.20
BA Bb 143	11-13-00	<.009	--	<.2	119	<.20	104	<.20	<.2	<.20	<.20
BA Bb 144	01-23-01	<.009	--	<.2	79	<.20	138	<.20	<.2	<.20	<.20
BA Bb 148	10-30-00	--	--	<.2	91	<.20	102	<.20	<.2	<.20	<.20
	10-30-00	<.009	--	<.2	90	<.20	127	<.20	<.2	<.20	<.20
	10-30-00	<.009	--	<.2	92	<.20	128	<.20	E.1	<.20	<.20
BA Bb 151	11-29-00	<.009	--	<.2	94	<.20	105	<.20	<.2	<.20	<.20
BA Bc 267	11-14-00	<.009	--	<.2	119	<.20	104	<.20	3.4	<.20	<.20
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	<.2	97	<.20	123	<.20	<.2	<.20	<.20
	12-04-00	<.009	--	<.2	93	<.20	110	<.20	<.2	<.20	<.20
BA Bd 232	01-08-01	<.009	--	<.2	83	<.20	107	<.20	<.2	<.20	<.20
BA Bd 235	11-27-00	--	--	<.2	95	<.20	102	<.20	<.2	<.20	<.20
	11-27-00	<.009	--	<.2	102	<.20	100	<.20	<.2	<.20	<.20
BA Bd 237	11-28-00	<.009	--	<.2	102	<.20	106	<.20	<.2	<.20	<.20
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	<.009	--	<.2	104	<.20	105	<.20	<.2	<.20	<.20
BA Be 38	11-28-00	<.009	--	<.2	103	<.20	105	<.20	<.2	<.20	<.20
BA Ca 66	12-12-00	<.009	--	<.2	104	<.20	129	<.20	<.2	<.20	<.20
BA Cb 134	12-05-00	<.009	--	<.2	103	<.20	102	<.20	<.2	<.20	<.20
BA Cb 136	11-27-00	<.009	--	<.2	99	<.20	99	<.20	<.2	<.20	<.20
	11-27-00	<.009	--	<.2	102	<.20	102	<.20	<.2	<.20	<.20
BA Cb 138	01-22-01	<.009	--	<.2	107	<.20	116	<.20	<.2	<.20	<.20
	12-13-00	<.009	--	<.2	88	<.20	96	<.20	<.2	<.20	<.20
BA Cb 144	01-23-01	<.009	--	<.2	74	<.20	133	<.20	1.5	<.20	<.20
BA Cc 253	12-07-00	<.009	--	<.2	97	<.20	117	<.20	<.2	<.20	<.20
BA Cc 254	12-13-00	<.009	--	<.2	89	<.20	100	<.20	8.1	<.20	<.20
BA Cc 257	01-17-01	<.009	--	<.2	95	<.20	100	<.20	<.2	<.20	<.20
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	<.009	--	<.2	94	<.20	123	<.20	<.2	<.20	<.20
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 234	12-04-00	<.009	--	<.2	91	<.20	104	<.20	<.2	<.20	<.20
BA Cd 235	11-29-00	<.009	--	<.2	104	<.20	100	<.20	<.2	<.20	<.20
BA Cd 237	01-16-01	<.009	--	<.2	95	<.20	100	<.20	<.2	<.20	<.20
	01-16-01	<.009	--	<.2	97	<.20	99	<.20	<.2	<.20	<.20
	03-09-01	--	--	--	--	--	--	--	--	--	--
BA Cd 239	12-12-00	<.009	--	<.2	95	<.20	123	<.20	<.2	<.20	<.20
BA Ce 313	11-28-00	<.009	--	<.2	101	<.20	99	<.20	<.2	<.20	<.20
	11-28-00	<.009	--	<.2	101	<.20	104	<.20	<.2	<.20	<.20
BA Da 123	01-09-01	<.009	--	<.2	96	<.20	95	<.20	<.2	<.20	<.20
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TOLUENE D8 SURROG VOC		ALPHA COUNT, 2 SIGMA WAT DIS	ALPHA RADIO. WATER DISS	BETA, 2 SIGMA WATER, DISS, AS	GROSS ALPHA, 2X CL, SS MDC, FLTRD,	GROSS BETA, DIS- SOLVED AS	GROSS BETA, 2X CL, SS MDC, FLTRD,	RA-226, DIS- SOLVED, PLAN- CHET COUNT	RADIUM 228 DIS- SOLVED AS
		UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (UG/L) (34010)	TH-230 (PCI/L) (75987)	TH-230 (PCI/L) (04126)	CS-137 (PCI/L) (75989)	FLTRD, (PCI/L) (99337)	(PCI/L) AS (03515)	(PCI/L) WATER, (99323)	(PCI/L) (09510)	(81366)
BA Ab 51	10-31-00	101	<.20	3.2	7.02	4.0	--	5.22	--	--	--
	10-31-00	102	<.20	2.1	1.28	3.8	--	1.91	--	--	--
BA Ab 53	10-10-00	--	--	--	--	--	--	--	--	--	--
BA Ac 151	11-13-00	99	<.20	--	--	--	--	--	--	--	--
	11-13-00	105	<.20	2.4	<3.00	4.2	--	<4.00	--	--	--
	11-13-00	106	<.20	2.2	<3.00	4.1	--	<4.00	--	--	--
BA Ac 154	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Ad 145	11-15-00	96	<.20	3.2	6.16	4.2	--	8.73	--	--	--
	03-12-01	--	--	--	--	--	--	--	--	.07	.59
BA Ad 146	07-19-01	100	<.20	.85	2.53	.97	.85000	3.35	1.280	--	--
BA Ad 149	01-16-01	100	<.20	2.0	.12	3.8	--	--	--	--	--
BA Ae 19	11-15-00	101	<.20	--	--	--	--	--	--	--	--
BA Bb 136	01-08-01	100	<.20	--	--	--	--	--	--	--	--
	01-08-01	94	<.20	2.2	<3.00	4.0	--	<4.00	--	--	--
BA Bb 140	11-14-00	106	<.20	2.5	<3.00	4.1	--	4.45	--	--	--
BA Bb 143	11-13-00	105	<.20	2.6	<3.00	4.2	--	<4.00	--	--	--
BA Bb 144	01-23-01	103	<.20	2.3	<3.00	3.9	--	<4.00	--	--	--
BA Bb 148	10-30-00	100	<.20	--	--	--	--	--	--	--	--
	10-30-00	100	<.20	1.9	<3.00	3.9	--	<4.00	--	--	--
	10-30-00	100	<.20	2.7	<3.00	4.1	--	<4.00	--	--	--
BA Bb 151	11-29-00	102	<.20	2.9	<3.00	4.4	--	4.60	--	--	--
BA Bc 267	11-14-00	107	<.20	2.5	<3.00	4.2	--	<4.00	--	--	--
BA Bc 277	10-30-00	--	--	--	--	--	--	--	--	--	--
BA Bd 227	12-04-00	103	<.20	--	--	--	--	--	--	--	--
	12-04-00	101	<.20	2.1	<3.00	3.7	--	<4.00	--	--	--
BA Bd 232	01-08-01	94	<.20	.86	<3.00	1.9	--	<4.00	--	--	--
BA Bd 235	11-27-00	98	<.20	--	--	--	--	--	--	--	--
	11-27-00	99	<.20	2.4	<3.00	3.8	--	<4.00	--	--	--
BA Bd 237	11-28-00	99	<.20	2.3	<3.00	4.0	--	<4.00	--	--	--
BA Bd 239	10-16-00	--	--	--	--	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Be 37	11-29-00	101	<.20	2.2	<3.00	3.9	--	<4.00	--	--	--
BA Be 38	11-28-00	102	<.20	2.6	<3.00	4.1	--	4.72	--	--	--
BA Ca 66	12-12-00	103	<.20	2.4	<3.00	3.9	--	<4.00	--	--	--
BA Cb 134	12-05-00	99	<.20	2.4	<3.00	4.0	--	5.39	--	--	--
BA Cb 136	11-27-00	98	<.20	3.8	6.67	4.5	--	10.4	--	--	--
	11-27-00	101	<.20	3.5	5.85	4.3	--	5.92	--	--	--
BA Cb 138	01-22-01	104	<.20	3.4	<3.00	4.0	--	<4.00	--	--	--
BA Cb 142	12-13-00	95	<.20	1.9	<3.00	4.0	--	<4.00	--	--	--
BA Cb 144	01-23-01	99	<.20	4.5	9.20	4.5	5.320	2.91	7.370	--	--
BA Cc 253	12-07-00	103	<.20	2.9	3.53	4.4	--	8.72	--	--	--
BA Cc 254	12-13-00	96	<.20	3.2	5.43	4.3	--	<4.00	--	--	--
BA Cc 257	01-17-01	98	<.20	1.6	<3.00	3.8	--	<4.00	--	--	--
BA Cc 260	11-06-00	--	--	--	--	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Cd 230	12-07-00	102	<.20	6.9	35.7	5.3	--	28.9	--	--	--
	03-09-01	--	--	--	--	--	--	--	--	1.78	5.01
BA Cd 234	12-04-00	98	<.20	2.4	<3.00	4.0	--	<4.00	--	--	--
BA Cd 235	11-29-00	99	<.20	2.8	4.18	4.1	--	6.56	--	--	--
BA Cd 237	01-16-01	100	<.20	2.0	<3.00	3.8	--	<4.00	--	--	--
	01-16-01	99	<.20	3.9	9.76	4.7	--	12.6	--	--	--
	03-09-01	--	--	--	--	--	--	--	--	.01	.90
BA Cd 239	12-12-00	104	<.20	2.3	<3.00	4.0	--	<4.00	--	--	--
BA Ce 313	11-28-00	99	<.20	2.0	<3.00	3.8	--	<4.00	--	--	--
	11-28-00	99	<.20	2.2	<3.00	4.0	--	<4.00	--	--	--
BA Da 123	01-09-01	98	<.20	2.5	<3.00	4.2	--	6.56	--	--	--
BA Db 262	10-30-00	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	RADIUM			RADON		RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
		RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	RA-228 2 SIGMA WATER, DISS, (PCI/L) (76000)	228, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99326)	222 RADON 222 TOTAL (PCI/L) (82303)	222, 2X CL, SS MDC, WATER, UNFLTRD (PCI/L) (99327)	
BA Ab 51	10-31-00	--	--	--	2490	--	45
	10-31-00	--	--	--	2490	--	45
BA Ab 53	10-10-00	--	--	--	--	--	--
BA Ac 151	11-13-00	--	--	--	--	--	--
	11-13-00	--	--	--	3530	--	53
	11-13-00	--	--	--	3560	--	54
BA Ac 154	11-01-00	--	--	--	--	--	--
BA Ad 145	11-15-00	--	--	--	6080	--	71
	03-12-01	.06	.34	.51800	--	--	--
BA Ad 146	07-19-01	--	--	--	8380	39.0	100
BA Ad 149	01-16-01	--	--	--	4020	--	57
BA Ae 19	11-15-00	--	--	--	4060	--	59
BA Bb 136	01-08-01	--	--	--	--	--	--
	01-08-01	--	--	--	2000	--	41
BA Bb 140	11-14-00	--	--	--	5350	--	64
BA Bb 143	11-13-00	--	--	--	667	--	25
BA Bb 144	01-23-01	--	--	--	1620	--	36
BA Bb 148	10-30-00	--	--	--	--	--	--
	10-30-00	--	--	--	43.0	--	14
	10-30-00	--	--	--	4540	--	59
BA Bb 151	11-29-00	--	--	--	151	--	18
BA Bc 267	11-14-00	--	--	--	4920	--	61
BA Bc 277	10-30-00	--	--	--	--	--	--
BA Bd 227	12-04-00	--	--	--	--	--	--
	12-04-00	--	--	--	4560	--	60
BA Bd 232	01-08-01	--	--	--	5380	--	64
BA Bd 235	11-27-00	--	--	--	--	--	--
	11-27-00	--	--	--	1940	--	41
BA Bd 237	11-28-00	--	--	--	2510	--	47
BA Bd 239	10-16-00	--	--	--	--	--	--
BA Bd 240	10-25-00	--	--	--	--	--	--
BA Bd 241	11-01-00	--	--	--	--	--	--
BA Bd 242	11-06-00	--	--	--	--	--	--
BA Be 37	11-29-00	--	--	--	2280	--	44
BA Be 38	11-28-00	--	--	--	1870	--	41
BA Ca 66	12-12-00	--	--	--	3920	--	57
BA Cb 134	12-05-00	--	--	--	3130	--	51
BA Cb 136	11-27-00	--	--	--	2940	--	49
	11-27-00	--	--	--	2940	--	49
BA Cb 138	01-22-01	--	--	--	4820	--	60
BA Cb 142	12-13-00	--	--	--	4730	--	61
BA Cb 144	01-23-01	--	--	--	696	--	26
BA Cc 253	12-07-00	--	--	--	5430	--	65
BA Cc 254	12-13-00	--	--	--	6330	--	70
BA Cc 257	01-17-01	--	--	--	372	--	21
BA Cc 260	11-06-00	--	--	--	--	--	--
BA Cc 261	11-09-00	--	--	--	--	--	--
BA Cd 230	12-07-00	--	--	--	3700	--	55
	03-09-01	.44	1.2	.70900	--	--	--
BA Cd 234	12-04-00	--	--	--	5390	--	64
BA Cd 235	11-29-00	--	--	--	2560	--	45
BA Cd 237	01-16-01	--	--	--	65.0	--	14
	01-16-01	--	--	--	6230	--	68
	03-09-01	.05	.41	.52600	--	--	--
BA Cd 239	12-12-00	--	--	--	1370	--	36
BA Ce 313	11-28-00	--	--	--	60.0	--	16
	11-28-00	--	--	--	1220	--	34
BA Da 123	01-09-01	--	--	--	6510	--	70
BA Db 262	10-30-00	--	--	--	--	--	--

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	STATION TYPE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
BA Db 263	11-09-00	1330	392858076494201	ENVIRONMENTAL	--	GW	8030	640	67
BA Dc 59	01-17-01	1300	392620076440001	ENVIRONMENTAL	300CCKV	SP	4010	460	--
BA Dc 444	07-18-01	1500	392931076410301	ENVIRONMENTAL	300CCKV	GW	4040	390	300
BA Dc 445	11-15-00	1600	392841076400201	ENVIRONMENTAL	300CCKV	GW	8030	320	300
	11-15-00	1605		REPLICATE	300CCKV	GW	8030	320	300
BA Dc 447	01-30-01	1055	392537076423301	BLANK	370LCRV	GW	--	450	276
	01-30-01	1100		ENVIRONMENTAL	370LCRV	GW	8030	450	276
BA Dc 450	01-16-01	0755	392650076433901	BLANK	370LCRV	GW	--	610	150
	01-16-01	0800		ENVIRONMENTAL	370LCRV	GW	8030	610	150
BA Dc 462	10-31-00	1100	392522076415801	ENVIRONMENTAL	--	GW	8030	400	30
	10-31-00	1115		REPLICATE	--	GW	--	400	30
BA Dc 463	11-13-00	1330	392707076443801	ENVIRONMENTAL	--	GW	8030	600	93
BA Dc 465	01-30-01	1355	392731076420201	BLANK	370LCRV	GW	--	540	290
	01-30-01	1400		ENVIRONMENTAL	370LCRV	GW	8030	540	290
	03-20-01	1400		ENVIRONMENTAL	370LCRV	GW	8030	540	290
BA Dd 300	01-22-01	0955	392928076380601	BLANK	370LCRV	GW	--	490	150
	01-22-01	1000		ENVIRONMENTAL	370LCRV	GW	8030	490	150
BA De 636	11-27-00	1200	392959076310401	ENVIRONMENTAL	370LCRV	GW	8030	590	305
	11-27-00	1205		REPLICATE	370LCRV	GW	8030	590	305
BA De 640	12-11-00	0900	392635076312501	ENVIRONMENTAL	300CCKV	GW	8030	360	1050
BA De 641	12-11-00	1155	392636076312501	BLANK	370LCRV	GW	--	360	400
	12-11-00	1200		ENVIRONMENTAL	370LCRV	GW	8030	360	400
BA Df 352	12-11-00	1400	392814076271101	ENVIRONMENTAL	370LCRV	GW	8030	460	173
BA Df 353	12-12-00	1400	392538076291401	ENVIRONMENTAL	400BLMR	GW	8030	310	100
BA Df 356	11-13-00	1045	392648076251501	ENVIRONMENTAL	--	GW	8030	260	22
BA Dg 117	12-04-00	1400	392610076241701	ENVIRONMENTAL	300BLMR	GW	8030	230	300
BA Ea 95	12-05-00	1200	392159076520101	ENVIRONMENTAL	400BLMR	GW	8030	430	200
BA Ea 97	10-18-00	1045	392047076512201	ENVIRONMENTAL	--	GW	8030	480	58
BA Ec 203	10-31-00	0900	392430076410301	ENVIRONMENTAL	400SGTS	GW	8030	450	190
	03-12-01	1000		ENVIRONMENTAL	400SGTS	GW	8030	450	190
BA Ec 205	01-22-01	1400	392446076434101	ENVIRONMENTAL	300CCKV	GW	8030	410	305
BA Eg 259	11-07-00	1245	392339076222701	ENVIRONMENTAL	--	GW	8030	60	100
	11-07-00	1300		REPLICATE	--	GW	--	60	100
BA Fb 81	12-05-00	1400	391857076474301	ENVIRONMENTAL	370HLFD	GW	8030	230	125
	12-05-00	1405		REPLICATE	370HLFD	GW	8030	230	125

Geologic Unit (aquifer): 300CCKV - Cockeysville Marble  
370HLFD - Hollofield Layered  
370LCRV - Loch Raven Schist  
400BLMR - Baltimore Gneiss  
400SGTS - Slaughterhouse Gneiss

Station Type: GW - Ground Water  
SP - Spring

Sampling Method: 4010 - Thief sampler  
8030 - Grab sample at water supply tap



QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
BA Db 263	11-09-00	--	--	15	3.5	4.5	5.8	110	14.5	13.5	44.1
BA Dc 59	01-17-01	--	--	--	E20.0	E6.3	7.4	237	4.0	12.1	115
BA Dc 444	07-18-01	300	88	73	7.0	1.5	7.6	272	--	12.8	144
BA Dc 445	11-15-00	300	90	37	4.0	8.8	7.7	501	--	13.0	247
	11-15-00	300	90	37	--	--	--	--	--	--	247
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	276	112	30	3.0	.8	8.0	146	4.5	12.0	62.5
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	150	28	30	3.0	E7.3	5.1	94	4.0	11.3	23.8
BA Dc 462	10-31-00	--	--	20	3.5	6.1	7.3	765	15.5	13.6	342
	10-31-00	--	--	20	4.0	6.1	7.3	765	15.5	13.6	342
BA Dc 463	11-13-00	--	--	15	4.2	6.6	8.0	178	--	--	105
BA Dc 465	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	290	48	35	3.0	3.6	6.3	195	7.5	10.9	64.8
	03-20-01	290	48	20	3.0	--	--	168	--	11.6	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	150	20	20	3.0	--	5.3	213	-4.5	11.0	67.3
BA De 636	11-27-00	305	39	20	3.0	1.0	5.4	179	--	13.2	43.0
	11-27-00	305	39	20	--	--	--	--	--	--	42.3
BA De 640	12-11-00	1050	42	48	3.0	1.3	6.2	531	4.5	13.1	94.6
BA De 641	12-11-00	--	--	--	--	--	--	--	--	--	--
	12-11-00	400	37	35	3.0	6.8	5.8	147	1.0	12.2	32.1
BA Df 352	12-11-00	173	30	25	3.0	3.7	6.8	194	--	12.2	--
	12-12-00	100	21	20	3.0	9.1	5.5	307	--	12.6	107
BA Df 353	11-13-00	--	--	20	4.0	7.7	6.8	470	10.5	16.5	210
BA Dg 117	12-04-00	300	58	20	3.0	--	6.5	176	--	13.3	68.3
BA Ea 95	12-05-00	200	60	69	3.0	--	6.0	201	--	12.8	50.2
	10-18-00	--	--	20	4.0	7.1	6.1	99	15.5	16.0	30.8
BA Ea 97	10-18-00	--	--	20	4.0	7.1	6.1	99	15.5	16.0	30.8
BA Ec 203	10-31-00	190	36	20	2.0	--	5.0	137	--	13.4	38.7
	03-12-01	190	36	20	3.0	--	--	158	--	12.5	--
BA Ec 205	01-22-01	305	20	35	3.0	E5.4	7.3	521	-1.5	11.1	237
	11-07-00	--	--	20	3.0	--	6.7	915	10.0	14.0	378
BA Eg 259	11-07-00	--	--	20	3.5	--	6.7	915	10.0	14.0	387
	12-05-00	125	28	25	4.0	--	6.3	2010	--	12.6	746
BA Fb 81	12-05-00	125	28	25	--	--	--	--	--	--	754

E Estimated value.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	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)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ANC BICAR- BONATE IT FIELD (MG/L AS HCO3) (00450)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
BA Db 263	11-09-00	10.4	4.39	2.10	8.6	--	28	--	34	8.0	--
BA Dc 59	01-17-01	36.1	6.13	1.05	2.0	110	--	134	--	3.3	--
BA Dc 444	07-18-01	32.9	15.0	1.67	1.8	145	--	177	--	3.5	<.2
BA Dc 445	11-15-00	53.7	27.5	9.16	2.8	206	--	251	--	15.1	--
	11-15-00	53.1	27.7	8.84	2.8	203	--	248	--	15.4	--
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	19.3	3.50	2.57	5.6	67	--	82	--	3.4	--
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	3.48	3.67	1.32	5.8	8	--	10	--	3.8	--
BA Dc 462	10-31-00	70.1	40.5	1.09	58.9	--	280	--	342	135	--
	10-31-00	70.1	40.5	1.09	58.9	--	284	--	347	135	--
BA Dc 463	11-13-00	29.1	7.86	1.82	2.6	--	110	--	134	4.7	--
BA Dc 465	01-30-01	<.01	<.008	<.24	<.1	--	--	--	--	<.1	--
	01-30-01	14.7	6.81	3.72	7.8	45	--	54	--	20.3	--
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	11.7	9.26	2.20	6.7	10	--	12	--	37.2	--
BA De 636	11-27-00	7.91	5.64	2.72	12.7	15	--	18	--	18.5	--
	11-27-00	7.76	5.57	2.63	12.7	15	--	18	--	17.9	--
BA De 640	12-11-00	24.8	7.91	3.45	39.3	81	--	99	--	72.8	--
BA De 641	12-11-00	<.01	<.008	<.09	<.1	--	--	--	--	<.1	--
	12-11-00	8.06	2.91	2.04	7.0	38	--	47	--	7.7	--
BA Df 352	12-11-00	<.01	<.008	E.06	32.6	57	--	69	--	12.5	--
BA Df 353	12-12-00	27.4	9.34	3.36	7.2	10	--	12	--	16.4	--
BA Df 356	11-13-00	58.9	15.3	5.63	28.6	--	160	--	195	28.3	--
BA Dg 117	12-04-00	16.7	6.43	5.17	2.3	74	--	90	--	12.8	--
BA Ea 95	12-05-00	13.3	4.11	2.39	9.2	24	--	30	--	6.5	--
BA Ea 97	10-18-00	8.56	2.28	1.41	9.2	--	29	--	35	8.9	--
BA Ec 203	10-31-00	9.73	3.50	3.72	8.2	7	--	8	--	22.8	--
	03-12-01	9.78	--	--	8.2	--	--	--	--	--	--
BA Ec 205	01-22-01	68.5	16.0	2.56	8.6	202	--	246	--	26.7	--
BA Eg 259	11-07-00	86.1	39.6	13.7	59.1	--	485	--	592	58.5	--
	11-07-00	88.7	40.1	14.2	54.0	--	475	--	580	56.4	--
BA Fb 81	12-05-00	149	90.8	1.85	26.6	85	--	104	--	513	--
	12-05-00	152	91.1	1.86	25.8	84	--	102	--	513	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
BA Db 263	11-09-00	--	9.5	<.041	<.10	<.08	<.006	--	3.88	.054	.048
BA Dc 59	01-17-01	11.7	2.5	<.041	--	--	--	--	.633	--	--
BA Dc 444	07-18-01	9.6	1.3	<.040	--	--	<.006	--	.151	<.060	<.020
BA Dc 445	11-15-00	16.3	15.8	<.041	--	--	--	--	6.59	--	--
	11-15-00	16.3	15.8	<.041	--	--	--	--	6.54	--	--
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	18.8	13.3	<.041	--	--	--	--	<.047	--	--
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	10.6	.2	<.041	--	--	--	--	6.77	--	--
BA Dc 462	10-31-00	--	11.7	<.041	<.10	<.08	<.006	--	3.62	<.006	<.018
	10-31-00	--	11.7	<.041	<.10	<.08	<.006	--	3.62	<.006	<.018
BA Dc 463	11-13-00	--	3.0	<.041	<.10	<.08	<.006	--	1.21	.010	E.014
BA Dc 465	01-30-01	<.5	<.1	<.041	--	--	--	--	<.047	--	--
	01-30-01	20.9	12.9	<.041	--	--	--	--	.294	--	--
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	11.1	3.5	<.041	--	--	--	--	5.68	--	--
BA De 636	11-27-00	24.7	25.4	<.041	--	--	--	--	2.11	--	--
	11-27-00	24.4	25.4	<.041	--	--	--	--	2.11	--	--
BA De 640	12-11-00	27.7	24.0	<.041	--	--	--	--	<.047	--	--
BA De 641	12-11-00	<.5	<.1	<.041	--	--	--	--	<.047	--	--
	12-11-00	24.0	7.8	<.041	--	--	--	--	.797	--	--
BA Df 352	12-11-00	30.0	14.0	<.041	--	--	--	--	<.047	--	--
BA Df 353	12-12-00	22.5	22.3	<.041	--	--	--	--	18.8	--	--
BA Df 356	11-13-00	--	44.5	<.041	<.10	E.04	<.006	--	10.3	.028	.028
BA Dg 117	12-04-00	<.5	.3	<.041	--	--	--	--	E.041	--	--
BA Ea 95	12-05-00	23.5	28.4	<.041	--	--	--	--	4.88	--	--
BA Ea 97	10-18-00	--	4.4	<.041	E.05	E.06	<.006	--	2.93	.057	.051
BA Ec 203	10-31-00	16.5	1.6	<.041	--	--	--	--	5.21	--	--
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	13.4	6.0	<.041	--	--	--	--	4.72	--	--
BA Eg 259	11-07-00	--	69.6	3.23	4.3	4.2	.009	1.06	<.047	E.004	<.018
	11-07-00	--	70.4	3.23	4.3	4.2	.009	1.06	<.047	E.004	<.018
BA Fb 81	12-05-00	37.7	32.9	<.041	--	--	--	--	.579	--	--
	12-05-00	--	32.5	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, ORTHO- DIS- SOLVED (MG/L AS PO4) (00660)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
BA Db 263	11-09-00	.045	.147	--	--	80	--	--	<10	--	--
BA Dc 59	01-17-01	--	--	--	132	132	--	--	<10	<10	<.08
BA Dc 444	07-18-01	--	--	<1	144	153	<.2	E.04	<10	1020	<.08
BA Dc 445	11-15-00	--	--	--	283	293	--	--	<10	E10	.52
	11-15-00	--	--	--	279	291	--	--	<10	M	.51
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	--	--	--	101	107	--	--	100	120	<.08
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	--	--	--	62	63.7	--	--	<10	<10	30.1
BA Dc 462	10-31-00	<.004	--	--	--	500	--	--	<10	--	--
	10-31-00	<.004	--	--	--	500	--	--	<10	--	--
BA Dc 463	11-13-00	.010	--	--	--	120	--	--	<10	--	--
BA Dc 465	01-30-01	--	--	--	<10	--	--	--	<10	<10	<.08
	01-30-01	--	--	--	115	115	--	--	120	450	.16
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	--	--	--	110	113	--	--	<10	M	4.57
BA De 636	11-27-00	--	--	--	116	116	--	--	20	30	43.7
	11-27-00	--	--	--	115	115	--	--	20	30	43.5
BA De 640	12-11-00	--	--	--	255	265	--	--	16300	19500	<.08
BA De 641	12-11-00	--	--	--	<10	--	--	--	<10	<10	<.08
	12-11-00	--	--	--	78	86.2	--	--	40	290	.56
BA Df 352	12-11-00	--	--	--	115	--	--	--	<10	<10	.12
BA Df 353	12-12-00	--	--	--	191	198	--	--	<10	<10	1.19
BA Df 356	11-13-00	.025	.086	--	--	320	--	--	<10	--	--
BA Dg 117	12-04-00	--	--	--	149	93.3	--	--	4930	4980	.08
BA Ea 95	12-05-00	--	--	--	115	124	--	--	M	60	.35
BA Ea 97	10-18-00	.064	.156	--	--	70	--	--	<10	--	--
BA Ec 203	10-31-00	--	--	--	95	93.3	--	--	<10	M	6.45
	03-12-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	--	--	--	282	284	--	--	<10	40	.52
BA Eg 259	11-07-00	.010	--	--	--	650	--	--	30400	--	--
	11-07-00	.010	--	--	--	640	--	--	30200	--	--
BA Fb 81	12-05-00	--	--	--	998	906	--	--	<10	E10	1.00
	12-05-00	--	--	--	--	866	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)
BA Db 263	11-09-00	--	--	--	--	--	86.1	--	--	--	--
BA Dc 59	01-17-01	<3.2	<3	--	--	--	8.8	<.002	<.004	<.002	<.005
BA Dc 444	07-18-01	<3.0	E2	<.01	<.04	1.1	6.9	--	<.050	<.050	--
BA Dc 445	11-15-00	<3.2	<3	--	--	--	7.8	<.002	<.004	<.002	<.005
	11-15-00	<3.2	<3	--	--	--	--	<.002	<.004	<.002	<.005
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	41.3	42	--	--	--	1.1	<.002	<.004	<.002	<.005
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	12.6	12	--	--	--	127	<.002	<.004	.005	<.005
BA Dc 462	10-31-00	--	--	--	--	--	29.3	--	--	--	--
	10-31-00	--	--	--	--	--	27.4	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	2.1	--	--	--	--
BA Dc 465	01-30-01	<3.2	<3	--	--	--	--	<.002	<.004	<.002	<.005
	01-30-01	120	117	--	--	--	41.0	<.002	<.004	<.002	<.005
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	13.7	13	--	--	--	100	<.002	<.004	<.002	<.005
BA De 636	11-27-00	126	121	--	--	--	121	<.002	<.004	<.002	<.005
	11-27-00	122	121	--	--	--	--	<.002	<.004	<.002	<.005
BA De 640	12-11-00	529	484	--	--	--	62.0	<.002	<.004	<.002	<.005
BA De 641	12-11-00	<3.2	<3	--	--	--	--	<.002	<.004	<.002	<.005
	12-11-00	70.4	71	--	--	--	89.4	<.002	<.004	<.002	<.005
BA Df 352	12-11-00	<3.2	<3	--	--	--	12.9	<.002	<.004	<.002	<.005
BA Df 353	12-12-00	E2.9	E2	--	--	--	70.3	<.002	<.004	<.002	<.005
BA Df 356	11-13-00	--	--	--	--	--	51.2	--	--	--	--
BA Dg 117	12-04-00	354	337	--	--	--	39.2	<.002	<.004	<.002	<.005
BA Ea 95	12-05-00	8.1	12	--	--	--	39.5	<.002	<.004	<.002	<.005
BA Ea 97	10-18-00	--	--	--	--	--	38.9	--	--	--	--
BA Ec 203	10-31-00	6.3	7	--	--	--	164	<.002	<.004	<.002	<.005
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	<3.2	E2	--	--	--	20.1	<.002	<.004	<.002	<.005
BA Eg 259	11-07-00	--	--	--	--	--	165	--	--	--	--
	11-07-00	--	--	--	--	--	169	--	--	--	--
BA Fb 81	12-05-00	<3.2	<3	--	--	--	80.6	<.002	<.004	<.002	<.005
	12-05-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ALPHA- HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (90505)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD GF, REC (UG/L) (82673)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA- CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	--	--	.050	<.010	--	--	<.002	<.041	<.020	--
BA Dc 444	07-18-01	86	<.05	<.050	--	<.05	<.05	<.050	--	--	<.05
BA Dc 445	11-15-00	--	--	.405	<.010	--	--	<.002	<.041	<.020	--
	11-15-00	--	--	.409	<.010	--	--	<.002	<.041	<.020	--
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	--	--	<.007	<.010	--	--	<.002	<.041	E.017	--
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
	01-30-01	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA De 636	11-27-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
	11-27-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA De 640	12-11-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA De 641	12-11-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
	12-11-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA Df 352	12-11-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA Df 353	12-12-00	--	--	.045	<.010	--	--	<.002	<.041	<.020	--
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
BA Ea 95	12-05-00	--	--	E.002	<.010	--	--	<.002	<.041	<.020	--
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	--	--	E.002	<.010	--	--	<.002	<.041	<.020	--
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	--	--	.020	<.010	--	--	<.002	<.041	<.020	--
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	--	--	<.007	<.010	--	--	<.002	<.041	<.020	--
	12-05-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	<.005	<.018	--	<.003	E.056	--	108	--	<.005	<.005
BA Dc 444	07-18-01	--	<.200	<.05	--	<.050	<.05	--	84	--	--
BA Dc 445	11-15-00	<.005	E.005	--	<.003	E1.7	--	96	--	<.005	<.005
	11-15-00	<.005	E.006	--	<.003	E1.5	--	93	--	<.005	<.005
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	<.005	<.018	--	<.003	<.006	--	110	--	<.005	<.005
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	<.005	<.018	--	<.003	E.025	--	100	--	<.005	<.005
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	<.005	<.018	--	<.003	<.006	--	111	--	<.005	<.005
	01-30-01	<.005	<.018	--	<.003	<.006	--	114	--	<.005	<.005
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	<.005	<.018	--	<.003	<.006	--	113	--	<.005	<.005
BA De 636	11-27-00	<.005	<.018	--	<.003	<.006	--	99	--	<.005	<.005
	11-27-00	<.005	<.018	--	<.003	<.006	--	111	--	<.005	<.005
BA De 640	12-11-00	<.005	<.018	--	<.003	<.006	--	109	--	<.005	<.005
BA De 641	12-11-00	<.005	<.018	--	<.003	<.006	--	104	--	<.005	<.005
	12-11-00	<.005	<.018	--	<.003	<.006	--	103	--	<.005	<.005
BA Df 352	12-11-00	<.005	<.018	--	<.003	<.006	--	109	--	<.005	<.005
BA Df 353	12-12-00	<.005	<.018	--	<.003	E.125	--	107	--	<.005	<.005
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	<.005	<.018	--	<.003	<.006	--	109	--	<.005	<.005
BA Ea 95	12-05-00	<.005	<.018	--	<.003	E.151	--	119	--	<.005	<.005
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	<.005	<.018	--	<.003	E.021	--	115	--	<.005	<.005
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	<.005	<.018	--	<.003	E.076	--	113	--	<.005	<.005
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	<.005	<.018	--	<.003	E.007	--	119	--	<.005	<.005
	12-05-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC (UG/L) (91065)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	--	<.021	<.002	<.009	<.005	<.003	98	--	<.004	<.035
BA Dc 444	07-18-01	<.05	--	--	--	--	--	--	<.05	--	--
BA Dc 445	11-15-00	--	<.021	<.002	<.009	<.005	<.003	95	--	<.004	<.035
	11-15-00	--	<.021	<.002	<.009	<.005	<.003	89	--	<.004	<.035
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	--	<.021	<.006	<.009	<.005	<.003	132	--	<.004	<.035
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	--	<.021	<.002	<.009	<.005	<.003	88	--	<.004	<.035
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	--	<.021	<.002	<.009	<.005	<.003	107	--	<.004	<.035
	01-30-01	--	<.021	<.002	<.009	<.005	<.003	123	--	<.004	<.035
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	--	<.021	<.002	<.009	<.005	<.003	97	--	<.004	<.035
BA De 636	11-27-00	--	<.021	<.002	<.009	<.005	<.003	84	--	<.004	<.035
	11-27-00	--	<.021	<.002	<.009	<.005	<.003	94	--	<.004	<.035
BA De 640	12-11-00	--	<.021	<.002	<.009	<.005	<.003	98	--	<.004	<.035
BA De 641	12-11-00	--	<.021	<.002	<.009	<.005	<.003	97	--	<.004	<.035
	12-11-00	--	<.021	<.002	<.009	<.005	<.003	100	--	<.004	<.035
BA Df 352	12-11-00	--	<.021	<.002	<.009	<.005	<.003	113	--	<.004	<.035
BA Df 353	12-12-00	--	<.021	<.002	<.009	<.005	<.003	96	--	<.004	<.035
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	--	<.021	<.002	<.009	<.005	<.003	85	--	<.004	<.035
BA Ea 95	12-05-00	--	<.021	<.002	<.009	<.005	<.003	90	--	<.004	<.035
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	--	<.021	<.002	<.009	<.005	<.003	96	--	<.004	<.035
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	--	<.021	<.002	<.009	<.005	<.003	101	--	<.004	<.035
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	--	<.021	<.002	<.009	<.005	<.003	94	--	<.004	<.035
	12-05-00	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METHYL	METHYL		METRI-	MOL-	NAPROP-			PEB-	
		MALA- THION, DIS- SOLVED (UG/L) (39532)	AZIN- PHOS WAT FLT GF, REC (UG/L) (82686)	PARA- THION WAT FLT GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	INATE WATER FLTRD 0.7 U (UG/L) (82671)	AMIDE WATER FLTRD 0.7 U (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	ULATE WATER FILTRD 0.7 U (UG/L) (82669)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA Dc 444	07-18-01	--	--	--	<.050	<.050	--	--	--	--	--
BA Dc 445	11-15-00	<.027	<.050	<.006	.037	<.006	<.002	<.007	<.003	<.007	<.002
	11-15-00	<.027	<.050	<.006	.037	<.006	<.002	<.007	<.003	<.007	<.002
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	<.027	<.050	<.006	.056	<.006	<.002	<.007	<.003	<.007	<.002
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	01-30-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA De 636	11-27-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	11-27-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA De 640	12-11-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA De 641	12-11-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	12-11-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA Df 352	12-11-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	12-12-00	<.027	<.050	<.006	.238	<.006	<.002	<.007	<.003	<.007	<.002
BA Df 353	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA Ea 95	12-05-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	<.027	<.050	<.006	.065	<.006	<.002	<.007	<.003	<.007	<.002
	03-12-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
BA Ec 205	01-22-01	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
	12-05-00	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PENDI-	PER-	PHORATE	PRO-	PRO-	PRON-	PROPA-	PRO-	PRO-	PROP-
		METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	METRYN, WATER, DISS, REC (UG/L) (04036)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROP- AZINE WATER DISS REC (UG/L) (82685)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Dc 444	07-18-01	--	--	--	<.050	<.05	--	<.050	--	--	<.05
BA Dc 445	11-15-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	11-15-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	01-30-01	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA De 636	11-27-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	11-27-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA De 640	12-11-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA De 641	12-11-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	12-11-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Df 352	12-11-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Df 353	12-12-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Ea 95	12-05-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	<.010	<.006	<.011	E.004	--	<.004	<.010	<.011	<.023	--
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	<.010	<.006	<.011	<.015	--	<.004	<.010	<.011	<.023	--
	12-05-00	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	E.005	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Dc 444	07-18-01	<.050	<.05	--	<.05	--	--	--	--	<.05	--
BA Dc 445	11-15-00	E.010	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	11-15-00	E.007	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Dc 447	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Dc 450	01-16-01	--	--	--	--	--	--	--	--	--	--
	01-16-01	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	01-30-01	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--	--	--	--	--	--
	01-22-01	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA De 636	11-27-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	11-27-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA De 640	12-11-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA De 641	12-11-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	12-11-00	<.011	--	<.016	--	<.040	<.017	<.005	<.002	--	<.009
BA Df 352	12-11-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Df 353	12-12-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Ea 95	12-05-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	.014	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	<.011	--	<.016	--	<.034	<.017	<.005	<.002	--	<.009
	12-05-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BENZENE		ETHANE		METHYL TERT- BUTYL ETHER WAT UNF (UG/L) (78032)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC (99833)
				14BRFL- SURROG VOC UNFLTRD REC (99834)	BENZENE TOTAL (UG/L) (34030)	12DICL SURROG VOC UNFLTRD REC (99832)	ETHYL- BENZENE TOTAL (UG/L) (34371)				
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	--	<.2	96	<.20	102	<.20	<.2	<.20	<.20	100
BA Dc 444	07-18-01	<.05	.5	105	<.20	104	.11	<.2	.32	.19	101
BA Dc 445	11-15-00	--	<.2	96	<.20	98	<.20	<.2	<.20	<.20	97
	11-15-00	--	<.2	97	<.20	103	<.20	<.2	<.20	<.20	99
BA Dc 447	01-30-01	--	<.2	111	<.20	106	<.20	<.2	<.20	<.20	102
	01-30-01	--	<.2	107	<.20	100	<.20	<.2	<.20	<.20	102
BA Dc 450	01-16-01	--	<.2	98	<.20	101	<.20	<.2	<.20	<.20	99
	01-16-01	--	<.2	95	<.20	99	<.20	<.2	<.20	<.20	99
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	--	--	--	--	--	--	--	--	--	--
	01-30-01	--	<.2	106	<.20	104	<.20	4.6	<.20	<.20	101
	03-20-01	--	--	--	--	--	--	--	--	--	--
BA Dd 300	01-22-01	--	<.2	79	<.20	136	<.20	<.2	<.20	<.20	97
	01-22-01	--	<.2	105	<.20	114	<.20	<.2	<.20	<.20	103
BA De 636	11-27-00	--	<.2	102	<.20	101	<.20	.3	<.20	<.20	99
	11-27-00	--	<.2	101	<.20	97	<.20	.3	<.20	<.20	97
BA De 640	12-11-00	--	<.2	95	<.20	118	<.20	<.2	<.20	<.20	102
BA De 641	12-11-00	--	<.2	97	<.20	123	<.20	<.2	<.20	<.20	101
	12-11-00	--	<.2	96	<.20	116	<.20	<.2	<.20	<.20	102
BA Df 352	12-11-00	--	<.2	94	<.20	125	<.20	<.2	<.20	<.20	104
BA Df 353	12-12-00	--	<.2	97	<.20	123	<.20	<.2	<.20	<.20	105
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	--	<.2	96	<.20	113	<.20	<.2	<.20	<.20	102
BA Ea 95	12-05-00	--	<.2	106	<.20	100	<.20	.8	<.20	<.20	102
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	--	<.2	90	<.20	105	<.20	<.2	<.20	<.20	101
	03-12-01	--	--	--	--	--	--	--	--	--	--
BA Ec 205	01-22-01	--	<.2	107	<.20	120	<.20	<.2	<.20	<.20	103
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	--	<.2	102	<.20	102	<.20	<.2	<.20	<.20	101
	12-05-00	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TOLUENE TOTAL (UG/L) (34010)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA DISS, AS CS-137 (PCI/L) (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, (PCI/L) (99337)	GROSS BETA, DIS- SOLVED AS CS-137 (03515)	GROSS BETA, 2X CL, SS MDC, WATER, (PCI/L) (99323)	RA-226, DIS- SOLVED, PLAN- CHET COUNT (PCI/L) (09510)	RADIUM 228 DIS- SOLVED (PCI/L) RA-228) (81366)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)
BA Db 263	11-09-00	--	--	--	--	--	--	--	--	--	--
BA Dc 59	01-17-01	<.20	2.5	<3.00	4.0	--	<4.00	--	--	--	--
BA Dc 444	07-18-01	.20	.98	1.57	1.1	1.270	2.44	1.950	--	--	--
BA Dc 445	11-15-00	<.20	2.7	<3.00	4.7	--	13.1	--	--	--	--
	11-15-00	<.20	2.9	<3.00	4.9	--	15.8	--	--	--	--
BA Dc 447	01-30-01	<.20	--	--	--	--	--	--	--	--	--
	01-30-01	<.20	2.7	<3.00	4.2	--	<4.00	--	--	--	--
BA Dc 450	01-16-01	<.20	--	--	--	--	--	--	--	--	--
	01-16-01	<.20	2.2	<3.00	4.0	--	<4.00	--	--	--	--
BA Dc 462	10-31-00	--	--	--	--	--	--	--	--	--	--
	10-31-00	--	--	--	--	--	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dc 465	01-30-01	--	1.9	<3.00	4.0	--	<4.00	--	--	--	--
	01-30-01	<.20	4.4	11.1	4.5	--	4.60	--	--	--	--
	03-20-01	--	--	--	--	--	--	.27	1.37	.11	--
BA Dd 300	01-22-01	<.20	--	--	--	--	--	--	--	--	--
	01-22-01	<.20	3.2	<3.00	4.0	--	<4.00	--	--	--	--
BA De 636	11-27-00	<.20	2.8	<3.00	4.1	--	<4.00	--	--	--	--
	11-27-00	<.20	2.1	<3.00	3.9	--	<4.00	--	--	--	--
BA De 640	12-11-00	<.20	3.1	<3.00	4.5	--	<4.00	--	--	--	--
BA De 641	12-11-00	<.20	2.3	<3.00	4.1	--	<4.00	--	--	--	--
	12-11-00	<.20	2.9	3.40	4.3	--	<4.00	--	--	--	--
BA Df 352	12-11-00	<.20	2.1	<3.00	4.1	--	<4.00	--	--	--	--
BA Df 353	12-12-00	<.20	3.8	9.14	4.2	--	<4.00	--	--	--	--
BA Df 356	11-13-00	--	--	--	--	--	--	--	--	--	--
BA Dg 117	12-04-00	<.20	2.1	<3.00	4.0	--	5.60	--	--	--	--
BA Ea 95	12-05-00	<.20	3.4	7.55	4.2	--	8.14	--	--	--	--
BA Ea 97	10-18-00	--	--	--	--	--	--	--	--	--	--
BA Ec 203	10-31-00	<.20	4.0	12.5	4.2	--	9.82	--	--	--	--
	03-12-01	--	--	--	--	--	--	.98	2.56	.28	--
BA Ec 205	01-22-01	<.20	3.6	.93	4.4	--	2.64	--	--	--	--
BA Eg 259	11-07-00	--	--	--	--	--	--	--	--	--	--
	11-07-00	--	--	--	--	--	--	--	--	--	--
BA Fb 81	12-05-00	<.20	4.1	<3.00	8.8	--	5.13	--	--	--	--
	12-05-00	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	RADIUM		RADON		RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
		RA-228 2 SIGMA WATER, DISS, (PCI/L) (76000)	228, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99326)	RADON 222 TOTAL (PCI/L) (82303)	222, 2X CL, SS MDC, WATER, UNFLTRD (PCI/L) (99327)	
BA Db 263	11-09-00	--	--	--	--	--
BA Dc 59	01-17-01	--	--	71.0	--	15
BA Dc 444	07-18-01	--	--	362	25.0	23
BA Dc 445	11-15-00	--	--	726	--	27
	11-15-00	--	--	694	--	26
BA Dc 447	01-30-01	--	--	--	--	--
	01-30-01	--	--	956	--	30
BA Dc 450	01-16-01	--	--	--	--	--
	01-16-01	--	--	1330	--	35
BA Dc 462	10-31-00	--	--	--	--	--
	10-31-00	--	--	--	--	--
BA Dc 463	11-13-00	--	--	--	--	--
BA Dc 465	01-30-01	--	--	35.5	--	14
	01-30-01	--	--	2130	--	42
	03-20-01	.53	.72000	--	--	--
BA Dd 300	01-22-01	--	--	--	--	--
	01-22-01	--	--	654	--	26
BA De 636	11-27-00	--	--	311	--	20
	11-27-00	--	--	304	--	20
BA De 640	12-11-00	--	--	495	--	24
BA De 641	12-11-00	--	--	53.0	--	18
	12-11-00	--	--	10300	--	91
BA Df 352	12-11-00	--	--	175	--	21
BA Df 353	12-12-00	--	--	5410	--	66
BA Df 356	11-13-00	--	--	--	--	--
BA Dg 117	12-04-00	--	--	887	--	29
BA Ea 95	12-05-00	--	--	16800	--	110
BA Ea 97	10-18-00	--	--	--	--	--
BA Ec 203	10-31-00	--	--	12700	--	100
	03-12-01	.73	.54700	--	--	--
BA Ec 205	01-22-01	--	--	898	--	28
BA Eg 259	11-07-00	--	--	--	--	--
	11-07-00	--	--	--	--	--
BA Fb 81	12-05-00	--	--	219	--	18
	12-05-00	--	--	--	--	--

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
CO Ad 19	08-31-01	1500	390720075463501	ENVIRONMENTAL	112CLMB	GW	8030	70	--
CO Cc 55	08-16-01	1500	385622075524501	ENVIRONMENTAL	112CLMB	GW	8030	50	--
CO Cd 54	08-31-01	1255	385557075481201	BLANK	112CLMB	GW	--	--	--
	08-31-01	1300		ENVIRONMENTAL	112CLMB	GW	8030	50	--
CO Dd 76	08-16-01	1300	385414075493001	ENVIRONMENTAL	112CLMB	GW	8030	30	--
CO De 15	08-22-01	1000	385009075445001	ENVIRONMENTAL	112CLMB	GW	4040	61	3.56
CO De 16	08-22-01	1230	385009075445002	ENVIRONMENTAL	112CLMB	GW	4040	61	3.69
	08-22-01	1235		REPLICATE	112CLMB	GW	4040	61	--
CO Ec 25	08-27-01	1200	384630075524801	ENVIRONMENTAL	112PCPC	GW	4040	50	7.31
	08-27-01	1205		REPLICATE	112PCPC	GW	4040	50	--
CO Fd 39	08-31-01	1100	384055075454801	ENVIRONMENTAL	112CLMB	GW	8030	30	--

DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)		
CO Ad 19	08-31-01	20	--	--	27	2.0	--	--	4.5	5.1	84
CO Cc 55	08-16-01	65	61	59	20	E3.0	--	--	6.3	4.9	169
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	45	45	35	24	E4.0	--	--	3.3	5.0	34
CO Dd 76	08-16-01	26	26	20	27	3.0	--	--	5.2	4.7	63
CO De 15	08-22-01	33	33	30	60	.48	767	88.4	8.6	4.6	164
CO De 16	08-22-01	17	17	14	120	.30	767	65.4	6.1	4.3	481
	08-22-01	17	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	28	28	18	60	.59	762	73.0	7.2	4.7	272
	08-27-01	28	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	45	45	40	22	E4.0	--	--	5.8	4.8	129

TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)		
CO Ad 19	08-31-01	--	22.9	22.0	4.07	2.88	1.34	4.1	2	2	3.6
CO Cc 55	08-16-01	--	15.9	44.5	12.5	3.23	3.04	11.7	9	10	26.3
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	15.2	3.02	.57	.388	1.69	4.4	6	7	7.1
CO Dd 76	08-16-01	--	17.6	17.0	2.89	2.39	1.99	1.8	2	2	2.8
CO De 15	08-22-01	29.0	17.0	44.7	8.14	5.74	4.12	7.3	1	1	13.5
CO De 16	08-22-01	29.0	19.0	47.9	3.16	9.33	6.27	55.6	--	--	116
	08-22-01	--	--	47.3	3.15	9.20	5.98	55.2	--	--	122
CO Ec 25	08-27-01	28.0	16.0	90.2	24.7	6.82	2.88	10.1	3	3	46.1
	08-27-01	--	--	89.2	24.1	6.98	2.88	9.3	--	--	46.7
CO Fd 39	08-31-01	--	15.5	29.2	5.86	3.53	3.77	6.8	<1	<1	9.7

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
 112PCPC - Pleistocene-Pliocene Series

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	FLUORIDE, DIS-SOLVED	BROMIDE, DIS-SOLVED	SILICA, DIS-SOLVED	SULFATE, DIS-SOLVED	NITROGEN, AMMONIA	NITROGEN, AMMONIA + ORGANIC	NITROGEN, NITRITE	NITROGEN, NO2+NO3	PHOSPHORUS, DIS-SOLVED	PHOSPHORUS, ORTHO, DIS-SOLVED
		(MG/L AS F) (00950)	(MG/L AS BR) (71870)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00613)	(MG/L AS N) (00631)	(MG/L AS P) (00666)	(MG/L AS P) (00671)
CO Ad 19	08-31-01	--	--	--	17.4	<.040	--	<.006	E2.09	<.060	<.020
CO Cc 55	08-16-01	--	--	--	.1	E.037	--	<.006	8.18	<.060	<.020
CO Cd 54	08-31-01	--	--	--	--	<.040	--	<.006	<.050	<.060	<.020
	08-31-01	--	--	--	.2	<.040	--	<.006	E.056	<.060	<.020
CO Dd 76	08-16-01	--	--	--	14.2	E.031	--	<.006	.767	<.060	<.020
CO De 15	08-22-01	<.2	.05	12.9	1.1	<.040	<.10	<.006	12.0	--	<.020
CO De 16	08-22-01	E.1	.03	13.8	1.0	<.040	<.10	<.006	4.82	--	<.020
	08-22-01	E.1	.04	13.7	.9	<.040	<.10	<.006	4.88	--	<.020
CO Ec 25	08-27-01	<.2	<.01	9.5	24.3	<.040	E.06	<.006	E9.34	--	<.020
	08-27-01	<.2	.01	9.7	25.2	<.040	E.07	<.006	E9.46	--	<.020
CO Fd 39	08-31-01	--	--	--	.1	<.040	--	<.006	E9.14	<.060	<.020
		TOTAL COLIFORM, M ENDO MF, WTR (COL/100 ML) (31501)	E COLI, NA-MUG, WATER (COL/100 ML) (50278)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
CO Ad 19	08-31-01	--	--	46	34.3	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	126	98.3	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	<10	17.7	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	32	30.7	--	--	--	--	--	--
CO De 15	08-22-01	>80	6	110	107	41	<.05	<.2	629	1.52	<7
CO De 16	08-22-01	--	--	231	--	471	<.05	<.2	2010	3.41	<7
	08-22-01	--	--	233	--	462	<.05	<.2	2040	3.56	<7
CO Ec 25	08-27-01	>80	1	191	126	52	E.03	<.2	345	.47	9
	08-27-01	--	--	191	--	55	E.04	E.2	346	.50	9
CO Fd 39	08-31-01	--	--	72	31.3	--	--	--	--	--	--
		CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
CO Ad 19	08-31-01	--	--	--	--	10	--	--	14.5	--	--
CO Cc 55	08-16-01	--	--	--	--	<10	--	--	6.3	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	<10	--	--	5.5	--	--
CO Dd 76	08-16-01	--	--	--	--	10	--	--	22.6	--	--
CO De 15	08-22-01	.10	1.2	2.33	1.1	M	2.16	2.7	68.8	<.2	4.59
CO De 16	08-22-01	.08	1.8	13.7	1.1	30	3.43	4.2	30.0	<.2	12.7
	08-22-01	.09	1.5	13.4	1.0	30	3.63	4.2	29.7	<.2	12.9
CO Ec 25	08-27-01	.11	1.8	2.47	1.1	M	.34	.8	59.6	<.2	2.94
	08-27-01	.11	1.1	2.79	1.3	<10	.41	.8	60.0	<.2	2.37
CO Fd 39	08-31-01	--	--	--	--	20	--	--	49.8	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 > Actual value is known to be greater than the value shown.  
 M Presence of material verified but not quantified.



QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	2,4,5-T SURROG WATER FLTRD REC PERCENT (99958)	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	46.2	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	234	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--	--	118	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	133	--	--
CO De 15	08-22-01	<.3	<1.0	241	.07	<.2	40	.65	--	77	<.009
CO De 16	08-22-01	.5	<1.0	76.6	.12	<.2	74	1.2	--	80	<.009
	08-22-01	.5	<1.0	78.6	.13	<.2	72	--	--	--	--
CO Ec 25	08-27-01	1.8	<1.0	60.6	E.03	<.2	7	.52	--	90	<.009
	08-27-01	1.9	<1.0	61.8	E.03	<.2	6	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	80.3	--	--
		2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT,FLT GF 0.7U (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT REC (UG/L) (49308)	3-KETO CARBO-FURAN WAT,FLT REC (UG/L) (50295)	ACETO-CHLOR ESA FLTRD 0.7 UM (UG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 UM (UG/L) (61030)	ACETO-CHLOR WATER, REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, REC (UG/L) (49315)	ALA-CHLOR OA FLTRD 0.7 UM (UG/L) (61031)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	<.050	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	<.050	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	<.050	--	--
	08-31-01	--	--	--	--	--	--	--	<.050	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	<.050	--	--
CO De 15	08-22-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
CO De 16	08-22-01	<.02	<.02	--	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	<.050	--	--
		ALA-CHLOR, (ESA) WAT FLT REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U (UG/L) (49313)	ALDICA-RB SULFOXIDE, WAT,FLT GF 0.7U (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ALPHA-HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (UG/L) (90505)	AMETRYN WATER, REC (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN SURROG-ATE WTR FLT SCD 2060, 9060 RE PERCENT (UG/L) (90640)
CO Ad 19	08-31-01	--	<.050	--	--	--	--	88	<.05	<.050	--
CO Cc 55	08-16-01	--	<.050	--	--	--	--	89	<.05	.050	--
CO Cd 54	08-31-01	--	<.050	--	--	--	--	78	<.05	<.050	--
	08-31-01	--	<.050	--	--	--	--	89	<.05	<.050	--
CO Dd 76	08-16-01	--	<.050	--	--	--	--	92	<.05	<.050	--
CO De 15	08-22-01	4.82	<.002	<.02	<.01	<.04	<.005	--	--	<.007	105
CO De 16	08-22-01	5.54	<.002	<.02	<.01	<.04	<.005	--	--	E.002	108
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	1.28	<.002	<.02	<.01	<.04	<.005	--	--	.010	115
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	<.050	--	--	--	--	82	<.05	<.050	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BENDIO-CARB, WATER, FLTRD (UG/L) (50299)	BEN-FLUR-ALIN, WAT FLD, REC GF, REC (UG/L) (82673)	BENOMYL, WATER, FLTRD (UG/L) (50300)	BEN-SUL-METHYL, WAT FLT, REC (UG/L) (61693)	BENTA-ZON, WATER, FLTRD, GF 0.7U, REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL, WATER, FLTRD, GF 0.7U, REC (UG/L) (49311)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER, FLTRD, REC (UG/L) (50305)
CO Ad 19	08-31-01	--	--	--	--	--	<.05	--	<.05	<.050	--
CO Cc 55	08-16-01	--	--	--	--	--	<.05	--	<.05	<.050	--
CO Cd 54	08-31-01	--	--	--	--	--	<.05	--	<.05	<.050	--
	08-31-01	--	--	--	--	--	<.05	--	<.05	<.050	--
CO Dd 76	08-16-01	--	--	--	--	--	<.05	--	<.05	<.050	--
CO De 15	08-22-01	<.025	<.010	<.004	<.0158	<.01	<.03	<.02	--	<.002	<.010
CO De 16	08-22-01	<.025	<.010	<.004	<.0158	<.01	E.02	<.02	--	<.002	<.010
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.025	<.010	<.004	<.0158	<.01	<.03	<.02	--	<.002	<.010
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	<.05	--	<.05	<.050	--
		CAF-FEINE, C13, SURROG, WAT FLT, REC PERCENT (99959)	CAR-BARYL, WATER, FLTRD, GF 0.7U, REC (UG/L) (49310)	CAR-BARYL, WATER, FLTRD, GF 0.7U, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U, REC (UG/L) (49309)	CARBO-FURAN, WATER, FLTRD, GF 0.7U, REC (UG/L) (82674)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CHLOR-AMBEN, METHYL, ESTER, WATER, FLTRD, REC (UG/L) (61188)	CHLORI-MURON, WATER, FLTRD, REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT, FLT, GF 0.7U, REC (UG/L) (49306)	CHLOR-PYRIFOS, DIS-SOLVED, REC (UG/L) (38933)
CO Ad 19	08-31-01	--	--	--	--	--	<.05	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	<.05	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	<.05	--	--	--	--
	08-31-01	--	--	--	--	--	<.05	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	<.05	--	--	--	--
CO De 15	08-22-01	91	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04	<.005
CO De 16	08-22-01	89	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04	<.005
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	93	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04	<.005
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	<.05	--	--	--	--
		CLOPYR-ALID, WATER, FLTRD, GF 0.7U, REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL-MONO-ACID, WAT, FLT, GF 0.7U, REC (UG/L) (49304)	DCPA, WATER, FLTRD, GF 0.7U, REC (UG/L) (82682)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL-DEISO-PROPYL, ATRAZIN, WATER, DISS, REC (UG/L) (04039)	DEISO-PROPYL, ATRAZIN, WATER, DISS, REC (UG/L) (04038)	DIAZ-INON, D10 SRG, WAT FLT, 0.7 U, GF, REC PERCENT (91063)	DIAZI-NON D10, SUR SCD, 1379, WTR, FLTRD, REC PERCENT (90670)
CO Ad 19	08-31-01	--	<.020	<.05	--	--	<.050	--	<.05	--	92
CO Cc 55	08-16-01	--	<.200	<.05	--	--	.194	--	<.05	--	92
CO Cd 54	08-31-01	--	<.020	<.05	--	--	<.050	--	<.05	--	85
	08-31-01	--	<.020	<.05	--	--	<.050	--	<.05	--	95
CO Dd 76	08-16-01	--	<.200	<.05	--	--	<.050	--	<.05	--	93
CO De 15	08-22-01	<.01	<.018	<.01	<.01	<.003	E.006	<.01	<.04	110	--
CO De 16	08-22-01	<.01	<.018	<.01	<.01	<.003	<.006	<.0016	<.04	112	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.01	<.018	<.01	<.01	<.003	E.043	E.01	E.01	101	--
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	<.020	<.05	--	--	.065	--	<.05	--	90

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DI-AZINON, DIS-SOLVED	DICAMBA WATER, FLTRD, GF 0.7U	DICHLOR PROP, WATER, FLTRD, GF 0.7U	DI-ELDRIN, DIS-SOLVED	DIMETH-ENAMID OXA, WATER, REC	DIMETH-ENAMID, ESA, WAT FLT	DINOSEB WATER, FLTRD, GF 0.7U	DIPHEN-AMID, WATER, DISS, REC	DISUL-FOTON WATER, FLTRD, 0.7 U	DIURON, WATER, FLTRD, GF 0.7U
		(UG/L) (39572)	(UG/L) (38442)	(UG/L) (49302)	(UG/L) (39381)	(UG/L) (62482)	(UG/L) (61951)	(UG/L) (49301)	(UG/L) (04033)	(UG/L) (82677)	(UG/L) (49300)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	<.05	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	<.05	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	<.05	--	--
	08-31-01	--	--	--	--	--	--	--	<.05	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	<.05	--	--
CO De 15	08-22-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
CO De 16	08-22-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021	<.01
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	<.05	--	--
WELL NUMBER	DATE	EPIC WATER, FLTRD, 0.7 U	ETHAL-FLUR-ALIN, WAT FLT	ETHO-PROP WATER, FLTRD, 0.7 U	FEN-URON, WATER, GF 0.7U	FLUFEN-ACET, WAT FLT	FLUFE-NACET OXA, WATER, FLT, REC	FLUMET-SULAM WATER, FLTRD, REC	FLUO-METURON WATER, FLTRD, GF 0.7U	FONOFOS WATER, DISS, REC	HCH ALPHA D6 SRG, WAT FLT, 0.7 U
		(UG/L) (82668)	(UG/L) (82663)	(UG/L) (82672)	(UG/L) (49297)	(UG/L) (61952)	(UG/L) (62483)	(UG/L) (61694)	(UG/L) (38811)	(UG/L) (04095)	(UG/L) (91065)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	112
CO De 16	08-22-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	113
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.002	<.009	<.005	<.03	<.05	<.0500	E.0214	<.03	<.003	88
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	HEXA-ZINONE, WATER, DISS, REC	HYDROXY ATRA-ZINE WATER, FLTRD, REC	IMAZ-AQUIN WATER, FLTRD, REC	IMAZE-THAPYR WATER, FLTRD, REC	IMID-ACLOP-RID WATER, FLTRD, REC	LINDANE DIS-SOLVED	LINURON WATER, FLTRD, GF 0.7U	LIN-URON WATER, FLTRD, 0.7 U	MALA-THION, DIS-SOLVED	MCPA, WATER, FLTRD, GF 0.7U
		(UG/L) (04025)	(UG/L) (50355)	(UG/L) (50356)	(UG/L) (50407)	(UG/L) (61695)	(UG/L) (39341)	(UG/L) (38478)	(UG/L) (82666)	(UG/L) (39532)	(UG/L) (38482)
CO Ad 19	08-31-01	<.05	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	<.05	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	<.05	--	--	--	--	--	--	--	--	--
	08-31-01	<.05	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	<.05	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02
CO De 16	08-22-01	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	--	<.001	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	<.05	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL OXIME WATER FLTRD REC (UG/L) (61696)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL-AZIN-PHOS WAT FLT GF, REC (UG/L) (82686)	METHYL-PARA-THION WAT FLT GF, REC (UG/L) (82667)	METOLA-CHLOR ESA FLTRD GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)
		CO Ad 19	08-31-01	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	<.050
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	<.050
	08-31-01	--	--	--	--	--	--	--	--	--	<.050
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	<.050
CO De 15	08-22-01	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	3.21	.17	<.013
CO De 16	08-22-01	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	5.21	.19	<.013
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	2.87	.41	<.013
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	<.050
		METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER FLTRD REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
CO Ad 19	08-31-01	<.050	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	<.050	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	<.050	--	--	--	--	--	--	--	--	--
	08-31-01	<.050	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	<.050	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01
CO De 16	08-22-01	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013	<.01
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	<.050	--	--	--	--	--	--	--	--	--
		P, P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	<.050	<.05	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	<.050	<.05	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	<.050	<.05	--
	08-31-01	--	--	--	--	--	--	--	<.050	<.05	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	<.050	<.05	--
CO De 15	08-22-01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--	<.004
CO De 16	08-22-01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--	<.004
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--	<.004
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	<.050	<.05	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROP- AZINE WATER FLTRD DISS REC (UG/L) (38535)	PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP- ICONA- ZOLE, WATER FLTRD REC (UG/L) (50471)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)
CO Ad 19	08-31-01	<.050	--	--	<.05	--	--	--	--	<.050	<.05
CO Cc 55	08-16-01	<.050	--	--	<.05	--	--	--	--	<.050	<.05
CO Cd 54	08-31-01	<.050	--	--	<.05	--	--	--	--	<.050	<.05
	08-31-01	<.050	--	--	<.05	--	--	--	--	<.050	<.05
CO Dd 76	08-16-01	<.050	--	--	<.05	--	--	--	--	<.050	<.05
CO De 15	08-22-01	<.010	<.011	<.023	--	<.01	<.021	<.01	<.017	<.011	--
CO De 16	08-22-01	<.010	<.011	<.023	--	<.01	<.021	<.01	<.017	<.011	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.010	<.011	<.023	--	<.01	<.021	<.01	<.017	<.011	--
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	<.050	--	--	<.05	--	--	--	--	<.050	<.05
		SULFO- MET- RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, FLTRD DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN, WATER, FLTRD, DISS, REC (UG/L) (04023)
CO Ad 19	08-31-01	--	--	<.05	--	--	--	--	--	--	<.05
CO Cc 55	08-16-01	--	--	<.05	--	--	--	--	--	--	<.05
CO Cd 54	08-31-01	--	--	<.05	--	--	--	--	--	--	<.05
	08-31-01	--	--	<.05	--	--	--	--	--	--	<.05
CO Dd 76	08-16-01	--	--	<.05	--	--	--	--	--	--	<.05
CO De 15	08-22-01	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02	--
CO De 16	08-22-01	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02	--
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	<.05	--	--	--	--	--	--	<.05
		TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3( 4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1-DI- CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)
CO Ad 19	08-31-01	--	--	<.05	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	<.05	--	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	<.05	--	--	--	--	--	--	--
	08-31-01	--	--	<.05	--	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	<.05	--	--	--	--	--	--	--
CO De 15	08-22-01	<.009	<.0242	--	<.03	<.06	<.04	<.04	<.03	<.2	<.04
CO De 16	08-22-01	<.009	<.0242	--	<.03	<.06	<.04	<.04	<.03	<.2	<.04
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.009	<.0242	--	<.03	<.06	<.04	<.04	<.03	<.2	<.04
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	<.05	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	1,2-DI-CHLORO-ETHANE	1,2-DI-CHLORO-PROPANE	TRANS-1,2-DI-CHLORO-ETHENE	2,2-DI-CHLORO-PROPANE	2BUTENE TRANS-1,4-DI-CHLORO UNFLTRD	2-HEXA-NONE WATER	ACETONE WATER	ACRYLO-NITRILE	1,2,3-TRI-CHLORO-BENZENE	BENZENE 123-TRI-METHYL-WATER UNFLTRD RECOVER
		TOTAL (UG/L) (32103)	TOTAL (UG/L) (34541)	TOTAL (UG/L) (34546)	TOTAL (UG/L) (77170)	TOTAL (UG/L) (73547)	TOTAL (UG/L) (77103)	TOTAL (UG/L) (81552)	TOTAL (UG/L) (34215)	TOTAL (UG/L) (77613)	TOTAL (UG/L) (77221)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--
		BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI-METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI-METHYL UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	<.2	<.06	<.04	<.03	106	<.05	<.03	<.2	<.04	<.03
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.2	<.06	<.04	<.03	94	<.05	<.03	<.2	<.04	<.03
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--
		BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CHLORO-ETHANE		CIS-1,2-DI-CHLORO-ETHENE		CIS-1,3-DI-CHLORO-PROPENE		DIBROMO-CHLORO-PROPANE		DI-BROMO-METHANE		DI-CHLORO-FLUORO-METHANE		DI-ISO-PROPYL-ETHER		ETHANE, 1112-TETRA-CHLORO-WAT UNF REC	
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(34311)	(32106)	(77093)	(34704)	(82625)	(30217)	(32101)	(34668)	(81577)	(77562)						
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CO De 15	08-22-01	<.1	<.02	<.04	<.09	<.5	<.05	<.05	<.3	<.1	<.03						
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08-22-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CO Ec 25	08-27-01	<.1	<.02	<.04	<.09	<.5	<.05	<.05	<.3	<.1	<.03						
	08-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

WELL NUMBER	DATE	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC		ETHANE 12DICL SURROG VOC		ETHANE HEXA-CHLORO-WATER		ETHER ETHYL WATER		ETHER TERT-BUTYL ETHYL		ETHER TERT-PENTYL METHYL		FREON-113 WATER		FURAN, TETRA-HYDRO-WATER		HEXA-CHLORO-BUT-ADIENE	
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(34516)	(99832)	(34396)	(81576)	(50004)	(50005)	(34371)	(77652)	(81607)	(39702)								
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO De 15	08-22-01	<.09	112	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1								
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	08-22-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Ec 25	08-27-01	<.09	99	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1								
	08-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

WELL NUMBER	DATE	ISO-DURENE WATER		METHACRYLATE ETHYL-WATER		METHACRYLATE METHYL WATER		METH-ACRYLO-NITRILE WATER		METHANE BROMO-CHLORO-WAT		METHYL ACRY-LATE WATER		METHYL IODIDE WATER		METHYL TERT-BUTYL ETHER		METHYL-BROMIDE	
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(50000)	(73570)	(81597)	(81593)	(77297)	(49991)	(77424)	(78032)	(34413)	(34418)								
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO De 15	08-22-01	<.2	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2								
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	08-22-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Ec 25	08-27-01	<.2	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2								
	08-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CAROLINE COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METHYL-ENE-CHLORIDE	METHYL-ETHYL-KETONE	METHYL-ISO-BUTYL-KETONE	METHYL-PARA-XYLENE	METHYL-NAPHTH-ALENE	O-CHLORO-TOLUENE	O-XYLENE	P-ISO-PROPYL-TOLUENE	1234-TETRA-METHYL-BENZENE	1,3-DI-CHLORO-PROPANE
		TOTAL (UG/L) (34423)	TOTAL (UG/L) (81595)	TOTAL (UG/L) (78133)	UNFLTRD REC (UG/L) (85795)	TOTAL (UG/L) (34696)	WHOLE TOTAL (UG/L) (77275)	WHOLE TOTAL (UG/L) (77135)	WHOLE REC (UG/L) (77356)	WHOLE REC (UG/L) (49999)	WHOLE REC (UG/L) (77173)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	--
CO De 15	08-22-01	<.2	<2	<.4	<.06	<.5	<.03	<.04	<.07	<.2	<.1
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.2	<2	<.4	<.06	<.5	<.03	<.04	<.07	<.2	<.1
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	PROPENE 3-CHLORO-WATER	TETRA-CHLORO-ETHYL-ENE	TOLUENE D8 SURROG VOC	TOLUENE O-ETHYL	TOLUENE P-CHLOR WATER	TRANS-1,3-DI-CHLORO-PROPENE	TRI-CHLORO-ETHYL-ENE	TRI-CHLORO-FLUORO-METHANE		
		UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	ENE TOTAL (UG/L) (34475)	UNFLTRD REC PERCENT (99833)	UNFLTRD RECOVER (UG/L) (77220)	UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
CO Ad 19	08-31-01	--	--	--	--	--	--	--	--	--	
CO Cc 55	08-16-01	--	--	--	--	--	--	--	--	--	
CO Cd 54	08-31-01	--	--	--	--	--	--	--	--	--	
	08-31-01	--	--	--	--	--	--	--	--	--	
CO Dd 76	08-16-01	--	--	--	--	--	--	--	--	--	
CO De 15	08-22-01	<.1	<.04	<.1	100	<.06	<.06	<.05	<.09	<.04	<.09
CO De 16	08-22-01	--	--	--	--	--	--	--	--	--	--
	08-22-01	--	--	--	--	--	--	--	--	--	--
CO Ec 25	08-27-01	<.1	<.04	<.1	89	<.06	<.06	<.05	<.09	<.04	<.09
	08-27-01	--	--	--	--	--	--	--	--	--	--
CO Fd 39	08-31-01	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	VINYL CHLORIDE	RADON 222	RADON 222 UNFLTRD	RADON 222 SS MDC, WATER, WHOLE,	RN-222 2 SIGMA	URANIUM NATURAL DIS-SOLVED
		TOTAL (UG/L) (39175)	TOTAL (PCI/L) (82303)	(PCI/L) (99327)	(PCI/L) (76002)	(PCI/L) (22703)	AS U (UG/L)
CO Ad 19	08-31-01	--	--	--	--	--	--
CO Cc 55	08-16-01	--	--	--	--	--	--
CO Cd 54	08-31-01	--	--	--	--	--	--
	08-31-01	--	--	--	--	--	--
CO Dd 76	08-16-01	--	--	--	--	--	--
CO De 15	08-22-01	<.1	265	23.0	20	<.02	E.02
CO De 16	08-22-01	--	294	25.0	21	E.02	E.02
	08-22-01	--	--	--	--	--	E.02
CO Ec 25	08-27-01	<.1	461	30.0	27	.02	.02
	08-27-01	--	--	--	--	--	.02
CO Fd 39	08-31-01	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

CARROLL COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (FEET) (72019)			
CL Ae 1	08-22-01	0900	394200076551201	ENVIRONMENTAL	300MRBG	GW	8030	1005	--			
CL Bf 184	07-16-01	1130	393754076512401	ENVIRONMENTAL	300PRTB	GW	4030	785	1.20			
CL Dd 192	09-06-01	1500	392504077002401	ENVIRONMENTAL	370LCRV	GW	8030	660	--			
			DEPTH TO BOT- TOM OF WELL, (FEET) (72008)	DEPTH TO TOP OF INTER- VAL (FT) (72016)	PUMP OR FLOW PERIOD TO SAM- PLING (MIN) (72004)	PH WATER FIELD (STAND- ARD UNITS) (00400)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- PLING CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)		
CL Ae 1	08-22-01	100	100	17	30	3.0	8.7	5.1	120	12.0	30.7	
CL Bf 184	07-16-01	340	340	50	37	30.0	--	6.4	224	12.3	95.1	
CL Dd 192	09-06-01	405	405	124	42	4.8	5.1	6.7	85	14.3	29.1	
			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)	ALKA- LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR- BONATE WATER DIS IT (MG/L AS HCO3) (00453)	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)
CL Ae 1	08-22-01	5.63	4.05	.70	10.9	7	9	26.6	<.2	5.8	1.7	
CL Bf 184	07-16-01	28.7	5.69	.68	4.5	39	47	11.5	<.2	10.5	4.8	
CL Dd 192	09-06-01	8.37	1.98	.25	4.9	25	31	2.7	<.2	14.8	3.2	
			NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	COLOR (PLAT- INUM, COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
CL Ae 1	08-22-01	E.027	<.006	--	2.14	<.060	<.020	<1	70	69.1	<.2	
CL Bf 184	07-16-01	<.040	.008	12.1	12.1	<.060	E.009	<1	170	143	E.2	
CL Dd 192	09-06-01	<.040	<.006	--	E2.33	<.060	E.027	<1	68	51.5	.5	
			BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
CL Ae 1	08-22-01	<.06	<10	E10	.93	5.1	4	<.01	<.04	E.38	139	
CL Bf 184	07-16-01	<.06	30	170	.12	4.7	5	<.01	.11	E.43	30.2	
CL Dd 192	09-06-01	<.06	<10	20	.13	14.6	13	<.01	<.04	<.60	10.1	

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 300MRBG - Marburg Formation  
 300PRTB - Prettyboy Schist  
 370LCRV - Loch Raven Schist

Station Type: GW - Ground Water

Sampling Method: 4030 - Suction pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

CARROLL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ACETO-CHLOR, WATER, FLTRD REC	ALA-CHLOR, WATER, DISS, REC	ALPHA-HCH, D6 SUR SCD 1379 FLTRD PERCENT	AMETRYN WATER, DISS, REC	ATRA-ZINE, WATER, DISS, REC	BRO-MACIL, WATER, DISS, REC	BUTA-CHLOR, WATER, DISS, REC	BUTYL-ATE, WATER, DISS, REC	CAR-BOXIN, WATER, DISS, REC	CYANA-ZINE, WATER, DISS, REC
		(UG/L) (49260)	(UG/L) (46342)	(UG/L) (90505)	(UG/L) (38401)	(UG/L) (39632)	(UG/L) (04029)	(UG/L) (04026)	(UG/L) (04028)	(UG/L) (04027)	(UG/L) (04041)
CL Ae 1	08-22-01	<.050	<.050	88	<.05	<.050	<.05	<.05	<.050	<.05	<.200
CL Bf 184	07-16-01	<.050	<.050	99	<.05	.168	<.05	<.05	<.050	<.05	<.200
CL Dd 192	09-06-01	<.050	<.050	88	<.05	.265	<.05	<.05	<.050	<.05	<.020
		SI-CLOATE, WATER, DISS, REC	DEETHYL-ATRA-ZINE, WATER, DISS, REC	DEISO-PROPYL ATRAZIN WATER, DISS, REC	DIAZI-NON D10 SUR SCD 1379 WTR, FLTRD PERCENT	DIPHEN-AMID, WATER, DISS, REC	HEXA-ZINONE, WATER, DISS, REC	METO-LACHLOR WATER DISSOLV	METRI-BUZIN SENCOR WATER DISSOLV	PRO-METON, WATER, DISS, REC	PRO-METRYN, WATER, DISS, REC
		(UG/L) (04031)	(UG/L) (04040)	(UG/L) (04038)	(UG/L) (90670)	(UG/L) (04033)	(UG/L) (04025)	(UG/L) (39415)	(UG/L) (82630)	(UG/L) (04037)	(UG/L) (04036)
CL Ae 1	08-22-01	<.05	.153	<.05	91	<.05	<.05	<.050	<.050	<.050	<.05
CL Bf 184	07-16-01	<.05	.350	E.04	92	<.05	<.05	.136	<.050	<.050	<.05
CL Dd 192	09-06-01	<.05	<.050	<.05	94	<.05	<.05	<.050	<.050	<.050	<.05
		PROPA-CHLOR, WATER, DISS, REC	PROP-AZINE WATER, DISS, REC	SI-MAZINE, WATER, DISS, REC	SIMA-TRYN, WATER, DISS, REC	TER-BACIL, WATER, DISS, REC	TRI-FLUR-ALIN, WATER, DISS, REC	VERNO-LATE, WATER, DISS, REC	XYLENE UNFLTRD REC	BENZENE 14BRFL-SURROG VOC UNFLTRD REC	BENZENE TOTAL (UG/L)
		(UG/L) (04024)	(UG/L) (38535)	(UG/L) (04035)	(UG/L) (04030)	(UG/L) (04032)	(UG/L) (04023)	(UG/L) (04034)	(UG/L) (81551)	PERCENT (99834)	(UG/L) (34030)
CL Ae 1	08-22-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	<.2	85	<.20
CL Bf 184	07-16-01	<.050	E.01	<.050	<.05	<.05	<.05	<.05	<.2	84	<.20
CL Dd 192	09-06-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	<.2	96	<.20
		ETHANE 12DICL SURROG VOC UNFLTRD REC	ETHYL-BENZENE TOTAL	METHYL-TERT-BUTYL ETHER WAT UNF REC	META/PARA-XYLENE WATER UNFLTRD REC	O-XYLENE WATER WHOLE TOTAL	TOLUENE D8 SURROG VOC UNFLTRD REC	TOLUENE AS TOTAL	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230	ALPHA RADIO. DISS AS TH-230	BETA, 2 SIGMA WATER, DISS, AS CS-137
		(99832)	(34371)	(78032)	(85795)	(77135)	(99833)	(34010)	(UG/L) (75987)	(PCI/L) (04126)	(PCI/L) (75989)
CL Ae 1	08-22-01	111	<.20	.5	<.20	<.20	100	<.20	.76	1.05	.83
CL Bf 184	07-16-01	115	<.20	<.2	<.20	<.20	96	<.20	.72	.91	1.1
CL Dd 192	09-06-01	96	<.20	<.2	<.20	<.20	93	<.20	.83	1.53	.89
		GROSS ALPHA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L)	DATE	GROSS ALPHA, BETA, DIS-SOLVED (PCI/L) CS-137	GROSS BETA, DIS-SOLVED (PCI/L) AS (03515)	GROSS BETA, 2X CL, WATER, FLTRD, (PCI/L)	RADON 222 TOTAL (PCI/L)	RADON 222 UNFLTRD (PCI/L)	RADON 222, RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)		
		(99337)		(99337)	(03515)	(99323)	(82303)	(99327)	(76002)		
CL Ae 1	08-22-01			.98000	1.69	1.400	7360	24.0	75		
CL Bf 184	07-16-01			1.030	2.47	1.930	--	--	--		
CL Dd 192	09-06-01			1.160	1.61	1.430	2520	22.0	45		

E Estimated value.  
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QUALITY OF GROUND WATER DATA

CECIL COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
CE Aa 41	06-21-01	1100	394248076112201	ENVIRONMENTAL	300UMFC	GW	8030	350	150
CE Cc 40	06-14-01	1000	393459076045001	ENVIRONMENTAL	300JMSR	SP	4010	180	--
CE Ce 60	09-07-01	1000	393011075532101	ENVIRONMENTAL	217PTMC	GW	8030	70	112
CE Ce 86	07-19-01	1100	393252075530801	ENVIRONMENTAL	112CLMB	GW	4040	80	85
CE Cf 81	07-09-01	0925	393341075482101	BLANK	--	--	--	--	--
CE Cf 81	07-09-01	0930	393341075482101	ENVIRONMENTAL	122PNSK	GW	8030	80	36

DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
150	68	20	4.0	--	6.3	235	--
--	--	--	1.1	--	5.1	647	--
112	107	35	8.0	--	4.7	355	--
85	70	60	.50	766	65.4	22	24.0
--	--	--	--	--	--	--	--
36	--	25	3.0	--	.7	46	--

TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL AS (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED AS (MG/L CA) (00915)	MAGNE-SIUM DIS-SOLVED AS (MG/L MG) (00925)	POTAS-SIUM DIS-SOLVED AS (MG/L K) (00935)	SODIUM, DIS-SOLVED AS (MG/L NA) (00930)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED AS (MG/L CL) (00940)	FLUO-RIDE, DIS-SOLVED AS (MG/L F) (00950)
14.7	111	2.57	25.3	1.05	2.7	75	91	7.2	E.1
12.5	167	34.6	19.6	1.88	44.8	10	12	181	<.2
17.7	61.2	12.2	7.47	1.72	42.7	6	7	85.9	--
19.0	6.66	1.31	.815	.72	4.3	2	2	6.2	<.2
--	--	.02	E.005	<.09	<.1	--	--	<.1	--
17.3	--	E.01	<.008	<.09	12.0	21	26	1.8	--

BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED AS (MG/L SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED AS (MG/L N) (00608)	NITRO-GEN, AM-MONIA + ORG-ANIC DIS-SOLVED AS (MG/L N) (00623)	NITRO-GEN, NITR-ITE DIS-SOLVED AS (MG/L N) (00613)	NITRO-GEN, NITR-ATE DIS-SOLVED AS (MG/L N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED AS (MG/L N) (00631)	PHOS-PHORUS DIS-SOLVED AS (MG/L P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED AS (MG/L P) (00671)
--	27.1	17.2	<.040	--	<.006	--	3.54	<.060	.024
--	23.1	1.7	<.040	--	<.006	--	1.13	<.060	<.020
--	--	30.2	<.040	--	<.006	--	1.49	<.060	<.020
.02	8.1	.4	<.040	<.10	.009	1.54	1.55	--	<.020
--	--	<.1	<.040	--	.011	--	E.043	<.060	<.020
--	--	2.5	E.029	--	<.006	--	<.050	<.060	<.020

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Geologic Unit (aquifer): 112CLMB - Columbia Formation  
 122PNSK - Pensauken Formation  
 217PTMC - Potomac Group  
 300JMSR - James Run Formation  
 300UMFC - Ultramafic Rocks

Station Type: GW - Ground Water  
 SP - Spring

Sampling Method: 4010 - Thief sample  
 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

CECIL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHOS- PHATE, ORTHO, DIS- SOLVED	TOTAL COLI- FORM, M ENDO MF, WTR	E COLI, NA-MUG, WATER	SOLIDS, RESIDUE AT 180 DEG. C SOLVED	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED	ALUM- INUM, DIS- SOLVED	ANTI- MONY, DIS- SOLVED	ARSENIC DIS- SOLVED	BARIUM, DIS- SOLVED	BERYL- LIUM, DIS- SOLVED
		(MG/L AS PO4) (00660)	(COL/ 100 ML) (31501)	(COL/ 100 ML) (50278)	(MG/L) (70300)	(MG/L) (70301)	(UG/L AS AL) (01106)	(UG/L AS SB) (01095)	(UG/L AS AS) (01000)	(UG/L AS BA) (01005)	(UG/L AS BE) (01010)
CE Aa 41	06-21-01	.074	--	--	160	144	--	--	3.5	--	<.06
CE Cc 40	06-14-01	--	--	--	410	318	--	--	<.2	--	E.06
CE Ce 60	09-07-01	--	--	--	198	191	--	--	--	--	--
CE Ce 86	07-19-01	--	<1	<1	37	29.9	6	E.03	<.2	20.9	.09
CE Cf 81	07-09-01	--	--	--	<10	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	44	--	--	--	--	--	--
		BORON, DIS- SOLVED	CADMIUM DIS- SOLVED	CHRO- MIUM, DIS- SOLVED	COBALT, DIS- SOLVED	COPPER, DIS- SOLVED	IRON, DIS- SOLVED	IRON, TOTAL RECOV- ERABLE	LEAD, DIS- SOLVED	LITHIUM DIS- SOLVED	MANGA- NESE, DIS- SOLVED
		(UG/L AS B) (01020)	(UG/L AS CD) (01025)	(UG/L AS CR) (01030)	(UG/L AS CO) (01035)	(UG/L AS CU) (01040)	(UG/L AS FE) (01046)	(UG/L AS FE) (01045)	(UG/L AS PB) (01049)	(UG/L AS LI) (01130)	(UG/L AS MN) (01056)
CE Aa 41	06-21-01	--	--	--	--	--	<10	<10	.15	--	<3.0
CE Cc 40	06-14-01	--	--	--	--	--	10	100	.62	--	32.6
CE Ce 60	09-07-01	--	--	--	--	--	180	--	--	--	207
CE Ce 86	07-19-01	E6	E.03	<.8	2.58	99.6	<10	--	5.14	1.4	10.3
CE Cf 81	07-09-01	--	--	--	--	--	<10	--	--	--	<3.0
CE Cf 81	07-09-01	--	--	--	--	--	M	--	--	--	<3.0
		MANGA- NESE, TOTAL RECOV- ERABLE	MERCURY DIS- SOLVED	MOLYB- DENUM, DIS- SOLVED	NICKEL, DIS- SOLVED	SELE- NIUM, DIS- SOLVED	SILVER, DIS- SOLVED	STRON- TIUM, DIS- SOLVED	THAL- LIUM, DIS- SOLVED	VANA- DIUM, DIS- SOLVED	ZINC, DIS- SOLVED
		(UG/L AS MN) (01055)	(UG/L AS HG) (71890)	(UG/L AS MO) (01060)	(UG/L AS NI) (01065)	(UG/L AS SE) (01145)	(UG/L AS AG) (01075)	(UG/L AS SR) (01080)	(UG/L AS TL) (01057)	(UG/L AS V) (01085)	(UG/L AS ZN) (01090)
CE Aa 41	06-21-01	<3	<.01	--	--	--	--	--	.06	--	--
CE Cc 40	06-14-01	32	<.01	--	--	--	--	--	.09	--	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	--	--	<.2	4.38	<.3	<1.0	11.7	<.04	<.2	17
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
		CARBON, ORGANIC DIS- SOLVED	CARBON, TOTAL AS C)	CARBON DIOXIDE DIS- SOLVED	2,4,5-T SURROG WATER FLTRD REC	2,4-D METHYL ESTER, WATER FLTRD REC	2,4-D, DIS- SOLVED	2,4-DB WATER, FLTRD, GF 0.7U REC	2,6-DI- ETHYL ANILINE WAT FLT GF, REC	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC	3-KETO CARBO- FURAN WATER FLTRD REC
		(MG/L AS C) (00681)	(MG/L AS C) (00680)	(MG/L AS CO2) (00405)	PERCENT (99958)	(UG/L) (50470)	(UG/L) (39732)	(UG/L) (38746)	(UG/L) (82660)	(UG/L) (49308)	(UG/L) (50295)
CE Aa 41	06-21-01	--	1.2	74.0	--	--	--	--	--	--	--
CE Cc 40	06-14-01	--	E.56	167	--	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	160	--	--	--	--	--	--	--
CE Ce 86	07-19-01	.64	--	--	89	<.009	<.02	<.02	<.002	<.01	<1.50
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	69.3	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

## QUALITY OF GROUND WATER DATA

## CECIL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ACETO-CHLOR WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD GF 0.7U (UG/L) (49315)	ALA- CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA- CHLOR (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ALDI- CARB SULFONE WAT,FLT DISS, REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI- CARB, WATER, FLTRD GF 0.7U REC (UG/L) (49312)
CE Aa 41	06-21-01	--	--	<.050	--	--	--	<.050	--	--	--
CE Cc 40	06-14-01	--	--	<.050	--	--	--	<.050	--	--	--
CE Ce 60	09-07-01	--	--	<.050	--	--	--	<.050	--	--	--
CE Ce 86	07-19-01	<.05	<.05	<.004	<.01	<.05	<.050	<.002	<.02	<.01	<.04
CE Cf 81	07-09-01	--	--	<.050	--	--	--	<.050	--	--	--
CE Cf 81	07-09-01	--	--	<.050	--	--	--	<.050	--	--	--
		ALPHA- HCH, D6 SUR SCD ALPHA BHC DIS- SOLVED (UG/L) (34253)	ALPHA- HCH, D6 1379 WTR, FLTRD, PERCENT (90505)	AMETRYN WATER, DISS, REC (UG/L) (38401)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN SURROG- ATE WTR FLT SCD WATER FLTRD 9060 RE PERCENT (90640)	BENDIO- CARB, ALIN WATER WAT FLD REC (UG/L) (50299)	BEN- FLUR- ALIN WAT FLD GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD REC (UG/L) (50300)	BEN- SUL- FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA- ZON, WATER, FLTRD GF 0.7U REC (UG/L) (38711)
CE Aa 41	06-21-01	--	96	<.05	E.019	--	--	--	--	--	--
CE Cc 40	06-14-01	--	92	<.05	<.050	--	--	--	--	--	--
CE Ce 60	09-07-01	--	77	<.05	<.050	--	--	--	--	--	--
CE Ce 86	07-19-01	<.005	--	--	.016	E91	<.025	<.010	<.004	<.0158	<.01
CE Cf 81	07-09-01	--	90	<.05	<.050	--	--	--	--	--	--
CE Cf 81	07-09-01	--	94	<.05	<.050	--	--	--	--	--	--
		BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTA- CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAF- FEINE, WATER FLTRD REC (UG/L) (50305)	CAF- FEINE- CL3 SURROG, WAT FLT REC PERCENT (99959)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR- BARYL WATER FLTRD GF, REC (UG/L) (82680)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
CE Aa 41	06-21-01	<.05	--	<.05	<.050	--	--	--	--	--	--
CE Cc 40	06-14-01	<.05	--	<.05	<.050	--	--	--	--	--	--
CE Ce 60	09-07-01	<.05	--	<.05	<.050	--	--	--	--	--	--
CE Ce 86	07-19-01	<.03	<.02	--	<.002	<.010	E155	<.03	<.041	<.01	<.020
CE Cf 81	07-09-01	<.05	--	<.05	<.050	--	--	--	--	--	--
CE Cf 81	07-09-01	<.05	--	<.05	<.050	--	--	--	--	--	--
		CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)	CHLOR- AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI- MURON, WATER FLTRD REC (UG/L) (50306)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
CE Aa 41	06-21-01	<.05	--	--	--	--	--	<.200	<.05	--	--
CE Cc 40	06-14-01	<.05	--	--	--	--	--	<.200	<.05	--	--
CE Ce 60	09-07-01	<.05	--	--	--	--	--	<.020	<.05	--	--
CE Ce 86	07-19-01	--	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003
CE Cf 81	07-09-01	<.05	--	--	--	--	--	<.200	<.05	--	--
CE Cf 81	07-09-01	<.05	--	--	--	--	--	<.200	<.05	--	--
		DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04039)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DIMETH- ENAMID OXA, WATER FLT, REC (UG/L) (62482)
CE Aa 41	06-21-01	.133	--	<.05	--	92	--	--	--	--	--
CE Cc 40	06-14-01	<.050	--	<.05	--	91	--	--	--	--	--
CE Ce 60	09-07-01	<.050	--	<.05	--	84	--	--	--	--	--
CE Ce 86	07-19-01	E.003	M	E.01	99	--	<.005	<.01	<.01	<.005	<.0500
CE Cf 81	07-09-01	<.050	--	<.05	--	84	--	--	--	--	--
CE Cf 81	07-09-01	<.050	--	<.05	--	90	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

## QUALITY OF GROUND WATER DATA

## CECIL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIMETH-ENAMID, ESA,	DINOSEB WATER, FLTRD, GF 0.7U	DIPHEN-AMID, WATER, DISS,	DISUL-FOTON WATER, FLTRD, 0.7 U	DIURON, WATER, FLTRD, GF 0.7U	EPTC WATER, FLTRD, 0.7 U	ETHAL-FLUR-ALIN, WAT FLT	ETHO-PROP WATER, FLTRD, 0.7 U	FEN-URON, WATER, FLTRD, GF 0.7U	FLUFEN-ACET, ESA,
		WAT FLT (UG/L) (61951)	REC (UG/L) (49301)	REC (UG/L) (04033)	GF, REC (UG/L) (82677)	REC (UG/L) (49300)	GF, REC (UG/L) (82668)	GF, REC (UG/L) (82663)	GF, REC (UG/L) (82672)	REC (UG/L) (49297)	WAT FLT (UG/L) (61952)
CE Aa 41	06-21-01	--	--	<.05	--	--	--	--	--	--	--
CE Cc 40	06-14-01	--	--	<.05	--	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	<.05	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.05	<.01	<.03	<.021	<.0007	<.002	<.009	<.005	<.0008	<.05
CE Cf 81	07-09-01	--	--	<.05	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	<.05	--	--	--	--	--	--	--
		FLUFE-NACET OXA WATER, FLTRD, REC (UG/L) (62483)	FLUMET-SULAM WATER, FLTRD, REC (UG/L) (61694)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER, DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT WATER, DISS, REC (UG/L) (91065)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	HYDROXY ATRA-ZINE WATER, FLTRD, REC (UG/L) (50355)	IMAZ-AQUIN WATER, FLTRD, REC (UG/L) (50356)	IMAZE-THAPYR WATER, FLTRD, REC (UG/L) (50407)	IMID-ACLOP-RID WATER, FLTRD, REC (UG/L) (61695)
CE Aa 41	06-21-01	--	--	--	--	--	<.05	--	--	--	--
CE Cc 40	06-14-01	--	--	--	--	--	<.05	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	--	<.05	--	--	--	--
CE Ce 86	07-19-01	<.0500	<.0110	<.03	<.003	100	--	<.001	<.016	<.017	<.0068
CE Cf 81	07-09-01	--	--	--	--	--	<.05	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	<.05	--	--	--	--
		LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER, FLTRD, 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL-AXYL WATER, FLTRD, REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL WATER, FLTRD, REC (UG/L) (61696)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)
CE Aa 41	06-21-01	--	--	--	--	--	--	--	--	--	--
CE Cc 40	06-14-01	--	--	--	--	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.004	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
		METHYL-AZIN-PHOS WAT FLT (UG/L) (82686)	METHYL-PARA-THION WAT FLT (UG/L) (82667)	METOLA-CHLOR ESA FLTRD (UG/L) (61043)	METOLA-CHLOR OA FLTRD (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT (UG/L) (61697)	MOL-INATE WATER FLTRD (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)
CE Aa 41	06-21-01	--	--	--	--	<.050	<.050	--	--	--	--
CE Cc 40	06-14-01	--	--	--	--	<.050	<.050	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	<.050	<.050	--	--	--	--
CE Ce 86	07-19-01	<.050	<.006	.06	<.05	<.013	<.006	<.0250	<.002	<.007	<.01
CE Cf 81	07-09-01	--	--	--	--	E.002	<.050	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	<.050	<.050	--	--	--	--
		NICOSUL-FURON WATER, FLTRD, REC (UG/L) (50364)	NORFLURAZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER, FLTRD, REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P, P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER, FILTRD (UG/L) (82669)	PENDI-METH-ALIN WAT FLT (UG/L) (82683)	PER-METH-CIS WAT FLT (UG/L) (82687)
CE Aa 41	06-21-01	--	--	--	--	--	--	--	--	--	--
CE Cc 40	06-14-01	--	--	--	--	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.013	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CECIL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (82664)	PIC-LORAM WATER FLTRD 0.7U GF REC (49291)	PRO-METON, WATER, DISS, REC (04037)	PRO-METRYN, WATER, DISS, REC (04036)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (82676)	PROPA-CHLOR, WATER, DISS, REC (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (82685)	PROP-AZINE WATER DISS REC (38535)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (49236)
CE Aa 41	06-21-01	--	--	<.050	<.05	--	<.050	--	--	<.05	--
CE Cc 40	06-14-01	--	--	<.050	<.05	--	<.050	--	--	<.05	--
CE Ce 60	09-07-01	--	--	<.050	<.05	--	<.050	--	--	<.05	--
CE Ce 86	07-19-01	<.011	<.02	<.015	--	<.004	<.010	<.011	<.023	--	<.01
CE Cf 81	07-09-01	--	--	<.050	<.05	--	<.050	--	--	<.05	--
CE Cf 81	07-09-01	--	--	<.050	<.05	--	<.050	--	--	<.05	--
		PROP-ICONA-ZOLE, WATER FLTRD REC (50471)	PRO-POXUR, WATER, FLTRD GF 0.7U REC (38538)	SIDURON WATER FLTRD REC (38548)	SI-MAZINE, WATER, DISS, REC (04035)	SIMA-TRYN, WATER, DISS, REC (04030)	SULFO-MET-RURON METHYL WTR FLT REC (50337)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (82670)	TER-BACIL, WATER, DISS, REC (04032)	TER-BACIL WATER FLTRD 0.7 U GF, REC (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (82675)
CE Aa 41	06-21-01	--	--	--	<.050	<.05	--	--	<.05	--	--
CE Cc 40	06-14-01	--	--	--	<.050	<.05	--	--	<.05	--	--
CE Ce 60	09-07-01	--	--	--	<.050	<.05	--	--	<.05	--	--
CE Ce 86	07-19-01	<.002	<.01	<.017	<.011	--	<.009	<.016	<.01	<.034	<.017
CE Cf 81	07-09-01	--	--	--	<.050	<.05	--	--	<.05	--	--
CE Cf 81	07-09-01	--	--	--	<.050	<.05	--	--	<.05	--	--
		THIO-BENCARB WATER FLTRD 0.7 U GF, REC (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (82678)	TRI-BENURON METHYL WATER FLTRD (61159)	TRI-CLOPYR, WATER, GF 0.7U REC (49235)	TRI-FLUR-ALIN, WATER, DISS, REC (04023)	TRI-FLUR-ALIN, WATER, WAT FLT REC (82661)	UREA 3(4-CHLOR OPHENYL LATE, WATER, DISS, REC (04034)	VERNO-LATE, WATER, DISS, REC (81551)	XYLENE WATER UNFLTRD REC (34506)	1,1,1-TRI-CHLORO-ETHANE TOTAL (34506)
CE Aa 41	06-21-01	--	--	--	--	<.05	--	--	<.05	<.2	--
CE Cc 40	06-14-01	--	--	--	--	<.05	--	--	<.05	<.2	--
CE Ce 60	09-07-01	--	--	--	--	<.05	--	--	<.05	--	--
CE Ce 86	07-19-01	<.005	<.002	<.01	<.02	--	<.009	<.0242	--	--	<.03
CE Cf 81	07-09-01	--	--	--	--	<.05	--	--	<.05	--	--
CE Cf 81	07-09-01	--	--	--	--	<.05	--	--	<.05	--	--
		1,1,2-TRI-CHLORO-ETHANE TOTAL (34511)	1,1-DI-CHLORO-ETHANE TOTAL (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (34501)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (77168)	123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (77443)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (77651)	1,2-DI-CHLORO-ETHANE PROPANE TOTAL (32103)	1,2-DI-CHLORO-PROPANE TOTAL (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (34546)	2,2-DI-CHLORO-PROPANE WAT, WH TOTAL (77170)
CE Aa 41	06-21-01	--	--	--	--	--	--	--	--	--	--
CE Cc 40	06-14-01	--	--	--	--	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.06	<.04	<.04	<.03	<.2	<.1	<.1	<.03	<.03	<.05
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
		2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD RECOVER (73547)	2-HEXA-NONE WATER WHOLE TOTAL (77103)	ACETONE WATER WHOLE TOTAL (81552)	ACRYLO-NITRILE TOTAL (34215)	1,2,3-TRI-CHLORO-BENZENE WAT, WH REC (77613)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (77221)	BENZENE 1,2,4-TRI-METHYL-CHLORO-WAT UNF REC (34551)	BENZENE 124-TRI METHYL UNFLTRD RECOVER (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (34566)
CE Aa 41	06-21-01	--	--	--	--	--	--	--	--	--	--
CE Cc 40	06-14-01	--	--	--	--	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.7	<.7	<.7	<.1	<.3	<.1	<.2	<.06	<.04	<.03
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CECIL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BENZENE	BENZENE	ISO-	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BROMO-	
		14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	N-PROPY WATER UNFLTRD REC (UG/L) (77224)	O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	TOTAL (UG/L) (34030)	WHOLE, TOTAL (UG/L) (81555)	
CE Aa 41	06-21-01	71	--	--	--	--	--	--	--	--	<.20	--
CE Cc 40	06-14-01	68	--	--	--	--	--	--	--	--	<.20	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	124	<.05	<.03	<.2	<.04	<.03	<.03	<.06	<.04	<.04	<.04
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	--
		BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLORIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	
CE Aa 41	06-21-01	--	--	--	--	--	--	--	--	--	--	
CE Cc 40	06-14-01	--	--	--	--	--	--	--	--	--	--	
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--	
CE Ce 86	07-19-01	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.89	<.04	<.09	
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
		DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHANE HEXA-CHLORO-WATER RECOVER (UG/L) (34396)	ETHER ETHYL WATER RECOVER (UG/L) (81576)	
CE Aa 41	06-21-01	--	--	--	--	--	--	--	102	--	--	
CE Cc 40	06-14-01	--	--	--	--	--	--	--	147	--	--	
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--	
CE Ce 86	07-19-01	<.2	<.05	<.05	<.3	<.1	<.03	<.09	118	<.2	<.2	
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
		ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC-RYLATE ETHYL-WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC-RYLATE METHYL WATER RECOVER (UG/L) (81597)	METH-ACRYLO-NITRILE WATER RECOVER (UG/L) (81593)	
CE Aa 41	06-21-01	--	--	<.20	--	--	--	--	--	--	--	
CE Cc 40	06-14-01	--	--	<.20	--	--	--	--	--	--	--	
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--	
CE Ce 86	07-19-01	<.05	<.1	<.03	<.06	<.2	<.1	<.2	<.2	<.3	<.6	
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--	

< Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

CECIL COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY-LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL-ISO-BUTYL KETONE WAT. WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
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CE Aa 41	06-21-01	--	--	--	<.2	--	--	--	--	--	<.20
CE Cc 40	06-14-01	--	--	--	E.1	--	--	--	--	--	<.20
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.04	<1	<.1	<.2	<.3	<.2	<.2	<2	<.4	<.06
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--

NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	1234-TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3-CHLORO-WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ENE TOTAL (UG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)
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CE Aa 41	06-21-01	--	--	<.20	--	--	--	--	--	--	97
CE Cc 40	06-14-01	--	--	<.20	--	--	--	--	--	--	102
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.2	<.03	<.04	<.07	<.2	<.1	<.1	<.04	<.1	108
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--	--

TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	RADON 222 (PCI/L) (82303)	RADON 222, 2X CL, SS MDC, WATER, WHOLE, UNFLTRD TOTAL (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
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CE Aa 41	06-21-01	--	--	<.20	--	--	--	229	27.0	21
CE Cc 40	06-14-01	--	--	<.20	--	--	--	--	--	--
CE Ce 60	09-07-01	--	--	--	--	--	--	--	--	--
CE Ce 86	07-19-01	<.06	<.06	<.05	<.09	<.04	<.09	<.1	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--
CE Cf 81	07-09-01	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
CE Aa 41	06-21-01	--
CE Cc 40	06-14-01	--
CE Ce 60	09-07-01	--
CE Ce 86	07-19-01	E.01
CE Cf 81	07-09-01	--
CE Cf 81	07-09-01	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

CHARLES COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	STATION TYPE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	DEPTH OF WELL, TOTAL (FEET)
								(72000)	(72008)
CH De 47	09-26-01	1030	382845076594901	ENVIRONMENTAL	125AQUI	GW	8030	140	360
CH De 48	09-26-01	1130	382547076581101	ENVIRONMENTAL	125AQUI	GW	8030	150	406
CH Ee 93	09-26-01	1230	382153076564201	ENVIRONMENTAL	125AQUI	GW	8030	120	399
CH Ff 63	09-26-01	1300	381836076534101	ENVIRONMENTAL	125AQUI	GW	8030	10	310

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	STATION TYPE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
										CH De 47	09-26-01	1030	382845076594901	ENVIRONMENTAL	125AQUI	GW	8030	140
CH De 48	09-26-01	1130	382547076581101	ENVIRONMENTAL	125AQUI	GW	8030	150	406	386	15	4.0	.2	8.8	313	16.9	.3	
CH Ee 93	09-26-01	1230	382153076564201	ENVIRONMENTAL	125AQUI	GW	8030	120	399	378	15	4.2	.2	8.8	302	17.9	.9	
CH Ff 63	09-26-01	1300	381836076534101	ENVIRONMENTAL	125AQUI	GW	8030	10	310	300	16	8.0	.2	9.1	333	17.7	6.4	

< Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 125AQUI - Aquia Formation

Station Type: GW - Ground Water

Sampling Method: 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

DORCHESTER COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)			
DO Ah 12	09-11-01	1230	384002075475701	ENVIRONMENTAL	112CLMB	GW	8030	30	--			
DO Bg 74	09-11-01	1700	383608075501801	ENVIRONMENTAL	112CLMB	GW	8030	30	--			
DO Cb 8	08-07-01	1030	383328076153602	ENVIRONMENTAL	112CLMB	GW	4040	5	4.10			
	08-07-01	1035		REPLICATE	112CLMB	GW	4040	5	--			
DO Ci 8	09-11-01	1500	383403075431701	ENVIRONMENTAL	112CLMB	GW	8030	20	--			
			DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW TO SAM-PLING RATE (MIN) (G/M) (00059)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT OF SATUR-ATION) (MG/L) (00301)	PH WATER WHOLE FIELD (STAND-ARDS) (US/CM) (00400)	SPE-CIFIC CON-DUCT-ANCE (00095)		
DO Ah 12	09-11-01	58	58	53	20	E2.0	--	2.8	4.2	177		
DO Bg 74	09-11-01	75	75	45	--	120	--	--	5.0	201		
DO Cb 8	08-07-01	15	15	12	45	.48	767	.3	5.6	1370		
	08-07-01	15	--	--	--	--	--	--	--	--		
DO Ci 8	09-11-01	90.00	90	80	28	8.0	--	6.3	5.2	64		
			TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS-TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
DO Ah 12	09-11-01	--	16.3	48.2	10.7	5.24	3.04	5.2	<1	<1	13.2	
DO Bg 74	09-11-01	--	--	59.5	12.2	7.06	3.94	7.0	1	1	21.4	
DO Cb 8	08-07-01	32.0	18.5	71.7	5.89	13.8	2.02	201	40	49	229	
	08-07-01	--	--	--	--	--	--	--	--	--	--	
DO Ci 8	09-11-01	--	17.1	8.78	1.89	.988	2.16	7.5	3	4	6.6	
			FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + DIS-SOLVED (MG/L AS N) (00623)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DO Ah 12	09-11-01	--	--	--	36.8	<.040	--	<.006	--	4.54	<.060	
DO Bg 74	09-11-01	--	--	--	E.1	<.040	--	<.006	--	14.0	<.060	
DO Cb 8	08-07-01	.2	1.14	65.6	180	.482	.67	<.006	.186	E.031	--	
	08-07-01	--	--	--	--	--	--	--	--	--	--	
DO Ci 8	09-11-01	--	--	--	1.2	<.040	--	<.006	--	4.73	<.060	
			PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
DO Ah 12	09-11-01	<.020	--	103	--	--	--	--	--	--	--	
DO Bg 74	09-11-01	<.020	--	130	--	--	--	--	--	--	--	
DO Cb 8	08-07-01	.029	.089	752	743	6	<.05	17.4	22.5	E.05	43	
	08-07-01	--	--	--	--	--	--	--	--	--	--	
DO Ci 8	09-11-01	<.020	--	53	43.1	--	--	--	--	--	--	

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

Geologic Unit (aquifer): 112CLMB - Columbia Formation

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

DORCHESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
DO Ah 12	09-11-01	--	--	--	--	990	--	--	93.2	--	--
DO Bg 74	09-11-01	--	--	--	--	<10	--	--	18.0	--	--
DO Cb 8	08-07-01	<.04	E.7	9.69	1.6	19600	.13	42.6	274	<.2	13.0
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
	09-11-01	--	--	--	--	<10	--	--	12.9	--	--
		SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC, DIS-SOLVED (MG/L AS C) (00681)	CARBON DIOXIDE, DIS-SOLVED (MG/L AS CO2) (00405)	2,4,5-T SURROG WATER FLTRD REC (99958)	2,4-D METHYL ESTER, WATER FLTRD REC (50470)
DO Ah 12	09-11-01	--	--	--	--	--	--	--	--	--	--
DO Bg 74	09-11-01	--	--	--	--	--	--	--	67.2	--	--
DO Cb 8	08-07-01	<.3	<1.0	64.9	<.04	<.2	16	8.2	--	86	<.009
DO Ci 8	08-07-01	--	--	--	--	--	--	7.8	--	--	--
	09-11-01	--	--	--	--	--	--	--	44.8	--	--
		2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U (UG/L) (38746)	2,6-DIETHYL ANILINE, WAT FLT GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN, WAT,FLT GF 0.7U (UG/L) (49308)	3-KETO CARBO-FURAN, WAT, FLTREC (UG/L) (50295)	ACETO-CHLOR ESA, FLTRD GF REC (UG/L) (61029)	ACETO-CHLOR OA, FLTRD GF REC (UG/L) (61030)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ACIFLUORFEN, WATER, FLTRD, GF 0.7U (UG/L) (49315)	ALA-CHLOR OA, FLTRD GF REC (UG/L) (61031)
DO Ah 12	09-11-01	--	--	--	--	--	--	--	<.050	--	--
DO Bg 74	09-11-01	--	--	--	--	--	--	--	<.050	--	--
DO Cb 8	08-07-01	<.02	<.02	E.001	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
	09-11-01	--	--	--	--	--	--	--	<.050	--	--
		ALA-CHLOR, (ESA) WAT FLT REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALDI-CARB SULFONE, WAT,FLT GF 0.7U (UG/L) (49313)	ALDICA-RB SULFOXIDE, WAT,FLT GF 0.7U (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)	ALPHA BHC, DIS-SOLVED (UG/L) (34253)	ALPHA-HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (UG/L) (90505)	AMETRYN, WATER, DISS, REC (UG/L) (38401)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN SURROG-ATE WTR FLT SCD 2060, 9060 RE PERCENT (90640)
DO Ah 12	09-11-01	--	<.050	--	--	--	--	85	<.05	<.050	--
DO Bg 74	09-11-01	--	<.050	--	--	--	--	85	<.05	<.050	--
DO Cb 8	08-07-01	.600	<.002	<.02	<.01	<.04	<.005	--	--	<.007	E232
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
	09-11-01	--	<.050	--	--	--	--	81	<.05	<.050	--
		BENDIO-CARB, WATER FLTRD REC (UG/L) (50299)	BEN-FLURALIN, WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL, WATER FLTRD REC (UG/L) (50300)	BEN-SUL-FURON METHYL, WAT FLT REC (UG/L) (61693)	BENTIA-ZON, WATER, FLTRD, GF 0.7U (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL, WATER, FLTRD, GF 0.7U (UG/L) (49311)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)
DO Ah 12	09-11-01	--	--	--	--	--	<.05	--	<.05	<.050	--
DO Bg 74	09-11-01	--	--	--	--	--	<.05	--	<.05	<.050	--
DO Cb 8	08-07-01	<.025	<.010	<.004	<.0158	<.01	E.12	<.02	--	<.002	<.010
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
	09-11-01	--	--	--	--	--	<.05	--	<.05	<.050	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

DORCHESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CAF-FEINE-C13 SURROG WAT FLT REC PERCENT (99959)	CAR-BARYL WATER, FLTRD GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER, FLTRD GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD GF 0.7U REC (UG/L) (49309)	CARBO-FURAN, WATER, FLTRD GF, REC (UG/L) (82674)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CHLOR-AM BEN, METHYL ESTER, WATER, FLTRD REC (UG/L) (61188)	CHLORI-MURON, WATER, FLTRD REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT, FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)
DO Ah 12	09-11-01	--	--	--	--	--	<.05	--	--	--	--
DO Bg 74	09-11-01	--	--	--	--	--	<.05	--	--	--	--
DO Cb 8	08-07-01	E152	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04	<.005
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
DO Ci 8	09-11-01	--	--	--	--	--	<.05	--	--	--	--
		CLOPYR-ALID, WATER, FLTRD GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER, FLTRD GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04039)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZ-INON D10 SRG WAT FLT GF, REC PERCENT (91063)	DIAZI-NON D10 SUR SCD 1379 WTR, FLTRD REC PERCENT (90670)
DO Ah 12	09-11-01	--	<.020	<.05	--	--	.058	--	<.05	--	90
DO Bg 74	09-11-01	--	<.020	<.05	--	--	.167	--	<.05	--	93
DO Cb 8	08-07-01	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	103	--
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
DO Ci 8	09-11-01	--	<.020	<.05	--	--	<.050	--	<.05	--	89
		DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DIMETH-ENAMID OXA, WATER, FLTRD REC (UG/L) (62482)	DIMETH-ENAMID, ESA, WAT FLT REC (UG/L) (61951)	DINOSEB WATER, FLTRD REC (UG/L) (49301)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	DISUL-FOTON WATER, FLTRD GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD GF 0.7U REC (UG/L) (49300)
DO Ah 12	09-11-01	--	--	--	--	--	--	--	<.05	--	--
DO Bg 74	09-11-01	--	--	--	--	--	--	--	<.05	--	--
DO Cb 8	08-07-01	<.005	<.01	<.01	<.005	<.0500	<.05	<.0003	<.03	<.021	<.01
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
DO Ci 8	09-11-01	--	--	--	--	--	--	--	<.05	--	--
		EPTC WATER, FLTRD GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT GF, REC (UG/L) (82663)	ETHO-PROP WATER, FLTRD GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD GF 0.7U REC (UG/L) (49297)	FLUFEN-ACET, ESA, WAT FLT REC (UG/L) (61952)	FLUFE-NACET OXA WATER, FLTRD REC (UG/L) (62483)	FLUMET-SULAM WATER, FLTRD REC (UG/L) (61694)	FLUO-METURON WATER, FLTRD GF 0.7U REC (UG/L) (38811)	FONOFOS WATER, DISS, REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT GF 0.7U REC PERCENT (91065)
DO Ah 12	09-11-01	--	--	--	--	--	--	--	--	--	--
DO Bg 74	09-11-01	--	--	--	--	--	--	--	--	--	--
DO Cb 8	08-07-01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003	92
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
DO Ci 8	09-11-01	--	--	--	--	--	--	--	--	--	--
		HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	HYDROXY ATRA-ZINE WATER, FLTRD REC (UG/L) (50355)	IMAZ-AQUIN WATER, FLTRD REC (UG/L) (50356)	IMAZE-THAPYR WATER, FLTRD REC (UG/L) (50407)	IMID-ACLOP-RID WATER, FLTRD REC (UG/L) (61695)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD REC (UG/L) (38478)	LIN-URON WATER, FLTRD GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD REC (UG/L) (38482)
DO Ah 12	09-11-01	<.05	--	--	--	--	--	--	--	--	--
DO Bg 74	09-11-01	.20	--	--	--	--	--	--	--	--	--
DO Cb 8	08-07-01	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027	<.02
DO Ci 8	08-07-01	--	--	--	--	--	--	--	--	--	--
DO Ci 8	09-11-01	<.05	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

DORCHESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3( 4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	RADON 222 RADON 222 TOTAL (PCI/L) (82303)	RADON 222, 2X CL, SS MDC, 222 UNFLTRD TOTAL (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
DO Ah 12	09-11-01	--	--	<.05	--	--	--	--
DO Bg 74	09-11-01	--	--	<.05	--	--	--	--
DO Cb 8	08-07-01	<.009	<.0242	--	151	25.0	18	E.01
	08-07-01	--	--	--	--	--	--	--
DO Ci 8	09-11-01	--	--	<.05	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

FREDERICK COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
FR Af 27	07-18-01	1200	394200077190701	ENVIRONMENTAL	231GBRG	GW	4040	385	3.39
FR Cd 38	08-22-01	1230	393218077271001	ENVIRONMENTAL	377WVRN	SP	4010	820	--
FR Dd 178	08-30-01	1000	392552077262201	ENVIRONMENTAL	377FDCK	SP	4010	320	--
FR De 58	08-22-01	1500	392826077244801	ENVIRONMENTAL	377FDCK	GW	8030	310	--
FR Df 35	07-17-01	1300	392517077190401	ENVIRONMENTAL	300SMCK	GW	4040	570	--
FR Fb 12	10-19-00	0900	391846077370501	ENVIRONMENTAL	400PCMB	SP	4010	300	--

WELL, TOTAL (FEET) (72008)	DEPTH OF SAMPLE (FT) (72016)	DEPTH TO BOT-TOM OF SAMPLE (FT) (72015)	DEPTH OF SAMPLE (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
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FR Af 27	07-18-01	365	365	39	70	9.0	4.9	7.5	538	13.6	244
FR Cd 38	08-22-01	--	--	--	--	--	9.4	5.1	27	11.9	5.54
FR Dd 178	08-30-01	--	--	--	--	--	5.9	7.1	669	13.9	282
FR De 58	08-22-01	70	70	41	27	3.0	7.2	6.8	386	13.8	182
FR Df 35	07-17-01	302	302	26	90	8.0	10.6	6.5	122	13.2	66.6
FR Fb 12	10-19-00	--	--	--	--	2.7	--	6.4	526	14.3	168

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)	ALKA-LINITY WAT DIS-TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	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)
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FR Af 27	07-18-01	62.5	21.2	.40	20.6	174	212	28.5	.2	27.8	66.3
FR Cd 38	08-22-01	.86	.821	1.17	1.3	4	5	1.6	<.2	6.8	1.6
FR Dd 178	08-30-01	93.3	12.0	2.14	30.4	212	258	69.3	<.2	9.5	20.9
FR De 58	08-22-01	64.8	4.80	.93	3.0	146	178	10.2	<.2	7.6	6.7
FR Df 35	07-17-01	16.2	6.34	.59	1.8	67	82	2.0	<.2	11.5	.6
FR Fb 12	10-19-00	42.7	14.8	1.62	28.5	62	76	76.4	<.2	24.1	40.8

NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	COLOR (PLAT-INUM-COBALT) UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
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FR Af 27	07-18-01	<.040	<.006	2.26	<.060	<.020	--	<1	362	342	4.3
FR Cd 38	08-22-01	E.028	<.006	.688	<.060	<.020	--	<1	22	19.5	<.2
FR Dd 178	08-30-01	<.040	<.006	E4.88	E.034	E.016	--	<1	390	364	<.2
FR De 58	08-22-01	E.021	<.006	7.83	<.060	<.020	--	<1	238	220	<.2
FR Df 35	07-17-01	<.040	<.006	.316	.087	.100	.307	<1	68	81.1	E.1
FR Fb 12	10-19-00	<.041	<.006	6.06	.112	.097	.297	<1	317	294	<.2

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 231GBRG - Gettysburg Shale  
 300SMCK - Sams Creek Metabasalt  
 377FDCK - Frederick Limestone  
 377WVRN - Weverton Formation  
 400PCMB - Precambrian Erathem

Station Type: GW - Ground Water  
 SP - Spring

Sampling Method: 4010 - Thief sample  
 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap



QUALITY OF GROUND WATER DATA

FREDERICK COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
FR Af 27	07-18-01	<.06	<10	1560	<.08	<3.0	6	<.01	<.04	<.60	9.3
FR Cd 38	08-22-01	<.06	<10	<10	E.07	6.7	7	<.01	<.04	E.36	79.5
FR Dd 178	08-30-01	<.06	<10	M	<.08	<3.0	E2	<.01	<.04	<.60	31.1
FR De 58	08-22-01	<.06	<10	<10	.25	<3.0	<3	<.01	<.04	2.7	45.2
FR Df 35	07-17-01	<.06	M	480	<.08	E1.9	89	<.01	<.04	E.49	38.2
FR Fb 12	10-19-00	<.06	<10	<10	<.08	<3.2	<3	<.23	--	1.2	48.0
		ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALPHA-HCH, D6 SUR SCD 1379 WTR, FLTRD REC (UG/L) (90505)	AMETRYN WATER, DISS, REC (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
FR Af 27	07-18-01	<.050	<.050	92	<.05	<.050	<.05	<.05	<.050	<.05	<.200
FR Cd 38	08-22-01	<.050	<.050	87	<.05	<.050	<.05	<.05	<.050	<.05	<.200
FR Dd 178	08-30-01	<.050	<.050	91	<.05	<.050	<.05	<.05	<.050	<.05	<.020
FR De 58	08-22-01	<.050	<.050	88	<.05	.090	<.05	<.05	<.050	<.05	<.200
FR Df 35	07-17-01	<.050	<.050	82	<.05	<.050	<.05	<.05	<.050	<.05	<.200
FR Fb 12	10-19-00	<.050	<.050	104	<.05	E.014	<.05	<.05	<.050	<.05	<.050
		SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZI-NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (UG/L) (90670)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)
FR Af 27	07-18-01	<.05	<.050	<.05	88	<.05	<.05	<.050	<.050	<.050	<.05
FR Cd 38	08-22-01	<.05	<.050	<.05	91	<.05	<.05	<.050	<.050	<.050	<.05
FR Dd 178	08-30-01	<.05	<.050	<.05	101	<.05	<.05	<.050	<.050	<.050	<.05
FR De 58	08-22-01	<.05	.151	<.05	91	<.05	<.05	<.050	<.050	<.050	<.05
FR Df 35	07-17-01	<.05	<.050	<.05	80	<.05	<.05	<.050	<.050	<.050	<.05
FR Fb 12	10-19-00	<.05	E.040	<.05	89	<.05	<.05	<.050	<.050	E.030	<.05
		PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER, DISS, REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC (UG/L) (99834)	BENZENE TOTAL (UG/L) (34030)
FR Af 27	07-18-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	.4	107	<.20
FR Cd 38	08-22-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	<.2	87	<.20
FR Dd 178	08-30-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	<.2	93	<.20
FR De 58	08-22-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	<.2	84	<.20
FR Df 35	07-17-01	<.050	<.05	<.050	<.05	<.05	<.05	<.05	1.2	94	.44
FR Fb 12	10-19-00	<.050	<.05	<.050	<.05	<.05	<.05	<.05	<.2	99	<.20

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

## QUALITY OF GROUND WATER DATA

FREDERICK COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ETHANE	METHYL	META/	O-	TOLUENE	ALPHA	ALPHA	BETA,		
		12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHYL- BENZENE TOTAL (UG/L) (34371)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	XYLENE WATER WHOLE TOTAL (UG/L) (77135)	D8 SURROG VOC UNFLTRD REC PERCENT (99833)	D8 SURROG VOC UNFLTRD TOTAL (UG/L) (34010)	2 SIGMA WATER WAT DIS AS TH-230 (PCI/L) (75987)	RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)
FR Af 27	07-18-01	107	<.20	<.2	.26	.10	102	.27	4.9	14.1	2.4
FR Cd 38	08-22-01	120	<.20	<.2	<.20	<.20	102	<.20	.57	.90	.73
FR Dd 178	08-30-01	97	<.20	.2	<.20	<.20	90	<.20	2.2	2.29	3.2
FR De 58	08-22-01	116	<.20	<.2	<.20	<.20	102	<.20	.97	-0.18	1.9
FR Df 35	07-17-01	111	.22	<.2	.79	.45	106	.48	.47	.35	.81
FR Fb 12	10-19-00	110	<.20	E.1	<.20	<.20	99	<.20	2.4	<3.00	4.3
		GROSS ALPHA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99337)	GROSS BETA, DIS- SOLVED (PCI/L) AS CS-137) (03515)	GROSS BETA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99323)	RADON 222 RADON 222 TOTAL (PCI/L) (82303)	RADON 222, 2X CL, SS MDC, WATER, UNFLTRD TOTAL, (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)				
FR Af 27	07-18-01	4.650	1.89	4.610	--	--	--	--			
FR Cd 38	08-22-01	.70000	1.45	1.230	1590	23.0	37				
FR Dd 178	08-30-01	3.520	2.27	5.280	223	25.0	20				
FR De 58	08-22-01	1.860	1.49	3.370	71.0	23.0	16				
FR Df 35	07-17-01	.78000	.92	1.510	179	28.0	21				
FR Fb 12	10-19-00	--	<4.00	--	--	--	--				

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPT BELOW SURFACE LAND (WATER LEVEL) (FEET) (72019)
HA Aa 9	07-16-01	1500	394153076325701	ENVIRONMENTAL	300WSCK	SP	4010	660	--
HA Ac 59	10-25-00	1515	394304076233501	ENVIRONMENTAL	--	GW	8030	580	--
HA Ba 88	10-17-00	1000	393646076305301	ENVIRONMENTAL	--	GW	8030	740	--
HA Bc 31	06-14-01	1300	393800076240101	ENVIRONMENTAL	300WSCK	SP	4010	300	--
	07-19-01	1600		ENVIRONMENTAL	300WSCK	SP	4010	300	--
HA Bc 32	09-06-01	1000	393628076222601	ENVIRONMENTAL	370LCRV	GW	8030	380	--
HA Bc 35	10-23-00	1345	393507076231801	ENVIRONMENTAL	--	GW	8030	540	--
HA Bd 87	10-11-00	1630	393938076164501	ENVIRONMENTAL	--	GW	8030	380	--
HA Bd 88	10-17-00	1330	393758076162001	ENVIRONMENTAL	--	GW	8030	440	--
HA Be 40	10-24-00	1015	393911076135001	ENVIRONMENTAL	--	GW	8030	410	--
HA Ca 23	07-19-01	1100	393158076302601	ENVIRONMENTAL	370LCRV	GW	4040	470	6.98
HA Cb 290	10-23-00	1100	393156076264901	ENVIRONMENTAL	--	GW	8030	520	--
HA Cc 201	10-18-00	1430	393021076241301	ENVIRONMENTAL	300PRDP	GW	8030	450	--
HA Dc 124	10-16-00	1230	392709076212201	ENVIRONMENTAL	--	GW	8030	180	--
HA De 300	10-11-00	1130	392626076141201	ENVIRONMENTAL	--	GW	8030	8	--

DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
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HA Aa 9	07-16-01	--	--	--	--	9.7	5.1	138	--	11.6	
HA Ac 59	10-25-00	34	--	--	15	3.0	5.5	5.9	258	20.5	15.0
HA Ba 88	10-17-00	20	--	--	20	3.5	6.8	6.4	160	13.0	14.5
HA Bc 31	06-14-01	--	--	--	--	--	--	5.5	31	--	11.7
	07-19-01	--	--	--	--	--	8.5	--	35	--	--
HA Bc 32	09-06-01	205	205	59	50	5.0	7.9	5.6	245	--	13.6
HA Bc 35	10-23-00	75	--	--	20	3.0	6.0	6.0	325	14.0	14.0
HA Bd 87	10-11-00	42	--	--	15	4.0	8.7	6.3	128	24.0	14.0
HA Bd 88	10-17-00	62	--	--	15	2.5	3.1	6.5	288	14.5	15.5
HA Be 40	10-24-00	50	--	--	20	4.0	4.5	7.1	242	13.0	14.0
HA Ca 23	07-19-01	200	200	24	75	8.0	7.5	6.0	136	--	12.9
HA Cb 290	10-23-00	79	--	--	20	3.0	5.5	5.4	290	11.0	15.0
HA Cc 201	10-18-00	20	--	--	20	2.0	3.1	6.0	169	16.0	14.5
HA Dc 124	10-16-00	90	--	--	20	4.0	.7	6.9	219	17.0	15.0
HA De 300	10-11-00	--	--	--	20	3.2	5.7	5.5	18	14.5	14.0

HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	ANC WATER UNFLTRD IT (MG/L AS CACO3) (00419)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	ANC BICAR-BONATE IT (MG/L AS HCO3) (00450)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
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HA Aa 9	07-16-01	48.0	8.28	6.63	1.00	4.6	5	--	6	--	12.1
HA Ac 59	10-25-00	90.3	26.4	5.92	1.31	12.1	--	12	--	15	43.7
HA Ba 88	10-17-00	57.5	8.79	8.64	1.86	11.8	--	30	--	36	27.7
HA Bc 31	06-14-01	9.22	1.67	1.23	.52	2.3	10	--	12	--	2.6
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	78.8	20.7	6.57	2.60	11.3	20	--	25	--	15.2
HA Bc 35	10-23-00	106	28.4	8.42	3.09	19.1	--	41	--	50	60.0
HA Bd 87	10-11-00	55.9	11.7	6.48	.65	5.6	--	49	--	60	10.2
HA Bd 88	10-17-00	142	27.2	18.0	.34	12.0	--	87	--	106	42.1
HA Be 40	10-24-00	143	18.6	23.4	.54	4.6	--	116	--	142	12.4
HA Ca 23	07-19-01	42.0	8.86	4.83	2.38	7.5	19	--	23	--	10.6
HA Cb 290	10-23-00	66.3	13.7	7.80	2.91	36.1	--	15	--	18	77.0
HA Cc 201	10-18-00	63.5	13.4	7.27	1.58	14.1	--	34	--	42	15.3
HA Dc 124	10-16-00	104	22.3	11.8	1.45	6.6	--	106	--	129	7.1
HA De 300	10-11-00	3.46	.83	.333	.43	2.2	--	6	--	7	2.2

Geologic Unit (aquifer): 300PRDP - Port Deposit Gneiss  
 300WSCK - Wissahickon Formation  
 370LCRV - Loch Raven Schist

Station Type: GW - Ground Water  
 SP - Spring

Sampling Method: 4010 - Thief sampler  
 4040 - Submersible Pump  
 8030 - Grab sample at water supply tap

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED	SULFATE DIS- SOLVED	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC DIS.	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, NITRATE DIS- SOLVED	NITRO- GEN, NO2+NO3 DIS- SOLVED	PHOS- PHORUS DIS- SOLVED
		(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00625)	(MG/L AS N) (00613)	(MG/L AS N) (00618)	(MG/L AS N) (00618)	(MG/L AS N) (00631)
HA Aa 9	07-16-01	<.2	10.6	2.5	<.040	--	--	E.003	--	9.05	<.060
HA Ac 59	10-25-00	--	--	5.9	<.041	E.05	<.08	<.006	--	7.93	.015
HA Ba 88	10-17-00	--	--	.8	<.041	<.10	<.08	<.006	--	4.68	E.003
HA Bc 31	06-14-01	<.2	10.8	.5	<.040	--	--	<.006	--	.332	<.060
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	<.2	23.9	31.2	<.040	--	--	<.006	--	E9.80	E.052
HA Bc 35	10-23-00	--	--	12.5	<.041	E.07	<.08	<.006	--	7.24	.032
HA Bd 87	10-11-00	--	--	1.3	<.041	E.09	<.08	<.006	--	4.56	.033
HA Bd 88	10-17-00	--	--	7.5	<.041	<.10	E.05	<.006	--	4.54	<.006
HA Be 40	10-24-00	--	--	16.9	<.041	E.06	<.08	<.006	--	1.71	.016
HA Ca 23	07-19-01	<.2	22.6	1.8	<.040	--	--	.008	6.52	6.53	<.060
HA Cb 290	10-23-00	--	--	1.6	<.041	E.07	<.08	<.006	--	5.83	.013
HA Cc 201	10-18-00	--	--	21.9	<.041	<.10	E.07	<.006	--	3.95	.055
HA Dc 124	10-16-00	--	--	11.9	E.027	<.10	E.05	.014	--	<.047	<.006
HA De 300	10-11-00	--	--	1.7	<.041	<.10	<.08	<.006	--	E.024	<.006
		PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL	PHOS- PHATE, DIS- SOLVED	COLOR (PLAT- INUM- COBALT UNITS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED	ARSENIC DIS- SOLVED	BERYL- LIUM, DIS- SOLVED	IRON, DIS- SOLVED	IRON, TOTAL RECOV- ERABLE
		(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS PO4) (00660)	(MG/L AS N) (00080)	(MG/L) (70300)	(MG/L) (70301)	(UG/L AS AS) (01000)	(UG/L AS BE) (01010)	(UG/L AS FE) (01046)	(UG/L AS FE) (01045)
HA Aa 9	07-16-01	<.020	--	--	<1	92	88.8	<.2	.07	<10	<10
HA Ac 59	10-25-00	E.013	.017	--	--	--	140	--	--	<10	--
HA Ba 88	10-17-00	<.018	.007	--	--	--	100	--	--	10	--
HA Bc 31	06-14-01	E.015	--	--	--	22	27.1	<.2	<.06	<10	<10
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	E.043	--	--	<1	170	124	<.2	<.06	<10	<10
HA Bc 35	10-23-00	.026	.035	.080	--	--	190	--	--	<10	--
HA Bd 87	10-11-00	.031	.044	.095	--	--	90	--	--	<10	--
HA Bd 88	10-17-00	<.018	E.002	--	--	--	180	--	--	20	--
HA Be 40	10-24-00	E.015	.016	--	--	--	150	--	--	<10	--
HA Ca 23	07-19-01	<.020	--	--	<1	122	98.7	<.2	<.06	<10	900
HA Cb 290	10-23-00	E.010	.015	--	--	--	170	--	--	<10	--
HA Cc 201	10-18-00	.049	.070	.150	--	--	110	--	--	<10	--
HA Dc 124	10-16-00	<.018	E.003	--	--	--	130	--	--	3620	--
HA De 300	10-11-00	<.018	<.004	--	--	--	10	--	--	20	--
		LEAD, DIS- SOLVED	MANGA- NESE, DIS- SOLVED	MANGA- NESE, TOTAL RECOV- ERABLE	MERCURY DIS- SOLVED	THAL- LIUM, DIS- SOLVED	CARBON, ORGANIC TOTAL	CARBON DIOXIDE DIS- SOLVED	ACETO- CHLOR, WATER FLTRD REC	ALA- CHLOR, WATER, DISS, REC	ALPHA- HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT
		(UG/L AS PB) (01049)	(UG/L AS MN) (01056)	(UG/L AS MN) (01055)	(UG/L AS HG) (71890)	(UG/L AS TL) (01057)	(MG/L AS C) (00680)	(MG/L AS CO2) (00405)	(UG/L) (49260)	(UG/L) (46342)	(90505)
HA Aa 9	07-16-01	.10	9.8	9	.01	E.03	<.60	92.0	<.050	<.050	96
HA Ac 59	10-25-00	--	--	--	--	--	--	54.0	--	--	--
HA Ba 88	10-17-00	--	--	--	--	--	--	25.8	--	--	--
HA Bc 31	06-14-01	.12	<3.0	<3	<.01	.05	<.60	64.3	<.050	<.050	94
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	1.84	<3.0	<3	<.01	<.04	2.3	102	<.050	<.050	84
HA Bc 35	10-23-00	--	--	--	--	--	--	86.5	--	--	--
HA Bd 87	10-11-00	--	--	--	--	--	--	36.8	--	--	--
HA Bd 88	10-17-00	--	--	--	--	--	--	59.8	--	--	--
HA Be 40	10-24-00	--	--	--	--	--	--	17.4	--	--	--
HA Ca 23	07-19-01	<.08	6.6	9	<.01	<.04	<.60	39.0	<.050	<.050	88
HA Cb 290	10-23-00	--	--	--	--	--	--	141	--	--	--
HA Cc 201	10-18-00	--	--	--	--	--	--	73.6	--	--	--
HA Dc 124	10-16-00	--	--	--	--	--	--	24.9	--	--	--
HA De 300	10-11-00	--	--	--	--	--	--	40.9	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	AMETRYN	ATRA-	BRO-	BUTA-	BUTYL-	CAR-	CYANA-	SI-	DEETHYL	DEISO-
		WATER, DISS, REC, (UG/L) (38401)	ZINE, WATER, DISS, REC (UG/L) (39632)	MACIL, WATER, DISS, REC (UG/L) (04029)	CHLOR, WATER, DISS, REC (UG/L) (04026)	ATE, WATER, DISS, REC (UG/L) (04028)	BOXIN, WATER, DISS, REC (UG/L) (04027)	ZINE, WATER, DISS, REC (UG/L) (04041)	CLOATE, WATER, DISS, REC (UG/L) (04031)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)
HA Aa 9	07-16-01	<.05	E.006	<.05	<.05	<.050	<.05	<.200	<.05	.299	<.05
HA Ac 59	10-25-00	--	--	--	--	--	--	--	--	--	--
HA Ba 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Bc 31	06-14-01	<.05	E.008	<.05	<.05	<.050	<.05	<.200	<.05	E.041	<.05
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	<.05	.086	<.05	<.05	<.050	<.05	<.020	<.05	.558	.05
HA Bc 35	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Bd 87	10-11-00	--	--	--	--	--	--	--	--	--	--
HA Bd 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Be 40	10-24-00	--	--	--	--	--	--	--	--	--	--
HA Ca 23	07-19-01	<.05	E.024	<.05	<.05	<.050	<.05	<.200	<.05	.291	<.05
HA Cb 290	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Cc 201	10-18-00	--	--	--	--	--	--	--	--	--	--
HA Dc 124	10-16-00	--	--	--	--	--	--	--	--	--	--
HA De 300	10-11-00	--	--	--	--	--	--	--	--	--	--
		DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP- AZINE WATER DISS REC (UG/L) (38535)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
HA Aa 9	07-16-01	87	<.05	<.05	E.030	<.050	<.050	<.05	<.050	<.05	<.050
HA Ac 59	10-25-00	--	--	--	--	--	--	--	--	--	--
HA Ba 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Bc 31	06-14-01	93	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05	<.050
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	92	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05	<.050
HA Bc 35	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Bd 87	10-11-00	--	--	--	--	--	--	--	--	--	--
HA Bd 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Be 40	10-24-00	--	--	--	--	--	--	--	--	--	--
HA Ca 23	07-19-01	89	<.05	<.05	.091	<.050	<.050	<.05	<.050	<.05	<.050
HA Cb 290	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Cc 201	10-18-00	--	--	--	--	--	--	--	--	--	--
HA Dc 124	10-16-00	--	--	--	--	--	--	--	--	--	--
HA De 300	10-11-00	--	--	--	--	--	--	--	--	--	--
		SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE UNFLTRD REC (UG/L) (81551)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE TOTAL (UG/L) (34030)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
HA Aa 9	07-16-01	<.05	<.05	<.05	<.05	<.2	79	<.20	113	<.20	<.2
HA Ac 59	10-25-00	--	--	--	--	--	--	--	--	--	--
HA Ba 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Bc 31	06-14-01	<.05	<.05	<.05	<.05	<.2	69	<.20	142	<.20	<.2
	07-19-01	--	--	--	--	--	--	--	--	--	--
HA Bc 32	09-06-01	<.05	<.05	<.05	<.05	<.2	100	<.20	93	<.20	<.2
HA Bc 35	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Bd 87	10-11-00	--	--	--	--	--	--	--	--	--	--
HA Bd 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Be 40	10-24-00	--	--	--	--	--	--	--	--	--	--
HA Ca 23	07-19-01	<.05	<.05	<.05	<.05	.4	107	<.20	109	<.20	<.2
HA Cb 290	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Cc 201	10-18-00	--	--	--	--	--	--	--	--	--	--
HA Dc 124	10-16-00	--	--	--	--	--	--	--	--	--	--
HA De 300	10-11-00	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (UG/L) (34010)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, (PCI/L) (99337)	GROSS BETA, DIS- SOLVED AS CS-137 (PCI/L) (03515)	GROSS BETA, 2X CL, SS MDC, WATER, (PCI/L) (99323)
		HA Aa 9	07-16-01	<.20	<.20	95	<.20	.81	1.72	.90	.91000
HA Ac 59	10-25-00	--	--	--	--	--	--	--	--	--	--
HA Ba 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Bc 31	06-14-01	<.20	<.20	101	<.20	--	--	--	--	--	--
	07-19-01	--	--	--	--	.58	.75	.91	.87000	1.89	1.290
HA Bc 32	09-06-01	<.20	<.20	93	<.20	1.1	.91	1.6	1.960	3.73	2.470
HA Bc 35	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Bd 87	10-11-00	--	--	--	--	--	--	--	--	--	--
HA Bd 88	10-17-00	--	--	--	--	--	--	--	--	--	--
HA Be 40	10-24-00	--	--	--	--	--	--	--	--	--	--
HA Ca 23	07-19-01	.24	.14	101	.17	.69	1.26	.97	.90000	3.14	1.310
HA Cb 290	10-23-00	--	--	--	--	--	--	--	--	--	--
HA Cc 201	10-18-00	--	--	--	--	--	--	--	--	--	--
HA Dc 124	10-16-00	--	--	--	--	--	--	--	--	--	--
HA De 300	10-11-00	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	RADON		
		RADON 222 TOTAL (PCI/L) (82303)	RN-222 2X CL, SS MDC, WATER, UNFLTRD (PCI/L) (99327)	2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
HA Aa 9	07-16-01	3440	24.0	53
HA Ac 59	10-25-00	--	--	--
HA Ba 88	10-17-00	--	--	--
HA Bc 31	06-14-01	--	--	--
	07-19-01	--	--	--
HA Bc 32	09-06-01	5190	22.0	63
HA Bc 35	10-23-00	--	--	--
HA Bd 87	10-11-00	--	--	--
HA Bd 88	10-17-00	--	--	--
HA Be 40	10-24-00	--	--	--
HA Ca 23	07-19-01	2590	40.0	62
HA Cb 290	10-23-00	--	--	--
HA Cc 201	10-18-00	--	--	--
HA Dc 124	10-16-00	--	--	--
HA De 300	10-11-00	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

HOWARD COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	DEPTH OF WELL, TOTAL (FEET)				
								(72000)		(72008)			
HO Bc 305	09-06-01	1200	391723077034601	ENVIRONMENTAL	360MRGR	GW	8030	500	115				
HO Bd 411	08-30-01	1400	391600076595401	ENVIRONMENTAL	360MRGR	GW	8030	580	260				
				DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)				
HO Bc 305	09-06-01	115	19	20	4.0	9.2	5.3	76	14.6	22.9	3.11		
HO Bd 411	08-30-01	260	100	27	4.3	8.2	5.6	125	14.9	51.0	14.2		
				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)	ALKA-LINITY WAT DIS FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	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 SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
HO Bc 305	09-06-01	3.68	1.13	3.1	5	6	7.4	<.2	8.5	E.1	<.040		
HO Bd 411	08-30-01	3.77	1.09	5.3	31	38	6.0	<.2	14.5	.5	<.040		
				NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (MG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	
HO Bc 305	09-06-01	<.006	E4.42	<.060	<.020	<1	54	--	<.2	.13	<10		
HO Bd 411	08-30-01	<.006	E6.47	<.060	<.020	<1	102	64.0	<.2	<.06	<10		
				IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	CARBON, ORGANIC TOTAL SOLVED (MG/L AS C) (00680)	CARBON DIOXIDE, DIS-SOLVED (MG/L AS CO2) (00405)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)
HO Bc 305	09-06-01	<10	3.63	5.8	5	<.01	.06	<.60	63.6	<.050	<.050		
HO Bd 411	08-30-01	20	.19	11.7	11	<.01	<.04	<.60	142	<.050	<.050		

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 360MRGR - Morgan Run Formation

Station Type: GW - Ground Water

Sampling Method: 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

HOWARD COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ALPHA-HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (90505)	AMETRYN WATER, DISS, REC (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
		HO Bc 305	09-06-01	85	<.05	<.050	<.05	<.05	<.050	<.05	<.020
HO Bd 411	08-30-01	70	<.05	.094	<.05	<.05	<.050	<.05	<.020	<.05	.632
		DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZI-NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE, WATER, DISS, REC (UG/L) (38535)
HO Bc 305	09-06-01	<.05	93	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05
HO Bd 411	08-30-01	.05	76	<.05	<.05	.982	<.050	<.050	<.05	<.050	<.05
		SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD (UG/L) (81551)	BENZENE 14BRFL-SURROG VOC UNFLTRD PERCENT (99834)	BENZENE TOTAL (UG/L) (34030)	ETHANE 12DICL SURROG VOC UNFLTRD PERCENT (99832)	ETHYL-BENZENE TOTAL (UG/L) (34371)
HO Bc 305	09-06-01	<.050	<.05	<.05	<.05	<.05	<.2	100	<.20	98	<.20
HO Bd 411	08-30-01	<.050	<.05	<.05	<.05	<.05	<.2	97	<.20	93	<.20
		METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (UG/L) (34010)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. 2 SIGMA WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, WHOLE, FLTRD, AS (PCI/L) (99337)	GROSS BETA, DIS-SOLVED (PCI/L) (03515)
HO Bc 305	09-06-01	<.2	<.20	<.20	92	<.20	.85	1.85	.94	1.090	2.99
HO Bd 411	08-30-01	<.2	<.20	<.20	92	<.20	.65	.79	1.0	1.000	1.83
		WELL NUMBER	DATE	GROSS BETA, 2X CL, SS MDC, WATER, WHOLE, FLTRD, AS (PCI/L) (99323)	RADON 222 TOTAL (PCI/L) (82303)	RADON 222 UNFLTRD TOTAL (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (76002)				
		HO Bc 305	09-06-01	1.380	3260	22.0	51				
		HO Bd 411	08-30-01	1.560	5850	25.0	69				

< Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

KENT COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW SURFACE (WATER LEVEL) (FEET) (72019)
KE Bd 42	07-03-01	1000	391927076000301	ENVIRONMENTAL	112CLMB	GW	4040	75	9.40
KE Bd 81	07-09-01	1430	391750076035401	ENVIRONMENTAL	112CLMB	GW	8030	75	--
KE Be 46	07-18-01	1000	391832075560801	BLANK	--	--	4040	--	--
	07-18-01	1100		ENVIRONMENTAL	125AQUI	GW	4090	64	--
KE Be 59	07-12-01	0930	391832075560803	ENVIRONMENTAL	125AQUI	GW	4040	71.4	11.57
	07-12-01	0935		REPLICATE	125AQUI	GW	4040	71.4	--
KE Bg 63	07-09-01	1230	391828075493801	ENVIRONMENTAL	112CLMB	GW	8030	70	--
KE Cc 39	08-08-01	1030	391257076083901	ENVIRONMENTAL	112CLMB	GW	8030	75	--

WELL NUMBER	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM- PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
KE Bd 42	07-03-01	27	27	24	75	.29	770	61.2	6.1	5.7	455	
KE Bd 81	07-09-01	50	42	37	23	3.0	--	--	11.0	5.1	161	
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--	
	07-18-01	50	50	40	60	.50	762	86.9	8.4	4.8	192	
KE Be 59	07-12-01	26.50	26	24	130	.36	760	60.7	5.9	5.7	575	
	07-12-01	26.50	--	--	--	--	--	--	--	--	--	
KE Bg 63	07-09-01	50	50	50	18	3.0	--	--	10.4	5.1	135	
KE Cc 39	08-08-01	60	60	50	21	4.0	--	--	9.5	4.8	168	

WELL NUMBER	DATE	TIME	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL AS (MG/L CAC03) (00900)	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)	ALKA- LINITY WAT DIS- TOT IT FIELD CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
KE Bd 42	07-03-01	22.0	16.0	141	27.5	17.4	2.66	5.8	30	37	31.4	
KE Bd 81	07-09-01	--	14.6	68.3	9.16	11.0	2.01	3.5	4	5	15.9	
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--	
	07-18-01	24.0	17.0	53.2	14.4	4.16	3.29	6.8	2	2	17.9	
KE Be 59	07-12-01	24.0	16.5	105	19.7	13.5	2.29	41.9	21	25	97.0	
	07-12-01	--	--	107	19.7	13.8	2.13	43.0	--	--	91.7	
KE Bg 63	07-09-01	--	14.8	46.6	10.5	4.93	2.42	7.6	4	6	16.0	
KE Cc 39	08-08-01	--	15.0	56.2	13.7	5.37	3.27	4.9	1	1	18.4	

WELL NUMBER	DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
KE Bd 42	07-03-01	E.1	.02	11.5	36.4	E.039	E.08	.012	16.7	16.7	--	
KE Bd 81	07-09-01	--	--	--	8.7	<.040	--	.013	11.8	11.9	<.060	
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--	
	07-18-01	<.2	.02	12.6	<.1	<.040	<.10	<.006	--	11.4	--	
KE Be 59	07-12-01	<.2	.03	10.2	27.5	<.040	E.06	<.006	--	6.64	--	
	07-12-01	<.2	.02	10.2	27.9	<.040	E.09	<.006	--	6.50	--	
KE Bg 63	07-09-01	--	--	--	E.1	<.040	--	.012	11.5	11.6	<.060	
KE Cc 39	08-08-01	--	--	--	<.1	<.040	--	<.006	--	11.2	<.060	

E Estimated value.

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Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
125AQUI - Aquia Formation

4090 - Jet pump  
8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

KENT COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	TOTAL COLI- FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, NA-MUG, WATER (COL/ 100 ML) (50278)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ALUM- INUM, DIS- SOLVED (UG/L) AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L) AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L) AS AS) (01000)	BIARIUM, DIS- SOLVED (UG/L) AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L) AS BE) (01010)
		KE Bd 42	07-03-01	<.020	--	--	238	226	6	<.05	.9
KE Bd 81	07-09-01	<.020	--	--	116	105	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.020	1	<1	157	--	17	<.05	<.2	91.7	.53
	07-12-01	<.020	--	--	330	254	1	<.05	.3	129	<.06
	07-12-01	E.009	--	--	309	--	2	E.03	.2	140	<.06
KE Bg 63	07-09-01	<.020	--	--	138	--	--	--	--	--	--
KE Cc 39	08-08-01	<.020	--	--	108	--	--	--	--	--	--
		BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)
KE Bd 42	07-03-01	8	.06	<.8	3.05	.5	570	E.06	1.1	426	<.2
KE Bd 81	07-09-01	--	--	--	--	--	<10	--	--	32.2	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<7	.08	1.0	.16	81.1	10	4.96	1.1	12.3	<.2
	07-12-01	7	.04	<.8	.12	.5	<10	.19	.4	28.2	<.2
	07-12-01	E7	E.03	E.5	.14	.5	<10	.27	.5	32.1	<.2
KE Bg 63	07-09-01	--	--	--	--	--	<10	--	--	10.9	--
KE Cc 39	08-08-01	--	--	--	--	--	<10	--	--	50.2	--
		NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	CARBON DIOXIDE SOLVED (MG/L AS CO2) (00405)	2,4,5-T SURROG WATER FLTRD REC PERCENT (99958)
KE Bd 42	07-03-01	2.99	9.7	<1.0	254	.05	E.1	6	1.0	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	69.5	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	E94
KE Be 59	07-18-01	9.00	<.3	<1.0	74.0	<.04	<.2	55	.59	--	85
	07-12-01	1.15	5.7	<1.0	190	<.04	<.2	2	.49	--	69
	07-12-01	1.58	5.6	<1.0	195	<.04	<.2	2	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	87.1	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--
		2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (39732)	2,6-DI- ETHYL ANILINE WAT FLT GF, REC (UG/L) (38746)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	3-KETO CARBO- FURAN WATER FLTRD GF REC (UG/L) (50295)	ACETO- CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO- CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	
KE Bd 42	07-03-01	--	--	--	<.002	--	--	<.05	<.05	<.004	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	<.050	--
KE Be 46	07-18-01	<.009	<.02	<.02	<.002	<.01	<1.50	--	--	<.004	<.01
KE Be 59	07-18-01	<.009	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01
	07-12-01	<.009	<.02	<.02	<.002	<.01	<1.50	.88	<.05	<.004	<.01
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	<.050	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	<.050	--

E Estimated value.  
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## QUALITY OF GROUND WATER DATA

## KENT COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIAZI- NON D10 SUR SCD 1379	DI- AZINON, WTR, FLTRD	DICAMBA WATER, FLTRD, GF 0.7U	DICHLOR PROP, WATER, FLTRD, GF 0.7U	DI- ELDRIN WATER, FLTRD, DIS- SOLVED	DIMETH- ENAMID OXA, WATER, FLTRD, ESA, GF 0.7U	DIMETH- ENAMID, ESA, GF 0.7U	DINOSEB WATER, FLTRD, GF 0.7U	DIPHEN- AMID, WATER, DIS- REC	DISUL- FOTON WATER, FLTRD, 0.7 U GF, REC
		(90670)	(39572)	(38442)	(49302)	(39381)	(62482)	(61951)	(49301)	(04033)	(82677)
KE Bd 42	07-03-01	--	<.005	--	--	<.005	<.0500	<.05	--	--	<.021
KE Bd 81	07-09-01	92	--	--	--	--	--	--	--	<.05	--
KE Be 46	07-18-01	--	<.005	<.01	<.01	<.005	--	--	<.01	<.03	<.021
KE Be 59	07-18-01	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021
	07-12-01	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021
KE Bg 63	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	07-09-01	89	--	--	--	--	--	--	--	<.05	--
	08-08-01	92	--	--	--	--	--	--	--	<.05	--
		DIURON, WATER, FLTRD, GF 0.7U	EPTC WATER FLTRD, 0.7 U GF, REC	ETHAL- FLUR- ALIN WAT FLT	ETHO- PROP WATER FLTRD, 0.7 U GF, REC	FEN- URON, WATER, FLTRD, GF 0.7U	FLUFE- NACET OXA WATER FLTRD, ESA, GF 0.7U	FLUMET- SULAM WATER FLTRD, REC	FLUO- METURON WATER, FLTRD, GF 0.7U	FONOFOS WATER DISS REC	
		(49300)	(82668)	(82663)	(82672)	(49297)	(61952)	(62483)	(61694)	(38811)	(04095)
KE Bd 42	07-03-01	--	<.002	<.009	<.005	--	<.05	<.0500	--	--	<.003
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	<.01	<.002	<.009	<.005	<.0010	--	--	<.0110	<.03	<.003
KE Be 59	07-18-01	<.01	<.002	<.009	<.005	<.0006	<.05	<.0500	<.0110	<.03	<.003
	07-12-01	<.01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003
KE Bg 63	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	07-09-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
		HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC	HEXA- ZINONE, WATER, DISS, REC	HYDROXY ATRA- ZINE WATER FLTRD	IMAZ- AQUIN WATER FLTRD	IMAZE- THAPYR WATER FLTRD	IMID- ACLOP- RID WATER FLTRD	LINDANE DIS- SOLVED	LINURON WATER, FLTRD, GF 0.7U	LIN- URON WATER FLTRD, GF 0.7U	MALA- THION, DIS- SOLVED
		(91065)	(04025)	(50355)	(50356)	(50407)	(61695)	(39341)	(38478)	(82666)	(39532)
KE Bd 42	07-03-01	95	--	--	--	--	--	<.004	--	<.035	<.027
KE Bd 81	07-09-01	--	<.05	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	97	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027
KE Be 59	07-18-01	87	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035	<.027
	07-12-01	91	--	E.093	<.016	<.017	<.0068	<.004	<.01	<.035	<.027
KE Bg 63	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	07-09-01	--	.17	--	--	--	--	--	--	--	--
	08-08-01	--	<.05	--	--	--	--	--	--	--	--
		MCPA, WATER, FLTRD, GF 0.7U	MCPB, WATER, FLTRD, GF 0.7U	METAL- AXYL WATER FLTRD	METHIO- CARB, WATER, FLTRD, GF 0.7U	METH- OMYL WATER FLTRD	METH- OMYL, WATER, FLTRD, GF 0.7U	METHYL AZIN- PHOS WAT FLT	METHYL PARA- THION WAT FLT	METOLA- CHLOR ESA FLTRD	METOLA- CHLOR OA FLTRD
		(38482)	(38487)	(50359)	(38501)	(61696)	(49296)	(82686)	(82667)	(61043)	(61044)
KE Bd 42	07-03-01	--	--	--	--	--	--	<.050	<.006	14.0	.78
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	--	--
KE Be 59	07-18-01	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	.07	<.05
	07-12-01	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	3.31	.14
KE Bg 63	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	07-09-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METO-	METRI-	MET-	MOL-	NAPROP-	NEB-	NICOSUL	NORFLUR	ORY-	OXAMYL
		LACHLOR WATER DISSOLV (UG/L) (39415)	BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	FURON WATER FLTRD WATER REC (UG/L) (50364)	AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXIME WATER FLTRD REC (UG/L) (50410)
KE Bd 42	07-03-01	E.004	<.006	--	<.002	<.007	--	--	--	--	--
KE Bd 81	07-09-01	.050	<.050	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	E.005	<.006	<.0250	<.002	<.007	<.01	E.048	<.02	<.02	<.013
	07-18-01	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013
KE Be 59	07-12-01	E.003	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	.225	<.050	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	E.030	<.050	--	--	--	--	--	--	--	--
		OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)
KE Bd 42	07-03-01	--	<.003	<.007	<.002	<.010	<.006	<.011	--	<.015	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	<.050	<.05
KE Be 46	07-18-01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--
	07-18-01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--
KE Be 59	07-12-01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	E.001	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	<.050	<.05
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	<.050	<.05
		PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROP- AZINE WATER FLTRD DISS REC (UG/L) (38535)	PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP- ICONA- ZOLE, WATER, FLTRD, GF 0.7U REC (UG/L) (50471)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER, FLTRD, REC (UG/L) (38548)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
KE Bd 42	07-03-01	<.004	<.010	<.011	<.023	--	--	--	--	--	<.011
KE Bd 81	07-09-01	--	<.050	--	--	<.05	--	--	--	--	E.045
KE Be 46	07-18-01	<.004	<.010	<.011	<.023	--	<.01	<.021	<.01	<.017	<.011
	07-18-01	<.004	<.010	<.011	<.023	--	<.01	<.002	<.01	<.017	<.011
KE Be 59	07-12-01	<.004	<.010	<.011	<.023	--	<.01	<.021	<.01	<.017	E.002
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	<.050	--	--	<.05	--	--	--	--	<.050
KE Cc 39	08-08-01	--	<.050	--	--	<.05	--	--	--	--	<.050
		SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)	SULFO- MET- RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, FLTRD, DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- BENURON METHYL WATER FLTRD REC (UG/L) (61159)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)
KE Bd 42	07-03-01	--	--	<.016	--	<.034	<.017	<.005	<.002	--	--
KE Bd 81	07-09-01	<.05	--	--	<.05	--	--	--	--	--	--
KE Be 46	07-18-01	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
	07-18-01	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
KE Be 59	07-12-01	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	<.05	--	--	<.05	--	--	--	--	--	--
KE Cc 39	08-08-01	<.05	--	--	<.05	--	--	--	--	--	--

E Estimated value.  
< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	TRI-FLUR-ALIN, WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3(4-CHLOR, METHYL, REC (UG/L) (61692)	VERNO-LATE, DISS, REC (UG/L) (04034)	1,1,1-TRI-CHLORO-ETHANE, TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE, TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHYL-ENE, TOTAL (UG/L) (34496)	1,1-DI-CHLORO-PENE, WAT, WH, TOTAL (UG/L) (77168)	123-TRI-CHLORO-PROPANE, WHOLE, TOTAL (UG/L) (77443)
KE Bd 42	07-03-01	--	<.009	--	--	--	--	--	--	--
KE Bd 81	07-09-01	<.05	--	--	<.05	--	--	--	--	--
KE Be 46	07-18-01	--	<.009	<.0242	--	--	--	--	--	--
KE Be 59	07-18-01	--	<.009	<.0242	--	<.03	<.06	<.04	<.04	<.2
	07-12-01	--	<.009	<.0242	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	<.05	--	--	<.05	--	--	--	--	--
KE Cc 39	08-08-01	<.05	--	--	<.05	--	--	--	--	--

WELL NUMBER	DATE	1,2-DIBROMO-ETHANE, WHOLE, TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE, TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE, TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE, TOTAL (UG/L) (34546)	2,2-DI-CHLORO-PRO-PANE, WAT, WH, TOTAL (UG/L) (77170)	2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA-NONE, WATER, WHOLE, TOTAL (UG/L) (77103)	ACETONE, WATER, WHOLE, TOTAL (UG/L) (81552)	ACRYLO-NITRILE, TOTAL (UG/L) (34215)	1,2,3-TRI-CHLORO-BENZENE, WAT, WH, REC (UG/L) (77613)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1	<.3
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	BENZENE 123-TRI-METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI-METHYL UNFILT REC (UG/L) (77222)	BENZENE 135-TRI-METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE, WATER, WHOLE, REC (UG/L) (77223)	BENZENE N-BUTYL UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.1	<.2	<.06	<.04	<.03	108	<.05	<.03	<.2	<.04
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE, WHOLE, UNFLTRD REC (UG/L) (81555)	BROMO-ETHENE, WATER, UNFLTRD REC (UG/L) (50002)	BROMO-FORM, TOTAL (UG/L) (32104)	CARBON DI-SULFIDE, WATER, WHOLE, TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE, TOTAL (UG/L) (32102)	CHLORO-BENZENE, TOTAL (UG/L) (34301)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06	<.03
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

KENT COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CHLORO-DI-BROMO-METHANE	CHLORO-ETHANE	CHLORO-FORM	CIS-1,2-DI-ETHENE	CIS-1,3-DI-PROPENE	DIBROMO-PROPANE	DI-BROMO-METHANE	BROMO-DI-CHLORO-METHANE	DI-CHLORO-DI-FLUORO-METHANE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD
		TOTAL (UG/L) (32105)	TOTAL (UG/L) (34311)	TOTAL (UG/L) (32106)	TOTAL (UG/L) (77093)	TOTAL (UG/L) (34704)	TOT. REC (UG/L) (82625)	RECOVER (UG/L) (30217)	TOTAL (UG/L) (32101)	TOTAL (UG/L) (34668)	RECOVER (UG/L) (81577)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.2	<.1	<.02	<.04	<.09	<.2	<.05	<.05	<.3	<.1
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--
		ETHANE, 1112-TETRA-CHLORO-WAT UNF REC	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC	ETHANE 12DICL SURROG VOC UNFLTRD REC	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER	ETHER ETHYL WATER UNFLTRD RECOVER	ETHER TERT-BUTYL UNFLTRD RECOVER	ETHER TERT-PENTYL UNFLTRD RECOVER	ETHER BENZENE TOTAL	FREON-113 WATER UNFLTRD REC	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER
		(UG/L) (77562)	(UG/L) (34516)	PERCENT (99832)	(UG/L) (34396)	(UG/L) (81576)	(UG/L) (50004)	(UG/L) (50005)	(UG/L) (34371)	(UG/L) (77652)	(UG/L) (81607)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.03	<.09	104	<.2	<.2	<.05	<.1	<.03	<.06	<2
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--
		HEXA-CHLORO-BUT-ADIENE TOTAL	ISO-DURENE WATER UNFLTRD RECOVER	METHAC-RYLATE ETHYL-WATER UNFLTRD RECOVER	METHAC-RYLATE METHYL-WATER UNFLTRD RECOVER	METH-ACRYLO-NITRILE WATER UNFLTRD RECOVER	METHANE BROMO-CHLORO-WAT REC	METHYL-ACRY-LATE WATER UNFLTRD RECOVER	METHYL-IODIDE WATER UNFLTRD RECOVER	METHYL-TERT-BUTYL WAT UNF REC	METHYL-BROMIDE TOTAL
		(UG/L) (39702)	(UG/L) (50000)	(UG/L) (73570)	(UG/L) (81597)	(UG/L) (81593)	(UG/L) (77297)	(UG/L) (49991)	(UG/L) (77424)	(UG/L) (78032)	(UG/L) (34413)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--
		METHYL-CHLO-RIDE TOTAL	METHYL-CHLO-RIDE TOTAL	METHYL-ETHYL-KETONE WATER WHOLE TOTAL	METHYL-ISO-BUTYL KETONE WAT. WH. TOTAL	META/PARA-XYLENE WATER UNFLTRD REC	NAPHTH-ALENE TOTAL	O-CHLORO-TOLUENE WATER WHOLE TOTAL	O-XYLENE WATER WHOLE TOTAL	P-ISO-PROPYL-TOLUENE WATER WHOLE REC	1234-TETRA-METHYL-BENZENE UNFLTRD REC
		(UG/L) (34418)	(UG/L) (34423)	(UG/L) (81595)	(UG/L) (78133)	(UG/L) (85795)	(UG/L) (34696)	(UG/L) (77275)	(UG/L) (77135)	(UG/L) (77356)	(UG/L) (49999)
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.2	<.2	<2	<.4	<.06	<.2	<.03	<.04	<.07	<.2
	07-12-01	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PROPENE		TETRA-CHLORO-ETHYL-ENE		TOLUENE		TOLUENE		TRANS-1,3-DI-CHLORO-PROPENE		TRI-CHLORO-ETHYL-ENE
		1,3-DI-CHLORO-PROPANE WAT. WH (UG/L) (77173)	3-CHLORO-WATER UNFLTRD (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	ETHYL-ENE TOTAL (UG/L) (34475)	D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TOLUENE TOTAL (UG/L) (34699)	TOLUENE TOTAL (UG/L) (39180)	
KE Bd 42	07-03-01	--	--	--	--	--	--	--	--	--	--	--
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--	--
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--	--
KE Be 59	07-18-01	<.1	<.1	<.04	<.1	101	<.06	<.06	<.05	<.09	<.04	--
	07-12-01	--	--	--	--	--	--	--	--	--	--	--
	07-12-01	--	--	--	--	--	--	--	--	--	--	--
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--	--
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--	--
		TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99337)	GROSS BETA, DIS- SOLVED WATER, AS FLTRD, (PCI/L) (03515)	GROSS BETA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99323)	RADIUM 226, DIS- SOLVED (PCI/L) (09503)	RADIUM 228, DIS- SOLVED (PCI/L) (81366)	
KE Bd 42	07-03-01	--	--	1.6	1.91	1.2	2.340	4.47	2.150	.12	.99	
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--	
KE Be 59	07-18-01	<.09	<.1	--	--	--	--	--	--	--	--	
	07-12-01	--	--	--	--	--	--	--	--	--	--	
	07-12-01	--	--	--	--	--	--	--	--	--	--	
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--	
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--	
		RA-224 2 SIGMA WATER FLTRD (PCI/L) (50834)	SS MDC, WATER, FLTRD (PCI/L) (99324)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, FLTRD (PCI/L) (76001)	SS MDC, WATER, FLTRD (PCI/L) (99325)	RA-228 2 SIGMA WATER, DISS, FLTRD (PCI/L) (76000)	SS MDC, WATER, FLTRD (PCI/L) (99326)	RADON 222 TOTAL (PCI/L) (82303)	RADON 222, SS MDC, WATER, UNFLTRD (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	
KE Bd 42	07-03-01	.04	.01300	.20	.05	.05000	.53	.86300	581	27.0	27	
KE Bd 81	07-09-01	--	--	--	--	--	--	--	--	--	--	
KE Be 46	07-18-01	--	--	--	--	--	--	--	--	--	--	
KE Be 59	07-18-01	--	--	--	--	--	--	--	299	25.0	21	
	07-12-01	--	--	--	--	--	--	--	468	23.0	23	
	07-12-01	--	--	--	--	--	--	--	464	23.0	23	
KE Bg 63	07-09-01	--	--	--	--	--	--	--	--	--	--	
KE Cc 39	08-08-01	--	--	--	--	--	--	--	--	--	--	
		WELL NUMBER	DATE	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)								
		KE Bd 42	07-03-01	.02								
		KE Bd 81	07-09-01	--								
		KE Be 46	07-18-01	--								
		KE Be 59	07-18-01	<.02								
			07-12-01	<.02								
		KE Bg 63	07-12-01	<.02								
		KE Cc 39	07-09-01	--								
			08-08-01	--								

< Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

623

MONTGOMERY COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)			
MO Be 62	08-30-01	1200	391927077120801	ENVIRONMENTAL	300IJMV	GW	8030	790	180			
MO Db 68	07-24-01	1200	390802077283801	ENVIRONMENTAL	231BLBF	GW	4040	260	252			
			DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MO Be 62	08-30-01	180	29	82	5.0	7.2	5.0	100	15.0	29.8	3.16	
MO Db 68	07-24-01	252	40	58	8.0	6.7	7.5	236	14.0	111	33.4	
			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)	ALKA-LINITY WAT DIS-TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	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 SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MO Be 62	08-30-01	5.32	1.16	5.1	9	11	13.9	<.2	7.3	4.0	<.040	
MO Db 68	07-24-01	6.79	.36	6.0	120	146	3.5	<.2	21.5	1.2	<.040	
			NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
MO Be 62	08-30-01	<.006	E2.53	E.034	E.035	--	<1	68	45.4	<.2	E.03	
MO Db 68	07-24-01	<.006	1.45	.072	.056	.172	<1	150	151	.4	E.03	
			IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
MO Be 62	08-30-01	M	150	11.1	12.3	12	<.01	<.04	1.3	214	<.050	
MO Db 68	07-24-01	<10	1350	<.08	<3.0	27	<.01	<.04	.68	7.2	<.050	

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

Geologic Unit (aquifer): 231BLBF - Balls Bluff Siltstone  
 300IJMV - Ijamsville Formation

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

MONTGOMERY COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ALA-CHLOR, WATER, DISS, REC, (46342)	ALPHA-HCH, D6 SUR SCD 1379 WTR, FLTRD, (90505)	AMETRYN WATER, DISS, REC, (38401)	ATRA-ZINE, WATER, DISS, REC, (39632)	BRO-MACIL, WATER, DISS, REC, (04029)	BUTA-CHLOR, WATER, DISS, REC, (04026)	BUTYL-ATE, WATER, DISS, REC, (04028)	CAR-BOXIN, WATER, DISS, REC, (04027)	CYANA-ZINE, WATER, DISS, REC, (04041)	SI-CLOATE, WATER, DISS, REC, (04031)
		MO Be 62	08-30-01	<.050	85	<.05	<.050	<.05	<.05	<.050	<.05
MO Db 68	07-24-01	<.050	95	<.05	E.007	<.05	<.05	<.050	<.05	<.200	<.05
		DEETHYL-ATRA-ZINE, WATER, DISS, REC, (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC, (04038)	DIAZI-NON D10 SUR SCD 1379 WTR, FLTRD, (90670)	DIPHEN-AMID, WATER, DISS, REC, (04033)	HEXA-ZINONE, WATER, DISS, REC, (04025)	METO-LACHLOR WATER DISSOLV (39415)	METRI-BUZIN SENCOR WATER DISSOLV (82630)	PRO-METON, WATER, DISS, REC, (04037)	PRO-METRYN, WATER, DISS, REC, (04036)	PROPA-CHLOR, WATER, DISS, REC, (04024)
MO Be 62	08-30-01	<.050	<.05	88	<.05	<.05	<.050	<.050	<.050	<.05	<.050
MO Db 68	07-24-01	E.017	<.05	89	<.05	<.05	<.050	<.050	<.050	<.05	<.050
		PROP-AZINE WATER, DISS, REC, (38535)	SI-MAZINE, WATER, DISS, REC, (04035)	SIMA-TRYN, WATER, DISS, REC, (04030)	TER-BACIL, WATER, DISS, REC, (04032)	TRI-FLUR-ALIN, WATER, DISS, REC, (04023)	VERNO-LATE, WATER, DISS, REC, (04034)	XYLENE WATER UNFLTRD REC, (81551)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC, (99834)	BENZENE TOTAL, (34030)	ETHANE 12DICL SURROG VOC UNFLTRD REC, (99832)
MO Be 62	08-30-01	<.05	<.050	<.05	<.05	<.05	<.05	<.2	106	<.20	103
MO Db 68	07-24-01	<.05	<.050	<.05	<.05	<.05	<.05	.6	95	<.20	105
		ETHYL-BENZENE TOTAL, (34371)	METHYL TERT-BUTYL ETHER WAT UNF REC, (78032)	META/PARA-XYLENE WATER UNFLTRD REC, (85795)	O-XYLENE WATER WHOLE, (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC, (99833)	TOLUENE TOTAL, (34010)	ALPHA COUNT, 2 SIGMA WAT DIS AS, (75987)	ALPHA RADIO. WATER, DISS, AS, (04126)	BETA, 2 SIGMA WATER, DISS, AS, (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, DISS, FLTRD, (99337)
MO Be 62	08-30-01	<.20	<.2	<.20	<.20	93	<.20	.71	1.13	.95	.98000
MO Db 68	07-24-01	.15	<.2	.39	.22	100	.25	.92	1.39	1.2	1.300
				GROSS BETA, DIS-SOLVED, (PCI/L AS, CS-137) (03515)	GROSS BETA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99323)	RADON 222, RADON 222, TOTAL, (PCI/L) (82303)	RADON 222, RADON 222, UNFLTRD TOTAL, (PCI/L) (99327)	RADON RN-222, 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)			
MO Be 62	08-30-01			1.86	1.450	4120	25.0	59			
MO Db 68	07-24-01			.65	1.810	1010	23.0	31			

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

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QUEEN ANNES COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
QA Be 36	08-08-01	1200	391255076005601	ENVIRONMENTAL	112CLMB	GW	8030	30.0	--
QA Cg 66	08-09-01	1000	390608075510001	ENVIRONMENTAL	112CLMB	GW	8030	70.0	--
QA Cg 67	08-08-01	1400	390850075533201	ENVIRONMENTAL	112CLMB	GW	8030	70.0	--
QA Db 14	03-15-01	1120	390055076184501	ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
	08-08-01	1035		BLANK	125AQUI	GW	--	15	--
	08-08-01	1040		ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
QA Db 15	03-15-01	1420	390022076191801	ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
	08-06-01	1320		ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
QA Db 17	03-14-01	1230	390059076191801	ENVIRONMENTAL	125AQUI	GW	8030	20.0	--
	08-06-01	1115		ENVIRONMENTAL	125AQUI	GW	8030	20.0	--
QA Db 23	03-15-01	1220	390033076184501	ENVIRONMENTAL	125AQUI	GW	8030	18.0	--
	08-06-01	1020		ENVIRONMENTAL	125AQUI	GW	8030	18.0	--
QA Db 27	03-14-01	1115	390117076191301	ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
	08-06-01	1215		ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
QA Db 30	08-15-01	1430	390201076182701	ENVIRONMENTAL	125AQUI	GW	4040	17.8	16.98
QA Db 32	08-15-01	1600	390201076182703	ENVIRONMENTAL	125AQUI	GW	4040	18.0	16.75
QA Db 34	08-14-01	1330	390023076174301	ENVIRONMENTAL	125AQUI	GW	4030	7.4	8.75
QA Db 35	08-16-01	1115	390119076191001	ENVIRONMENTAL	125AQUI	GW	4030	7.5	5.86
QA Db 37	08-14-01	1400	390023076174302	ENVIRONMENTAL	125AQUI	GW	4040	7.1	8.57
QA Db 40	08-29-01	1100	390217076181401	ENVIRONMENTAL	112CLMB	GW	4040	20	--
	08-29-01	1105		REPLICATE	112CLMB	GW	4040	20	--
QA De 30	09-10-01	0830	390221076031401	BLANK	125AQUI	GW	--	55	--
	09-10-01	0831		BLANK	125AQUI	GW	--	55	--
	09-10-01	0832		BLANK	125AQUI	GW	--	55	--
	09-10-01	0900		ENVIRONMENTAL	125AQUI	GW	--	55	--
QA Df 54	07-26-01	1000	390126075575401	ENVIRONMENTAL	112PCPC	GW	4040	58	--
	07-26-01	1005		REPLICATE	112PCPC	GW	4040	58	--
QA Df 55	07-26-01	1300	390126075575402	ENVIRONMENTAL	112CLMB	GW	4040	58	7.45
QA Df 61	08-09-01	1400	390128075574501	ENVIRONMENTAL	112CLMB	GW	8030	60.0	--
QA Dg 44	08-09-01	1130	390235075542201	ENVIRONMENTAL	125AQUI	GW	8030	70.0	--
QA Ea 39	03-13-01	1215	385825076202901	ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
	08-02-01	1300		ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
QA Ea 42	03-07-01	1520	385820076202501	ENVIRONMENTAL	125AQUI	GW	8030	18.0	--
	08-08-01	1245		ENVIRONMENTAL	125AQUI	GW	8030	18.0	--
QA Ea 45	03-15-01	1310	385554076213801	ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
	08-06-01	1425		ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
QA Ea 48	03-08-01	1300	385825076201201	ENVIRONMENTAL	125AQUI	GW	8030	5.0	--
	08-02-01	1430		ENVIRONMENTAL	125AQUI	GW	8030	5.0	--
QA Ea 59	03-14-01	1415	385505076215001	REPLICATE	125AQUI	GW	8030	10.0	--
	03-14-01	1420		ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
	08-07-01	1515		ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
QA Ea 60	03-07-01	1410	385701076212501	ENVIRONMENTAL	125AQUI	GW	8030	7.0	--
	08-08-01	1145		ENVIRONMENTAL	125AQUI	GW	8030	7.0	--
QA Ea 61	03-13-01	1120	385812076202801	ENVIRONMENTAL	125AQUI	GW	8030	18.0	--
	08-08-01	1335		ENVIRONMENTAL	125AQUI	GW	8030	18.0	--
QA Ea 77	08-13-01	1445	385718076211501	ENVIRONMENTAL	125AQUI	GW	4030	10.8	13.30
QA Ea 78	08-13-01	1540	385718076211502	ENVIRONMENTAL	125AQUI	GW	4040	11.8	13.42
QA Ea 79	08-14-01	1205	385757076200101	ENVIRONMENTAL	125AQUI	GW	4040	8.3	11.40
QA Ea 80	08-14-01	1030	385757076200102	BLANK	125AQUI	GW	--	8.5	--
	08-14-01	1035		ENVIRONMENTAL	125AQUI	GW	4030	8.5	11.61
QA Ea 81	08-13-01	1400	385718076211503	ENVIRONMENTAL	125AQUI	GW	4040	12.4	12.84
QA Ea 82	03-07-01	1135	385705076212002	BLANK	125AQUI	GW	--	10	--
	03-07-01	1138		BLANK	125AQUI	GW	--	10	--
	03-07-01	1140		ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
	08-02-01	1125		ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
QA Ea 83	03-07-01	1245	385705076212001	ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
	08-02-01	1030		ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
QA Eb 144	08-09-01	1230	385847076184801	ENVIRONMENTAL	125AQUI	GW	8030	15.0	--
QA Eb 155	08-14-01	1615	385843076155302	ENVIRONMENTAL	125AQUI	GW	4030	3.9	11.07
QA Eb 156	08-15-01	1200	385852076195201	ENVIRONMENTAL	125AQUI	GW	4030	12.0	14.61
QA Eb 157	08-15-01	1100	385852076195202	ENVIRONMENTAL	125AQUI	GW	4030	11.9	13.02
QA Fa 54	03-13-01	1325	385024076222501	ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
	08-07-01	1025		ENVIRONMENTAL	125AQUI	GW	8030	10.0	--
QA Fa 58	08-07-01	1315	385133076201201	ENVIRONMENTAL	125AQUI	GW	8030	7.1	--
QA Fa 60	03-13-01	1355	385254076201901	ENVIRONMENTAL	125AQUI	GW	8030	10.1	--

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
 112PCPC - Pleistocene-Pliocene Series  
 125AQUI - Aquia Formation

Station Type: GW - Ground Water

Sampling Method: 4030 - Suction pump  
 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

## QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
QA Be 36	08-08-01	80.00	80	70	17	5.0	--	--	9.4	5.0	96
QA Cg 66	08-09-01	54.00	54	44	23	4.0	--	--	7.5	5.6	57
QA Cg 67	08-08-01	33.00	33	27	20	4.0	--	--	3.6	4.8	118
QA Db 14	03-15-01	165.00	165	145	25	4.3	--	--	--	7.3	457
	08-08-01	165	--	--	--	--	--	--	--	--	--
	08-08-01	165.00	165	145	25	5.0	--	--	--	7.3	456
QA Db 15	03-15-01	103.00	103	96	30	8.3	--	--	--	6.9	1050
	08-06-01	103.00	103	96	25	6.0	--	--	--	6.9	1050
QA Db 17	03-14-01	--	--	--	30	4.3	--	--	--	7.4	680
	08-06-01	--	--	--	30	4.0	--	--	--	7.2	765
QA Db 23	03-15-01	185.00	185	165	25	4.2	--	--	--	7.3	447
	08-06-01	185.00	185	165	25	3.0	--	--	--	7.3	446
QA Db 27	03-14-01	145.00	145	110	33	4.8	--	--	--	7.2	1290
	08-06-01	145.00	145	110	35	4.0	--	--	--	7.0	1290
QA Db 30	08-15-01	220.00	220	210	80	7.5	--	--	--	6.3	18700
QA Db 32	08-15-01	116.00	116	106	55	4.3	--	--	--	6.7	9420
QA Db 34	08-14-01	180.00	180	170	25	30.0	--	--	--	7.4	520
QA Db 35	08-16-01	200.00	200	190	90	4.0	--	--	--	6.9	19100
QA Db 37	08-14-01	250.00	250	240	60	8.0	--	--	--	7.7	574
QA Db 40	08-29-01	35	35	25	70	.90	766	1	.1	4.3	611
	08-29-01	35	--	--	--	--	--	--	--	--	--
QA De 30	09-10-01	481	--	--	--	--	--	--	--	--	--
	09-10-01	481	--	--	--	--	--	--	--	--	--
	09-10-01	481	--	--	--	--	--	--	--	--	--
	09-10-01	481	--	--	--	490	--	--	.2	7.8	302
QA Df 54	07-26-01	42	42	36	60	.55	762	53	4.9	5.4	259
	07-26-01	42	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	26	26	23	50	.45	762	49	4.9	5.2	243
QA Df 61	08-09-01	45.00	--	--	56	8.0	--	--	--	5.1	202
QA Dg 44	08-09-01	110.00	110	90	30	4.0	--	--	.2	6.9	369
QA Ea 39	03-13-01	95.00	95	80	32	5.2	--	--	--	7.5	419
	08-02-01	95.00	95	80	25	4.6	--	--	--	7.5	430
QA Ea 42	03-07-01	120.00	120	100	30	3.3	--	--	--	7.8	621
	08-08-01	120.00	120	100	25	3.0	--	--	--	7.5	873
QA Ea 45	03-15-01	210.00	210	200	30	4.2	--	--	--	7.6	354
	08-06-01	210.00	210	200	20	6.0	--	--	--	7.5	362
QA Ea 48	03-08-01	160.00	160	129	30	6.3	--	--	--	7.5	1300
	08-02-01	160.00	160	129	30	7.5	--	--	--	7.4	1390
QA Ea 59	03-14-01	215.00	215	195	25	5.2	--	--	--	8.0	595
	03-14-01	215.00	215	195	25	5.2	--	--	--	8.0	595
	08-07-01	215.00	215	195	25	3.3	--	--	--	7.8	590
QA Ea 60	03-07-01	185.00	185	165	35	3.6	--	--	--	7.8	1640
	08-08-01	185.00	185	165	25	3.0	--	--	--	7.6	1720
QA Ea 61	03-13-01	170.00	170	150	25	5.6	--	--	--	7.3	4270
	08-08-01	170.00	170	150	20	4.0	--	--	--	7.2	4780
QA Ea 77	08-13-01	205.00	205	195	110	12.0	--	--	--	7.2	19200
QA Ea 78	08-13-01	135.00	135	125	50	7.1	--	--	--	7.7	321
QA Ea 79	08-14-01	298.00	298	288	115	7.5	--	--	--	9.2	364
QA Ea 80	08-14-01	130	--	--	--	--	--	--	--	--	--
	08-14-01	130.00	130	120	40	17.1	--	--	--	8.1	351
QA Ea 81	08-13-01	310.00	310	300	110	8.0	--	--	--	7.9	574
QA Ea 82	03-07-01	170	--	--	--	--	--	--	--	--	--
	03-07-01	170	--	--	--	--	--	--	--	--	--
	03-07-01	170.00	170	155	30	6.0	--	--	--	7.5	1190
	08-02-01	170.00	170	155	25	3.0	--	--	--	7.5	1160
QA Ea 83	03-07-01	170.00	170	160	35	5.0	--	--	--	--	371
	08-02-01	170.00	170	160	25	4.0	--	--	--	7.7	360
QA Eb 144	08-09-01	240.00	240	220	25	4.6	--	--	--	7.9	419
QA Eb 155	08-14-01	245.00	245	235	55	10.0	--	--	--	8.0	329
QA Eb 156	08-15-01	220.00	220	210	60	7.5	--	--	--	7.0	>20000
QA Eb 157	08-15-01	120.00	120	110	55	30.0	--	--	--	7.6	334
QA Fa 54	03-13-01	260.00	260	240	20	6.3	--	--	--	7.7	351
	08-07-01	260.00	260	240	25	3.0	--	--	--	7.8	352
QA Fa 58	08-07-01	280.00	280	260	25	4.0	--	--	--	7.8	463
QA Fa 60	03-13-01	240.00	240	230	30	4.2	--	--	--	8.1	419

&gt; Actual value is known to be greater than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
QA Be 36	08-08-01	--	14.8	27	6.76	2.42	2.84	4.7	4	4	8.1
QA Cg 66	08-09-01	--	15.2	10	2.81	.648	1.13	6.8	7	9	5.1
QA Cg 67	08-08-01	33.0	14.8	25	5.36	2.94	2.25	22.5	4	6	19.6
QA Db 14	03-15-01	10.5	14.2	--	--	--	--	--	--	--	13.5
	08-08-01	--	--	--	--	--	--	--	--	--	<.1
	08-08-01	31.5	15.5	--	--	--	--	--	--	--	14.3
QA Db 15	03-15-01	10.8	13.7	--	--	--	--	--	--	--	120
	08-06-01	30.5	17.5	--	--	--	--	--	--	--	120
QA Db 17	03-14-01	12.5	13.8	--	--	--	--	--	--	--	74.8
	08-06-01	31.0	15.9	--	--	--	--	--	--	--	110
QA Db 23	03-15-01	11.3	14.4	--	--	--	--	--	--	--	15.8
	08-06-01	29.5	15.9	--	--	--	--	--	--	--	16.5
QA Db 27	03-14-01	10.5	14.5	--	--	--	--	--	--	--	258
	08-06-01	31.0	15.4	--	--	--	--	--	--	--	275
QA Db 30	08-15-01	29.5	16.4	--	--	--	--	--	--	--	6060
QA Db 32	08-15-01	30.5	16.5	--	--	--	--	--	--	--	2650
QA Db 34	08-14-01	29.5	15.5	--	--	--	--	--	--	--	9.1
QA Db 35	08-16-01	28.5	17.0	--	--	--	--	--	--	--	6180
QA Db 37	08-14-01	29.5	16.5	--	--	--	--	--	--	--	12.0
QA Db 40	08-29-01	29.5	17.5	50	4.99	9.02	.92	82.0	--	--	96.7
	08-29-01	--	--	--	--	--	--	--	--	--	--
QA De 30	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	16.1	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	29.0	19.0	71	15.1	8.11	1.97	19.2	16	20	29.2
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	34.0	15.0	62	14.5	6.10	1.97	19.8	8	9	28.3
QA Df 61	08-09-01	--	16.0	38	7.92	4.40	1.34	19.9	8	9	22.1
QA Dg 44	08-09-01	--	16.3	160	51.9	7.64	4.99	12.2	188	230	2.1
QA Ea 39	03-13-01	8.0	14.7	--	--	--	--	--	--	--	30.7
	08-02-01	31.0	15.9	--	--	--	--	--	--	--	33.5
QA Ea 42	03-07-01	9.0	14.2	--	--	--	--	--	--	--	90.8
	08-08-01	36.0	16.5	--	--	--	--	--	--	--	168
QA Ea 45	03-15-01	11.3	14.9	--	--	--	--	--	--	--	6.3
	08-06-01	32.5	16.4	--	--	--	--	--	--	--	7.1
QA Ea 48	03-08-01	9.0	14.8	--	--	--	--	--	--	--	309
	08-02-01	31.0	15.9	--	--	--	--	--	--	--	336
QA Ea 59	03-14-01	12.5	15.3	--	--	--	--	--	--	--	87.6
	03-14-01	12.5	15.3	--	--	--	--	--	--	--	86.7
	08-07-01	36.5	16.7	--	--	--	--	--	--	--	90.5
QA Ea 60	03-07-01	8.5	15.1	--	--	--	--	--	--	--	446
	08-08-01	36.0	16.8	--	--	--	--	--	--	--	461
QA Ea 61	03-13-01	7.8	14.5	--	--	--	--	--	--	--	1340
	08-08-01	37.0	16.0	--	--	--	--	--	--	--	1440
QA Ea 77	08-13-01	28.5	15.8	--	--	--	--	--	--	--	6100
QA Ea 78	08-13-01	30.0	16.3	--	--	--	--	--	--	--	4.6
QA Ea 79	08-14-01	28.5	16.6	--	--	--	--	--	--	--	1.7
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	E.1
	08-14-01	26.5	15.1	--	--	--	--	--	--	--	2.5
QA Ea 81	08-13-01	25.5	16.1	--	--	--	--	--	--	--	70.1
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	<.1
	03-07-01	--	--	--	--	--	--	--	--	--	<.1
	03-07-01	10.8	14.8	--	--	--	--	--	--	--	286
	08-02-01	31.5	17.3	--	--	--	--	--	--	--	284
QA Ea 83	03-07-01	8.3	14.6	--	--	--	--	--	--	--	8.4
	08-02-01	24.5	15.9	--	--	--	--	--	--	--	6.0
QA Eb 144	08-09-01	37.0	16.6	--	--	--	--	--	--	--	5.1
QA Eb 155	08-14-01	30.5	16.3	--	--	--	--	--	--	--	2.2
QA Eb 156	08-15-01	32.5	15.8	--	--	--	--	--	--	--	7510
QA Eb 157	08-15-01	30.5	14.8	--	--	--	--	--	--	--	4.2
QA Fa 54	03-13-01	9.0	15.5	--	--	--	--	--	--	--	10.6
	08-07-01	36.5	16.2	--	--	--	--	--	--	--	11.5
QA Fa 58	08-07-01	34.5	17.5	--	--	--	--	--	--	--	9.0
QA Fa 60	03-13-01	10.5	14.7	--	--	--	--	--	--	--	9.3

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

## QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
QA Be 36	08-08-01	--	--	--	.2	E.029	--	<.006	6.39	<.060	<.020
QA Cg 66	08-09-01	--	--	--	.2	E.036	--	<.006	2.85	<.060	<.020
QA Cg 67	08-08-01	--	--	--	14.0	E.023	--	<.006	7.35	<.060	<.020
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.2	.35	29.6	59.2	<.040	.21	.006	E12.3	--	.018
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.2	.07	20.9	.5	<.040	E.06	<.006	15.5	--	<.020
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.2	.07	21.3	.2	<.040	E.08	<.006	16.1	--	<.020
QA Df 61	08-09-01	--	--	--	14.2	E.027	--	<.006	7.38	<.060	<.020
QA Dg 44	08-09-01	--	--	--	3.0	.184	--	<.006	E.025	<.060	E.015
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHOS-PHATE, ORTHO-DIS-SOLVED (MG/L AS PO4) (00660)	TOTAL COLIFORM, M ENDO MF, WTR (COL/100 ML) (31501)	E COLI, NA-MUG, WATER (COL/100 ML) (50278)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BIARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
QA Be 36	08-08-01	--	--	--	58	55	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	54	34	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	116	102	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	.055	>80	<1	353	--	694	.05	.4	125	1.50
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	<.2	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	<2.0	--	--
	09-10-01	--	--	--	--	--	--	--	25.1	--	--
QA Df 54	07-26-01	--	<1	<1	180	174	5	E.04	<.2	250	.77
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	183	169	6	E.03	<.2	208	.52
QA Df 61	08-09-01	--	--	--	122	107	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	246	196	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)
QA Be 36	08-08-01	--	--	--	--	--	<10	--	--	5.2	--
QA Cg 66	08-09-01	--	--	--	--	--	<10	--	--	<3.0	--
QA Cg 67	08-08-01	--	--	--	--	--	<10	--	--	41.1	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	249	.26	.8	20.1	168	30	3.74	20.1	95.0	<.2
	08-29-01	--	--	--	--	--	--	--	--	--	--
QA De 30	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<7	.10	<.8	.61	233	M	5.56	1.9	22.3	<.2
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<7	.12	1.5	.28	.6	10	.23	1.8	24.2	<.2
QA Df 61	08-09-01	--	--	--	--	--	80	--	--	13.1	--
QA Dg 44	08-09-01	--	--	--	--	--	90	--	--	145	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.  
M Presence of material verified but not quantified.



QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	2,4,5-T SURROG WATER FLTRD REC PERCENT (99958)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	98	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	48	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	202	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	25.5	.4	<1.0	44.0	E.03	E.1	389	2.1	--	90
	08-29-01	--	--	--	--	--	--	--	--	--	--
QA De 30	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	1.29	E.2	<1.0	149	E.02	<.2	28	.53	--	77
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	2.76	E.2	<1.0	154	E.02	<.2	8	.60	--	78
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	142	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	47	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	2,4-D METHYL ESTER, WATER, FLTRD REC (UG/L) (50470)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT, FLT GF 0.7U REC (UG/L) (49308)	3-KETO CARBO-FURAN WATER, FLTRD REC (UG/L) (50295)	ACETO-CHLOR ESA FLTRD GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD GF REC (UG/L) (61030)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	<.050	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	<.050	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	<.050	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.009	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.009	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.009	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	<.050	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	<.050	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	08-02-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	08-02-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ALA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA-CHLOR (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SULFOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ALPHA-HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (90505)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
QA Be 36	08-08-01	--	--	<.050	--	--	--	--	100	<.05	<.050
QA Cg 66	08-09-01	--	--	<.050	--	--	--	--	105	<.05	<.050
QA Cg 67	08-08-01	--	--	<.050	--	--	--	--	96	<.05	E.021
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.05	.080	<.002	<.02	<.01	<.04	<.005	--	--	<.007
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.05	.940	<.002	<.02	<.01	<.04	<.005	--	--	.023
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.05	.670	<.002	<.02	<.01	<.04	<.005	--	--	.015
QA Df 61	08-09-01	--	--	<.050	--	--	--	--	96	<.05	E.008
QA Dg 44	08-09-01	--	--	<.050	--	--	--	--	97	<.05	<.050
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BARBAN	BENDIO-	BEN-	BEN-	BEN-	BENTA-	BRO-	BRO-	BUTA-	BUTYL-
		SURROG- ATE WTR FLT SCD 2060, PERCENT (90640)	CARB, WATER FLTRD REC (UG/L) (50299)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD REC (UG/L) (50300)	FURON METHYL WAT FLT REC (UG/L) (61693)	ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	MACIL, WATER, DISS, REC (UG/L) (04029)	MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	CHLOR, WATER, DISS, REC (UG/L) (04026)	ATE, WATER, DISS, REC (UG/L) (04028)
QA Be 36	08-08-01	--	--	--	--	--	--	<.05	--	<.05	<.050
QA Cg 66	08-09-01	--	--	--	--	--	--	<.05	--	<.05	<.050
QA Cg 67	08-08-01	--	--	--	--	--	--	<.05	--	<.05	<.050
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	107	<.025	<.010	<.004	<.0158	<.01	<.03	<.02	--	<.002
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	114	<.025	<.010	<.004	<.0158	<.01	<.03	<.02	--	<.002
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	135	<.025	<.010	<.004	<.0158	<.01	<.03	<.02	--	<.002
QA Df 61	08-09-01	--	--	--	--	--	--	<.05	--	<.05	<.050
QA Dg 44	08-09-01	--	--	--	--	--	--	<.05	--	<.05	<.050
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CAF-FEINE, WATER, FLTRD REC (UG/L) (50305)	CAF-FEINE-C13 SURROG, WAT FLT REC PERCENT (99959)	CAR-BARYL, WATER, FLTRD GF 0.7U (UG/L) (49310)	CAR-BARYL, WATER, FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD GF 0.7U (UG/L) (49309)	CARBO-FURAN, WATER, FLTRD 0.7 U GF, REC (UG/L) (82674)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CHLOR-AMBEN, METHYL ESTER, WATER, FLTRD (UG/L) (61188)	CHLORI-MURON, WATER, FLTRD REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT, FLT GF 0.7U REC (UG/L) (49306)
QA Be 36	08-08-01	--	--	--	--	--	--	<.05	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	<.05	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	<.05	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.010	97	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.010	90	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.010	106	<.03	<.041	<.01	<.020	--	<.02	<.010	<.04
QA Df 61	08-09-01	--	--	--	--	--	--	<.05	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	<.05	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	08-02-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER, FLTRD, GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO-PROPYL ATRAZIN, DISS, REC (UG/L) (04039)	DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L) (04038)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)
QA Be 36	08-08-01	--	--	<.200	<.05	--	--	<.050	--	<.05	--
QA Cg 66	08-09-01	--	--	<.200	<.05	--	--	<.050	--	<.05	--
QA Cg 67	08-08-01	--	--	<.200	<.05	--	--	.075	--	<.05	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	97
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.005	<.01	<.018	<.01	<.01	<.003	E.062	E.01	E.01	104
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.005	<.01	<.018	<.01	<.01	<.003	E.076	E.02	E.01	97
QA Df 61	08-09-01	--	--	<.200	<.05	--	--	.129	--	<.05	--
QA Dg 44	08-09-01	--	--	<.200	<.05	--	--	<.050	--	<.05	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIAZI-NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DIMETH-ENAMID OXA, WATER, FLT, WAT FLT REC (UG/L) (62482)	DIMETH-ENAMID, ESA, REC (UG/L) (61951)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	DISUL-FOTON WATER, FLTRD, GF, REC (UG/L) (82677)
QA Be 36	08-08-01	99	--	--	--	--	--	--	--	<.05	--
QA Cg 66	08-09-01	99	--	--	--	--	--	--	--	<.05	--
QA Cg 67	08-08-01	93	--	--	--	--	--	--	--	<.05	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03	<.021
QA Df 61	08-09-01	93	--	--	--	--	--	--	--	<.05	--
QA Dg 44	08-09-01	93	--	--	--	--	--	--	--	<.05	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUFEN- ACET, ESA, FLT, WAT FLT (UG/L) (61952)	FLUFE- NACET OXA WATER REC (UG/L) (62483)	FLUMET- SULAM WATER FLTRD REC (UG/L) (61694)	FLUO- METURON, WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03	<.003
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.01	<.002	<.009	<.005	<.0006	<.05	<.0500	E.0257	<.03	<.003
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.01	<.002	<.009	<.005	<.0005	<.05	<.0500	E.0347	<.03	<.003
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

&lt; Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	HCH	HEXA-	HYDROXY	IMAZ-	IMAZ-	IMID-	LINDANE	LINURON	LIN-	MALA- THION, DIS- SOLVED
		ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	ZINONE, WATER, DISS, REC (UG/L) (04025)	ATRA- ZINE WATER FLTRD REC (UG/L) (50355)	AQUIN WATER FLTRD REC (UG/L) (50356)	THAPYR WATER FLTRD REC (UG/L) (50407)	ACLOP- RID WATER FLTRD REC (UG/L) (61695)		DIS- SOLVED REC (UG/L) (39341)	WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	
QA Be 36	08-08-01	--	<.05	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	<.05	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	<.05	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	87	--	<.008	E.006	<.017	<.0068	<.004	<.01	<.035	<.027
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	93	--	<.002	E.006	<.017	<.0068	<.004	<.01	<.035	<.027
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	91	--	<.002	E.003	<.017	<.0068	<.004	<.01	<.035	<.027
QA Df 61	08-09-01	--	<.05	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	<.05	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL WATER, FLTRD, GF 0.7U REC (UG/L) (61696)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METOLA-CHLOR ESA FLTRD GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD GF REC (UG/L) (61044)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	.12	<.05
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	6.49	2.06
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	17.0	4.80
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	08-02-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	MOL-INATE WATER FLTRD 0.7 U (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL WATER FLTRD REC (UG/L) (50410)
QA Be 36	08-08-01	E.007	<.050	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	E.004	<.050	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	E.009	<.050	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02	<.013
QA Df 61	08-09-01	E.017	<.050	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	E.003	<.050	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	08-02-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	<.050	<.05
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	<.050	<.05
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	<.050	<.05
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	<.050	<.05
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	<.050	<.05
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	08-02-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	08-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PRO-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROP-AZINE WATER DISS REC (UG/L) (38535)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP-ICONA-ZOLE, WATER, FLTRD, GF 0.7U REC (UG/L) (50471)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)
QA Be 36	08-08-01	--	<.050	--	--	<.05	--	--	--	--	<.050
QA Cg 66	08-09-01	--	<.050	--	--	<.05	--	--	--	--	<.050
QA Cg 67	08-08-01	--	<.050	--	--	<.05	--	--	--	--	<.050
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.004	<.010	<.011	<.023	--	<.01	<.021	E.01	<.017	<.011
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.004	<.010	<.011	<.023	--	<.01	<.002	<.01	<.017	<.011
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	<.004	<.010	<.011	<.023	--	<.01	<.003	<.01	<.017	<.011
QA Df 61	08-09-01	--	<.050	--	--	<.05	--	--	--	--	<.050
QA Dg 44	08-09-01	--	<.050	--	--	<.05	--	--	--	--	<.050
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	SULFO-MET-RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)
QA Be 36	08-08-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Cg 66	08-09-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Cg 67	08-08-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
QA Df 61	08-09-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Dg 44	08-09-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3(4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (34501)	1,1-DI-CHLORO-PRO-PANE, WAT, WH TOTAL (UG/L) (77168)	123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)
QA Be 36	08-08-01	M	--	--	<.05	--	--	--	--	--	--
QA Cg 66	08-09-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Cg 67	08-08-01	M	--	--	<.05	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	--	<.009	<.0242	--	E.06	<.06	E.05	<.04	<.03	<.2
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	--	<.009	<.0242	--	<.03	<.06	<.04	<.04	<.03	<.2
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	<.009	<.0242	--	--	--	--	--	--	--
QA Df 61	08-09-01	M	--	--	<.05	--	--	--	--	--	--
QA Dg 44	08-09-01	<.05	--	--	<.05	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	1,2-DIBROMO	1,2-DI-	1,2-DI-	TRANS-	2,2-DI	2BUTENE	2-HEXA-	ACETONE	ACRYLO-	1,2,3-	
		ETHANE	CHLORO-	CHLORO-	1,2-DI-	CHLORO-	PRO-	TRANS-1			NONE	CHLORO
		WATER	ETHANE	PROPANE	ETHENE	WAT, WH	CHLORO	4-DI-	WATER	WHOLE	NITRILE	BENZENE
		WHOLE	ETHANE	PROPANE	ETHENE	WAT, WH	UNFLTRD	WHOLE	WHOLE	WHOLE	REC	WAT, WH
		TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	RECOVER	TOTAL	TOTAL	TOTAL	TOTAL	REC
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(77651)	(32103)	(34541)	(34546)	(77170)	(73547)	(77103)	(81552)	(34215)	(77613)	
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--	--
	03-15-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 15	08-06-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 17	03-14-01	--	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	
	07-26-01	--	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.1	<.2	<.06	<.04	<.03	75	<.05	<.03	<.2	<.04
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.1	<.2	<.06	<.04	<.03	94	<.05	<.03	<.2	<.04
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BENZENE	BENZENE	BENZENE	BROMO- BENZENE WATER, WHOLE, (UG/L)	BROMO- ETHENE WATER UNFLTRD (UG/L)	BROMO- FORM TOTAL (UG/L)	CARBON	CARBON	CHLORO- BENZENE TOTAL (UG/L)	
		O-DI- CHLORO- WATER UNFLTRD REC (34536)	SEC BUTYL- WATER UNFLTRD REC (77350)	TERT- BUTYL- WATER UNFLTRD REC (77353)				BENZENE TOTAL (34030)	DI- SULFIDE WATER WHOLE TOTAL (77041)		TETRA- CHLO- RIDE TOTAL (32102)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	
	08-08-01	--	--	--	--	--	--	--	--	--	
	08-08-01	--	--	--	--	--	--	--	--	--	
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	
	03-14-01	--	--	--	--	--	--	--	--	--	
	08-06-01	--	--	--	--	--	--	--	--	--	
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	
	03-14-01	--	--	--	--	--	--	--	--	--	
QA Db 30	08-06-01	--	--	--	--	--	--	--	--	--	
	08-15-01	--	--	--	--	--	--	--	--	--	
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	
QA Db 40	08-29-01	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06	<.03
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06	<.03
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-ETHENE TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO-CHLORO-PROPANE TOTAL (UG/L) (82625)	DI-BROMO-METHANE TOTAL (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.2	<.1	E.08	<.04	<.09	<.5	<.05	<.05	<.3	<.1
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.2	<.1	E.03	<.04	<.09	<.2	<.05	<.05	<.3	<.1
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.03	<.09	114	<.2	<.2	<.05	<.1	<.03	<.06	<2
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.03	<.09	109	<.2	<.2	<.05	<.1	<.03	<.06	<2
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC-RYLATE ETHYL-WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC-RYLATE METHYL-WATER UNFLTRD RECOVER (UG/L) (81597)	METH-ACRYLO-NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	METHYL-ACRY-LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL-IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL-TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-BROMIDE TOTAL (UG/L) (34413)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1	1.8	<.3
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METHYL-CHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER TOTAL (UG/L) (81595)	METHYL-ISO-BUTYL KETONE WAT. WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER TOTAL (UG/L) (77275)	O-XYLENE WATER TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER TOTAL (UG/L) (77356)	1234-TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.2	<.2	<2	<.4	<.06	<.5	<.03	<.04	<.07	<.2
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.2	<.2	<2	<.4	<.06	<.2	<.03	<.04	<.07	<.2
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PROPENE			TOLUENE			TOLUENE P-CHLOR WATER UNFLTRD	TOLUENE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)
		1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L)	3- CHLORO- WATER UNFLTRD RECOVER (UG/L)	STYRENE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L)				
QA Be 36	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 17	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 27	08-06-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Db 40	08-29-01	<.1	<.1	<.04	E.1	93	<.06	<.06	<.05	<.09	<.04
QA De 30	08-29-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--	--	--	--	--
QA Df 54	07-26-01	<.1	<.1	<.04	<.1	100	<.06	<.06	<.05	<.09	<.04
	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 55	07-26-01	--	--	--	--	--	--	--	--	--	--
QA Df 61	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI-CHLORO-FLUORO-METHANE	VINYL CHLORIDE	RADON 222	RADON 222, UNFLTRD	RN-222 2 SIGMA WATER, WHOLE,	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
		TOTAL (UG/L) (34488)	TOTAL (UG/L) (39175)	TOTAL (PCI/L) (82303)	(PCI/L) (99327)	TOTAL, (PCI/L) (76002)	(22703)
QA Be 36	08-08-01	--	--	--	--	--	--
QA Cg 66	08-09-01	--	--	--	--	--	--
QA Cg 67	08-08-01	--	--	--	--	--	--
QA Db 14	03-15-01	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--
QA Db 15	03-15-01	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--
QA Db 17	03-14-01	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--
QA Db 23	03-15-01	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--
QA Db 27	03-14-01	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--
QA Db 30	08-15-01	--	--	--	--	--	--
QA Db 32	08-15-01	--	--	--	--	--	--
QA Db 34	08-14-01	--	--	--	--	--	--
QA Db 35	08-16-01	--	--	--	--	--	--
QA Db 37	08-14-01	--	--	--	--	--	--
QA Db 40	08-29-01	<.09	<.1	545	26.0	26	.22
QA De 30	08-29-01	--	--	561	26.0	26	--
	09-10-01	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--
	09-10-01	--	--	--	--	--	--
QA Df 54	07-26-01	<.09	<.1	735	24.0	28	.03
	07-26-01	--	--	687	24.0	27	--
QA Df 55	07-26-01	--	--	673	24.0	27	E.01
QA Df 61	08-09-01	--	--	--	--	--	--
QA Dg 44	08-09-01	--	--	--	--	--	--
QA Ea 39	03-13-01	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--
QA Ea 42	03-07-01	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--
QA Ea 45	03-15-01	--	--	--	--	--	--
	08-06-01	--	--	--	--	--	--
QA Ea 48	03-08-01	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--
QA Ea 59	03-14-01	--	--	--	--	--	--
	03-14-01	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--
QA Ea 60	03-07-01	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--
QA Ea 61	03-13-01	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--
QA Ea 77	08-13-01	--	--	--	--	--	--
QA Ea 78	08-13-01	--	--	--	--	--	--
QA Ea 79	08-14-01	--	--	--	--	--	--
QA Ea 80	08-14-01	--	--	--	--	--	--
	08-14-01	--	--	--	--	--	--
QA Ea 81	08-13-01	--	--	--	--	--	--
QA Ea 82	03-07-01	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--
	03-07-01	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--
QA Ea 83	03-07-01	--	--	--	--	--	--
	08-02-01	--	--	--	--	--	--
QA Eb 144	08-09-01	--	--	--	--	--	--
QA Eb 155	08-14-01	--	--	--	--	--	--
QA Eb 156	08-15-01	--	--	--	--	--	--
QA Eb 157	08-15-01	--	--	--	--	--	--
QA Fa 54	03-13-01	--	--	--	--	--	--
	08-07-01	--	--	--	--	--	--
QA Fa 58	08-07-01	--	--	--	--	--	--
QA Fa 60	03-13-01	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
QA Fa 60	08-07-01	1215	385254076201901	ENVIRONMENTAL	125AQUI	GW	8030	10.1	240.00
QA Fa 63	03-07-01	1120	385434076215601	ENVIRONMENTAL	125AQUI	GW	8030	15.0	235.00
	08-09-01	1120		ENVIRONMENTAL	125AQUI	GW	8030	15.0	235.00
QA Fa 64	03-08-01	1445	385454076214901	ENVIRONMENTAL	125AQUI	GW	8030	5.0	231.00
	08-09-01	1025		ENVIRONMENTAL	125AQUI	GW	8030	5.0	231.00
QA Fa 66	03-22-01	1205	385236076215201	ENVIRONMENTAL	125AQUI	GW	8030	13.0	270.00
	08-01-01	1130		ENVIRONMENTAL	125AQUI	GW	8030	13.0	270.00
QA Fa 67	03-16-01	1120	385023076222201	ENVIRONMENTAL	125AQUI	GW	8030	7.3	270.00
	08-07-01	1120		ENVIRONMENTAL	125AQUI	GW	8030	7.3	270.00
QA Fa 72	03-15-01	1020	385254076201301	ENVIRONMENTAL	125AQUI	GW	8030	12.0	220.00
	08-01-01	1230		ENVIRONMENTAL	125AQUI	GW	8030	12.0	220.00
QA Fa 74	03-16-01	1021	385227076215401	ENVIRONMENTAL	125AQUI	GW	8030	10.0	280.00
	08-01-01	0950		BLANK	125AQUI	GW	--	10	280
	08-01-01	0955		BLANK	125AQUI	GW	--	10	280
	08-01-01	1045		ENVIRONMENTAL	125AQUI	GW	8030	10.0	280.00
QA Fa 75	03-13-01	1440	385155076200401	ENVIRONMENTAL	125AQUI	GW	8030	10.0	200.00
	08-07-01	1415		ENVIRONMENTAL	125AQUI	GW	8030	10.0	200.00

WELL NUMBER	DATE	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
QA Fa 60	08-07-01	240	230	25	3.0	8.1	414	38.0	21.9	9.8
QA Fa 63	03-07-01	235	200	28	6.3	7.3	462	7.8	15.5	7.6
	08-09-01	235	200	20	4.6	7.2	460	35.5	16.5	8.6
QA Fa 64	03-08-01	231	191	35	5.4	7.8	1060	9.0	13.9	263
	08-09-01	231	191	25	4.6	7.7	1190	32.0	17.8	287
QA Fa 66	03-22-01	270	250	45	5.4	7.8	509	8.8	15.6	19.3
	08-01-01	270	250	25	3.8	7.9	510	27.0	17.5	20.2
QA Fa 67	03-16-01	270	250	30	4.5	7.7	348	9.5	15.5	10.6
	08-07-01	270	250	20	3.3	7.8	346	36.5	16.4	11.6
QA Fa 72	03-15-01	220	200	25	4.7	8.0	492	9.5	15.1	13.6
	08-01-01	220	200	25	3.0	8.0	489	28.0	16.7	13.7
QA Fa 74	03-16-01	--	--	25	5.6	7.8	457	8.5	15.2	11.0
	08-01-01	--	--	--	--	--	--	--	--	<.1
	08-01-01	--	--	--	--	--	--	--	--	<.1
	08-01-01	--	--	25	3.0	7.8	450	26.0	14.6	10.6
QA Fa 75	03-13-01	200	180	40	8.8	7.9	517	10.0	14.1	19.9
	08-07-01	200	180	30	6.0	7.9	517	36.0	19.5	21.3

Geologic Unit (aquifer): 125AQUI - Aquia Formation

Station Type: GW - Ground Water

Sampling Method: 8030 - Grab sample at water-supply tap

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ST. MARYS COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
SM Dd 70	08-24-01	0631	381921076372601	BLANK	125AQUI	GW	--	125	--
	08-24-01	0632		BLANK	125AQUI	GW	--	125	--
	08-24-01	0633		BLANK	125AQUI	GW	--	125	--
	08-24-01	0702		ENVIRONMENTAL	125AQUI	GW	8030	125	--
SM Dd 72	05-15-01	1730	381626076393401	ENVIRONMENTAL	217PPSCL	GW	4040	110	132.74
SM Ff 36	05-15-01	1245	380724076251901	ENVIRONMENTAL	217PPSCU	GW	4040	5.5	35.04
SM Ff 65	08-07-01	0800	380823076255501	ENVIRONMENTAL	217PPSCU	GW	4040	10.0	41.34

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
SM Dd 70	08-24-01	545	--	--	--	--	--	--	--	--
	08-24-01	545	--	--	--	--	--	--	--	--
	08-24-01	545	--	--	--	--	--	--	--	--
	08-24-01	545	--	--	70.0	.3	8.3	197	--	18.0
SM Dd 72	05-15-01	1340.00	1330	1300	570	70.0	--	420	18.0	22.5
SM Ff 36	05-15-01	618.00	618	594	120	15.0	--	582	21.0	18.0
SM Ff 65	08-07-01	884.00	874	--	1320	400	--	508	--	22.0

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	ANC BICAR-BONATE IT FIELD (MG/L AS HCO3) (00450)	ANC CAR-BONATE IT FIELD (MG/L AS CO3) (00447)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
SM Dd 70	08-24-01	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--
SM Dd 72	05-15-01	2	.45	.189	1.26	97.2	--	--	2.0	.7
SM Ff 36	05-15-01	6	1.52	.463	7.01	126	--	--	2.0	1.1
SM Ff 65	08-07-01	4	.80	.388	4.11	127	285	332	7	2.1

DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)
SM Dd 70	08-24-01	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--
SM Dd 72	05-15-01	.01	14.5	15.2	<.047	.163	5	267	255	--
SM Ff 36	05-15-01	<.01	14.3	.2	--	--	<1	349	328	--
SM Ff 65	08-07-01	.04	12.1	12.5	--	--	--	330	4	<.05

Geologic Unit (aquifer): 125AQUI - Aquia Formation  
 217PPSCL - Lower Patapsco Aquifer In the Patapsco Formation  
 217PPSCU - Upper Patapsco Aquifer In the Patapsco Formation

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8030 - Grab sample at water supply tap

QUALITY OF GROUND WATER DATA

ST. MARYS COUNTY, MARYLAND--Continued

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

	DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
SM Dd 70	08-24-01	<.2	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	<2.0	--	--	--	--	--	--	--	--	--
	08-24-01	9.6	--	--	--	--	--	--	--	--	--
SM Dd 72	05-15-01	<.2	--	--	--	--	--	--	--	50	380
SM Ff 36	05-15-01	--	--	--	--	--	--	--	--	<10	100
SM Ff 65	08-07-01	<.2	12.4	<.06	318	<.04	<.8	<.02	.3	30	--

	DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
SM Dd 70	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
SM Dd 72	05-15-01	--	--	8.1	11	--	--	--	--	--	--
SM Ff 36	05-15-01	--	--	<3.2	4	--	--	--	--	--	--
SM Ff 65	08-07-01	<.08	4.8	11.3	--	2.4	<.06	<.3	<1.0	16.5	<.04

	DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	ALPHA COUNT, 2 SIGMA WAT DIS AS (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, AS FLTRD, (PCI/L) (99337)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, 2X CL, SS MDC, WATER, AS FLTRD, (PCI/L) (99323)
SM Dd 70	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
	08-24-01	--	--	--	--	--	--	--	--	--	--
SM Dd 72	05-15-01	--	--	4.2	2.2	3.2	1.42	2.0	5.300	.99	3.490
SM Ff 36	05-15-01	--	--	--	.1	--	--	--	--	--	--
SM Ff 65	08-07-01	<.2	3	--	1.6	2.6	.27	1.8	5.060	4.26	2.660

	DATE	RADIUM 228, 2X CL, 2 SIGMA WATER, DISS, (PCI/L) (76000)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
SM Dd 70	08-24-01	--	--	037
	08-24-01	--	--	037
	08-24-01	--	--	037
	08-24-01	--	--	037
SM Dd 72	05-15-01	--	--	037
SM Ff 36	05-15-01	--	--	037
SM Ff 65	08-07-01	.33	.72500	M <.02

< Actual value is known to be less than the value shown.  
M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

SOMMERSET COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW SURFACE (WATER LEVEL) (FEET) (72019)			
SO Af 26	09-12-01	1400	381535075391701	ENVIRONMENTAL	122PCMK	GW	8030	30	--			
SO Cd 55	09-12-01	1700	380703075461701	ENVIRONMENTAL	122PCMK	GW	8030	5	--			
SO De 44	08-02-01	0930	380027075410802	ENVIRONMENTAL	112CLMB	GW	4040	5	2.11			
	08-02-01	0935	--	REPLICATE	--	--	4040	--	--			
			DEPTH TO BOT- TOM OF WELL, TOTAL (FEET) (72008)	DEPTH TO TOP OF SAMPLE VAL (FT) (72016)	PUMP OR FLOW PERIOD TO SAM- PLING (MIN) (72004)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)			
SO Af 26	09-12-01	75	75	65	25	3.2	--	.2	6.1	73		
SO Cd 55	09-12-01	75	65	55	17	4.0	--	.4	6.2	444		
SO De 44	08-02-01	43	43	40	90	.48	773	1.0	6.4	165		
	08-02-01	--	--	--	--	--	--	--	--	--		
			TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA- LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR- BONATE WATER FIELD (MG/L AS HCO3) (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SO Af 26	09-12-01	--	17.1	10.0	1.60	1.46	1.87	7.1	24	30	5.6	
SO Cd 55	09-12-01	--	16.8	136	38.2	9.73	4.64	15.6	103	126	18.2	
SO De 44	08-02-01	27.0	15.0	46.3	10.2	5.06	2.62	7.2	68	82	9.8	
	08-02-01	--	--	46.8	10.3	5.06	2.66	7.2	--	--	9.8	
			FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
SO Af 26	09-12-01	--	--	--	2.0	E.025	--	E.004	--	<.050	.262	
SO Cd 55	09-12-01	--	--	--	92.7	.523	--	.016	--	<.050	1.14	
SO De 44	08-02-01	.2	.08	33.5	2.5	.334	.40	<.006	.069	E.030	--	
	08-02-01	.2	.10	33.8	2.4	.335	.44	E.005	.103	E.029	--	
			PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	TOTAL COLI- FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, NA-MUG, WATER (COL/ 100 ML) (50278)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BIARIUM, DIS- SOLVED (UG/L AS BA) (01005)
SO Af 26	09-12-01	.063	.193	--	--	63	38.3	--	--	--	--	
SO Cd 55	09-12-01	.066	.202	--	--	280	264	--	--	--	--	
SO De 44	08-02-01	<.020	--	<1	<1	124	126	1	<.05	E.1	14.0	
	08-02-01	<.020	--	--	--	125	--	1	<.05	<.2	13.8	

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
 122PCMK - Pocomoke aquifer

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

SOMMERSET COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
SO Af 26	09-12-01	--	--	--	--	--	--	3840	--	--	104
SO Cd 55	09-12-01	--	--	--	--	--	--	21000	--	--	515
SO De 44	08-02-01	E.04	31	<.04	<.8	.03	<.2	13500	<.08	8.9	235
	08-02-01	<.06	33	<.04	<.8	.02	<.2	13500	<.08	8.7	231
		MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	29.6
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	70.2
SO De 44	08-02-01	<.2	<.06	<.3	<1.0	62.1	<.04	<.2	3	2.0	--
	08-02-01	<.2	<.06	<.3	<1.0	62.2	<.04	<.2	2	--	--
		2,4,5-T SURROG WATER, FLTRD REC PERCENT (99958)	2,4-D METHYL ESTER, WATER, FLTRD REC (50470)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (38746)	2,6-DI- ETHYL ANILINE WAT,FLT 0.7 U GF, REC (82660)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (49308)	3-KETO CARBO- FURAN WATER FLTRD REC (50295)	ACETO- CHLOR ESA WATER FLTRD GF REC (61029)	ACETO- CHLOR OA WATER FLTRD GF REC (61030)	ACETO- CHLOR, WATER FLTRD REC (49260)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	<.050
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	<.050
SO De 44	08-02-01	88	<.009	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004
	08-02-01	--	--	--	--	--	--	--	--	--	--
		ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (49315)	ALA- CHLOR OA FLTRD GF REC (61031)	ALA- CHLOR, (ESA) WAT,FLT GF 0.7U REC (50009)	ALA- CHLOR, WATER, DISS, REC, (46342)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (49314)	ALDI- CARB, WATER, ALPHA BHC DIS- SOLVED (49312)	ALPHA- HCH, D6 SUR SCD 1379 WTR, SOLVED (34253)	ALPHA- HCH, D6 SUR SCD 1379 WTR, SOLVED (90505)	AMETRYN WATER, DISS, REC, (38401)
SO Af 26	09-12-01	--	--	--	<.050	--	--	--	--	75	<.05
SO Cd 55	09-12-01	--	--	--	<.050	--	--	--	--	81	<.05
SO De 44	08-02-01	<.01	<.05	<.050	<.002	<.02	<.01	<.04	<.005	--	--
	08-02-01	--	--	--	--	--	--	--	--	--	--
		ATRA- ZINE, WATER, DISS, REC (39632)	BARBAN SURROG- ATE WTR FLT SCD 2060, 9060 RE PERCENT (90640)	BENDIO- CARB, WATER FLTRD REC (50299)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (82673)	BENOMYL WATER METHYL FLTRD REC (50300)	BEN- SUL- FURON METHYL WAT FLT REC (61693)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (38711)	BRO- MACIL, WATER, DISS, REC (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (49311)	BUTA- CHLOR, WATER, DISS, REC (04026)
SO Af 26	09-12-01	<.050	--	--	--	--	--	--	<.05	--	<.05
SO Cd 55	09-12-01	<.050	--	--	--	--	--	--	<.05	--	<.05
SO De 44	08-02-01	<.007	138	<.025	<.010	<.004	<.0158	<.01	<.03	<.02	--
	08-02-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

## QUALITY OF GROUND WATER DATA

SOMMERSET COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAF- FINE, WATER FLTRD REC (UG/L) (50305)	CAF- FEINE- C13 SURROG WAT FLT REC (UG/L) (99959)	CAR- BARYL, WATER, FLTRD GF 0.7U REC (UG/L) (49310)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN, WATER, FLTRD GF 0.7U REC (UG/L) (49309)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)	CHLOR- AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI- MURON, WATER FLTRD REC (UG/L) (50306)
SO Af 26	09-12-01	<.050	--	--	--	--	--	--	<.05	--	--
SO Cd 55	09-12-01	<.050	--	--	--	--	--	--	<.05	--	--
SO De 44	08-02-01	<.002	E.003	128	<.03	<.041	<.01	<.020	--	<.02	<.010
	08-02-01	--	--	--	--	--	--	--	--	--	--
		CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED REC (UG/L) (38933)	CLOPYR- ALID, WATER, FLTRD GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04039)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)
SO Af 26	09-12-01	--	--	--	<.020	<.05	--	--	<.050	--	<.05
SO Cd 55	09-12-01	--	--	--	<.020	<.05	--	--	<.050	--	<.05
SO De 44	08-02-01	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04
	08-02-01	--	--	--	--	--	--	--	--	--	--
		DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DI- AZINON, DIS- SOLVED REC (UG/L) (39572)	DICAMBA WATER, FLTRD GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED REC (UG/L) (39381)	DIMETH- ENAMID OXA, WATER FLT, REC (UG/L) (62482)	DIMETH- ENAMID, ESA, WAT FLT REC (UG/L) (61951)	DINOSEB WATER, FLTRD GF 0.7U REC (UG/L) (49301)	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)
SO Af 26	09-12-01	--	83	--	--	--	--	--	--	--	<.05
SO Cd 55	09-12-01	--	92	--	--	--	--	--	--	--	<.05
SO De 44	08-02-01	105	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03
	08-02-01	--	--	--	--	--	--	--	--	--	--
		DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER FLTRD GF 0.7U REC (UG/L) (49300)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN- URON, WATER, FLTRD GF 0.7U REC (UG/L) (49297)	FLUFE- NACET OXA WATER FLT, REC (UG/L) (61952)	FLUMET- SULAM WATER FLTRD REC (UG/L) (61694)	FLUO- METURON WATER, FLTRD GF 0.7U REC (UG/L) (38811)	
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.021	<.01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03
	08-02-01	--	--	--	--	--	--	--	--	--	--
		FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	HYDROXY ATRA- ZINE WATER FLTRD REC (UG/L) (50355)	IMAZ- AQUIN WATER FLTRD REC (UG/L) (50356)	IMAZE- THAPYR WATER FLTRD REC (UG/L) (50407)	IMID- ACLOP- RID WATER FLTRD REC (UG/L) (61695)	LINDANE DIS- SOLVED REC (UG/L) (39341)	LINURON WATER, FLTRD GF 0.7U REC (UG/L) (38478)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
SO Af 26	09-12-01	--	--	<.05	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	<.05	--	--	--	--	--	--	--
SO De 44	08-02-01	<.003	73	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035
	08-02-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

SOMMERSET COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	MCPA, WATER, FLTRD, DIS-SOLVED (UG/L) (39532)	MCPB, WATER, FLTRD, REC (UG/L) (38482)	METAL-AXYL WATER, FLTRD, REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, REC (UG/L) (61696)	METH-OMYL, WATER, FLTRD, REC (UG/L) (49296)	METHYL-AZIN-PHOS, WAT FLT (UG/L) (82686)	METHYL-PARA-THION, WAT FLT (UG/L) (82667)	METOLA-CHLOR ESA, FLTRD, GF REC (UG/L) (61043)	
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	
SO De 44	08-02-01	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.05	
	08-02-01	--	--	--	--	--	--	--	--	--	
		METOLA-CHLOR OA, FLTRD, 0.7 UM, GF REC (UG/L) (61044)	METO-LACHLOR WATER, DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER, DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	MOL-INATE WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U, REC (UG/L) (49294)	NICOSUL-FURON, WATER, FLTRD, REC (UG/L) (50364)	NORFLUR-WATER, FLTRD, GF 0.7U, REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U, REC (UG/L) (49292)
SO Af 26	09-12-01	--	<.050	<.050	--	--	--	--	--	--	
SO Cd 55	09-12-01	--	<.050	<.050	--	--	--	--	--	--	
SO De 44	08-02-01	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	
	08-02-01	--	--	--	--	--	--	--	--	--	
		OXAMYL, OXIME WATER, FLTRD, REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U, REC (UG/L) (38866)	P, P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER, FILTRD, 0.7 U, GF, REC (UG/L) (82669)	PENDI-METH-ALIN, WAT FLT (UG/L) (82683)	PER-METHRIN CIS, WAT FLT (UG/L) (82687)	PHORATE WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U, REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	<.050	
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	<.050	
SO De 44	08-02-01	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.015	
	08-02-01	--	--	--	--	--	--	--	--	--	
		PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PRON-AMIDE WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82679)	PRO-PARGITE WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82685)	PROP-AZINE WATER, FLTRD, DISS, REC (UG/L) (38535)	PHAM, WATER, FLTRD, GF 0.7U, REC (UG/L) (49236)	PROP-ICONA-ZOLE, WATER, FLTRD, REC (UG/L) (50471)	PRO-POXUR, WATER, FLTRD, GF 0.7U, REC (UG/L) (38538)	SIDURON, WATER, FLTRD, REC (UG/L) (38548)
SO Af 26	09-12-01	<.05	--	<.050	--	--	<.05	--	--	--	
SO Cd 55	09-12-01	<.05	--	<.050	--	--	<.05	--	--	--	
SO De 44	08-02-01	--	<.004	<.010	<.011	<.023	--	<.01	<.021	<.017	
	08-02-01	--	--	--	--	--	--	--	--	--	
		SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	SULFO-MET-RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU-THIURON WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82670)	TER-BACIL, WATER, FLTRD, DISS, REC (UG/L) (04032)	TER-BACIL, WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82665)	TER-BUFOS, WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82675)	THIO-BENCARB, WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82681)	TRIAL-LATE, WATER, FLTRD, 0.7 U, GF, REC (UG/L) (82678)	TRI-BENURON, METHYL WATER, FLTRD, (UG/L) (61159)
SO Af 26	09-12-01	<.050	<.05	--	--	<.05	--	--	--	--	
SO Cd 55	09-12-01	<.050	<.05	--	--	<.05	--	--	--	--	
SO De 44	08-02-01	<.011	--	<.009	<.016	<.01	<.034	<.017	<.005	<.01	
	08-02-01	--	--	--	--	--	--	--	--	--	

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QUALITY OF GROUND WATER DATA

SOMMERSET COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	TRI-FLUR-ALIN, WAT FLT 0.7 U REC (UG/L) (82661)	UREA 3(4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHENE TOTAL (UG/L) (34501)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)
SO Af 26	09-12-01	--	<.05	--	--	<.05	--	--	--	--	--
SO Cd 55	09-12-01	--	<.05	--	--	<.05	--	--	--	--	--
SO De 44	08-02-01	<.02	--	<.009	<.0242	--	<.03	<.06	<.04	<.04	<.03
	08-02-01	--	--	--	--	--	--	--	--	--	--
		123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE 4-DI-CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA-NONE WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO-NITRILE TOTAL (UG/L) (34215)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
	08-02-01	--	--	--	--	--	--	--	--	--	--
		1,2,3-TRI-CHLORO-BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI-METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI-METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI-METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.3	<.1	<.2	<.06	<.04	<.03	98	<.05	<.03	<.2
	08-02-01	--	--	--	--	--	--	--	--	--	--
		BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WHOLE, TOTAL (UG/L) (81555)	BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO-WATER FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06
	08-02-01	--	--	--	--	--	--	--	--	--	--
		CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLURO-METHANE TOTAL (UG/L) (34668)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.03	<.2	<.1	<.02	<.04	<.09	<.2	<.05	<.05	<.3
	08-02-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

SOMMERSET COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DI-ISO-PROPYLETH-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHANE 12DICL SURROG VOC UNFLTRD PERCENT (99832)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.1	<.03	<.09	103	<.2	<.2	<.05	<.1	<.03	<.06
	08-02-01	--	--	--	--	--	--	--	--	--	--
		FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC-RYLATE-ETHYL-WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC-RYLATE-METHYL-WATER UNFLTRD RECOVER (UG/L) (81597)	METH-ACRYLO-NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO-CHLORO-WAT REC (UG/L) (77297)	METHYL-ACRY-LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL-IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL-TERT-BUTYL ETHER WATER UNFLTRD REC (UG/L) (78032)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1	<.2
	08-02-01	--	--	--	--	--	--	--	--	--	--
		METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL-ISO-BUTYL KETONE WATER WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WHOLE TOTAL (UG/L) (77275)	O-XYLENE WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.3	<.2	<.2	<2	<.4	<.06	<.2	<.03	<.04	<.07
	08-02-01	--	--	--	--	--	--	--	--	--	--
		1234-TETRA-METHYL-BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3-CHLORO-WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.2	<.1	<.1	<.04	<.1	100	<.06	<.06	<.05	<.09
	08-02-01	--	--	--	--	--	--	--	--	--	--
		TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	RADON 222 TOTAL (PCI/L) (82303)	RADON 222, 2X CL, SS MDC, WATER, WHOLE, UNFLTRD TOTAL, (PCI/L) (99327)	RN-222 2 SIGMA WATER, WHOLE, UNFLTRD TOTAL, (PCI/L) (76002)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)			
SO Af 26	09-12-01	--	--	--	--	--	--	--	--	--	--
SO Cd 55	09-12-01	--	--	--	--	--	--	--	--	--	--
SO De 44	08-02-01	<.04	<.09	<.1	164	32.0	23	<.02	<.02	<.02	<.02
	08-02-01	--	--	--	--	--	--	<.02	<.02	<.02	<.02

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

TALBOT COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION	NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	
TA Be 91	08-31-01	0900	385154076003801		ENVIRONMENTAL	112CLMB	GW	8030	70	33	
		DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED AS CA (00915)
		31	26	24	6.0	7.0	5.0	139	15.2	40.3	7.74
		MAGNE- SIUM, DIS- SOLVED AS MG (00925)	POTAS- SIUM, DIS- SOLVED AS K (00935)	SODIUM, DIS- SOLVED AS NA (00930)	ALKA- LINITY WAT DIS TOT IT FIELD AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED AS CL (00940)	SULFATE DIS- SOLVED AS SO4 (00945)	NITRO- GEN, AMMONIA SOLVED AS N (00608)	NITRO- GEN, NITRITE SOLVED AS N (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED AS N (00631)
		5.10	1.72	7.5	5	6	12.1	.3	<.040	<.006	E10.1
		PHOS- PHORUS DIS- SOLVED AS P (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED AS P (00671)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED AS FE (01046)	MANGA- NESE, DIS- SOLVED AS MN (01056)	CARBON DIOXIDE DIS- SOLVED (MG/L) (00405)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, DIS- SOLVED (UG/L) (46342)	ALPHA- HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (90505)
		<.060	E.024	86	37.2	M	17.8	104	<.050	<.050	91
		AMETRYN WATER, DISS, REC (UG/L) (38401)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA- CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)
		<.05	.052	<.05	<.05	<.050	<.05	<.020	<.05	<.050	<.05
		DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP- AZINE WATER DISS, REC (UG/L) (38535)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
		97	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05	<.050
					SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)			
					<.05	<.05	<.05	<.05			

E Estimated value.  
 < Actual value is known to be less than the value shown.  
 M Presence of material verified but not quantified.

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
 Station Type: GW - Ground Water  
 Sampling Method: 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

WASHINGTON COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
WA Ah 146	10-19-00	1230	394125077473201	ENVIRONMENTAL	361MRBG	GW	8030	570	70
WA Aj 75	10-17-00	1030	394253077390501	ENVIRONMENTAL	371CCCG	GW	8030	615	75
WA Ak 99	10-17-00	1400	394219077335301	ENVIRONMENTAL	377TMSN	GW	8030	670	32
WA Ch 60	10-03-00	0900	393211077470001	ENVIRONMENTAL	371CCCG	GW	8030	465	85
WA Ci 131	10-03-00	1400	393024077402901	ENVIRONMENTAL	377TMSN	GW	8030	465	80
WA Di 103	10-03-00	1200	392836077442701	ENVIRONMENTAL	371CCCG	SP	4010	475	--

DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	PH WATER WHOLE FIELD (STAND-ARD) (US/CM) (00059)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
70	25	40	4.0	5.2	457	14.9	63.7	10.2	9.29
75	21	27	3.0	6.9	714	12.4	350	121	11.7
32	20	17	3.0	6.9	965	13.8	419	111	34.4
85	25	30	4.0	7.1	638	15.7	330	113	11.4
80	61	20	4.0	7.0	579	14.2	269	82.3	15.4
--	--	--	--	7.1	521	--	262	67.6	22.8

POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	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)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
3.87	52.2	27	33	94.5	<.2	11.3	18.9	<.041	<.006
2.74	5.6	286	349	16.3	.2	11.3	21.8	<.041	<.006
3.77	31.9	339	413	71.9	.2	10.7	26.9	<.041	<.006
2.33	4.6	271	330	13.6	.2	13.3	21.5	<.020	<.010
3.90	14.8	245	299	25.1	.2	10.8	11.4	<.020	<.010
1.95	5.2	213	260	9.2	.3	13.0	19.7	<.020	<.010

NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C (PLAT-INUM-COBALT) UNITS (00080)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70300)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	
2.19	<.060	<.018	<1	244	226	<.2	E.04	110	610
11.2	<.060	<.018	<1	420	412	<.2	<.06	<10	<10
10.1	<.060	<.018	<1	544	539	<.2	<.06	<10	<10
7.54	<.050	<.010	<1	368	376	E.1	<.06	<10	<10
3.32	<.050	<.010	<1	322	326	E.1	<.06	<10	<20
8.24	<.050	<.010	<1	296	304	E.1	<.06	<10	<20

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 361MRBG - Martinsburg Shale  
 371CCCG - Conococheague Group  
 377TMSN - Tomstown Dolomite

Station Type: GW - Ground Water  
 SP - Spring

Sampling Method: 4010 - Thief sample  
 8030 - Grab sample at water-supply tap

## QUALITY OF GROUND WATER DATA

WASHINGTON COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA- HCH, D6 SUR SCD 1379 WTR, FLTRD, PERCENT (UG/L) (90505)	AMETRYN WATER, DISS, REC, (UG/L) (38401)
		WA Ah 146	10-19-00	1.33	23.7	26	<.23	1.9	328	<.050	<.050
WA Aj 75	10-17-00	.23	<3.2	<3	<.23	.71	70.9	<.050	<.050	92	<.05
WA Ak 99	10-17-00	.24	3.9	4	<.23	1.1	83.8	<.050	<.050	96	<.05
WA Ch 60	10-03-00	.47	<2.2	<3	<.23	.43	36.3	<.050	<.050	106	<.05
WA Ci 131	10-03-00	.14	<2.2	<3	<.23	.29	47.5	<.050	<.050	103	<.05
WA Di 103	10-03-00	<.08	<2.2	<3	<.23	.33	32.7	<.050	<.050	98	<.05

WELL NUMBER	DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA- CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA- BOXIN, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO- PROPYL WATER, DISS, REC (UG/L) (04038)	DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (90670)
		WA Ah 146	10-19-00	E.013	<.05	<.05	<.050	<.05	<.050	<.05	E.014
WA Aj 75	10-17-00	.383	<.05	<.05	<.050	<.05	<.050	<.05	.959	.22	79
WA Ak 99	10-17-00	.230	<.05	<.05	<.050	<.05	<.050	<.05	.643	.12	79
WA Ch 60	10-03-00	.173	<.05	<.05	<.050	<.05	<.050	<.05	.436	.09	94
WA Ci 131	10-03-00	E.025	<.05	<.05	<.050	<.05	<.050	<.05	.074	<.05	90
WA Di 103	10-03-00	E.036	<.05	<.05	<.050	<.05	<.050	<.05	.125	.08	85

WELL NUMBER	DATE	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP- AZINE WATER DISS REC (UG/L) (38535)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)
		WA Ah 146	10-19-00	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05
WA Aj 75	10-17-00	<.05	<.05	E.005	<.050	<.050	<.05	<.050	E.02	.096	<.05
WA Ak 99	10-17-00	<.05	<.05	<.050	<.050	<.050	<.05	<.050	E.01	E.031	<.05
WA Ch 60	10-03-00	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05	E.028	<.05
WA Ci 131	10-03-00	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05
WA Di 103	10-03-00	<.05	<.05	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05

WELL NUMBER	DATE	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT (99834)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)		
		WA Ah 146	10-19-00	<.05	<.05	<.05	<.2	96	<.20	110	<.20
WA Aj 75	10-17-00	<.05	<.05	<.05	<.2	88	<.20	120	<.20	<.2	<.20
WA Ak 99	10-17-00	<.05	<.05	<.05	<.2	88	<.20	118	<.20	<.2	<.20
WA Ch 60	10-03-00	<.05	<.05	<.05	<.2	92	<.20	114	<.20	<.2	<.20
WA Ci 131	10-03-00	<.05	<.05	<.05	<.2	91	<.20	113	<.20	<.2	<.20
WA Di 103	10-03-00	<.05	<.05	<.05	<.2	95	<.20	114	<.20	<.2	<.20

WELL NUMBER	DATE	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (UG/L) (34010)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. 2 SIGMA WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L) AS CS-137) (03515)
		WA Ah 146	10-19-00	<.20	98	<.20	2.5	<3.00
WA Aj 75	10-17-00	<.20	101	<.20	2.7	<3.00	4.5	<4.00
WA Ak 99	10-17-00	<.20	99	<.20	2.3	<3.00	4.7	<4.00
WA Ch 60	10-03-00	<.20	100	<.20	2.4	<3.00	4.5	5.26
WA Ci 131	10-03-00	<.20	98	<.20	2.4	<3.00	4.6	6.54
WA Di 103	10-03-00	<.20	98	<.20	2.1	<3.00	4.2	<4.00

E Estimated value.

&lt; Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)			
WI Cf 226	09-12-01	1200	382418075314201	ENVIRONMENTAL	--	GW	8030	50	--			
WI Cg 59	09-12-01	1000	382033075275801	ENVIRONMENTAL	112CLMB	GW	8030	40	--			
WI Ch 50	09-24-01	1000	382403075233201	ENVIRONMENTAL	112CLMB	GW	4040	44	--			
	09-26-01	1000		BLANK	112CLMB	GW	4040	44	--			
	09-26-01	1010		BLANK	112CLMB	GW	4040	44	--			
WI Ch 51	08-21-01	1435	382403075233202	BLANK	112CLMB	GW	4040	44	--			
	08-21-01	1440		BLANK	112CLMB	GW	8010	44	--			
	08-21-01	1500		ENVIRONMENTAL	112CLMB	GW	4040	44	2.43			
			DEPTH TO BOT-TOM OF WELL, TOTAL (FEET) (72008)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72016)	DEPTH OF PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	PUMP OR FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)		
WI Cf 226	09-12-01	--	--	--	25	4.3	--	--	.3	5.3	59	
WI Cg 59	09-12-01	75	75	70	22	3.0	--	--	1.8	6.1	49	
WI Ch 50	09-24-01	70	70	65	60	.63	763	1.1	.1	5.2	114	
	09-26-01	70	--	--	--	--	--	--	--	--	--	
	09-26-01	70	--	--	--	--	--	--	--	--	--	
WI Ch 51	08-21-01	20	--	--	--	--	--	--	--	--	--	
	08-21-01	20	--	--	--	--	--	--	--	--	--	
	08-21-01	20	20	17	60	.30	763	4.1	.4	4.4	1650	
			TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
WI Cf 226	09-12-01	--	14.7	8.23	2.15	.696	1.25	10.7	15	19	11.7	
WI Cg 59	09-12-01	--	16.6	6.69	1.91	.466	1.20	6.8	14	17	4.3	
WI Ch 50	09-24-01	23.5	19.5	30.7	8.73	2.06	1.91	10.1	8	10	11.5	
	09-26-01	--	--	--	--	--	--	--	--	--	--	
	09-26-01	--	--	--	--	--	--	--	--	--	--	
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--	
	08-21-01	--	--	--	--	--	--	--	--	--	--	
	08-21-01	28.0	16.0	150	39.1	12.3	9.27	205	--	--	339	
			FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA + DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
WI Cf 226	09-12-01	--	--	--	1.7	<.040	--	<.006	--	--	<.050	
WI Cg 59	09-12-01	--	--	--	.6	<.040	--	<.006	--	--	.378	
WI Ch 50	09-24-01	<.2	.03	26.4	1.2	<.040	E.07	.011	7.50	--	7.51	
	09-26-01	--	--	--	--	--	--	--	--	--	--	
	09-26-01	--	--	--	--	--	--	--	--	--	--	
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--	
	08-21-01	--	--	--	--	--	--	--	--	--	--	
	08-21-01	<.2	.11	20.7	13.0	E.027	.14	<.006	--	37.6	37.5	

E Estimated value.  
 < Actual value is known to be less than the value shown.

Geologic Unit (aquifer): 112CLMB - Columbia aquifer

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8010 - Other  
 8030 - grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	PHOS-PHORUS	PHOS-ORTHORUS	TOTAL COLI-FORM, M ENDO MF, WTR	E COLI, NA-MUG, WATER	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED	ALUM-INUM, DIS-SOLVED	ANTI-MONY, DIS-SOLVED	ARSENIC, DIS-SOLVED	BARIUM, DIS-SOLVED
		(MG/L AS P) (00666)	(MG/L AS P) (00671)	(COL/100 ML) (31501)	(COL/100 ML) (50278)	(MG/L) (70300)	(MG/L) (70301)	(UG/L) (01106)	(UG/L) (01095)	(UG/L) (01000)	(UG/L) (01005)
WI Cf 226	09-12-01	<.060	<.020	--	--	69	37.4	--	--	--	--
WI Cg 59	09-12-01	<.060	<.020	--	--	54	25.6	--	--	--	--
WI Ch 50	09-24-01	--	<.020	<1	<1	107	101	3	.05	E.1	237
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	<.020	--	--	838	--	217	<.05	<.2	1350
		BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
WI Cf 226	09-12-01	--	--	--	--	--	--	20	--	--	13.2
WI Cg 59	09-12-01	--	--	--	--	--	--	10	--	--	25.5
WI Ch 50	09-24-01	1.07	9	.29	<.8	7.69	8.9	190	.61	2.8	77.7
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	16.2	228	1.34	E.7	207	8.7	10	8.47	8.4	689
		MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	CARBON DIOXIDE, SOLVED (MG/L AS CO2) (00405)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	138
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	28.1
WI Ch 50	09-24-01	<.2	4.29	<.3	<1.0	177	<.04	.6	55	1.00	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.2	161	.4	<1.0	531	.67	<.2	495	2.7	--
		2,4,5-T SURROG WATER FLTRD REC PERCENT (99958)	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DIETHYL ANILINE, WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN, WAT,FLT REC (UG/L) (49308)	3-KETO CARBO-FURAN, WATER FLTRD REC (UG/L) (50295)	ACETO-CHLOR ESA, FLTRD GF REC (UG/L) (61029)	ACETO-CHLOR OA, FLTRD GF REC (UG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	<.050
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	<.050
WI Ch 50	09-24-01	83	<.009	<.02	<.02	<.002	<.01	<1.50	1.10	<.05	<.004
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	E88	<.009	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004

E Estimated value.  
 < Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIAZ-INON	DIAZI-NON D10 SRG	DI-AZINON, DIS-SOLVED	DICAMBA WATER, FLTRD, GF 0.7U	DICHLOR PROP, WATER, FLTRD, GF 0.7U	DI-ELDRIN, DIS-FLT, REC	DIMETH-ENAMID WATER	DIMETH-ENAMID, ESA, WAT FLT	DINOSEB WATER, FLTRD, GF 0.7U	DIPHEN-AMID, WATER, DISS, REC
		GF, REC (91063)	WTR, FLTRD (90670)	(UG/L) (39572)	(UG/L) (38442)	(UG/L) (49302)	(UG/L) (39381)	(UG/L) (62482)	(UG/L) (61951)	(UG/L) (49301)	(UG/L) (04033)
WI Cf 226	09-12-01	--	96	--	--	--	--	--	--	--	<.05
WI Cg 59	09-12-01	--	85	--	--	--	--	--	--	--	<.05
WI Ch 50	09-24-01	89	--	<.005	<.01	<.01	<.005	<.0500	<.05	E.01	<.03
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	137	--	<.005	<.01	<.01	<.005	<.0500	<.05	<.01	<.03
		DISUL-FOTON WATER, FLTRD, GF, REC (82677)	DIURON, WATER, FLTRD, GF 0.7U (UG/L) (49300)	EPTC WATER, FLTRD, GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT (UG/L) (82663)	ETHO-PROP WATER, FLTRD, GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U (UG/L) (49297)	FLUFE-NACET OXA, ACET, WAT FLT (UG/L) (61952)	FLUFE-NACET OXA, ACET, WAT FLT (UG/L) (62483)	FLUMET-SULAM FLTRD, REC (UG/L) (61694)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.021	<.01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.021	<.01	<.002	<.009	<.005	<.03	<.05	<.0500	<.0110	<.03
		FONOFOS WATER, DISS, REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT (UG/L) (91065)	HEXA-ZINONE, WATER, REC (UG/L) (04025)	HYDROXY ATRA-ZINE WATER, FLTRD, REC (UG/L) (50355)	IMAZ-AQUIN WATER, FLTRD, REC (UG/L) (50356)	IMAZE-THAPYR WATER, FLTRD, REC (UG/L) (50407)	IMID-ACLOP-RID WATER, FLTRD, REC (UG/L) (61695)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER, FLTRD, GF, REC (UG/L) (82666)
WI Cf 226	09-12-01	--	--	<.05	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	<.05	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.003	89	--	<.008	<.016	<.017	<.0068	<.004	<.01	<.035
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.003	105	--	<.008	<.016	E.061	E.0741	<.004	<.01	<.035
		MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U (UG/L) (38487)	METHAL-AXYL WATER, FLTRD, REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, GF 0.7U (UG/L) (38501)	METH-OMYL WATER, FLTRD, REC (UG/L) (61696)	METH-OMYL WATER, FLTRD, GF 0.7U (UG/L) (49296)	METHYL-AZIN-PHOS WAT FLT (UG/L) (82686)	METHYL-PARA-THION WAT FLT (UG/L) (82667)	METOLA-CHLOR ESA FLTRD, GF REC (UG/L) (61043)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	<.05
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050	<.006	.11

E Estimated value.

< Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METOLA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET- SUL- FURON METHYL WAT FLT (UG/L) (61697)	MOL- INATE WATER FLTRD 0.7 U (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)
		WI Cf 226	09-12-01	--	<.050	<.050	--	--	--	--	--
WI Cg 59	09-12-01	--	<.050	<.050	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013	<.02	<.02
		OXAMYL OXIME WATER FLTRD, FLTRD REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, FLTRD, DISS, REC (UG/L) (04037)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	<.050
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	<.050
WI Ch 50	09-24-01	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02	<.015
		PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROP- AZINE WATER DISS REC (UG/L) (38535)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP- ICONA- ZOLE, WATER, FLTRD REC (UG/L) (50471)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)
WI Cf 226	09-12-01	<.05	--	<.050	--	--	<.05	--	--	--	--
WI Cg 59	09-12-01	<.05	--	<.050	--	--	<.05	--	--	--	--
WI Ch 50	09-24-01	--	<.004	<.010	<.011	<.023	--	<.01	<.002	<.01	<.017
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	<.020	<.010	<.011	<.023	--	<.01	<.005	<.01	<.017
		SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA- TRYN, WATER, DISS, REC (UG/L) (04030)	SULFO- MET- RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- BENURON METHYL WATER FLTRD (UG/L) (61159)
WI Cf 226	09-12-01	<.050	<.05	--	--	<.05	--	--	--	--	--
WI Cg 59	09-12-01	<.050	<.05	--	--	<.05	--	--	--	--	--
WI Ch 50	09-24-01	<.011	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01
	09-26-01	--	--	--	--	--	--	--	--	--	--
	09-26-01	--	--	--	--	--	--	--	--	--	--
WI Ch 51	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	--	--	--	--	--	--	--	--	--	--
	08-21-01	<.011	--	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	TRI-FLUR-ALIN, WAT FLT 0.7 U, REC (UG/L) (82661)	UREA 3(4-CHLOR OPHENYL METHYL, WAT FLT REC (UG/L) (61692)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)
WI Cf 226	09-12-01	--	<.05	--	--	<.05	--	--	--	--	--
WI Cg 59	09-12-01	--	<.05	--	--	<.05	--	--	--	--	--
WI Ch 50	09-24-01	<.02	--	<.009	<.0242	--	<.03	<.06	E.02	<.04	<.03
	09-26-01	--	--	--	--	--	<.03	<.06	<.04	<.04	<.03
	09-26-01	--	--	--	--	--	<.03	<.06	<.04	<.04	<.03
WI Ch 51	08-21-01	--	--	--	--	--	<.03	<.06	<.04	<.04	<.03
	08-21-01	--	--	--	--	--	<.03	<.06	<.04	<.04	<.03
	08-21-01	<.02	--	<.009	<.0242	--	--	--	--	--	--
		123-TRI-CHLORO-PROPANE WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMO ETHANE WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE TRANS-1 4-DI-CHLORO RECOVER (UG/L) (73547)	2-HEXA-WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO-NITRILE TOTAL (UG/L) (34215)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
	09-26-01	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
	09-26-01	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
WI Ch 51	08-21-01	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
	08-21-01	<.2	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
	08-21-01	--	--	--	--	--	--	--	--	--	--
		1,2,3-TRI-CHLORO-BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI-METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI-METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI-METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.3	<.1	<.2	<.06	<.04	<.03	86	<.05	<.03	<.2
	09-26-01	<.3	<.1	<.2	<.06	<.04	<.03	73	<.05	<.03	<.2
	09-26-01	<.3	<.1	<.2	<.06	<.04	<.03	72	<.05	<.03	<.2
WI Ch 51	08-21-01	<.3	<.1	<.2	<.06	<.04	<.03	85	<.05	<.03	<.2
	08-21-01	<.3	<.1	<.2	<.06	<.04	<.03	87	<.05	<.03	<.2
	08-21-01	--	--	--	--	--	--	--	--	--	--
		BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06
	09-26-01	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06
	09-26-01	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06
WI Ch 51	08-21-01	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06
	08-21-01	<.04	<.03	<.03	<.06	<.04	<.04	<.1	<.06	<.07	<.06
	08-21-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

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

DATE	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHLORO- FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI- ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO- PROPANE WATER TOT.REC (UG/L) (82625)	DI- BROMO- METHANE WHOLE RECOVER (UG/L) (30217)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05	<.05
	09-26-01	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
WI Ch 51	09-26-01	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05	<.05
	08-21-01	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	08-21-01	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	08-21-01	--	--	--	--	--	--	--	--	--
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<.1	<.03	<.09	102	<.2	<.2	<.05	<.1	<.03
	09-26-01	<.1	<.03	<.09	100	<.2	<.2	<.05	<.1	<.03
WI Ch 51	09-26-01	<.1	<.03	<.09	102	<.2	<.2	<.05	<.1	<.03
	08-21-01	<.1	<.03	<.09	100	<.2	<.2	<.05	<.1	<.03
	08-21-01	<.1	<.03	<.09	101	<.2	<.2	<.05	<.1	<.03
	08-21-01	--	--	--	--	--	--	--	--	--
WI Cf 226	09-12-01	--	--	--	--	--	--	--	--	--
WI Cg 59	09-12-01	--	--	--	--	--	--	--	--	--
WI Ch 50	09-24-01	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	09-26-01	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
WI Ch 51	09-26-01	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	08-21-01	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	08-21-01	<2	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	08-21-01	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.





QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND

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

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	STATION TYPE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW SURFACE LAND (WATER LEVEL) (FEET) (72019)
WO Ah 38	08-28-01	0755	382638075033001	BLANK	--	--	8030	--	--
	08-28-01	0800		ENVIRONMENTAL	122MNKN	GW	8030	4	--
WO Ah 36	08-30-01	0930	382635075030602	ENVIRONMENTAL	122MNKN	GW	4040	14.32	32.46
WO Bh 28	08-28-01	1045	382214075041901	ENVIRONMENTAL	122OCNC	GW	8030	6	--
WO Bh 29	08-28-01	1000	382216075041201	ENVIRONMENTAL	122OCNC	GW	8030	6	--
WO Bh 89	08-29-01	1000	382215075041903	ENVIRONMENTAL	122MNKN	GW	4040	5.59	23.22
WO Bh 84	08-29-01	1300	382215075041901	ENVIRONMENTAL	121BVDM	GW	4030	5	5.10
WO Bh 85	08-29-01	1040	382215075041902	ENVIRONMENTAL	122PCMK	GW	4030	5	6.25
WO Bh 98	08-27-01	1140	382127075043802	ENVIRONMENTAL	122OCNC	GW	4040	5	94.95
WO Bh 101	08-28-01	1200	382127075043804	ENVIRONMENTAL	122OCNC	GW	8030	5	--
WO Cc 2	08-08-01	1000	381543075273801	BLANK	--	--	4040	--	--
	08-08-01	1005		BLANK	--	--	4040	--	--
	08-08-01	1100		ENVIRONMENTAL	112CLMB	GW	4040	30	4.40
WO Cc 3	08-08-01	1430	381543075273802	ENVIRONMENTAL	112CLMB	GW	4040	30	4.68
WO Cg 33	08-30-01	1500	381938075052001	ENVIRONMENTAL	112RDGV	GW	8030	6	--
	08-30-01	1501		REPLICATE	122OCNC	GW	--	6	--
WO Cg 76	08-09-01	0900	381754075083601	ENVIRONMENTAL	217PTMC	GW	4040	12	--
WO Cg 78	08-09-01	1300	381754075083603	ENVIRONMENTAL	112CLMB	GW	4040	12	5.47
WO Cg 87	09-20-01	1100	381953075051401	ENVIRONMENTAL	122OCNC	GW	8030	10	--
WO Fc 46	09-06-01	0950	380403075292901	BLANK	--	--	4040	--	--
	09-06-01	1000		ENVIRONMENTAL	112CLMB	GW	4040	33	10.15
	09-06-01	1030		REPLICATE	112CLMB	GW	4040	33	--

WELL NUMBER	DATE	TIME	DEPTH OF SAMPLE TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE OF (MM HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	760	28.3	2.7	6.5	550	
WO Ah 36	08-30-01	430	440	430	100	7.9	763	1.9	.2	6.7	820	
WO Bh 28	08-28-01	294	--	--	--	--	760	52.5	5.0	6.7	918	
WO Bh 29	08-28-01	294	--	--	--	--	760	77.6	7.4	6.8	586	
WO Bh 89	08-29-01	500	500	388	265	5.0	763	1.4	.1	6.9	1890	
WO Bh 84	08-29-01	89	89	84	25	--	763	46.5	4.5	6.3	350	
WO Bh 85	08-29-01	195	195	190	60	7.5	763	67.0	6.4	6.8	383	
WO Bh 98	08-27-01	310	275	255	50	7.5	760	5.5	.5	7.4	447	
WO Bh 101	08-28-01	312	--	--	--	--	760	90.5	8.5	7.3	423	
WO Cc 2	08-08-01	55	--	--	--	--	--	--	--	--	--	
	08-08-01	55	--	--	--	--	--	--	--	--	--	
	08-08-01	55	55	52	90	.31	764	1.0	.1	6.3	78	
WO Cc 3	08-08-01	21	21	18	60	.26	758	1.1	.1	5.4	34	
WO Cg 33	08-30-01	290	--	--	--	--	763	--	--	7.3	409	
	08-30-01	290	--	--	--	--	--	--	--	--	--	
WO Cg 76	08-09-01	90	90	70	115	.45	765	1.1	.1	6.8	206	
WO Cg 78	08-09-01	13	13	10	135	.29	765	.2	M	5.3	89	
WO Cg 87	09-20-01	310	--	--	--	--	764	76.9	7.4	6.4	453	
WO Fc 46	09-06-01	43	--	--	--	--	--	--	--	--	--	
	09-06-01	43	43	40	75	.42	770	1.0	.1	5.8	99	
	09-06-01	43	--	--	--	--	--	--	--	--	--	

M Presence of material verified but not quantified.

Geologic Unit (aquifer): 112CLMB - Columbia Formation  
 112RDGV - Red Gravelly Facies  
 121BVDM - Beaverdam Sand  
 122MNKN - Manokin aquifer  
 122OCNC - Ocean City aquifer  
 217PTMC - Potomac Group  
 122PCMK - Pocomoke Aquifer

Station Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump  
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SODIUM, DIS- SOLVED (MG/L AS NA)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
		(DEG C) (00020)	(DEG C) (00010)	(00900)	(00915)	(00925)	(00935)	(00930)	(39086)	(00453)	(00940)
WO Ah 38	08-28-01	--	--	--	E.01	<.008	<.09	<.1	--	--	.1
	08-28-01	--	17.2	77.4	21.9	5.55	4.25	67.9	114	138	101
WO Ah 36	08-30-01	--	17.0	88.1	24.0	6.82	5.20	128	143	174	183
WO Bh 28	08-28-01	--	17.4	114	18.1	16.6	10.5	128	139	169	192
WO Bh 29	08-28-01	--	17.5	90.8	15.2	12.8	9.56	70.7	132	161	101
WO Bh 89	08-29-01	--	18.7	261	28.3	46.3	21.1	283	201	245	511
WO Bh 84	08-29-01	--	17.0	88.3	17.8	10.6	11.9	32.8	123	150	49.8
WO Bh 85	08-29-01	--	17.6	96.9	15.6	14.1	11.1	39.1	157	192	50.3
WO Bh 98	08-27-01	27.3	17.7	168	40.5	16.3	10.9	20.1	187	228	28.1
WO Bh 101	08-28-01	25.0	18.1	151	37.5	14.0	9.85	23.2	154	188	23.8
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	34.0	15.0	10.0	2.82	.703	.92	8.9	34	42	7.8
WO Cc 3	08-08-01	34.0	17.5	10.6	2.16	1.25	1.33	5.6	10	12	5.8
WO Cg 33	08-30-01	--	17.0	125	32.6	10.7	7.72	34.4	175	216	32.9
	08-30-01	--	--	126	32.9	10.7	7.48	35.6	--	--	33.3
WO Cg 76	08-09-01	33.0	19.0	77.0	22.6	4.97	.93	11.7	86	104	9.7
WO Cg 78	08-09-01	34.5	18.0	21.9	5.21	2.13	.82	8.8	10	12	12.1
WO Cg 87	09-20-01	--	17.3	128	31.9	11.7	9.97	45.3	124	151	58.5
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	23.0	15.0	25.7	7.30	1.79	1.19	8.8	34	42	13.2
	09-06-01	--	--	--	--	--	--	--	--	--	--
		FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AM- MONIA + DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
WO Ah 38	08-28-01	<.2	<.01	<.1	<.1	--	--	--	--	--	--
	08-28-01	E.1	1.00	34.8	E.1	--	--	--	--	--	--
WO Ah 36	08-30-01	E.1	.74	32.2	<.1	--	--	--	--	--	--
WO Bh 28	08-28-01	.2	.91	33.2	.4	--	--	--	--	--	--
WO Bh 29	08-28-01	E.2	.73	33.3	<.1	--	--	--	--	--	--
WO Bh 89	08-29-01	E.1	1.77	31.4	5.4	--	--	--	--	--	--
WO Bh 84	08-29-01	E.1	.51	36.1	<.1	--	--	--	--	--	--
WO Bh 85	08-29-01	E.1	.49	33.0	E.1	--	--	--	--	--	--
WO Bh 98	08-27-01	E.1	.06	29.0	<.1	--	--	--	--	--	--
WO Bh 101	08-28-01	E.1	.07	28.4	<.1	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.2	.19	32.6	<.1	.107	.17	<.006	.067	<.050	.175
WO Cc 3	08-08-01	<.2	.06	19.7	5.5	E.023	<.10	<.006	--	<.050	<.020
WO Cg 33	08-30-01	E.2	.09	24.2	<.1	--	--	--	--	--	--
	08-30-01	E.1	.09	24.5	<.1	--	--	--	--	--	--
WO Cg 76	08-09-01	<.2	.22	39.3	E.1	.379	.46	<.006	.076	E.037	.100
WO Cg 78	08-09-01	<.2	.07	11.0	16.2	.161	.30	<.006	.140	<.050	E.012
WO Cg 87	09-20-01	.2	.16	27.6	E.1	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.2	.09	46.7	.2	E.438	E.52	<.006	--	<.050	E.068
	09-06-01	--	--	--	--	--	--	--	--	--	--

E Estimated value.  
 < Actual value is known to be less than the value shown.





QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	2,4,5-T SURROG WATER FLTRD REC PERCENT (99958)	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	.39	--	--	--
	08-08-01	--	--	--	--	--	--	E.19	--	--	--
	08-08-01	1.38	<.3	<1.0	48.4	<.04	.4	3	2.0	80	<.009
WO Cc 3	08-08-01	1.59	<.3	<1.0	51.5	<.04	<.2	2	1.2	76	<.009
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.06	<.3	<1.0	122	<.04	<.2	93	--	76	<.009
WO Cg 78	08-09-01	.20	<.3	<1.0	39.8	<.04	.6	2	1.9	79	<.009
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	83	<.009
	09-06-01	<.06	<.3	<1.0	54.4	E.03	1.4	<1	3.7	95	<.009
	09-06-01	--	--	--	--	--	--	--	--	97	<.009
		2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, REC GF 0.7U (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT REC GF 0.7U (UG/L) (49308)	3-KETO CARBO-FURAN WATER FLTRD REC (UG/L) (50295)	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, REC GF 0.7U (UG/L) (49315)	ALA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
WO Cc 3	08-08-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
WO Cg 78	08-09-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.02	<.02	<.002	<.01	<1.50	--	--	<.004	<.01	--
	09-06-01	<.02	<.02	<.002	<.01	<1.50	<.05	<.05	<.004	<.01	<.05
	09-06-01	<.02	<.02	<.002	<.01	<1.50	--	--	<.004	<.01	--

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAG-SURROG-ATE WTR FLT SCD 2060, 9060 RE PERCENT (90640)	BENDIO-CARB, WATER, FLTRD REC (UG/L) (50299)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.050	<.002	<.02	<.01	<.04	<.005	<.007	97	<.025	<.010
WO Cc 3	08-08-01	<.050	<.002	<.02	<.01	<.04	<.005	<.007	46	<.025	<.010
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.050	<.002	<.02	<.01	<.04	<.005	<.007	90	<.025	<.010
WO Cg 78	08-09-01	<.050	<.002	<.02	<.01	<.04	<.005	<.007	103	<.025	<.010
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	<.002	<.02	<.01	<.04	<.005	<.007	76	<.025	<.010
	09-06-01	<.050	<.002	<.02	<.01	<.04	<.005	<.007	118	<.025	<.010
	09-06-01	--	<.002	<.02	<.01	<.04	<.005	<.007	121	<.025	<.010
		BENOMYL WATER FLTRD REC (UG/L) (50300)	BEN-SUL-FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER, FLTRD REC (UG/L) (50305)	CAF-FEINE-C13 SURROG, WAT FLT REC PERCENT (99959)	CAR-BARYL, WATER, FLTRD, REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.004	<.0158	<.01	<.03	<.02	<.002	<.010	88	<.03	<.041
WO Cc 3	08-08-01	<.004	<.0158	<.01	<.03	<.02	<.002	E.005	E116	<.03	<.041
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.004	<.0158	<.01	<.03	<.02	<.002	<.010	103	<.03	<.041
WO Cg 78	08-09-01	<.004	<.0158	<.01	<.03	<.02	<.002	E.004	85	<.03	<.041
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.004	<.0158	<.01	<.03	<.02	<.002	.028	98	<.03	<.041
	09-06-01	<.004	<.0158	<.01	<.03	<.02	<.002	<.010	78	<.03	<.041
	09-06-01	<.004	<.0158	<.01	<.03	<.02	<.002	<.010	85	<.03	<.041

E Estimated value.  
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN, WATER, FLTRD, 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBN, METHYL ESTER, WATER, FLTRD (UG/L) (61188)	CHLORI-MURON, WATER, FLTRD REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT, FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (49304)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
WO Cc 3	08-08-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--THIS PAGE IS INTENTIONALLY BLANK									
WO Cg 76	08-09-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
WO Cg 78	08-09-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
	09-06-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
	09-06-01	<.01	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01
		DCPA WATER, FLTRD, 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL PROPYL ATRAZIN, WATER, DISS, REC (UG/L) (04039)	DEISO-ATRAZIN, WATER, DISS, REC (UG/L) (04038)	DIAZ-PROPYL INON, WAT FLT GF 0.7 U REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN, DIS-SOLVED (UG/L) (39381)	DIMETH-ENAMID OXA, WATER, FLT, REC (UG/L) (62482)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.003	<.006	<.0006	<.04	99	<.005	<.01	<.01	<.005	<.0500
WO Cc 3	08-08-01	<.003	<.006	<.01	<.04	111	<.005	<.01	<.01	<.005	<.0500
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.003	<.006	<.01	<.04	106	<.005	<.01	<.01	<.005	<.0500
WO Cg 78	08-09-01	<.003	<.006	<.01	<.04	113	<.005	<.01	<.01	<.005	<.0500
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.003	<.006	<.01	<.04	107	<.005	<.01	<.01	<.005	--
	09-06-01	<.003	<.006	<.01	<.04	112	<.005	<.01	<.01	<.005	<.0500
	09-06-01	<.003	<.006	<.01	<.04	101	<.005	<.01	<.01	<.005	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	DIMETH-ENAMID, ESA,	DINOSEB WATER, FLTRD, GF 0.7U	DIPHEN-AMID, WATER, DISS,	DISUL-FOTON WATER, FLTRD, 0.7 U	DIURON, WATER, FLTRD, GF 0.7U	EPTC WATER, FLTRD, 0.7 U	ETHAL-FLUR-ALIN, WAT FLT	ETHO-PROP WATER, FLTRD, 0.7 U	FEN-URON, WATER, FLTRD, GF 0.7U	FLUFEN-ACET, ESA,
		WAT FLT (UG/L) (61951)	REC (UG/L) (49301)	REC (UG/L) (04033)	GF, REC (UG/L) (82677)	REC (UG/L) (49300)	GF, REC (UG/L) (82668)	GF, REC (UG/L) (82663)	GF, REC (UG/L) (82672)	REC (UG/L) (49297)	WAT FLT (UG/L) (61952)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.05	<.01	<.03	<.021	<.01	<.002	<.009	<.005	<.03	<.05
WO Cc 3	08-08-01	<.05	<.01	<.03	<.021	<.01	<.002	<.009	<.005	<.0016	<.05
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.05	<.01	<.03	<.021	<.0015	<.002	<.009	<.005	<.03	<.05
WO Cg 78	08-09-01	<.05	<.01	<.03	<.021	<.01	<.002	<.009	<.005	<.03	<.05
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	<.01	<.03	<.021	<.01	<.002	<.009	<.005	<.03	--
	09-06-01	<.05	<.01	<.03	<.021	<.01	<.002	<.009	<.005	<.03	<.05
	09-06-01	--	<.01	<.03	<.021	<.01	<.002	<.009	<.005	<.03	--
		FLUFE-NACET WATER, FLT, REC (UG/L) (62483)	FLUMET-SULAM WATER, FLTRD, REC (UG/L) (61694)	FLUO-METURON WATER, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER, DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	HYDROXY ATRA-ZINE WATER, FLTRD, REC (UG/L) (50355)	IMAZ-AQUIN WATER, FLTRD, REC (UG/L) (50356)	IMAZE-THAPYR WATER, FLTRD, REC (UG/L) (50407)	IMID-ACLOP-RID WATER, FLTRD, REC (UG/L) (61695)	LINDANE DIS-SOLVED (UG/L) (39341)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.0500	<.0110	<.03	<.003	102	<.008	<.016	<.017	<.0068	<.004
WO Cc 3	08-08-01	<.0500	<.0110	<.03	<.003	116	<.008	<.016	<.017	<.0068	<.004
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.0500	<.0110	<.03	<.003	95	<.008	<.016	<.017	<.0068	<.004
WO Cg 78	08-09-01	<.0500	<.0110	<.03	<.003	120	<.008	<.016	<.017	<.0068	<.004
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	<.0110	<.03	<.003	92	<.008	<.016	<.017	<.0068	<.004
	09-06-01	<.0500	<.0110	<.03	<.003	94	<.008	<.016	<.017	<.0068	<.004
	09-06-01	--	<.0110	<.03	<.003	93	<.008	<.016	<.017	<.0068	<.004

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	LINURON	LIN-URON	MALA-THION	MCPA,	MCPB,	METAL-AXYL	METHIO-CARB,	METH-OMYL	METH-OMYL	METHYL
		WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	DIS-SOLVED (UG/L) (39532)	WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	WATER FLTRD REC (UG/L) (50359)	WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	WATER, FLTRD, GF 0.7U REC (UG/L) (61696)	WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	WAT FLT 0.7 U GF, REC (UG/L) (82686)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
WO Cc 3	08-08-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
WO Cg 78	08-09-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
	09-06-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
	09-06-01	<.01	<.035	<.027	<.02	<.01	<.020	<.01	<.0110	<.0044	<.050
		METHYL-PARA-THION	METOLA-CHLOR-ESA	METOLA-CHLOR-OA	METO-LACHLOR	METRI-BUZIN	MET-SUL-FURON	MOL-INATE	NAPROP-AMIDE	NEB-URON,	NICOSUL-FURON
		WAT FLT 0.7 U GF, REC (UG/L) (82667)	FLTRD 0.7 UM GF REC (UG/L) (61043)	FLTRD 0.7 UM GF REC (UG/L) (61044)	WATER DISSOLV (UG/L) (39415)	WATER DISSOLV (UG/L) (82630)	WAT FLT REC (UG/L) (61697)	WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	WATER, FLTRD, REC (UG/L) (49294)	FURON WATER REC (UG/L) (50364)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.006	<.05	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013
WO Cc 3	08-08-01	<.006	<.05	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.006	<.05	<.05	<.013	<.006	<.0174	<.002	<.007	<.01	<.013
WO Cg 78	08-09-01	<.006	<.05	<.05	<.013	<.006	<.0257	<.002	<.007	<.01	<.013
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.006	--	--	<.013	<.006	<.0250	<.002	<.007	<.01	<.013
	09-06-01	<.006	<.05	<.05	<.013	<.006	<.0250	<.002	<.007	<.01	<.013
	09-06-01	<.006	--	--	<.013	<.006	<.0250	<.002	<.007	<.01	<.013

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QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	NORFLURAZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARATHION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE, WATER, FILTRD 0.7 U, REC (UG/L) (82669)	PENDI-METH-ALIN, WAT FLT 0.7 U, REC (UG/L) (82683)	PER-METHRIN, CIS, WAT FLT 0.7 U, REC (UG/L) (82687)	PHORATE, WATER, FLTRD 0.7 U, REC (UG/L) (82664)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
WO Cc 3	08-08-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
WO Cg 78	08-09-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
	09-06-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
	09-06-01	<.02	<.02	<.013	<.01	<.003	<.007	<.002	<.010	<.006	<.011
		PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE, WATER, FLTRD, GF 0.7 U, REC (UG/L) (82676)	PROPA-CHLOR, WATER, FLTRD, DISS, REC (UG/L) (04024)	PRO-PANIL, WATER, FLTRD, GF 0.7 U, REC (UG/L) (82679)	PRO-PARGITE, WATER, FLTRD, GF 0.7 U, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP-ICONA-ZOLE, WATER, FLTRD, REC (UG/L) (50471)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON, WATER, FLTRD, REC (UG/L) (38548)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017
WO Cc 3	08-08-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.003	<.01	<.017
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017
WO Cg 78	08-09-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017
	09-06-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017
	09-06-01	<.02	<.015	<.004	<.010	<.011	<.023	<.01	<.021	<.01	<.017

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QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SULFO-MET-RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
WO Cc 3	08-08-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
WO Cg 78	08-09-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
	09-06-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
	09-06-01	<.011	<.009	<.016	<.01	<.034	<.017	<.005	<.002	<.01	<.02
		TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3(4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1-DI-CHLORO-PRO-PENE, WATER, WH TOTAL (UG/L) (77168)	123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.009	<.0242	<.03	<.06	<.04	<.04	<.03	<.2	<.04	<.1
WO Cc 3	08-08-01	<.009	<.0242	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.009	<.0242	<.03	<.06	<.04	<.04	<.03	<.2	<.04	<.1
WO Cg 78	08-09-01	<.009	<.0242	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	<.009	<.0242	--	--	--	--	--	--	--	--
	09-06-01	<.009	<.0242	<.03	<.06	<.04	<.04	<.03	<.2	<.04	<.1
	09-06-01	<.009	<.0242	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUM, BER	DATE	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE TRANS-1 4-DI- CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA- NONE WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO- NITRILE WAT, WH TOTAL (UG/L) (34215)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1	<.2
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1	<.2
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1	<.2
	09-06-01	--	--	--	--	--	--	--	--	--	--

WELL NUM, BER	DATE	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.06	<.04	<.03	89	<.05	<.03	<.2	<.04	<.03	<.03
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.06	<.04	<.03	90	<.05	<.03	<.2	<.04	<.03	<.03
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.06	<.04	<.03	91	<.05	<.03	<.2	<.04	<.03	<.03
	09-06-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.



QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	BENZENE		BROMO-	BROMO-	CARBON		CARBON	CHLORO-		CHLORO-
		TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	TOTAL (UG/L) (34030)	BENZENE WHOLE, WATER, TOTAL (UG/L) (81555)	ETHENE UNFLTRD RECOVER (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)	DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	TETRA-CHLORIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	DI-BROMO-METHANE TOTAL (UG/L) (32105)	ETHANE TOTAL (UG/L) (34311)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.06	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.06	<.04	<.04	<.1	<.06	.21	<.06	<.03	<.2	<.1
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.06	<.04	<.04	<.1	<.06	E.02	<.06	<.03	<.2	<.1
	09-06-01	--	--	--	--	--	--	--	--	--	--
			CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (32106)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO-CHLORO-PROPANE WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L) (34516)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.02	<.04	<.09	<.5	<.05	<.05	<.3	<.1	<.03	<.09
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	.10	<.04	<.09	<.5	<.05	<.05	<.3	<.1	<.03	<.09
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.02	<.04	<.09	<.5	<.05	<.05	<.3	<.1	<.03	<.09
	09-06-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	ETHANE	ETHANE	ETHER	ETHER	ETHER	ETHYL- BENZENE	FREON-	FURAN,	HEXA-	ISO-
		12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	HEXA- CHLORO- WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)		113 WATER UNFLTRD REC (UG/L) (77652)	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	DURENE WATER UNFLTRD RECOVER (UG/L) (50000)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	107	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	102	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	97	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
	09-06-01	--	--	--	--	--	--	--	--	--	--
		METHAC- RYLATE ETHYL- WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC- RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH- ACRYLO- NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY- LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2	<.2
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2	<.2
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.2	<.2
	09-06-01	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL-ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	1234-TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3-CHLORO-WATER UNFLTRD RECOVER (UG/L) (78109)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<2	<.4	<.06	<.5	<.03	<.04	<.07	<.2	<.1	<.1
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<2	<.4	<.06	<.5	<.03	<.04	<.07	<.2	<.1	<.1
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<2	<.4	<.06	<.5	<.03	<.04	<.07	<.2	<.1	<.1
	09-06-01	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL-CHLORIDE TOTAL (UG/L) (39175)
WO Ah 38	08-28-01	--	--	--	--	--	--	--	--	--	--
	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Ah 36	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Bh 28	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 29	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Bh 89	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 84	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 85	08-29-01	--	--	--	--	--	--	--	--	--	--
WO Bh 98	08-27-01	--	--	--	--	--	--	--	--	--	--
WO Bh 101	08-28-01	--	--	--	--	--	--	--	--	--	--
WO Cc 2	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	--	--	--	--	--	--	--	--	--	--
	08-08-01	<.04	<.1	98	<.06	<.06	<.05	<.09	<.04	<.09	<.1
WO Cc 3	08-08-01	--	--	--	--	--	--	--	--	--	--
WO Cg 33	08-30-01	--	--	--	--	--	--	--	--	--	--
	08-30-01	--	--	--	--	--	--	--	--	--	--
WO Cg 76	08-09-01	<.04	<.1	98	<.06	<.06	<.05	<.09	<.04	<.09	<.1
WO Cg 78	08-09-01	--	--	--	--	--	--	--	--	--	--
WO Cg 87	09-20-01	--	--	--	--	--	--	--	--	--	--
WO Fc 46	09-06-01	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.04	<.1	92	<.06	<.06	<.05	<.09	<.04	<.09	<.1
	09-06-01	--	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

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

WELL NUMBER	DATE	RADON				URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
		RADON 222 TOTAL (PCI/L) (82303)	SS MDC, WATER, UNFLTRD (PCI/L) (99327)	RN-222 2X CL, 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)		
WO Ah 38	08-28-01	--	--	--	--	
	08-28-01	--	--	--	--	
WO Ah 36	08-30-01	--	--	--	--	
WO Bh 28	08-28-01	--	--	--	--	
WO Bh 29	08-28-01	--	--	--	--	
WO Bh 89	08-29-01	--	--	--	--	
WO Bh 84	08-29-01	--	--	--	--	
WO Bh 85	08-29-01	--	--	--	--	
WO Bh 98	08-27-01	--	--	--	--	
WO Bh 101	08-28-01	--	--	--	--	
WO Cc 2	08-08-01	--	--	--	--	
	08-08-01	--	--	--	--	
	08-08-01	202	24.0	19	<.02	
WO Cc 3	08-08-01	438	23.0	23	<.02	
WO Cg 33	08-30-01	--	--	--	--	
	08-30-01	--	--	--	--	
WO Cg 76	08-09-01	225	29.0	22	<.02	
WO Cg 78	08-09-01	281	28.0	23	E.01	
WO Cg 87	09-20-01	--	--	--	--	
WO Fc 46	09-06-01	--	--	--	--	
	09-06-01	280	22.0	19	<.02	
	09-06-01	--	--	--	--	

E Estimated value.

< Actual value is known to be less than the value shown.

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# CONVERSION FACTORS AND VERTICAL DATUM

<b>Multiply</b>	<b>By</b>	<b>To obtain</b>
<b>Length</b>		
inch (in.)	$2.54 \times 10^1$	millimeter
	$2.54 \times 10^{-2}$	meter
foot (ft)	$3.048 \times 10^{-1}$	meter
mile (mi)	$1.609 \times 10^0$	kilometer
<b>Area</b>		
acre	$4.047 \times 10^3$	square meter
	$4.047 \times 10^{-1}$	square hectometer
	$4.047 \times 10^{-3}$	square kilometer
square mile (mi <sup>2</sup> )	$2.590 \times 10^0$	square kilometer
<b>Volume</b>		
gallon (gal)	$3.785 \times 10^0$	liter
	$3.785 \times 10^0$	cubic decimeter
	$3.785 \times 10^{-3}$	cubic meter
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter
	$3.785 \times 10^{-3}$	cubic hectometer
cubic foot (ft <sup>3</sup> )	$2.832 \times 10^1$	cubic decimeter
	$2.832 \times 10^{-2}$	cubic meter
cubic-foot-per-second day [(ft <sup>3</sup> /s) d]	$2.447 \times 10^3$	cubic meter
	$2.447 \times 10^{-3}$	cubic hectometer
acre-foot (acre-ft)	$1.233 \times 10^3$	cubic meter
	$1.233 \times 10^{-3}$	cubic hectometer
	$1.233 \times 10^{-6}$	cubic kilometer
<b>Flow</b>		
cubic foot per second (ft <sup>3</sup> /s)	$2.832 \times 10^1$	liter per second
	$2.832 \times 10^1$	cubic decimeter per second
	$2.832 \times 10^{-2}$	cubic meter per second
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second
	$6.309 \times 10^{-2}$	cubic decimeter per second
	$6.309 \times 10^{-5}$	cubic meter per second
million gallons per day (Mgal/d)	$4.381 \times 10^1$	cubic decimeter per second
	$4.381 \times 10^{-2}$	cubic meter per second
<b>Mass</b>		
ton (short)	$9.072 \times 10^{-1}$	megagram or metric ton

*Sea level:* In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.