



Water Resources Data Maryland and Delaware Water Year 1995

Volume 2. Ground-Water Data



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MD-DE-95-2
Prepared in cooperation with the States of Maryland and Delaware
and with other agencies

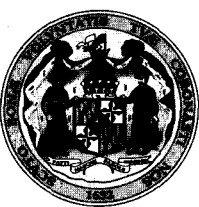
CALENDAR FOR WATER YEAR 1995

1994

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1995

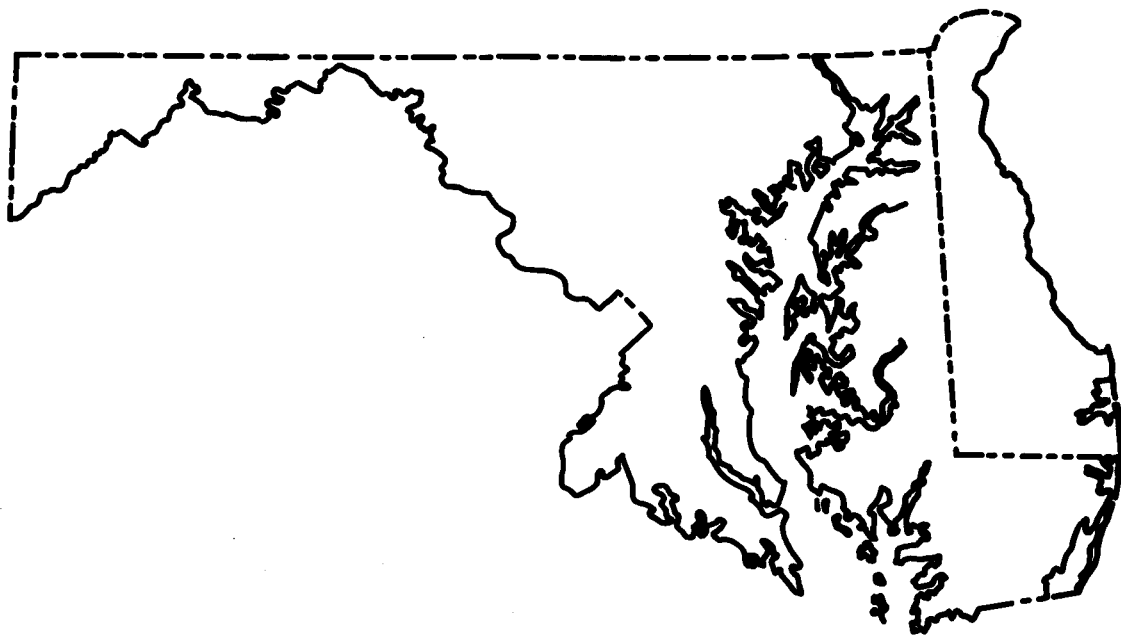
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Water Resources Data Maryland and Delaware Water Year 1995

Volume 2. Ground-Water Data

by Michael J. Smigaj and Richard W. Saffer



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MD-DE-95-2
Prepared in cooperation with the States of Maryland and Delaware
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

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PREFACE

This volume of the annual hydrologic data report of 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 projects, and individuals contributed to the collection, and data processing on the GWSI, ADAPS, and QWDATA data bases:

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Andrew E. LaMotte produced figures 3 through 6, using a Geographic Information System mapping program.

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

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16. Abstract (Limit: 200 words) Water resources data for the 1995 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 388 observation wells, discharge records for 5 springs and water quality at 177 wells. Locations of ground-water level wells are shown on figures 3 and 4. Locations of ground-water-quality sites are shown on figures 5 and 6. The data in this report represents 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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GROUND-WATER SPRING DISCHARGE

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MARYLAND:**CECIL COUNTY**

Spring 393459076045001 Local number CE Cc 40..... 41

FREDRICK COUNTY

Spring 392552077262201 Local number FR Dd 178..... 42

Spring 391846077370501 Local number FR Fb 12..... 43

HARFORD COUNTY

Spring 394153076325701 Local number HA Aa 9..... 44

WASHINGTON COUNTY

Spring 392836077442701 Local number WA Di 103..... 45

GROUND-WATER LEVELS

DELAWARE:**KENT COUNTY**

Well 390224075391601 Local number Kc31-01..... 46

Well 390607075331501 Local number Jd42-03..... 47

Well 385041075395601 Local number Mc51-01..... 48

Well 385310075331301 Local number Md22-01..... 49

NEWCASTLE COUNTY

Well 393917075401601 Local number Db15-05..... 50

Well 393856075415602 Local number Db24-17..... 51

Well 393734075371103 Local number Db33-17..... 52

Well 393734075371102 Local number Db33-18..... 53

Well 393734075371101 Local number Db33-19..... 54

Well 393755075364801 Local number Dc34-05..... 55

Well 393755075364802 Local number Dc34-06..... 56

Well 393316075421601 Local number Eb23-22..... 57

Well 393316075421602 Local number Eb23-23..... 58

Well 393316075421603 Local number Eb23-24..... 59

Well 393316075421604 Local number Eb23-25..... 60

Well 391949075410701 Local number Hb14-01..... 61

SUSSEX COUNTY

Well 384639075353101 Local number Nc45-01..... 62

Well 384504075242602 Local number Nf51-02..... 63

Well 384504075242601 Local number Nf51-03..... 64

Well 384504075242603 Local number Nf51-04..... 65

Well 384955075192801 Local number Ng11-01..... 66

Well 384558075083501 Local number Ni52-11..... 67

Well 384558075083502 Local number Ni52-12..... 68

Well 384418075231102 Local number Of12-03..... 69

Well 384418075231103 Local number Of12-04..... 70

Well 384418075231101 Local number Of12-05..... 71

Well 384433075234901 Local number Of12-06..... 72

Well 384435075234901 Local number Of12-07..... 73

Well 384436075234701 Local number Of12-08..... 74

Well 384436075234801 Local number Of12-09..... 75

Well 384437075234501 Local number Of12-10..... 76

Well 384437075234502 Local number Of12-11..... 77

Well 384438075234802 Local number Of12-12..... 78

Well 384438075234801 Local number Of12-13..... 79-80

Well 384438075234803 Local number Of12-14..... 81

Well 384444075233702 Local number Of12-15..... 82

Well 384441075233701 Local number Of12-16..... 83

Well 384444075233901 Local number Of12-17..... 84

Well 384444075234101 Local number Of12-18..... 85

Well 384444075234102 Local number Of12-19..... 86

Well 384401075224903 Local number Of13-01..... 87

Well 384402075225002 Local number Of13-02..... 88

Well 384401075224901 Local number Of13-03..... 89-90

Well 384403075224701 Local number Of13-04..... 91

Well 384404075225001 Local number Of13-05..... 92

Well 384405075224701 Local number Of13-06..... 93

Well 384405075224601 Local number Of13-07..... 94

Well 384406075224601 Local number Of13-08..... 95-96

Well 384406075224603 Local number Of13-09..... 97

Well 384406075224602 Local number Of13-10..... 98

Well 384406075224401 Local number Of13-11..... 99

Well 384343075230402 Local number Of22-02..... 100

Well 384343075230403 Local number Of22-03..... 101

Well 384343075230401 Local number Of22-04..... 102-103

Well 384343075230301 Local number Of22-05..... 104

Well 384343075230201 Local number Of22-06..... 105

Well 384343075230101 Local number Of22-07..... 106

Well 384344075230301 Local number Of22-08..... 107

Well 384344075230102 Local number Of22-09..... 108

Well 384341075230003 Local number Of22-10..... 109

Well 384341075230001 Local number Of22-11..... 110-111

Well 384333075222903 Local number Of23-01..... 112

Well 384333075222902 Local number Of23-02..... 113

Well 384333075222901 Local number Of23-03..... 114-115

Well 384341075223803 Local number Of23-04..... 116

Well 384341075223801 Local number Of23-05..... 117

Well 384341075223802 Local number Of23-06..... 118

Well 384038075110001 Local number Oh54-01..... 119

Well 384038075110002 Local number Oh54-02..... 120

Well 384258075063101 Local number Oi24-06..... 121

GROUND-WATER LEVELS-Continued

Page

DELAWARE:**SUSSEX COUNTY--Continued**

Well 383138075260201	Local number Qe44-01	122
Well 383050075105201	Local number Qh54-04	123
Well 383050075105202	Local number Qh54-05	124
Well 383050075105203	Local number Qh54-06	125
Well 383050075105204	Local number Qh54-07	126
Well 383210075035802	Local number Qj32-17	127
Well 382808075030501	Local number Rj22-05	128
Well 382808075030502	Local number Rj22-06	129
Well 382808075030503	Local number Rj22-07	130
Well 382808075030504	Local number Rj22-08	131

MARYLAND:**ALLEGANY COUNTY**

Well 394024078273401	Local number AL Ah 1	132
Well 393930078460901	Local number AL Bd 2	133
Well 393009079025201	Local number AL Ca 19	134
Well 393148079010601	Local number AL Ca 20	135

ANNE ARUNDEL COUNTY

Well 391101076404001	Local number AA Ac 11	136
Well 391015076373501	Local number AA Ad 29	137
Well 391032076385902	Local number AA Ad 90	138
Well 391032076385904	Local number AA Ad 102	139
Well 391032076385906	Local number AA Ad 108	140
Well 391006076380101	Local number AA Ad 109	141-142
Well 391032076385907	Local number AA Ad 110	143
Well 390950076391101	Local number AA Bd 91	144
Well 390821076365401	Local number AA Bd 152	145-146
Well 390938076383701	Local number AA Bd 155	147-148
Well 390922076371001	Local number AA Bd 156	149-150
Well 390737076374401	Local number AA Bd 157	151-152
Well 390744076390001	Local number AA Bd 158	153
Well 390737076374402	Local number AA Bd 159	154
Well 390908076394402	Local number AA Bd 160	155-156
Well 390945076285601	Local number AA Bf 3	157
Well 390303076463201	Local number AA Cb 1	158-159
Well 390423076432001	Local number AA Cc 40	160
Well 390450076343402	Local number AA Ce 117	161-162
Well 390150076283003	Local number AA Cf 98	163
Well 390150076283002	Local number AA Cf 99	164
Well 390123076241602	Local number AA Cg 23	165-166
Well 390127076240301	Local number AA Cg 25	167
Well 385808076373502	Local number AA Dd 42	168
Well 385915076340401	Local number AA De 1	169-170
Well 385920076322401	Local number AA De 140	171
Well 385920076322402	Local number AA De 144	172
Well 385921076270701	Local number AA Df 19	173
Well 385916076270702	Local number AA Df 20	174-175
Well 385905076293601	Local number AA Df 79	176-177
Well 385623076274401	Local number AA Df 103	178
Well 385406076383901	Local number AA Ed 45	179
Well 384646076352401	Local number AA Fd 43	180

BALTIMORE CITY

Well 391617076322001	Local number 2S5E- 1	181
Well 391600076353301	Local number 3S2E- 5	182
Well 391556076315301	Local number 3S5E- 46	183
Well 391349076354501	Local number 5S2E- 24	184

BALTIMORE COUNTY

Well 393129076384201	Local number BA Cd 26	185
Well 393102076341801	Local number BA Ce 21	186
Well 392931076410301	Local number BA Dc 444	187
Well 392045076512501	Local number BA Ea 18	188
Well 392305076432001	Local number BA Ec 43	189
Well 391607076312901	Local number BA Fe 19	190
Well 391356076293501	Local number BA Gf 11	191
Well 391257076282501	Local number BA Gf 168	192
Well 391226076253401	Local number BA Gf 178	193

CALVERT COUNTY

Well 384331076395201	Local number CA Bb 27	194
Well 384334076394501	Local number CA Bb 28	195
Well 383930076314301	Local number CA Cc 18	196
Well 383934076320202	Local number CA Cc 39	197-198
Well 383605076344601	Local number CA Cc 57	199
Well 383239076354201	Local number CA Db 47	200
Well 383216076351401	Local number CA Db 65	201
Well 383216076351402	Local number CA Db 66	202
Well 383216076351403	Local number CA Db 67	203
Well 383050076305501	Local number CA Dc 35	204
Well 382343076302901	Local number CA Fc 13	205-206
Well 382340076303002	Local number CA Fc 16	207-208
Well 382340076303801	Local number CA Fc 18	209-210
Well 382339076304202	Local number CA Fc 34	211-212
Well 382408076260401	Local number CA Fd 51	213
Well 382407076260301	Local number CA Fd 54	214
Well 382318076242401	Local number CA Fe 22	215
Well 381952076270901	Local number CA Gd 6	216

GROUND-WATER LEVELS-Continued

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MARYLAND-Continued:**CAROLINE COUNTY**

Well 390333075504501	Local number CO Bc	1	217
Well 390227075470201	Local number CO Bd	53	218
Well 385310075503601	Local number CO Dc	129	219
Well 385217075490601	Local number CO Dd	47	220

CARROLL COUNTY

Well 394008077005601	Local number CL Ad	47	221
Well 393638076510001	Local number CL Bf	1	222
Well 393754076512401	Local number CL Bf	184	223
Well 392259077052401	Local number CL Ec	75	224

CECIL COUNTY

Well 393637075535001	Local number CE Be	73	225
Well 393637075535002	Local number CE Be	74	226
Well 393615075475901	Local number CE Bf	81	227
Well 393537075492001	Local number CE Bf	82	228
Well 393432075593601	Local number CE Cd	51	229
Well 393432075593602	Local number CE Cd	52	230
Well 3932160755564201	Local number CE Cd	53	231
Well 393433075544901	Local number CE Ce	54	232
Well 393241075500201	Local number CE Ce	55	233
Well 393026075523101	Local number CE Ce	56	234
Well 392536075593201	Local number CE Dd	81	235
Well 392403075521801	Local number CE Ee	29	236

CHARLES COUNTY

Well 383524077111802	Local number CH Bb	17	237-238
Well 383524077094401	Local number CH Bc	5	239-240
Well 383633077083001	Local number CH Bc	24	241-242
Well 383819076555501	Local number CH Be	43	243-244
Well 383706076575601	Local number CH Be	57	245
Well 383706076575604	Local number CH Be	60	246
Well 383853076532601	Local number CH Bf	101	247-248
Well 383640076545901	Local number CH Bf	133	249
Well 383728076531701	Local number CH Bf	134	250
Well 383508076540701	Local number CH Bf	146	251
Well 383508076540703	Local number CH Bf	151	252-253
Well 383637076545803	Local number CH Bf	157	254
Well 383732076531902	Local number CH Bf	158	255
Well 383746076482901	Local number CH Bg	12	256
Well 383652076495701	Local number CH Bg	13	257
Well 383422077114601	Local number CH Cb	7	258-259
Well 383236076563901	Local number CH Ce	37	260-261
Well 383340076511601	Local number CH Cf	33	262
Well 382607077002601	Local number CH Dd	33	263
Well 382925077010101	Local number CH Dd	38	264
Well 382927076552301	Local number CH De	45	265
Well 382103076560201	Local number CH Ee	16	266
Well 382154076574801	Local number CH Ee	70	267
Well 382240076582801	Local number CH Ee	78	268-269
Well 382456076562201	Local number CH Ee	90	270

DORCHESTER COUNTY

Well 383708075503801	Local number DO Bg	59	271
Well 383151076080801	Local number DO Cd	1	272
Well 383340076041601	Local number DO Ce	5	273
Well 383408076042402	Local number DO Ce	15	274
Well 383346076030301	Local number DO Ce	21	275
Well 383243076042301	Local number DO Ce	78	276
Well 383401076032001	Local number DO Ce	88	277
Well 382800076180701	Local number DO Db	17	278
Well 382807076175801	Local number DO Db	18	279
Well 382847076190901	Local number DO Db	19	280
Well 382916075491702	Local number DO Dh	27	281-282

FREDRICK COUNTY

Well 394200077190701	Local number FR Af	27	283
Well 393733077274801	Local number FR Bd	96	284
Well 393156077135701	Local number FR Cg	1	285
Well 392517077190401	Local number FR Df	35	286
Well 392257077095601	Local number FR Eh	11	287

GARRETT COUNTY

Well 394017078581701	Local number GA Ag	1	288
Well 393749079190301	Local number GA Bc	1	289
Well 392439079231801	Local number GA Eb	78	290
Well 391512079270901	Local number GA Fa	28	291
Well 391512079270902	Local number GA Fa	29	292
Well 391539079254601	Local number GA Fa	31	293
Well 391539079254602	Local number GA Fa	32	294
Well 391539079254603	Local number GA Fa	33	295
Well 391539079254604	Local number GA Fa	34	296
Well 391501079260001	Local number GA Fa	38	297
Well 391530079244401	Local number GA Fb	22	298
Well 391530079244403	Local number GA Fb	24	299
Well 391530079244404	Local number GA Fb	25	300
Well 391513079243602	Local number GA Fb	27	301
Well 391513079243605	Local number GA Fb	30	302
Well 391602079240301	Local number GA Fb	31	303
Well 391602079240302	Local number GA Fb	32	304
Well 391602079240304	Local number GA Fb	34	305
Well 391715079223105	Local number GA Fb	39	306
Well 391420079264901	Local number GA Ga	16	307

GROUND-WATER LEVELS-Continued

MARYLAND-Continued:**HARFORD COUNTY**

Well 393902076160001	Local number	HA Bd	31	308
Well 393158076302601	Local number	HA Ca	23	309
Well 392529076180901	Local number	HA Dd	89	310
Well 392721076150301	Local number	HA Dd	91	311
Well 392721076150302	Local number	HA Dd	92	312
Well 392557076161601	Local number	HA Dd	106	313
Well 392921076100401	Local number	HA De	66	314
Well 392628076133101	Local number	HA De	151	315
Well 392606076145801	Local number	HA De	181	316
Well 392606076145802	Local number	HA De	182	317
Well 392606076145803	Local number	HA De	183	318
Well 392914076110301	Local number	HA De	195	319
Well 392819076130901	Local number	HA De	197	320
Well 392819076130902	Local number	HA De	198	321-322
Well 392435076203301	Local number	HA Ec	11	323
Well 392408076210101	Local number	HA Ec	46	324
Well 392408076210102	Local number	HA Ec	47	325
Well 392343076161901	Local number	HA Ed	24	326
Well 392455076192101	Local number	HA Ed	47	327
Well 392455076192102	Local number	HA Ed	48	328
Well 392455076192103	Local number	HA Ed	49	329
Well 391817076173701	Local number	HA Fd	6	330-331
Well 391816076173801	Local number	HA Fd	8	332-333
Well 391814076173801	Local number	HA Fd	21	334-335
Well 391814076173803	Local number	HA Fd	23	336-337
Well 391825076172601	Local number	HA Fd	26	338-339
Well 391825076172603	Local number	HA Fd	28	340-341
Well 391812076173101	Local number	HA Fd	29	342-343
Well 391812076173103	Local number	HA Fd	31	344-345
Well 391809076174301	Local number	HA Fd	32	346-347
Well 391809076174303	Local number	HA Fd	34	348-349
Well 391809076174601	Local number	HA Fd	35	350-351
Well 391809076174603	Local number	HA Fd	37	352-353
Well 391826076173101	Local number	HA Fd	38	354-355
Well 391826076173103	Local number	HA Fd	40	356-357
Well 391810076172801	Local number	HA Fd	44	358-359
Well 391810076172803	Local number	HA Fd	46	360-361

HOWARD COUNTY

Well 391910076565701	Local number	HO Bd	1	362
Well 391001076540001	Local number	HO Ce	38	363

KENT COUNTY

Well 392007076075501	Local number	KE Ac	20	364
Well 391659976050402	Local number	KE Bc	185	365
Well 391650076050403	Local number	KE Bc	186	366
Well 391823075594701	Local number	KE Be	43	367
Well 391643075550901	Local number	KE Be	171	368
Well 391815075472101	Local number	KE Bg	33	369
Well 391815075472102	Local number	KE Bg	34	370
Well 391400076101401	Local number	KE Cb	36	371
Well 391124076101001	Local number	KE Cb	97	372
Well 391124076101002	Local number	KE Cb	98	373
Well 391124076101003	Local number	KE Cb	99	374
Well 391124076101004	Local number	KE Cb	100	375
Well 391251076142201	Local number	KE Cb	101	376
Well 391124076101005	Local number	KE Cb	103	377
Well 391432076015501	Local number	KE Cd	44	378
Well 390837076140401	Local number	KE Db	40	379
Well 390626076083301	Local number	KE Dc	89	380
Well 390626076083302	Local number	KE Dc	91	381

MONTGOMERY COUNTY

Well 391142077280601	Local number	MO Cb	26	382
Well 391314077224201	Local number	MO Cc	14	383
Well 390802077283801	Local number	MO Db	68	384
Well 390917077244401	Local number	MO Dc	59	385
Well 390451077245901	Local number	MO Ec	10	386
Well 390434076573002	Local number	MO Eh	20	387

PRINCE GEORGES COUNTY

Well 390151076561501	Local number	PG Bc	16	388
Well 385130076465501	Local number	PG De	21	389
Well 385152076431301	Local number	PG Df	2	390
Well 384423077004501	Local number	PG Fb	36	391
Well 384230076555501	Local number	PG Fc	17	392
Well 384131076533301	Local number	PG Fd	41	393
Well 383228076410601	Local number	PG Hf	35	394
Well 383348076411301	Local number	PG Hf	40	395-396
Well 383348076411302	Local number	PG Hf	41	397-398
Well 383348076411303	Local number	PG Hf	42	399-400
Well 383250076405304	Local number	PG Hf	44	401

GROUND-WATER LEVELS-Continued

MARYLAND-Continued:**QUEEN ANNES COUNTY**

Well 391203076024301	Local number QA Be	15	402
Well 391203076024302	Local number QA Be	16	403
Well 391203076024303	Local number QA Be	17	404
Well 390841075515201	Local number QA Cg	1	405
Well 390201076182701	Local number QA Db	30	406
Well 390201076182703	Local number QA Db	32	407
Well 390023076174301	Local number QA Db	34	408
Well 390119076191001	Local number QA Db	35	409
Well 390023076174302	Local number QA Db	37	410
Well 385718076211501	Local number QA Ea	77	411
Well 385718076211502	Local number QA Ea	78	412
Well 385757076200101	Local number QA Ea	79	413
Well 385757076200102	Local number QA Ea	80	414
Well 385718076211503	Local number QA Ea	81	415
Well 385751076171603	Local number QA Eb	110	416
Well 385751076171601	Local number QA Eb	111	417
Well 385751076171602	Local number QA Eb	112	418
Well 385748076172001	Local number QA Eb	113	419
Well 385843076155302	Local number QA Eb	155	420
Well 385852076195201	Local number QA Eb	156	421
Well 385852076195202	Local number QA Eb	157	422
Well 385756076105301	Local number QA Ec	1	423
Well 385534075573601	Local number QA Ef	29	424
Well 385429076120201	Local number QA Fc	7	425

ST. MARYS COUNTY

Well 382838076470101	Local number SM Bb	15	426
Well 382838076470102	Local number SM Bb	22	427
Well 381616076364701	Local number SM Dd	46	428
Well 381616076364702	Local number SM Dd	49	429
Well 381807076380001	Local number SM Dd	50	430
Well 381616076364703	Local number SM Dd	62	431
Well 381615076364701	Local number SM Dd	63	432
Well 381841076284401	Local number SM Df	66	433
Well 381527076283101	Local number SM Df	71	434
Well 381548076272102	Local number SM Df	84	435
Well 381052076253001	Local number SM Ef	80	436
Well 381213076222801	Local number SM Eg	27	437
Well 380834076303401	Local number SM Fe	30	438
Well 380834076303402	Local number SM Fe	31	439
Well 380711076222201	Local number SM Fg	45	440

SOMERSET COUNTY

Well 381156075412501	Local number SO Be	42	441
Well 380927075423701	Local number SO Ce	42	442-443
Well 380616075380701	Local number SO Cf	2	444

TALBOT COUNTY

Well 385242075593101	Local number TA Bf	73	445
Well 385242075593102	Local number TA Bf	74	446
Well 384923076100601	Local number TA Cc	35	447
Well 384514076103701	Local number TA Cc	36	448
Well 384643076043801	Local number TA Ce	7	449

WASHINGTON COUNTY

Well 394154078103501	Local number WA Ac	1	450
Well 393638078001301	Local number WA Be	2	451
Well 393851077343001	Local number WA Bk	25	452
Well 393414077461801	Local number WA Ch	106	453
Well 393402077434201	Local number WA Ci	82	454
Well 392904077371501	Local number WA Dj	2	455

WICOMICO COUNTY

Well 382150075352101	Local number WI Ce	13	456
Well 382404075355401	Local number WI Ce	204	457
Well 382439075355301	Local number WI Ce	210	458-459
Well 382336075352101	Local number WI Ce	213	460-461
Well 382037075310801	Local number WI Cf	3	462
Well 382429075344501	Local number WI Cf	147	463
Well 382329075263701	Local number WI Cg	20	464

GROUND-WATER LEVELS-Continued

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MARYLAND-Continued:**WORCESTER COUNTY**

Well 382621075174201	Local number WO Ae	23.....	465
Well 382621075174202	Local number WO Ae	24.....	466
Well 382621075174203	Local number WO Ae	25.....	467
Well 382632075031801	Local number WO Ah	6.....	468
Well 382635075030601	Local number WO Ah	35.....	469
Well 382635075030602	Local number WO Ah	36.....	470
Well 382635075030603	Local number WO Ah	37.....	471
Well 382022075072401	Local number WO Bg	1.....	472
Well 382359075094501	Local number WO Bg	15.....	473
Well 382358075094501	Local number WO Bg	45.....	474
Well 382358075094502	Local number WO Bg	46.....	475
Well 382325075063301	Local number WO Bg	47.....	476-477
Well 382325075063302	Local number WO Bg	48.....	478-479
Well 382038075065901	Local number WO Bg	49.....	480-481
Well 382215075041801	Local number WO Bh	31.....	482-483
Well 382443075033501	Local number WO Bh	34.....	484-485
Well 382215075041901	Local number WO Bh	84.....	486
Well 382215075041902	Local number WO Bh	85.....	487
Well 382215075041903	Local number WO Bh	89.....	488-489
Well 382127075043802	Local number WO Bh	98.....	490-491
Well 381939075052101	Local number WO Cg	72.....	492
Well 381037075234301	Local number WO Dd	7.....	493
Well 381457075174101	Local number WO De	36.....	494
Well 381427075081102	Local number WO Dg	21.....	495
Well 380408075335701	Local number WO Fb	2.....	496

WATER-QUALITY DATA, WATER YEAR 1994, NOT AVAILABLE FOR THE 1994 GROUND-WATER VOLUME

MARYLAND:**CECIL COUNTY**

Well 394038076061701	Local number CE Ab	85	498-500
Well 394127075583101	Local number CE Ad	67	498-500

HARFORD COUNTY

Well 393504076133601	Local number HA Be	39	501-504
Well 393828076294501	Local number HA Bb	104	501-504
Well 394209076164301	Local number HA Ad	15	501-504
Well 394240076263501	Local number HA Ab	12	501-504

HOWARD COUNTY

Well 391440076555402	Local number HO Cd	78	505-506
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WATER-QUALITY DATA, WATER YEAR 1995

DELAWARE:**KENT COUNTY**

Piezometer 390724075352102	Local number IB1-C-GW		507
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NEWCASTLE COUNTY

Piezometer 391815075433802	Local number CB11-B-GW		508
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SUSSEX COUNTY

Piezometer 384129075380602	Local number BB2-J-GW		509
Piezometer 384203075395602	Local number BB6-L-GW		509
Piezometer 384528075245702	Local number GD3-F-GW		509
Piezometer 384608075245202	Local number GD4-H-GW		509
Piezometer 383917075130702	Local number PB6-C-GW		509
Piezometer 383930075123102	Local number PB7-B-GW		509

MARYLAND:**ALLEGANY COUNTY**

Well 394116078252401	Local number AL Ah	27	510-511
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BALTIMORE COUNTY

Well 394206076470201	Local number BA Ab	51	512-532
Well 394011076465601	Local number BA Ab	52	512-532
Well 394057076423301	Local number BA Ac	151	512-532
Well 394130076360101	Local number BA Ad	145	512-532
Well 394019076374501	Local number BA Ad	146	512-532
Well 394243076383201	Local number BA Ad	147	512-532
Well 394303076355401	Local number BA Ad	148	512-532
Well 394250076370801	Local number BA Ad	149	512-532
Well 394013076343001	Local number BA Ae	19	512-532
Well 393543076451301	Local number BA Bb	138	512-532
Well 393843076462401	Local number BA Bb	139	512-532
Well 393746076470001	Local number BA Bb	140	512-532
Well 393723076471401	Local number BA Bb	141	512-532
Well 393607076485001	Local number BA Bb	143	512-532
Well 393544076463401	Local number BA Bb	144	512-532
Well 393540076455801	Local number BA Bb	145	512-532
Well 393641076493501	Local number BA Bb	147	512-532
Well 393707076450801	Local number BA Bb	148	512-532
Spring 393639076480601	Local number BA Bb	150	512-532
Well 393643076480201	Local number BA Bb	151	512-532
Well 393633076443801	Local number BA Bc	267	512-532
Well 393929076441301	Local number BA Bc	268	512-532
Well 393918076412801	Local number BA Bc	270	512-532
Well 393818076411501	Local number BA Bc	271	512-532
Well 393803076420101	Local number BA Bc	272	512-532
Well 393755076402801	Local number BA Bc	273	512-532
Well 393639076435501	Local number BA Bc	274	512-532
Well 393534076401601	Local number BA Bc	275	512-532
Well 393902076371301	Local number BA Bd	225	512-532
Well 393936076352101	Local number BA Bd	226	512-532
Well 393928076381301	Local number BA Bd	227	512-532
Well 393741076380601	Local number BA Bd	229	512-532
Well 393732076354101	Local number BA Bd	231	512-532
Well 393554076384401	Local number BA Bd	232	512-532
Well 393519076344701	Local number BA Be	38	512-532
Well 393355076501901	Local number BA Ca	66	512-532
Well 393222076510501	Local number BA Ca	69	512-532
Well 393119076454501	Local number BA Cb	136	512-532
Well 393403076454201	Local number BA Cb	137	512-551
Well 393237076495601	Local number BA Cb	138	533-551
Well 393228076493201	Local number BA Cb	139	533-551
Well 393456076494601	Local number BA Cb	141	533-551
Well 393221076483401	Local number BA Cb	142	533-551

QUALITY OF GROUND WATER--Continued

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MARYLAND:**BALTIMORE COUNTY--Continued**

Well 393427076412201	Local number BA Cc 253	533-551
Well 393002076334501	Local number BA Cc 255	533-551
Well 393117076440101	Local number BA Cc 256	533-551
Well 393058076441701	Local number BA Cc 257	533-551
Well 393340076442501	Local number BA Cc 258	533-551
Well 393402076350901	Local number BA Cd 231	533-551
Well 393442076375301	Local number BA Cd 232	533-551
Well 393352076365301	Local number BA Cd 234	533-551
Well 393313076373701	Local number BA Cd 235	533-551
Well 393219076371901	Local number BA Cd 236	533-551
Spring 393212076365901	Local number BA Cd 237	533-551
Well 393221076375701	Local number BA Cd 238	533-551
Well 393155076385301	Local number BA Cd 239	533-551
Well 393019076391401	Local number BA Cd 241	533-551
Well 393002076354001	Local number BA Ce 311	533-551
Well 393035076331701	Local number BA Ce 312	533-551
Well 393143076332601	Local number BA Ce 313	533-551
Well 392538076510101	Local number BA Da 123	533-551
Well 392841076400201	Local number BA Dc 445	533-551
Well 392730076420301	Local number BA Dc 448	533-551
Well 392808076412401	Local number BA Dc 449	533-551
Well 392650076433901	Local number BA Dc 450	533-551
Well 392928076380601	Local number BA Dd 300	533-551
Spring 392923076324901	Local number BA De 632	533-551
Well 392859076323601	Local number BA De 633	533-551
Well 392656076312001	Local number BA De 635	552-561
Well 392959076310401	Local number BA De 636	552-561
Well 392837076333401	Local number BA De 637	552-561
Well 392546076334501	Local number BA De 638	552-561
Well 392605076254601	Local number BA Df 351	552-561
Well 392814076271101	Local number BA Df 352	552-561
Well 392610076241701	Local number BA Dg 117	552-561
Well 392206076503201	Local number BA Ea 90	552-561
Well 392341076521801	Local number BA Ea 92	552-561
Well 392358076500901	Local number BA Ea 93	552-561
Well 392159076520101	Local number BA Ea 95	552-561
Well 392025076465301	Local number BA Eb 291	552-561
Well 392430076410301	Local number BA Ec 203	552-561
Well 392434076404301	Local number BA Ec 204	552-561
Well 391857076474301	Local number BA Fb 81	552-561

CALVERT COUNTY

Well 382343076302901	Local number CA Fc 13	562-564
Well 382340076303002	Local number CA Fc 16	562-564
Well 382340076303801	Local number CA Fc 18	562-564
Lysimeter 382340076303401	Local number CA Fc 28	562-564
Lysimeter 382340076303402	Local number CA Fc 29	562-564
Lysimeter 382340076303403	Local number CA Fc 30	562-564
Lysimeter 382340076303802	Local number CA Fc 31	562-564
Lysimeter 382340076303803	Local number CA Fc 32	562-564
Well 382339076304202	Local number CA Fc 34	562-564

CAROLINE COUNTY

Well 385302075540101	Local number CO Dc 146	566
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CARROLL COUNTY

Well 393754076512401	Local number CL Bf 184	567-568
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FREDERICK COUNTY

Well 393000077193601	Local number FR Cf 36	569-571
Well 392826077244801	Local number FR De 58	569-571
Well 392719077202801	Local number FR De 76	569-571
Well 391537077284601	Local number FR Fd 16	569-571
Well 391910077260002	Local number FR Fd 90	569-571

HARFORD COUNTY

Well 393158076302601	Local number HA Ca 23	572
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HOWARD COUNTY

Well 391440076555402	Local number HO Cd 78	573
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KENT COUNTY

Well 391832075560802	Local number KE Be 47	574
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QUEEN ANNES COUNTY

Well 390055076184501	Local number QA Db 14	575-576
Well 390059076191801	Local number QA Db 17	575-576
Well 390033076184501	Local number QA Db 23	575-576
Well 390117076191301	Local number QA Db 27	575-576
Well 390201076182701	Local number QA Db 30	575-576
Well 390201076182703	Local number QA Db 32	575-576
Well 390023076174301	Local number QA Db 34	575-576
Well 390119076191001	Local number QA Db 35	575-576
Well 390023076174302	Local number QA Db 37	575-576

QUALITY OF GROUND WATER--Continued

MARYLAND:**QUEEN ANNES COUNTY--Continued**

Well 385825076202901	Local number QA Ea	39	575-576
Well 385820076202501	Local number QA Ea	42	575-576
Well 385554076213801	Local number QA Ea	45	575-576
Well 385825076201201	Local number QA Ea	48	575-576
Well 385825076261201	Local number QA Ea	48	575-576
Well 385505076215001	Local number QA Ea	59	575-576
Well 385701076212501	Local number QA Ea	60	575-576
Well 385742076205801	Local number QA Ea	71	575-576
Well 385718076211501	Local number QA Ea	77	575-576
Well 385718076211502	Local number QA Ea	78	575-576
Well 385757076200102	Local number QA Ea	80	575-576
Well 385718076211503	Local number QA Ea	81	575-576
Well 385705076212002	Local number QA Ea	82	575-576
Well 385705076212001	Local number QA Ea	83	575-576
Well 385843076155302	Local number QA Eb	155	575-576
Well 385852076195201	Local number QA Eb	156	575-576
Well 385852076195202	Local number QA Eb	157	575-576
Well 385354076212701	Local number QA Fa	49	575-576
Well 385024076222501	Local number QA Fa	54	575-576
Well 385133076201201	Local number QA Fa	58	575-576
Well 385254076201901	Local number QA Fa	60	575-576
Well 385434076215601	Local number QA Fa	63	575-576
Well 385454076214901	Local number QA Fa	64	577
Well 385236076215201	Local number QA Fa	66	577
Well 385023076222201	Local number QA Fa	67	577
Well 385254076201301	Local number QA Fa	72	577
Well 385227076215401	Local number QA Fa	74	577
Well 385155076200401	Local number QA Fa	75	577

ST MARYS COUNTY

Well 381537076272401	Local number SM Df	42	578
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WASHINGTON COUNTY

Well 394115077461501	Local number WA Ah	63	579-581
Well 394301077423601	Local number WA Ai	56	579-581
Well 394253077390501	Local number WA Aj	75	579-581
Well 394219077335301	Local number WA Ak	99	579-581
Well 393512077451701	Local number WA Bh	73	579-581
Well 393625077375501	Local number WA Bj	141	579-581
Well 393211077470001	Local number WA Ch	60	579-581
Well 393024077402901	Local number WA Ci	131	579-581
Spring 392836077442701	Local number WA Di	103	579-581

WICOMICO COUNTY

Well 382443075355301	Local number WI Ce	200	583-583
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WORCESTER COUNTY

Well 382632075031901	Local number WO Ah	34	584-585
Well 382332075141802	Local number WO Bf	87	584-585
Well 382214075041901	Local number WO Bh	28	584-585
Well 382215075041901	Local number WO Bh	84	584-585
Well 382215075041902	Local number WO Bh	85	584-585
Well 382041075045301	Local number WO Bh	88	584-585
Well 382215075041903	Local number WO Bh	89	584-585
Well 382304075040601	Local number WO Bh	93	584-585
Well 382127075043803	Local number WO Bh	97	584-585
Well 382127075043802	Local number WO Bh	98	584-585
Well 381941075052201	Local number WO Cg	32	584-585
Well 381939075052102	Local number WO Cg	75	584-585

WATER RESOURCES DATA - MARYLAND AND DELAWARE, 1995

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 Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Maryland and Delaware."

This series of annual reports for Maryland and Delaware began with the 1961 water year with a 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 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 thru Patuxent River) 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 1995 series and includes records of water levels and water quality of ground-water wells and springs. It contains records for water levels at 388 observation wells, discharge data for 5 springs, and water quality at 177 wells. Location of ground-water level wells are shown on figures 3 and 4. The location for the ground-water-quality sites are shown on figures 5 and 6. 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 Books and Open-File Reports Section, Federal Center, Bldg. 41, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the 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-95-2." 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. Data for the 1991-94 water years are also available on Compact Disc - Read Only Memory (CD-ROM).

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) 512-4800.

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, Anne P. Canby, Secretary of Transportation.

Delaware Department of Natural Resources and Environmental Control, Christopher Tulou,
Secretary of Natural Resources and Environmental Control.

Maryland Department of the Environment, Chesapeake Bay and Special Projects Program,
Robert M. Summers, Division Chief.

Maryland Department of Natural Resources, Tidewater Administration, Power Plant Research
and Investigation Program, William Hodges.

Baltimore County Department of Environmental Protection and Resource Management,
Stephen L. Mogilnicki, Hydrogeologist.

City of Salisbury, Department of Public Works, Newell W. Messick, Deputy Director.

Town of Ocean City, Dennis Dare, Ocean City Water Manager

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

U.S. Navy, Naval Surface Warfare Center, Indian Head Division, James Sirinakis, Utilities Division Chief.

The following organizations aided in collecting records:

Delaware: State Department of Natural Resources and Environmental Control, Water Resources Agency for New Castle County.

Organizations that provided data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Ground-Water Levels

Ground-water levels in water-table and artesian observation wells in Maryland and Delaware fluctuate in response to precipitation and ground-water withdrawal. Water-table levels were below normal levels in western Maryland at the beginning of the 1995 water year (fig. 1). Eastward, toward the Atlantic Ocean, water-table levels progressively dropped below average. This water-level condition was the result of storms discharging most of their precipitation on the far western mountain regions with smaller amounts accumulating in the east. Some local areas on the Delmarva Peninsula did receive occasional torrential showers during the summer months. Despite the less-than-average precipitation over the Maryland and Delaware region, no record-low water levels were recorded in water-table wells.

In the bi-State areas where artesian aquifers are the main source for municipal water supplies, the water levels continued to decline for most of the area. Water-level conditions are summarized below for each of the physiographic provinces:

Appalachian Plateau.-- Water-table levels were below normal at the beginning of the water year. Rain and snowstorms in November and early December accounted for water-table levels reaching normal levels for this time of year. In January and February, with a combination of freezing temperatures and light snowfalls, water levels declined to below-normal levels. With little rainfall in March and April, the slight rise in water levels occurred mainly due to snowmelt. A few heavy showers in May brought water-table levels to near normal for a brief period. Throughout the summer, local thunderstorms that normally develop in these mountain regions did not materialize as frequently, causing water-table levels to remain below normal for the rest of the water year.

Valley and Ridge.-- Ground-water-table levels were normal at the beginning of the 1995 water year. The water-table levels rose above normal in December and January as rain and snow showers recharged the ground-water system. With snowfalls in the winter being below normal, spring thaws resulted with minimal amounts of recharge. Precipitation during the spring and summer also amounted to lower than normal rainfall which kept ground-water levels below normal through the end of the water year.

Blue Ridge.-- Water-table levels were below normal at the beginning of the water year. Rain and snow showers in late November and early December caused ground-water levels to rise above normal. These water-table levels remained above normal throughout the winter months only to decline throughout the rest of the water year due to less-than-average precipitation.

Piedmont.-- Water-table levels at the beginning of the water year were below normal and remained below normal throughout the water year. Although rainfall was lower than average, no record-low water levels were recorded in Maryland or Delaware.

Coastal Plain.-- Water-table levels on the western shore of the Chesapeake Bay were slightly below normal at the beginning of the 1995 water year. Water-table levels remained below normal throughout the water year only to rise to normal or above normal levels when several rain storm events persisted for several days in the last few weeks of September. On the Delmarva Peninsula, water-table levels began below normal at the beginning of the water year and remained below normal except for brief periods during the summer months when local thunderstorms moved inland off the Atlantic Ocean.

Artesian aquifers on the western shore of the Chesapeake Bay lie close to their surface-recharge zones at the northwestern boundary with the Piedmont Physiographic Province. It is this outcrop belt where the 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 area. 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.

Artesian aquifers (identified in parentheses) in the following towns or areas of Maryland continued to decline due to the general regional increase in ground-water withdrawals: Annapolis and vicinity (Patapsco), Cecilton (Potomac), Charlotte Hall (Aquia), La Plata (Patapsco), Leonardtown (Aquia, Piney Point), Lexington Park (Aquia, Piney Point), Potomac Heights (Patuxent), Prince Frederick (Aquia), St. Charles (Patuxent, Lower Patapsco, Magothy), Solomons Island (Aquia), southern Anne Arundel County (Aquia), and Waldorf (Patuxent, Patapsco, Magothy).

The Aquia and Piney Point aquifers showed regional declines in Calvert, Caroline, Dorchester, St. Marys, and Talbot Counties in Maryland.

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 from the Maryland and Delaware Observation-Well Networks and observation wells from 10 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 these observation wells in Maryland and Delaware are shown in figure 3. The locations of project wells are shown in figure 4.

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 ensures 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 (see Latitude-Longitude System section on page 4). The secondary identification number is the 15-digit number.

Water levels are measured manually by steel tape or by an electric sensing device approximately every 4 to 6 weeks; some wells are equipped with continuous graph or punch tape 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 (Lsd) 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 4.)

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 4.)

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, 1974: Hydrologic Unit Map). Also a brief local description of the location is 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 U.S. Geological Survey 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 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 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 identify the date or dates of highest and lowest water-level measurements and the dates of their occurrence.

Spring Discharge Tables

A table of discharge in gallons per minute follows the station description for each spring. The data appears in a tabling format of date and discharge. The data 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 tabling format of date and water level with the datum in reference to land surface. 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, 1990 through September 30, 1995. Those hydrographs which display hand measured values are referenced to land surface 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.

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 only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is 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 the 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 these water-quality wells in Maryland and Delaware are shown in figure 5, and Baltimore County figure 6.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special 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. Such a view 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" 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 *ASTM* standards and generally follow *ISO* standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

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.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey 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 Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * **Station Header File** - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * **Daily Values File** - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperature, specific conductance, sediment concentrations, sediment discharges, and ground-water levels.
- * **Peak Flow File** - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * **Water Quality File** - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, radio-chemical characteristics of both surface and ground water.
- * **Ground-Water Site Inventory Data Base** - Contains inventory data for more than 900,000 well, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on **CD-ROM** discs. Beginning with the 1991 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (**CD-ROM**). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single **CD-ROM** disc. 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's District offices. (See address on the back of the title page.) A limited number of **CD-ROM** discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

DEFINITION OF TERMS

Terms related to water-quality and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

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

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

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.

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.

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.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which 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.

Fecal coliform bacteria are bacteria that 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.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which 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.

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 micro-organisms, such as bacteria.

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Cells/volume refers to the number of cells of any organism which 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, usually milliliters (mL) or liters (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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

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

Dissolved refers to that material in a representative water sample which passes through a 0.45 μ m membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water 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 of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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 and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

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

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.

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 ($\mu\text{g/g}$) 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 liter ($\mu\text{g/L}$, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/L , mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute 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.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity.

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 (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.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, **WATSTORE**, to uniquely identify a specific constituent. The codes used in **WATSTORE** are the same as those used in the U.S. Environmental Protection Agency data system, **STORET**. The U.S. Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited water-quality data are collected systematically over a period of years for use in hydrologic analyses.

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 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 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.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or 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 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, 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.

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

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Sea level: In this report "sea level" refers to the National Geodetic Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 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.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with 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 water-suspended sediment sample that is retained on a 0.45 um 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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A 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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Total is the total amount of a given constituent in a representative water-suspended sediment 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 all of the constituent in the sample.)

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment 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, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year 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, 1995, is called the "1995 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 abbreviation 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. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25286, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 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.
- 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.
- 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.
- 2-F1. **Application of drilling, coring, and sampling techniques to test holes and wells**, by Eugene Shuter, and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 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 Davidian: 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.
- 3-A12. **Fluorimetric procedures for dye tracing**, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 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.

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- 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, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter 18A. 1989. 52 pages.
- 3-A19. **Levels of streamflow gaging stations**, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 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.
- 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 Richard L. Cooley, and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 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.
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- 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.
- 4-A1. **Some statistical tools in hydrology**, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
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- 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.
- 5-C1. **Laboratory theory and methods for sediment analysis**, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

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- 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 3. 1993. 136 pages.
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- 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.
- 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.
- 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.

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, Book and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, Colorado 80225.

Professional Papers

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.

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.

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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.

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.

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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.

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. 1 map. scale 1:24,000.

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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. scale 1:24,000.

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Water-table, surface-drainage and engineering soils map of the Greenwood quadrangle, Delaware, by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 99. 1964. 1 map. scale 1:24,000.

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Water-table, surface-drainage and engineering soils map of the Milton quadrangle, Delaware, by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 102. 1964. 1 map. scale 1:24,000.

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. 1 map. scale 1:24,000.

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. 1 map. scale 1:24,000.

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Water-table, surface-drainage and engineering soils map of the Georgetown quadrangle, Delaware, by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 107. 1964. 1 map. scale 1:24,000.

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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.

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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.

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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.

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

Circular

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.

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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.

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 Investigation 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 Investigation No. 9. 1967. 28 pages.

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

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

Ground-water geology of the Delaware Atlantic seashore, by J.C. Miller: Delaware Geological Survey Report of Investigation 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 Investigation 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 Investigation No. 20. 1983. 12 pages.

Hydrogeology of selected sites in the greater Newark area, Delaware, by J.H. Talley: Delaware Geological Survey Report of Investigation 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 Investigation 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 Investigation 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 Investigation 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 Investigation 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 Investigation No. 29. 1979. 81 pages.

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

Hydrology of the Manokin, Ocean City, and Pokomoke aquifers of southeastern Delaware, by A.L. Hodges: Delaware Geological Survey Report of Investigation 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 Investigation 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 Investigation 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 Investigation No. 43. 1987. 37 pages.

Ground-water levels in Delaware, January 1978-December 1987, by J.H. Talley: Delaware Geological Survey Report of Investigation 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 Investigation 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 Investigation 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 Investigation No. 52. 1995. 31 pages.

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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.

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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.

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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. 14. 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.

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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.

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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.

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

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Hydrochemical facies and ground-water flow patterns in northern part of Atlantic Coastal Plain, by William Back: U.S. Geological Survey Professional Paper 498-A. 1966.

Relationships of fresh and salty ground water in the northern Atlantic Coastal Plain of the United States, in Geological Survey Research, by J.E. Upson: U.S. Geological Survey Professional Paper 550-C. 1966. p. C235-C243.

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.

Summary appraisals of the Nation's ground-water resources Mid-Atlantic Region, by Allen Sinnott, and E.M. Cushing: U.S. Geological Survey Professional Paper 813-I. 1976.

Water Desources of the Delmarva Peninsula, by E.M. Cushing, I.H. Kantrowitz, and K.R. Taylor: U.S. Geological Survey Professional Paper 822. 1973. 58 pages.

The regional aquifer system underlying the northern Atlantic Coastal Plain in parts of North Carolina, Virginia, Maryland, Delaware, New Jersey, and New York--Summary, by Henry Trapp, Jr., and Harold Meisler: U.S. Geological Survey Professional Paper 1404-A. 1992. 33 pages.

The occurrence and geochemistry of salty ground water in the northern Atlantic Coastal Plain, by Harold Meisler: U.S. Geological Survey Professional Paper 1404-D. 1989. 51 pages.

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

Conceptualization and analysis of ground-water flow system in the Coastal Plain of Virginia and adjacent parts of Maryland and North Carolina, by J.F. Harsh and R.J. Lazniak: U.S. Geological Survey Professional Paper 1404-F. 1990. 100 pages.

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Simulation of the ground-water flow system in 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, by P.P. Leahy, and Mary Martin: U.S. Geological Survey Professional Paper 1404-K. 1993. 81 pages.

Geochemistry of the northern Atlantic Coastal Plain aquifer system, by L.L. Knobel, F.H. Chapelle, and Harold Meisler: U.S. Geological Survey Professional Paper 1404-L. (in press)

Water-Supply Papers

Hydrologic budget of the Beaver Creek basin, Maryland, by W.C. Rasmussen, and G.E. Andreasen: U.S. Geological Survey Water-Supply Paper 1472. 1959. 106 pages.

Water resources of the Baltimore area, Maryland, by E.G. Otton, R.O.R. Martin and W.H. Durum: U.S. Geological Survey Water-Supply Paper 1499-F. 1964. pages 105.

Reverse Water-Level Fluctuations, by G.E. Andreasen and J.W. Brookhart in **Methods of Collecting and Interpreting Ground-Water Data**, compiled by Ray Bentall: U.S. Geological Survey Water-Supply Paper 1544-H. 1963. pages H30-H35.

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.

Geology and ground-water Resources of Washington, D.C., and vicinity, by P.M. Johnston: U.S. Geological Survey Water-Supply Paper 1776. 1964. 97 pages.

Geohydrologic reconnaissance of the Upper Potomac River basin, by F.W. Trainer, and F.A. Watkins, Jr.: U.S. Geological Survey Water-Supply Paper 2035. 1975. 68 pages.

Ground Water in the Piedmont Upland of Central Maryland, by C.A. Richardson: U.S. Geological Survey Water-Supply Paper 2077. 1982. 42 pages.

Test well DO-Ce 88 at Cambridge, Dorchester county, Maryland, by H. Trapp, Jr., L.L. Knobel, Harold Meisler, and P.P. Leahy: U.S. Geological Survey Water-Supply Paper 2229. 1984. 48 pages.

The effect of eustatic sea-level changes on saltwater-freshwater relations 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.

Maryland and the District of Columbia water supply and use, by J.C. Wheeler, in National Water Summary 1987--
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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.

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Water resources of southern Maryland, by J.M. Weigle, W.E. Webb, and R.A. Gardner: U.S. Geological Survey Hydrologic Investigation Atlas 365. 1970.

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Map showing the difference between the potentiometric surfaces of the Magothy aquifer of September 1975 and September 1982 in southern Maryland, F.K. Mack, J.C. Wheeler, and S.E. Curtin: U.S. Geological Survey Water-Resources Investigations Report 83-4283. 1983. 1 sheet.

Nitrate in the Columbia Aquifer, Central Delmarva Peninsula, Maryland, by L. J. Bachman: U.S. Geological Survey Water-Resources Investigations Report 84-4322. 51 pages.

The potentiometric surface of the Magothy aquifer in southern Maryland, September 1983, by F.K. Mack, J.C. Wheeler, and S.E. Curtin: U.S. Geological Survey Water-Resources Investigations Report 85-4000. 1985. 1 sheet.

The potentiometric surface of the Magothy aquifer in southern Maryland, September 1984, by F.K. Mack, J.C. Wheeler, and S.E. Curtin: U.S. Geological Survey Water-Resources Investigations Report 85-4203. 1985. 1 sheet.

Hydrogeology and water quality of the Catoctin Mountain National Park area, Frederick County, Maryland, by T.J. Trombley: U.S. Geological Survey Water-Resources Investigations Report 85-4241. 1985. 41 pages.

The difference between the potentiometric surfaces of the Magothy aquifer of September 1982 and September 1984 in southern Maryland, by F.K. Mack, J.C. Wheeler, S.E. Curtin and D.C. Andreasen: U.S. Geological Survey Water-Resources Investigations Report 85-4337. 1985. 1 sheet.

Preliminary map showing the potentiometric surface of the Aquia aquifer in southern Maryland, September 1984, by F.K. Mack, J.C. Wheeler, S.E. Curtin and D.C. Andreasen: U.S. Geological Survey Water-Resources Investigations Report 85-4338. 1985. 1 sheet.

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Reconnaissance of the groundwater, surface-water system in the Zekiah swamp Run Basin, Charles and Prince Georges Counties, Maryland, by H.T. Hopkins, G.T. Fisher, and L.J. McGreevy: U.S. Geological Survey Water-Resources Investigations Report 86-4097. 1986. 49 pages.

The Potentiometric surface of the Magothy aquifer in southern Maryland, September 1985, by F.K. Mack, J.C. Wheeler, S.E. Curtin, and D.C. Andreasen: U.S. Geological Survey Water-Resources Investigations Report 87-4025. 1987. 1 sheet.

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Potentiometric surface of the Aquia aquifer in southern Maryland during the fall of 1986, by F.K. Mack, J.C. Wheeler, S.E. Curtin, and D.C. Andreasen: U.S. Geological Survey Water-Resources Investigations Report 87-4214. 1987. 1 sheet.

Difference between the potentiometric surfaces of the Aquia aquifer in spring of 1979 and fall of 1986 in southern Maryland, by F.K. Mack, J.C. Wheeler, S.E. Curtin, and D.C. Andreasen: U.S. Geological Survey Water-Resources Investigations Report 87-4215. 1987. 1 sheet.

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Water Levels, chloride concentrations, and pumpage in the coastal aquifers of Maryland and Delaware, by D. J. Phelan: U.S. Geological Survey Water-Resources Investigations Report 87-4229. 1987. 106 pages.

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Hydrogeology of the Canal Creek area of Aberdeen Proving Ground Maryland, by J.P. Oliveros, and D.A. Vroblesky: U.S. Geological Survey Water-Resources Investigations Report 89-4021. 1989. 50 pages.

Inorganic and organic groundwater chemistry in the Canal Creek area of Aberdeen Proving Ground, Maryland, by M.M. Lorah, and D.A. Vroblesky: U.S. Geological Survey Water-Resources Investigations Report 89-4022. 1989. 97 pages.

Potentiometric surface of the Aquia aquifer in southern Maryland, during September 1988, by F.K. Mack, D.C. Andreasen, S.E. Curtin, and J.C. Wheeler: U.S. Geological Survey Water-Resources Investigations Report 90-4037. 1990. 1 sheet.

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Water withdrawal and use in Maryland, 1988-89, by J.C. Wheeler: U.S. Geological Survey Water-Resources Investigations Report 91-4179. 1992. 40 pages.

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Water withdrawal and use in Maryland, 1990-91, by J.C. Wheeler: U.S. Geological Survey Water-Resources Investigations Report 93-4225. 1993. 42 pages.

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Areas of shallow water table, Prince Georges County, Maryland, by C.A. Richardson: U.S. Geological Survey Open-File Report 76-194. 1976. 2 pages. 1 plate.

Availability of ground water in Prince Georges County, Maryland, by C.A. Richardson: U.S. Geological Survey Open-File Report 76-197. 1976. 6 pages. 4 plates.

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Finksburg quadrangle, Maryland, by J.F. Williams III: U.S. Geological Survey Open-File Report 79-1536. 1979. 50 pages.

Hampstead quadrangle, Maryland: Hydrogeology, by M.T. Duigon: U.S. Geological Survey Open-File Report 80-561. 1980. 50 pages.

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Hydrogeologic Atlas, Littlestown quadrangle, Carroll County, Maryland, by J.M. Weigle: U.S. Geological Survey Open-File Report 80-1015. 1981. 44 pages.

Phoenix quadrangle, Baltimore and Harford counties, Maryland: Hydrogeology, by E.G. Otton: U.S. Geological Survey Open-File Report 81-65. 1982. 46 pages.

Map showing the potentiometric surface of the Aquia aquifer May 19-23, 1980, by F.J. Chapelle, D.D. Drummond, and Tracey Curley: U.S. Geological Survey Open-File Report 81-416. 1982. 1 sheet.

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Summary of hydrogeologic data from a test well (1,725 Ft.) drilled in Tuckahoe State Park, Queen Anne's County, Maryland, by D.C. Andreasen, and H.J. Hansen: Maryland Geological Survey Open-File Report No. 87-02-3. 1987. 47 pages.

Selected geohydrologic characteristics of the Patapsco aquifers at Chalk Point, Prince George's County, by F.K. Mack: Maryland Geological Survey Open-File Report No. 88-02-4. 1988. 36 pages.

Hydrogeology and stratigraphy of a 1,515-Foot test Well drilled near Princess Anne, Somerset County, Maryland, by H.J. Hansen, and J.M. Wilson: Maryland Geological Survey Open-File Report No. 91-02-5. 1990. 59 pages.

Geohydrologic data for the Coastal Plain sediments underlying Broadneck peninsula, Anne Arundel County, Maryland, by F.K. Mack, and D.C. Andreasen: Maryland Geological Survey Open-File Report No. 92-02-6. 1991. 76 pages.

Stratigraphy of Upper Cretaceous and Tertiary sediments in a core-hole drilled near Chesterville, Kent County, Maryland, by H.J. Hansen: Maryland Geological Survey Open-File Report No. 93-02-7. 1992. 38 pages.

Information Circulars

The Electric Log: Geophysic's contribution to ground-water prospecting and evaluation, by H.J. Hansen: Maryland Geological Survey Information Circular No. 4. 1967. 11 pages.

Well yields in the bedrock aquifers of Maryland, by L.J. Nutter: Maryland Geological Survey Information Circular No. 16. 1974. 24 pages.

A digital simulation model of the Aquia aquifer in southern Maryland, by G.W. Kapple, and H.J. Hansen: Maryland Geological Survey Information Circular No. 20. 1976. 34 pages.

Hydrogeologic characteristics of the Waste Gate Formation, A new subsurface unit of the Potomac Group underlying the eastern Delmarva Peninsula, by H.J. Hansen: Maryland Geological Survey Information Circular No. 39. 1984. 24 pages.

Maps

Quadrangle Atlases

Cockeysville Quadrangle: Geology, hydrology, and mineral resources, by E.G. Otton, E.T. Cleaves, W.P. Crowley, K.R. Kuff, and Jurgen Reinhardt: Maryland Geological Survey Quadrangle Atlas No. 3. 1975. 8 maps.

White Marsh Quadrangle: Geology, hydrology, and mineral resources, by E.T. Cleaves, K.R. Kuff, W.P. Crowley, and Jurgen Reinhardt: Maryland Geological Survey Quadrangle Atlas No. 4. 1979. 3 maps. Five other maps for this atlas are available for inspection at MGS: by E.T. Cleaves, and E.G. Otton.

Jarrettsville Quadrangle hydrogeology, by L.J. Nutter: Maryland Geological Survey Quadrangle Atlas No. 5. 1977. 4 maps.

Bel Air Quadrangle hydrogeology, by L.J. Nutter: Maryland Geological Survey Quadrangle Atlas No. 6. 1977. 4 maps.

Hydrogeologic Atlas, Reisterstown Quadrangle, Baltimore County, Maryland, by M.T. Duigon, and W.P. Crowley: Maryland Geological Survey Quadrangle Atlas No. 7. 1983. 6 maps.

Hydrogeologic Atlas Westminster Quadrangle, Carroll County, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 9. 1979. 5 maps.

Hydrogeologic Atlas Winfield Quadrangle, Carroll County, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 10. 1980. 5 maps.

Hydrogeologic Atlas New Windsor Quadrangle, Carroll County, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 11. 1980. 5 maps.

Hydrogeologic Atlas Hampstead Quadrangle, Carroll County, Maryland, by M.T. Duigon: Maryland Geological Survey Quadrangle Atlas No. 12. 1981. 5 maps.

Hydrogeologic Atlas Lineboro Quadrangle, Carroll County, Maryland, by M.T. Duigon, E.G. Otton, and J.T. Hilleary: Maryland Geological Survey Quadrangle Atlas No. 13. 1981. 5 maps.

Hydrogeologic Atlas Littlestown Quadrangle, Carroll County, Maryland, by J.M. Weigle, and J.T. Hilleary: Maryland Geological Survey Quadrangle Atlas No. 14. 1981. 5 maps.

Hydrogeologic Atlas Manchester Quadrangle, Carroll County, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 15. 1981. 5 maps.

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.

Water-Supply Paper

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.

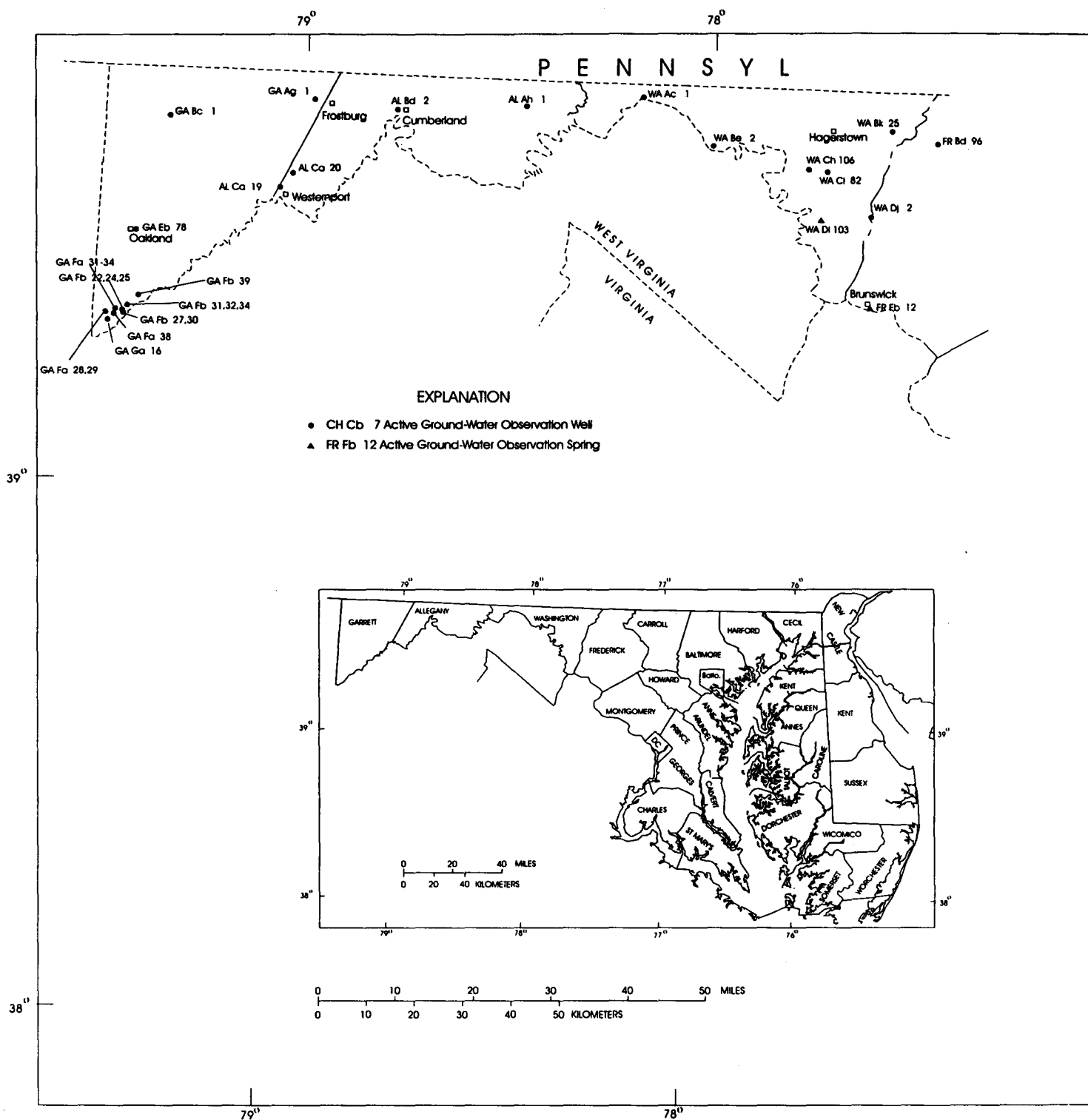
Maryland and the District of Columbia water supply and use, by J.C. Wheeler, in National Water Summary 1987-- Water supply and use: U.S. Geological Survey Water-Supply Paper 2350, 1989. pages 291-298.

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.

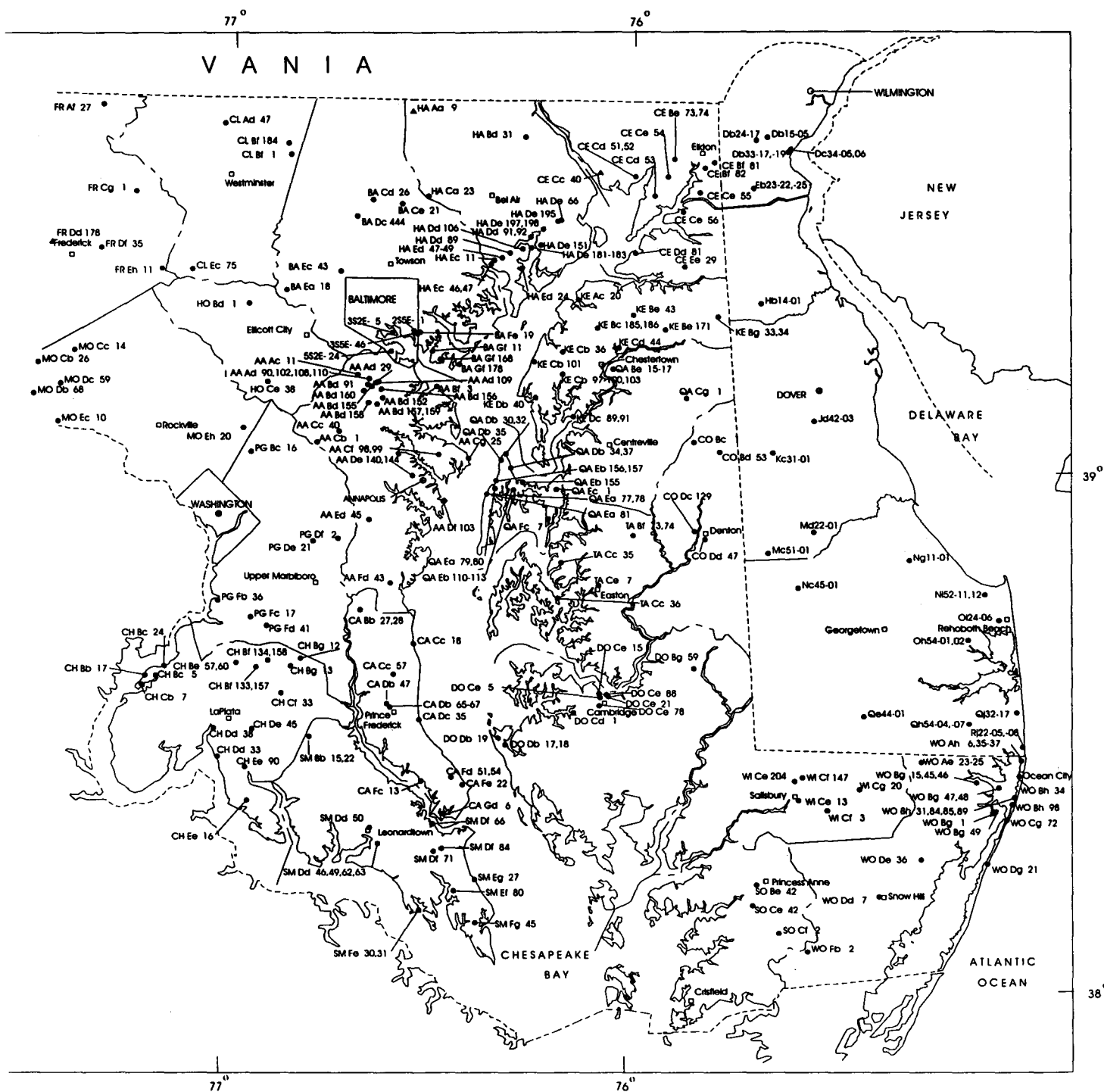
Circular

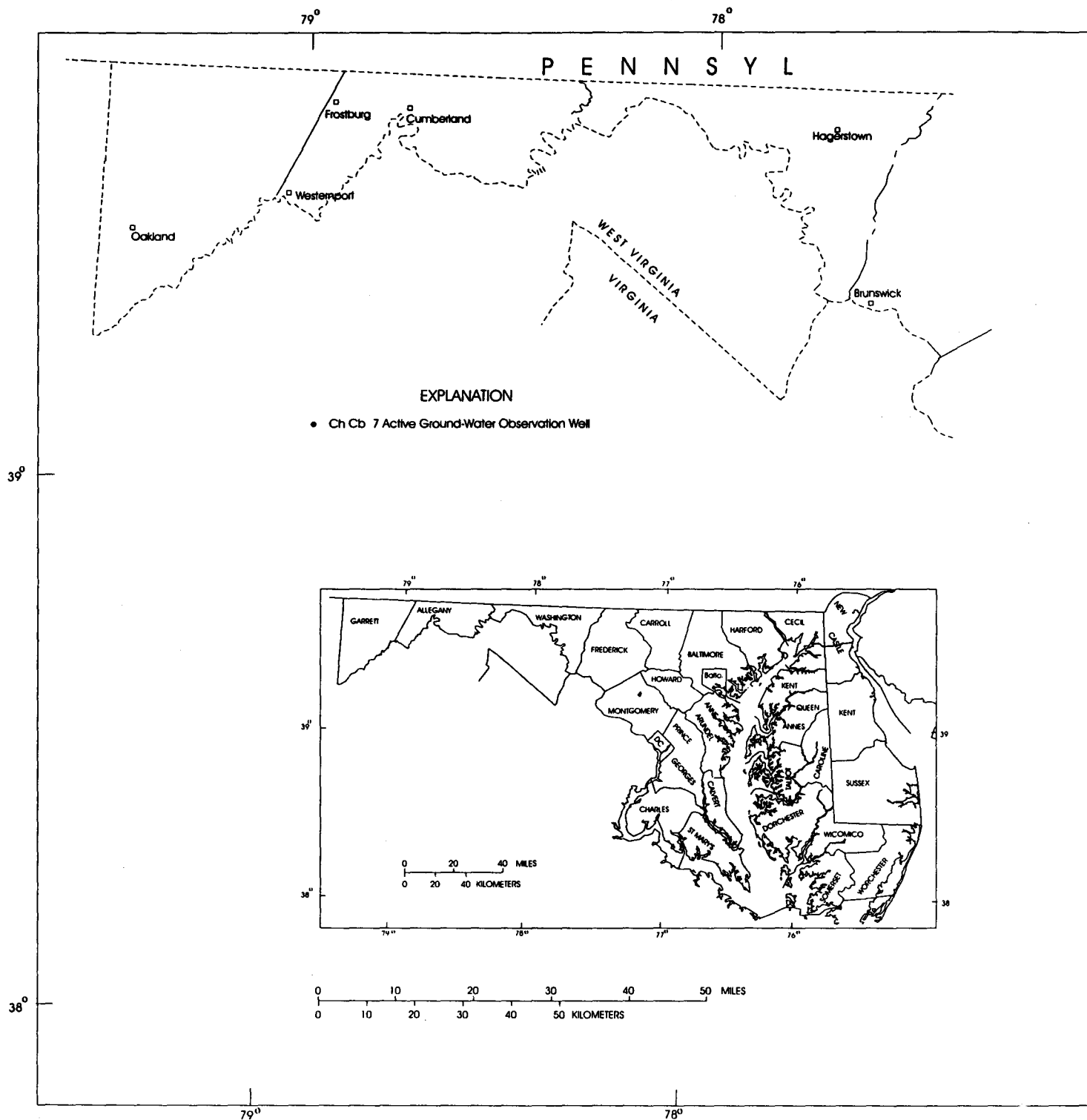
Water from the Coastal Plain aquifers in the Washington, D.C., metropolitan area, by S.S. Papadopoulos, R.R. Bennett, F.K. Mack, and P.C. Trescott: U.S. Geological Survey Circular 697. 1974. 11 pages.



Base map modified from US Geological Survey 1:100 000 D.G.

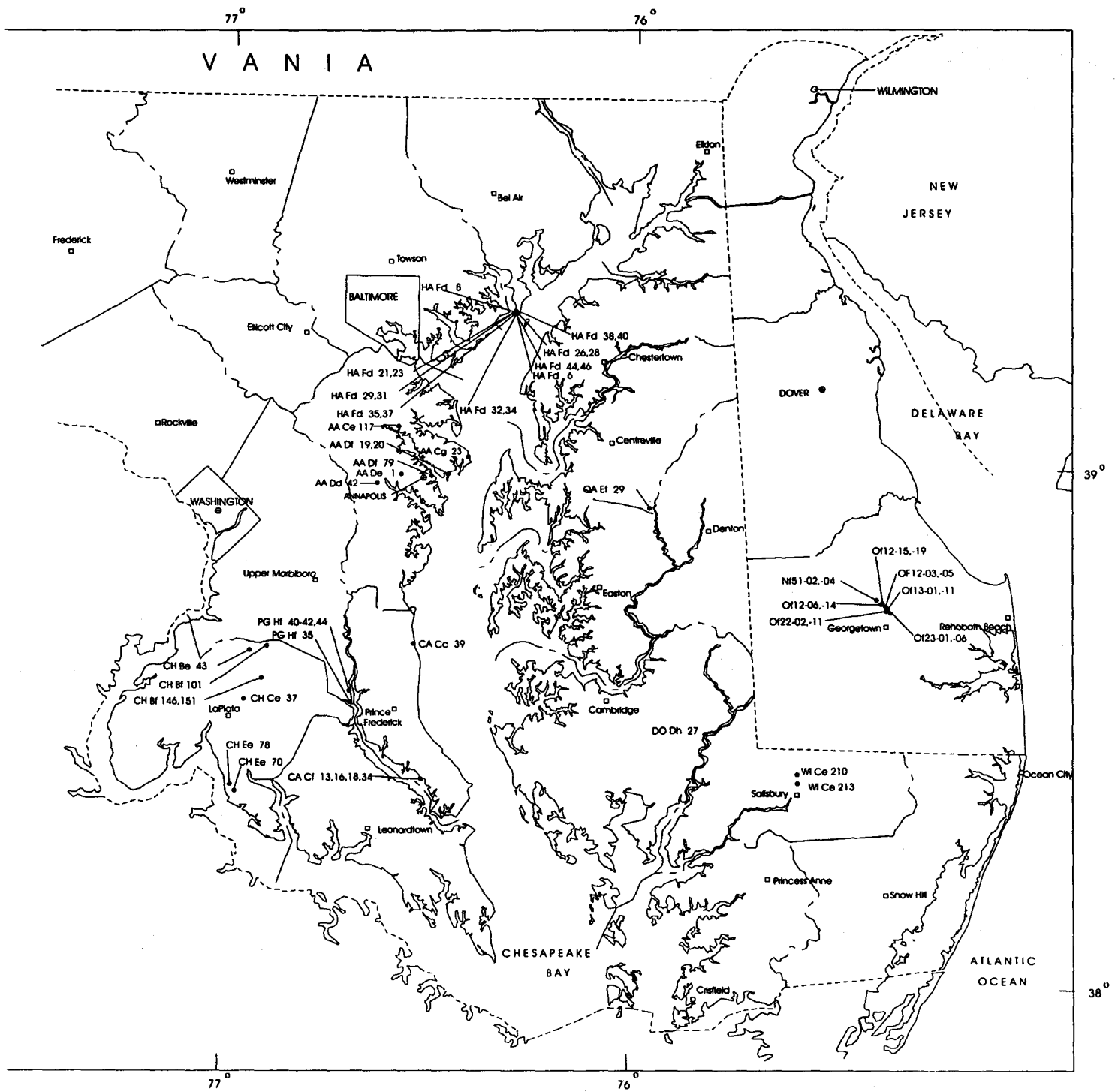
Figure 3. Location of Maryland and Delaware ground-water network observation wells and springs

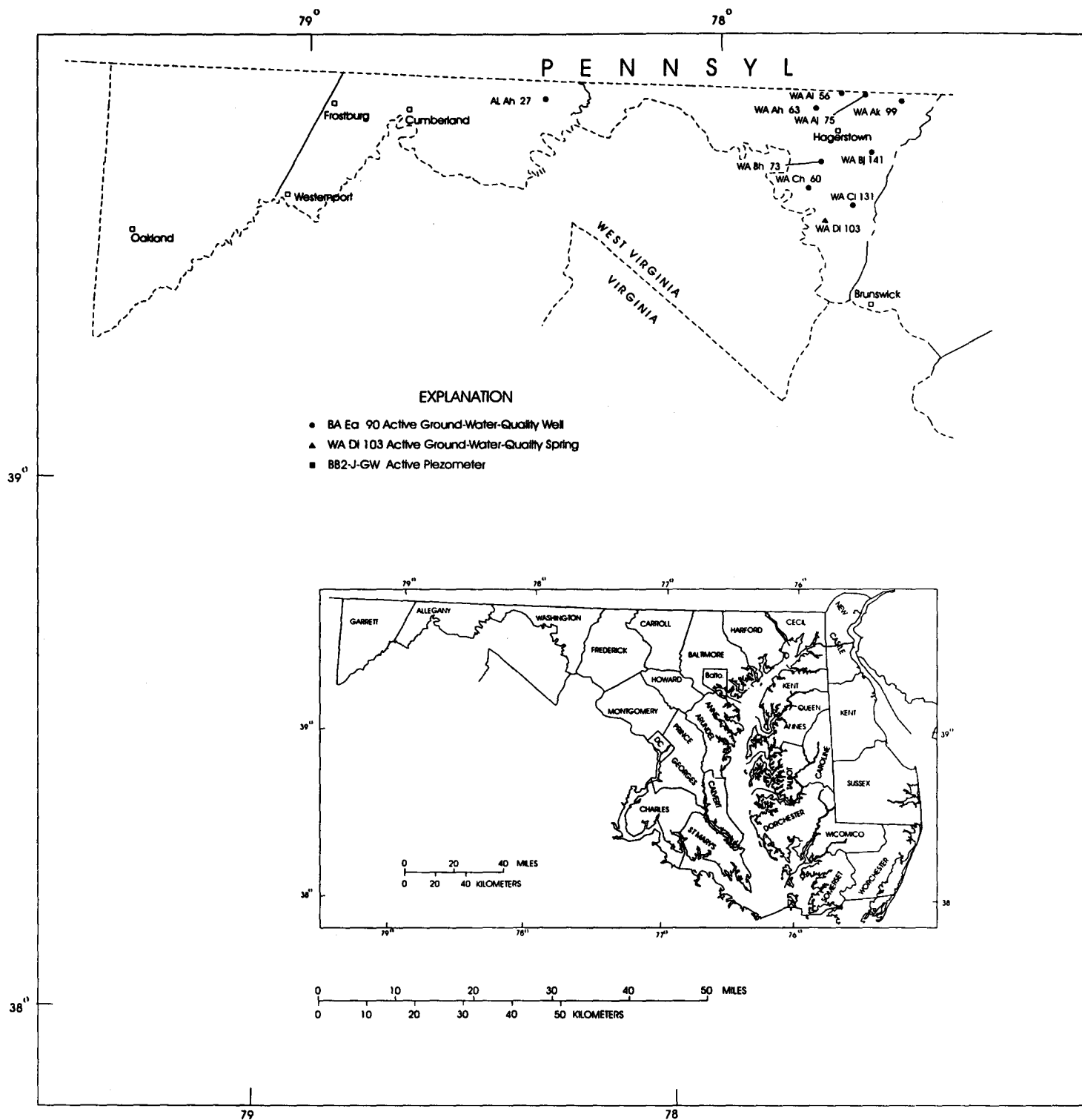




Base map modified from US Geological Survey 1:100,000 DLG

Figure 4. Location of Maryland and Delaware ground-water project observation wells





Base map modified from US Geological Survey 1:100 000 DLG

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

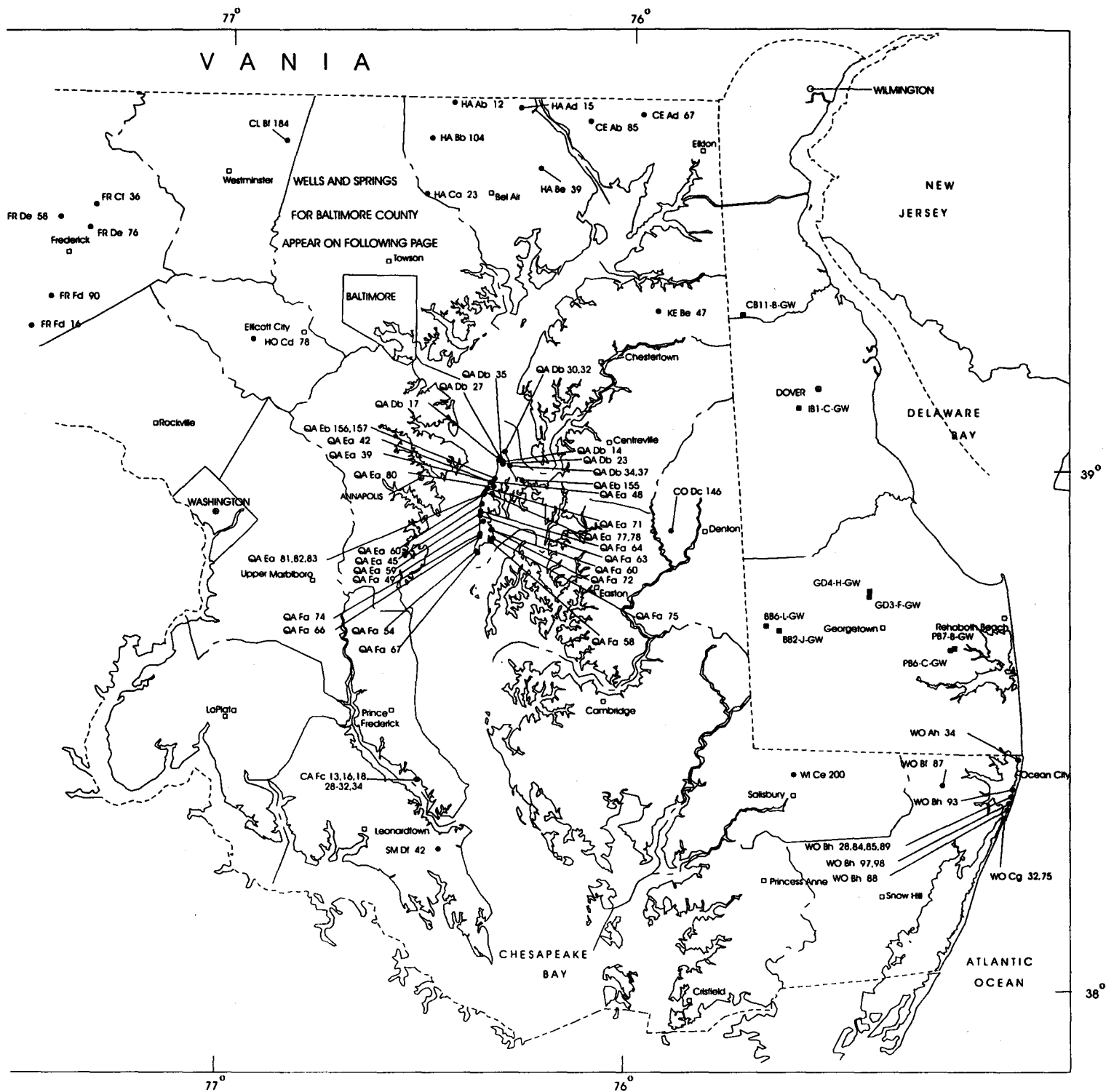




Figure 6. Location of Baltimore County ground-water-quality wells and springs

GROUND-WATER SPRING DISCHARGE

MARYLAND

CECIL COUNTY

SPRING NUMBER.--CE Co 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 Rd., 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 USGS personnel.

DATUM.--Elevation of land surface is 180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

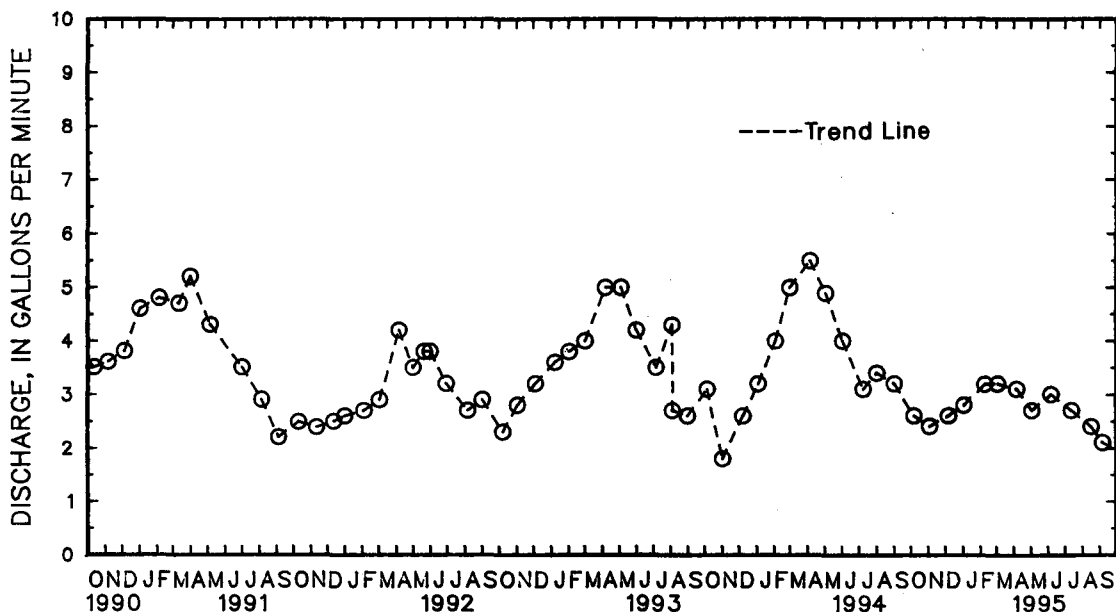
PERIOD OF RECORD.--April 1981, Aug. 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 5.91 gal/min, June 7, 1990;
minimum discharge measured, 1.8 gal/min, Nov. 2, 1993.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 7	2.6	JAN 3	2.8	APR 6	3.1	JUN 6	3.0	AUG 17	2.4
NOV 4	2.4	FEB 8	3.2	MAY 4	2.7	JUL 13	2.7	SEP 6	2.1
DEC 7	2.6	MAR 3	3.2						

WATER YEAR 1995 MAXIMUM 3.2 FEB 8, 1995, and MAR 3, 1995 MINIMUM 2.1 SEP 6, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER SPRING DISCHARGE

MARYLAND--Continued

FREDERICK 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 of 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 National Geodetic Vertical Datum of 1929, 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,

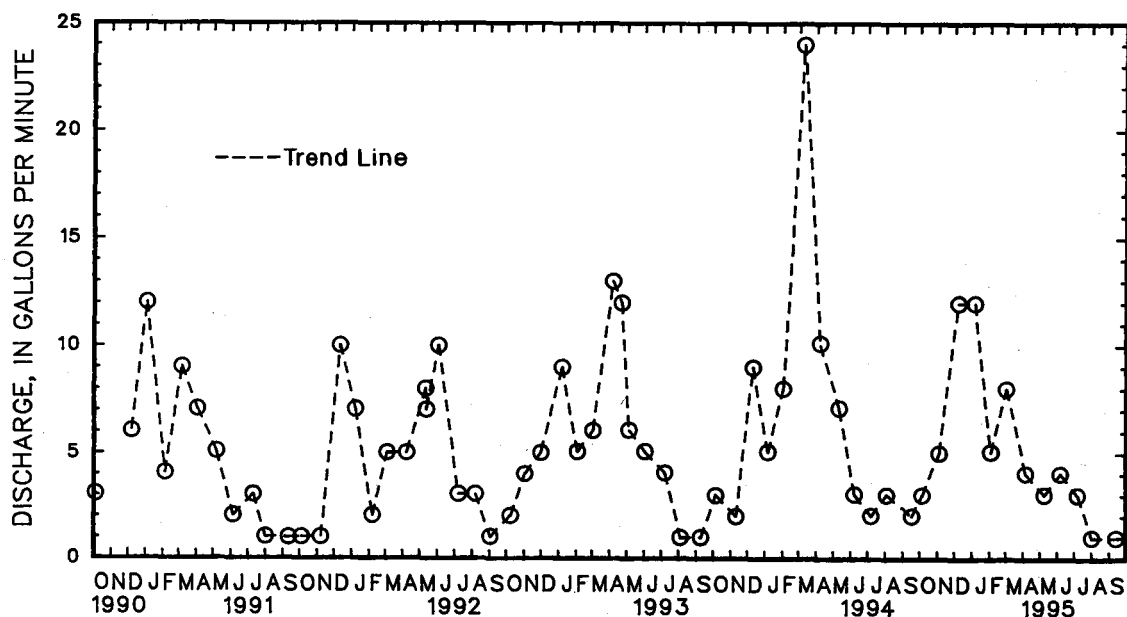
April 1974 to current year.

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

minimum discharge measured, 0.8 gal/min, Oct. 1, 1986.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 5	3.0	JAN 5	12.3	APR 5	4.8	JUN 6	4.0	AUG 1	1.5
NOV 3	5.2	FEB 2	5.5	MAY 8	3.9	JUL 6	3.5	SEP 13	1.0
DEC 7	12.0	MAR 2	6.3						
WATER YEAR 1995 MAXIMUM		12.3	JAN 5, 1995 MINIMUM		1.0	SEP 13, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER SPRING DISCHARGE

MARYLAND--Continued

HARFORD COUNTY

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,
.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 National Geodetic Vertical Datum of 1929, from topographic map.

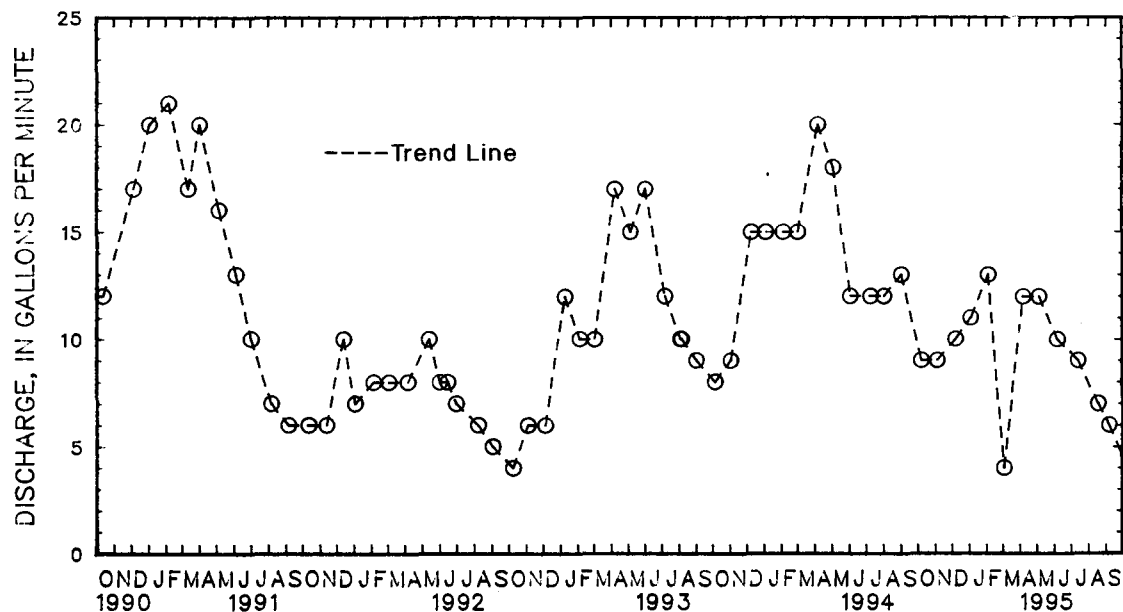
REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.

PERIOD OF RECORD.--October 1980, August 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 21.4 gal/min, Feb. 5, 1991; minimum discharge measured, 4.0 gal/min, Oct. 8, 1992.

DISCHARGE. IN GALLONS PER MINUTE. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE			DISCHARGE			DATE			DISCHARGE			DATE			DISCHARGE			DATE			DISCHARGE		
OCT	7	9.6	JAN	3	11.5	APR	6	12.0	JUN	6	10.0	AUG	17	7.5									
NOV	4	9.7	FEB	3	13.3	MAY	4	12.0	JUL	13	9.2	SEP	6	6.0									
DEC	7	10.0	MAR	3	4.2																		
WATER YEAR 1995			MAXIMUM 13.3			FEB 3, 1995			MINIMUM 4.2			MAR 3, 1995											



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

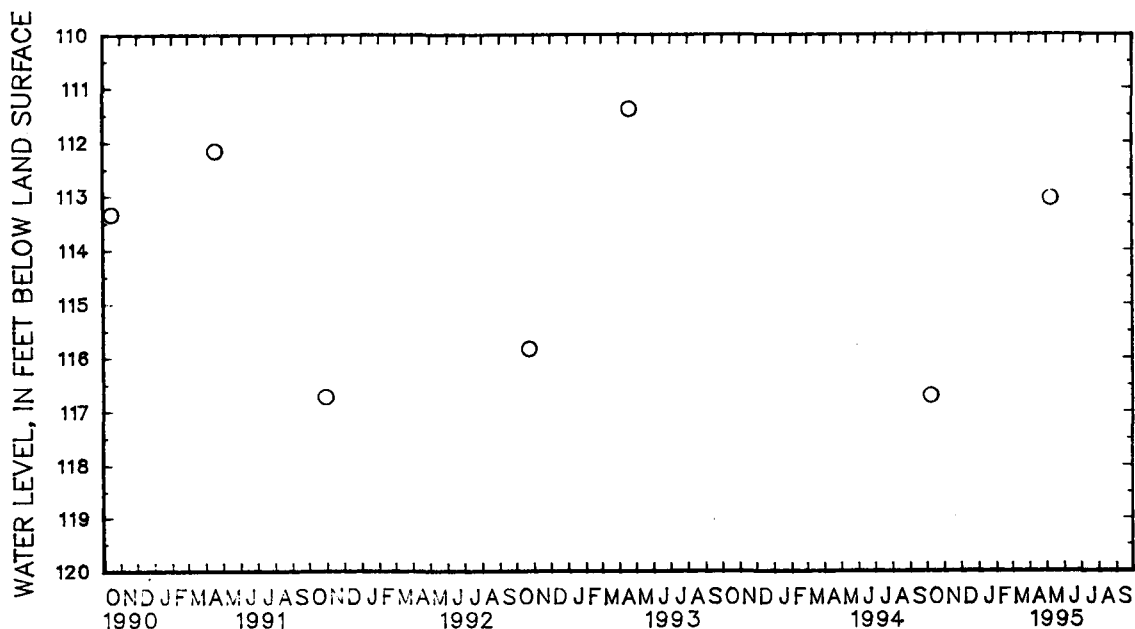
DELAWARE

KENT COUNTY

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 U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 55 ft above National Geodetic Vertical Datum of 1929,
 from topographic map.
 Measuring point: Top of casing at land surface.
 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	116.75	MAY 8	113.05
WATER YEAR 1995 HIGHEST 113.05 MAY 08, 1995 LOWEST 116.75 OCT 07, 1994			



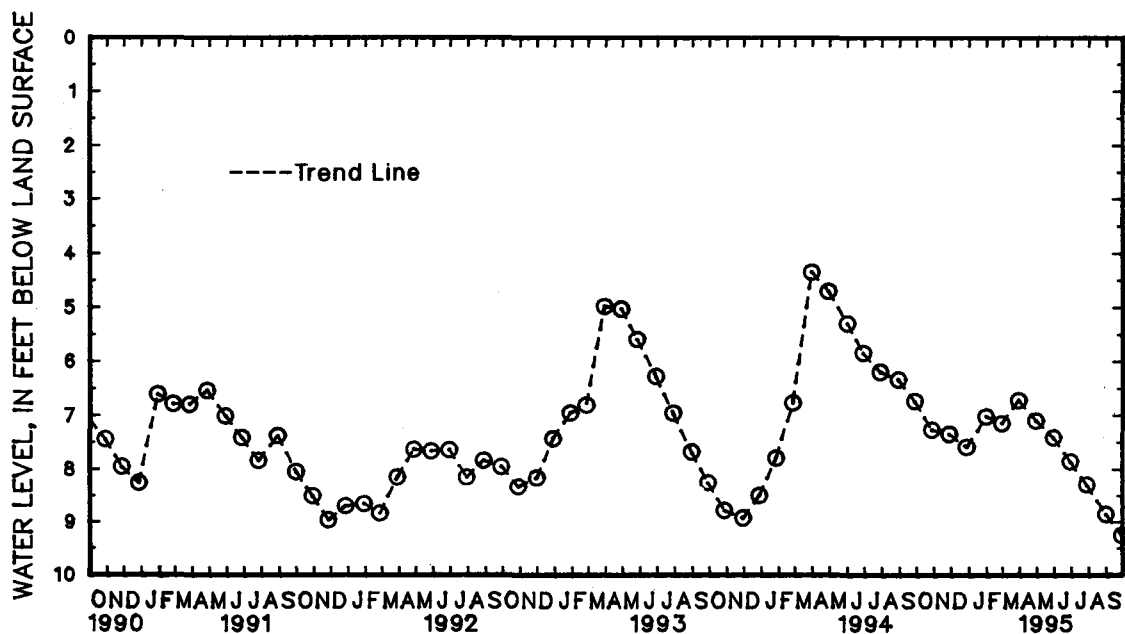
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
KENT COUNTY--Continued

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 Group 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 chalked steel tape or electric sensing device by U.S. Geological Survey or Delaware Geological Survey personnel.
DATUM.--Elevation of land surface is 44 ft above National Geodetic Vertical Datum of 1929, 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	7.30	DEC 28	7.62	FEB 27	7.17	APR 28	7.12	JUN 29	7.89	AUG 31	8.87
NOV 28	7.38	JAN 30	7.04	MAR 29	6.73	MAY 30	7.44	JUL 28	8.32	SEP 28	9.26
WATER YEAR 1995		HIGHEST	6.73	MAR 29, 1995	LOWEST	9.26	SEP 28, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

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 Group 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 Geological Survey personnel.

DATUM.--Elevation of land surface is 55 ft above National Geodetic Vertical Datum of 1929, from topographic map.

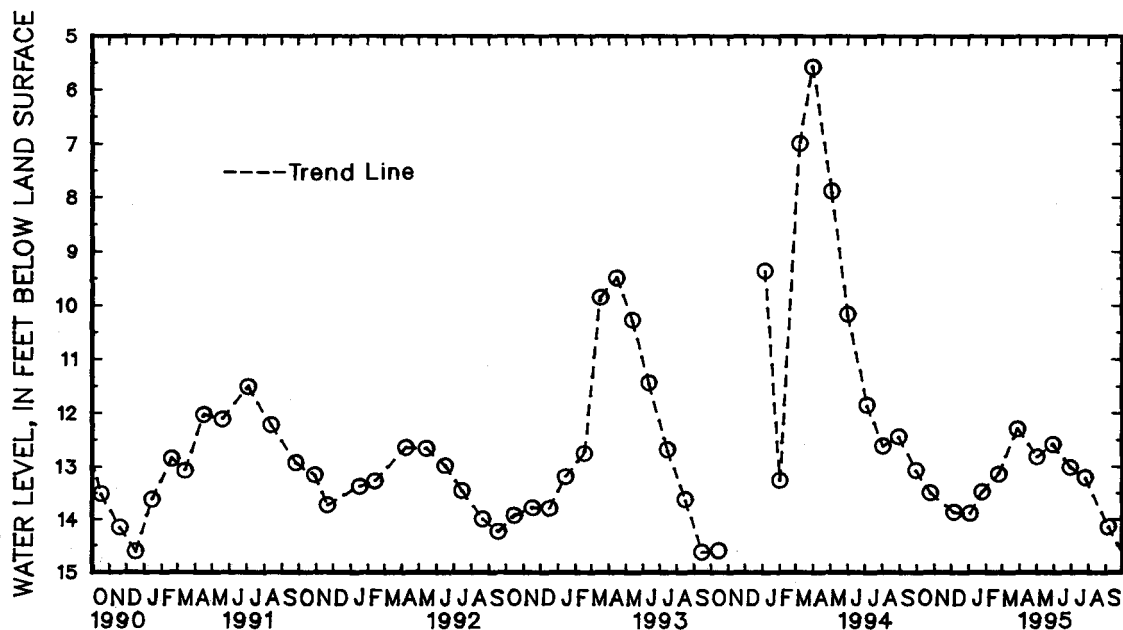
Measuring point: Top of casing at land surface.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.52	JAN 3	13.89	FEB 23	13.15	MAY 2	12.83	JUN 29	13.04	SEP 5	14.15
DEC 5	13.88	25	13.49	MAR 28	12.30	30	12.59	JUL 26	13.23		
WATER YEAR 1995		HIGHEST	12.30	MAR 28, 1995		LOWEST	14.15	SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

KENT COUNTY--Continued

WELL NUMBER.--M422-01. 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 Group 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.--Bimonthly measurements with chalked steel tape by U.S. Geological Survey, and Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 58 ft above National Geodetic Vertical Datum of 1929, from topographic map.

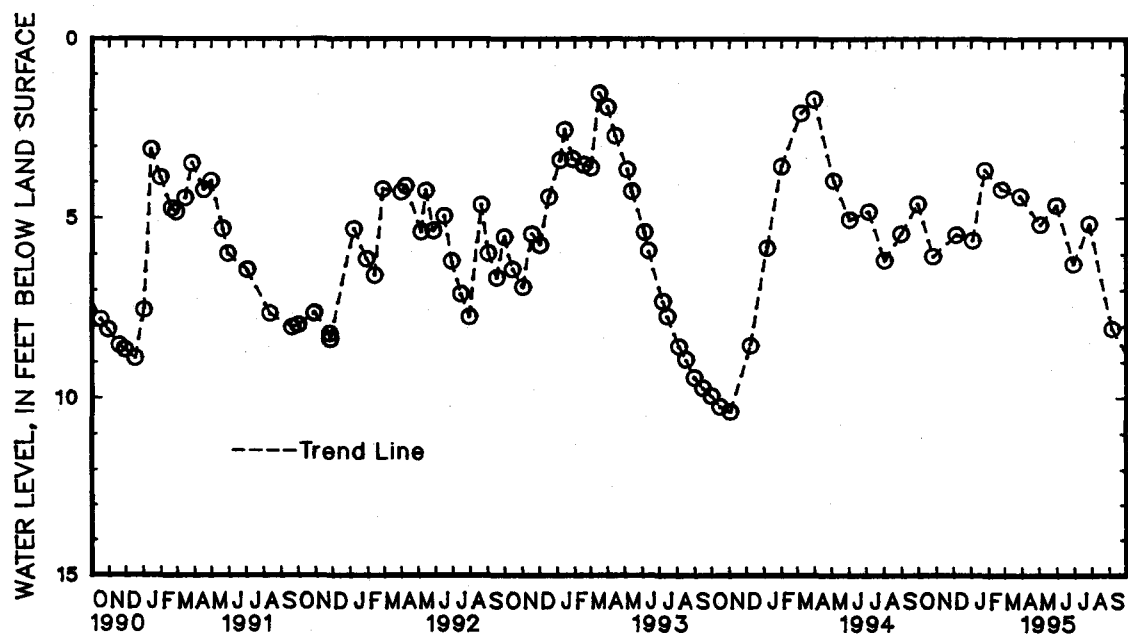
Measuring point: Top of casing at land surface.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.10	JAN 3	5.65	FEB 23	4.21	MAY 2	5.21	JUN 29	6.32	SEP 5	8.13
DEC 5	5.49	25	3.65	MAR 28	4.42	30	4.67	JUL 26	5.18		
WATER YEAR 1995		HIGHEST	3.65	JAN 25, 1995		LOWEST	8.13	SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

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.--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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.

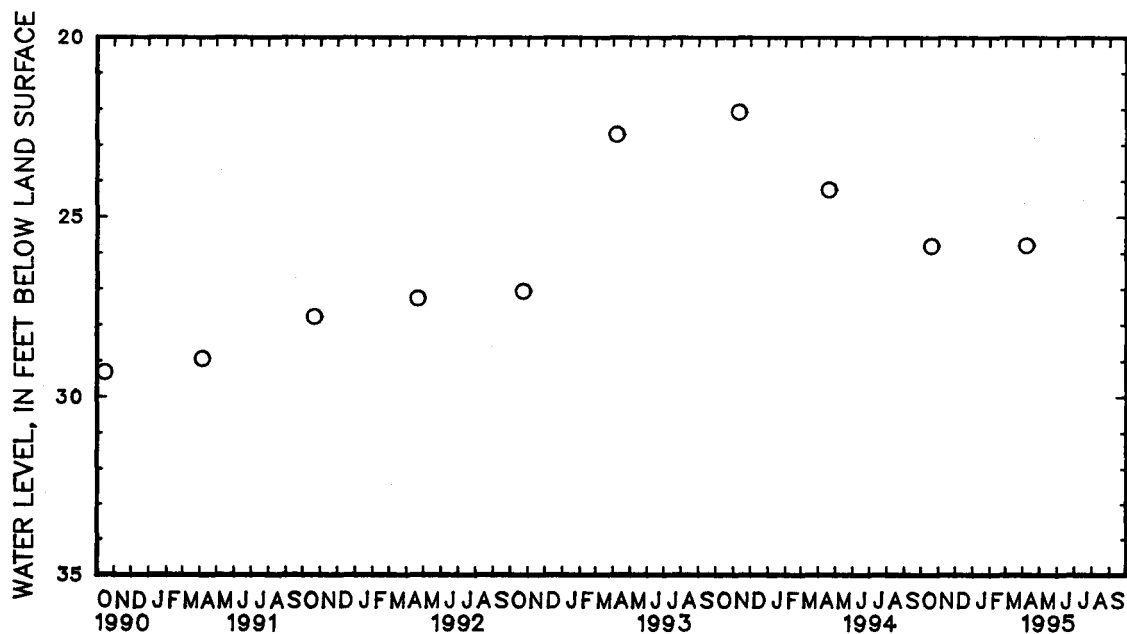
Measuring Point: Top of 12 in. casing, 1.5 ft above land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.08 ft below land surface, Nov. 10, 1993;
lowest measured, 39.31 ft below land surface, Sept. 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	25.85	APR 7	25.83
WATER YEAR 1995 HIGHEST 25.83 APR 7, 1995 LOWEST 25.85 OCT 19, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db24-17. SITE ID.--393856075415402. PERMIT NUMBER.--65430.

LOCATION.--Lat 39°38'56", long 75°41'54", Hydrologic Unit 02040205, 2 mi south of Ogletown.

Owner: Delaware Department of Transportation.

AQUIFER.--Columbia Group 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.

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 National Geodetic Vertical Datum of 1928, from topographic map.

Measuring point: Top of casing, 0.55 ft above land surface.

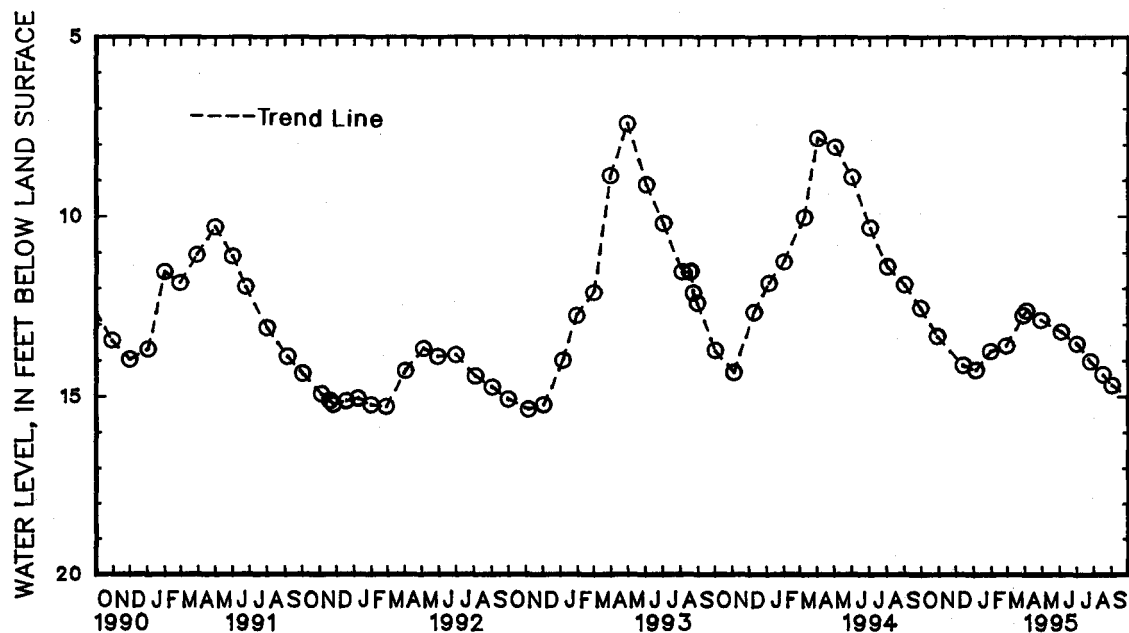
REMARKS.--Water-level measurements furnished by Delaware Geological Survey.

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, 15.74 ft below land surface, Nov. 10, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	13.39	JAN 30	13.80	APR 3	12.64	JUN 30	13.61	SEP 1	14.75
DEC 13	14.19	FEB 27	13.64	28	12.91	JUL 25	14.09		
JAN 4	14.33	MAR 28	12.77	JUN 2	13.25	AUG 16	14.45		
WATER YEAR 1995		HIGHEST	12.64	APR 3, 1995		LOWEST	14.75	SEP 1, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

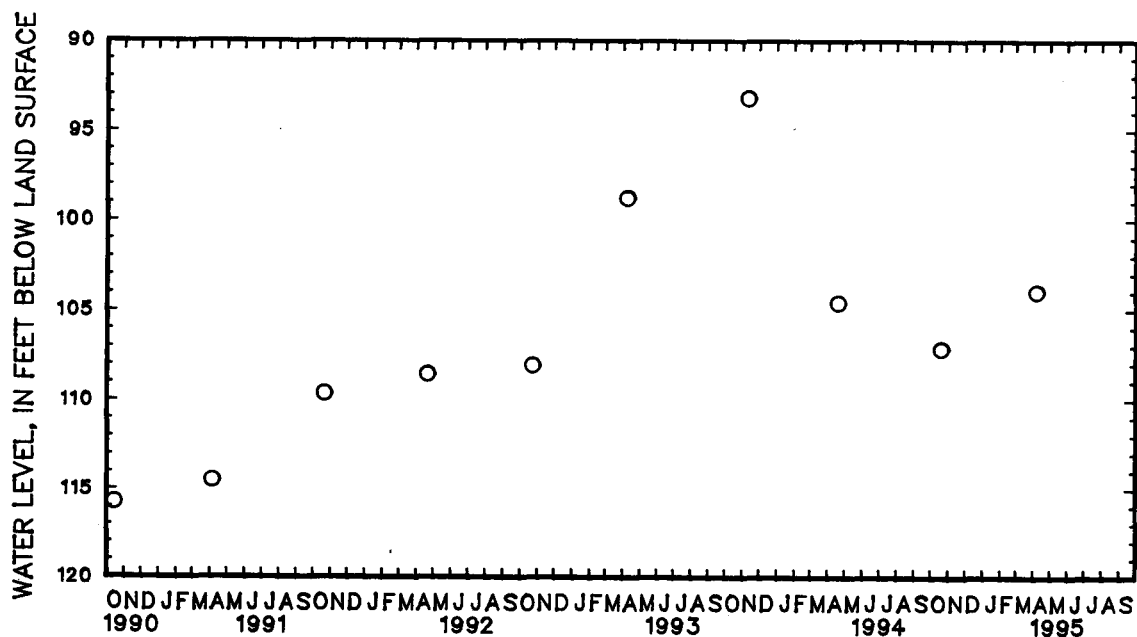
DELAWARE--Continued

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 Rd., near Beck's Pond.
 Owner: U.S. Geological Survey.
 AQUIFER.--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 chalked steel tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.
 DATUM.--Elevation of land surface is 48 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of coupling, 1.75 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, 93.21 ft below land surface, Nov. 10, 1993; lowest measured, 115.82 ft below land surface, Oct. 15, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	107.28	APR 7	104.00
WATER YEAR 1995 HIGHEST 104.00 APR 7, 1995 LOWEST 107.28 OCT 19, 1994			



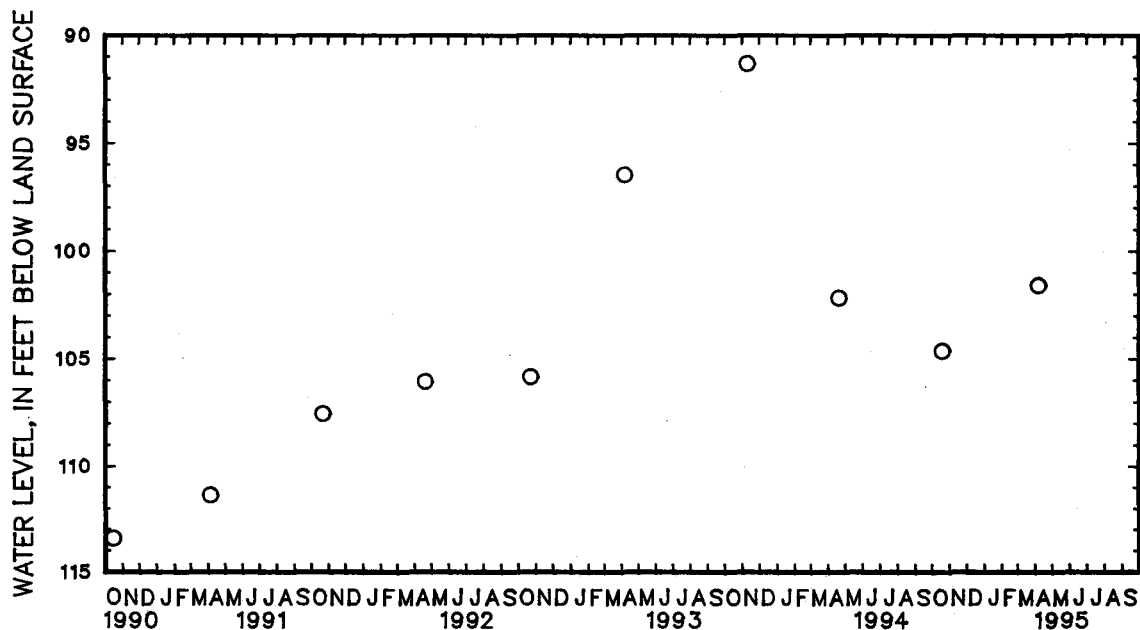
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Rd., near Beck's Pond.
Owner: U.S. Geological Survey.
AQUIFER.--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 Db33-18.
INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.
DATUM.--Elevation of land surface is 48 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of coupling, 1.75 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, 91.32 ft below land surface, Nov. 10, 1993; lowest measured, 113.44 ft below land surface, Oct. 15, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	104.75	APR 7	101.62
WATER YEAR 1995 HIGHEST 101.62 APR 7, 1995 LOWEST 104.75 OCT 19, 1994			



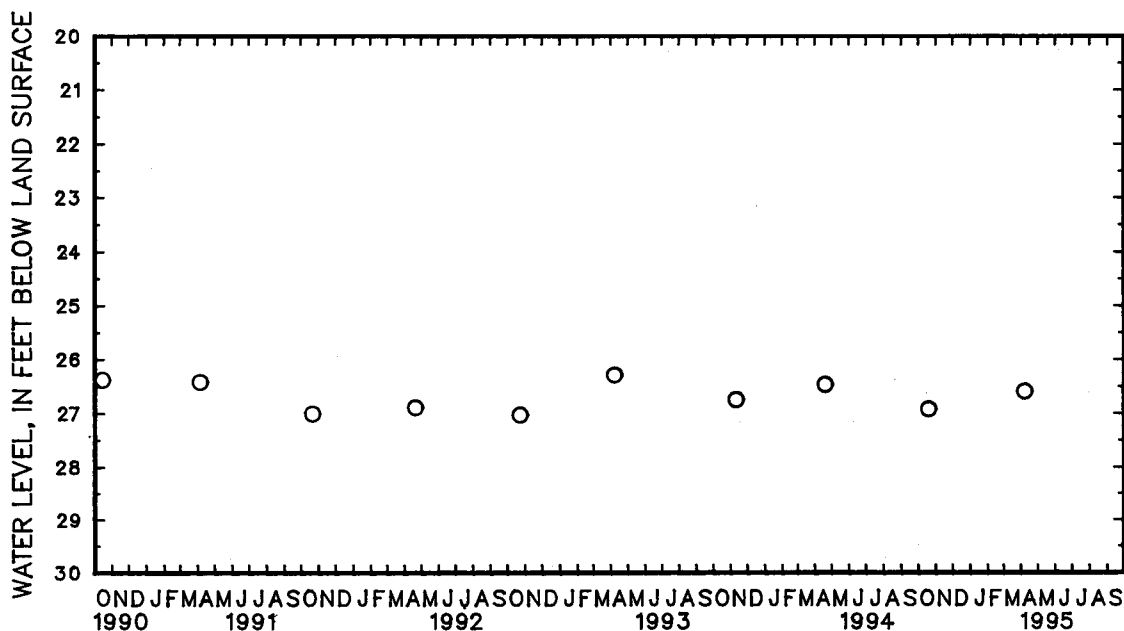
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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 Rd., nr Beck's Pond.
Owner: U.S. Geological Survey.
AQUIFER.--Columbia Group of Pleistocene age. Aquifer code: 112CLMB.
WELL CHARACTERISTICS.--Drilled, observation, artesian 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 chalked steel tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.
DATUM.--Elevation of land surface is 48 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of coupling, 1.75 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, 25.35 ft below land surface, July 14, 1981; lowest measured 28.23 ft below land surface, April 3, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	26.96	APR 7	28.62
WATER YEAR 1995 HIGHEST 26.62 APR 7, 1995 LOWEST 26.96 OCT 19, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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.--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 chalked steel tape by U.S. Geological Survey personnel.

Measured monthly from November 1975 to November 1981.

DATUM.--Elevation of land surface is 28 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring Point: Top of coupling, 2.1 ft above land surface.

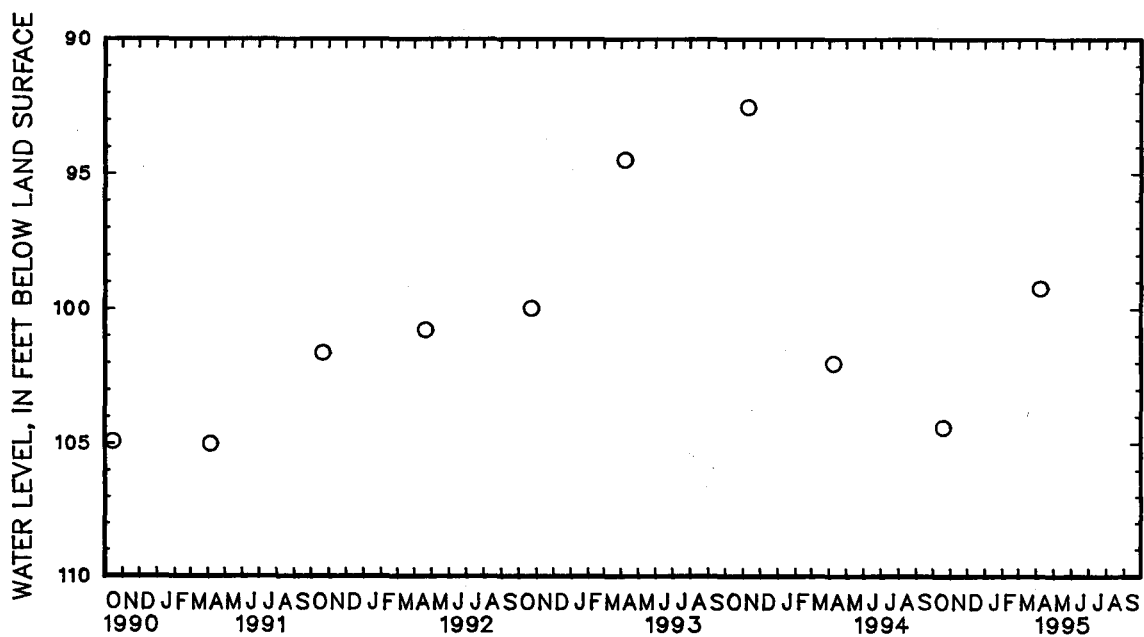
REMARKS.--Delaware Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	104.48	APR 7	99.25
WATER YEAR 1985 HIGHEST 99.25 APR 7, 1985 LOWEST 104.48 OCT 19, 1984			



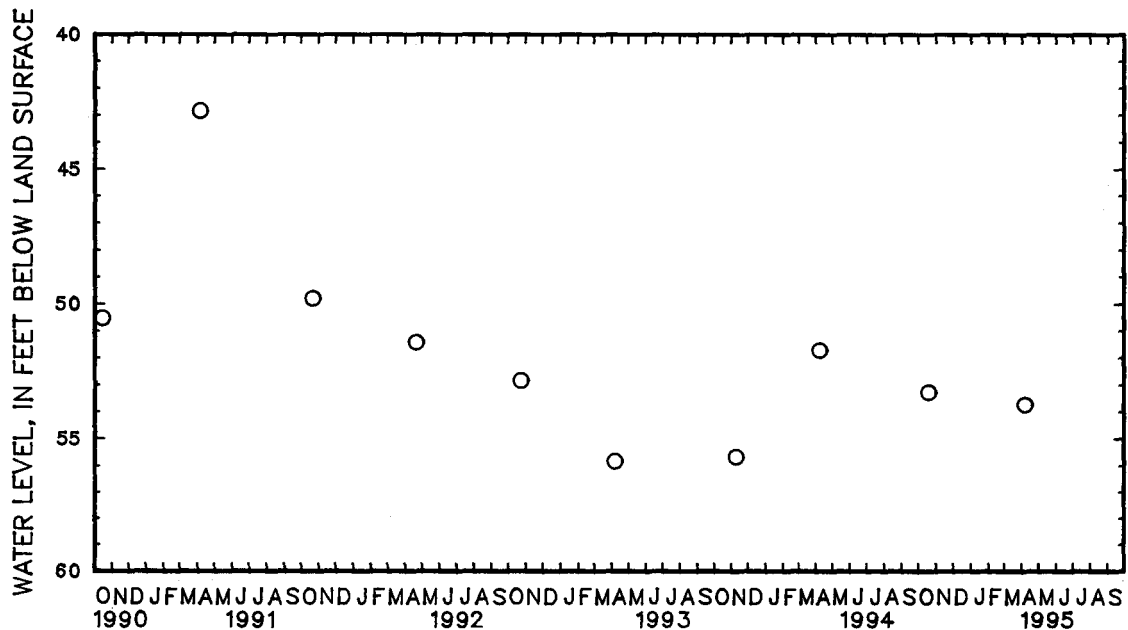
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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.--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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of 6 in. casing, 2.0 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, 62.37 ft below land surface, Oct. 15, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	53.33	APR 7	53.79
WATER YEAR 1995 HIGHEST 53.33 OCT 19, 1994 LOWEST 53.79 APR 7, 1995			



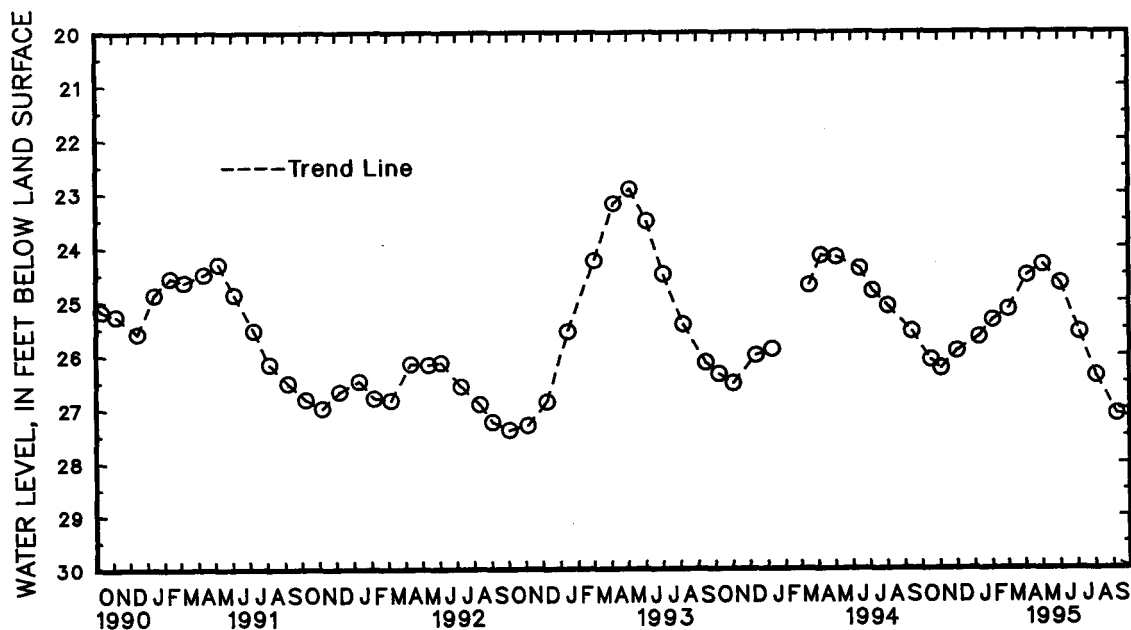
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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 from 101 to 105 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 60 ft above National Geodetic Vertical Datum of 1929, 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, 22.92 ft below land surface, May 5, 1993;
lowest measured, 27.42 ft below land surface, Oct. 2, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	26.13	DEC 2	25.96	FEB 3	25.37	APR 5	24.54	JUN 2	24.69	AUG 3	26.43
NOV 4	26.29	JAN 9	25.70	MAR 3	25.17	MAY 3	24.35	JUL 5	25.62	SEP 8	27.14
WATER YEAR 1995		HIGHEST	24.35	MAY 3, 1995		LOWEST	27.14	SEP 8, 1995			



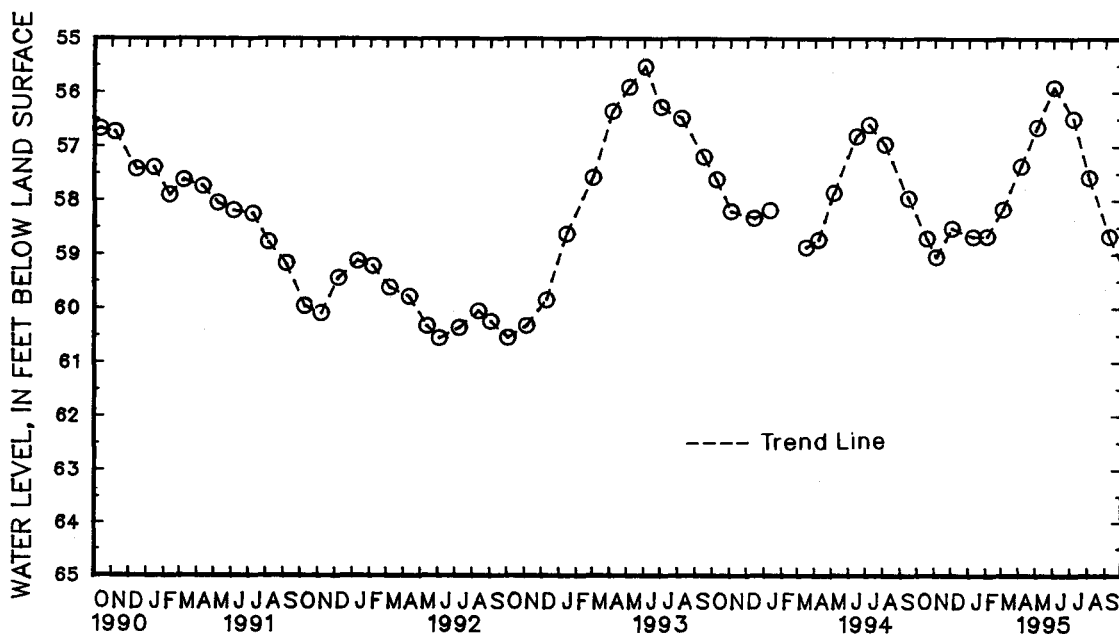
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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.--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 from 288 to 292 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 60 ft above National Geodetic Vertical Datum of 1929, 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	56.74	DEC 2	58.54	FEB 3	58.69	APR 5	57.37	JUN 2	55.81	AUG 3	57.60
NOV 4	59.09	JAN 9	58.70	MAR 3	58.18	MAY 3	58.65	JUL 5	58.50	SEP 8	58.70
WATER YEAR 1995		HIGHEST	55.91	JUN 2, 1995		LOWEST	59.09	NOV 4, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 436 ft; casing diameter 2 in., to 432 ft, screened from 432 to 436 ft.

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

DATUM.--Elevation of land surface is 80 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring Point: Top of casing, 2.38 ft above land surface.

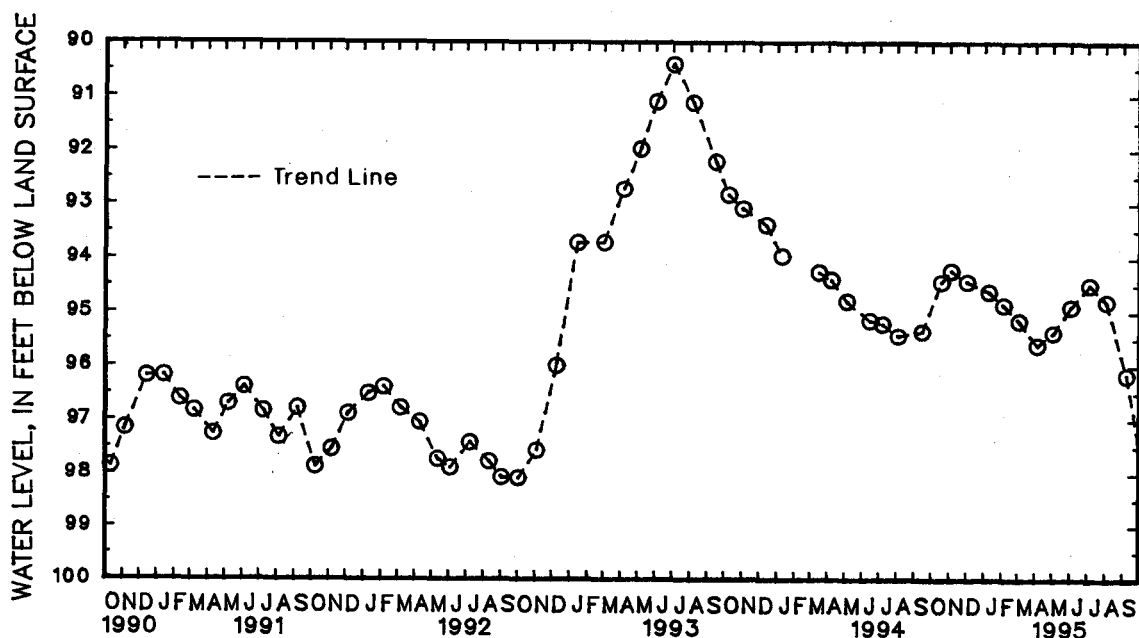
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.17 ft below land surface, Nov. 13, 1980; lowest measured, 98.13 ft below land surface, Oct. 2, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	94.45	DEC 2	94.45	FEB 4	94.90	APR 5	95.65	JUN 2	94.92	AUG 3	94.82
NOV 4	94.24	JAN 9	94.64	MAR 3	95.19	MAY 3	95.41	JUL 5	94.50	SEP 8	96.21
WATER YEAR 1995		HIGHEST	94.24	NOV 4, 1994		LOWEST	96.21	SEP 8, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

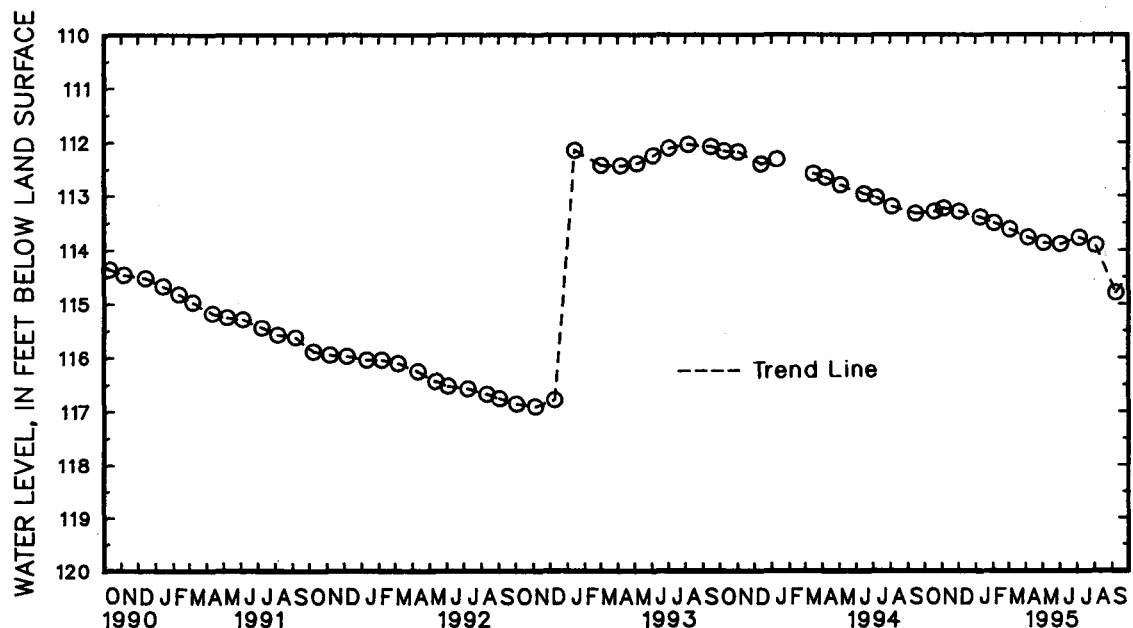
DELAWARE--Continued

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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 604 ft; screen diameter 2 in., to 600 ft, screened from 600 to 604 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 60 ft above National Geodetic Vertical Datum of 1929, from topographic map.
 Measuring Point: Top of casing, 2.0 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, 105.07 ft below land surface, April 20, 1982; lowest measured, 116.95 ft below land surface, Nov. 4, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	113.31	DEC 2	113.31	FEB 3	113.53	APR 5	113.80	JUN 2	113.92	AUG 3	113.94
NOV 4	113.25	JAN 9	113.42	MAR 3	113.65	MAY 3	113.90	JUL 5	113.80	SEP 8	114.83
WATER YEAR 1995		HIGHEST	113.25	NOV 4, 1994		LOWEST	114.83	SEP 8, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
NEW CASTLE COUNTY--Continued

WELL NUMBER.--Hb14-01. 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 Group 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 chalked steel tape or electric sensing device by

U.S. Geological Survey and Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 72 ft above National Geodetic Vertical Datum of 1929, from topographic map.

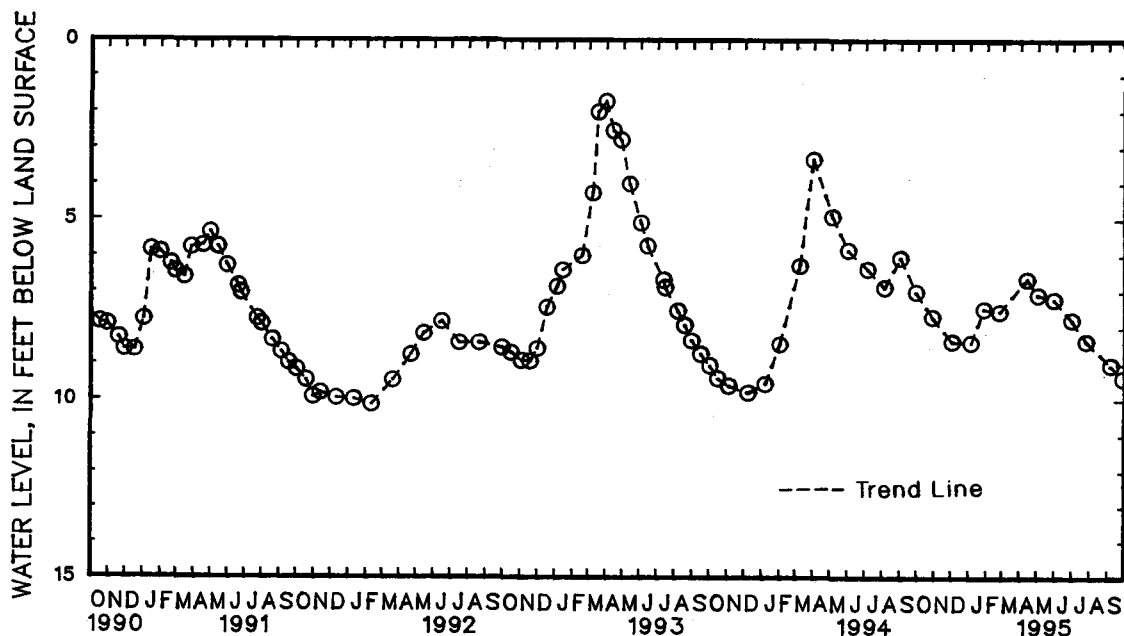
Measuring point: Top of casing at land surface.

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, 11.85 ft below land surface, Aug. 31, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		
OCT 28	7.74	JAN 4	8.47	FEB 24	7.58	MAY 2	7.11	JUN 30	7.82		
DEC 2	8.44	27	7.50	APR 13	8.66	30	7.24	JUL 25	8.43		
								SEP 6	9.10		
								27	9.48		
WATER YEAR 1995		HIGHEST		8.66		APR 13, 1995		LOWEST		9.46	
										SEP 27, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

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 Group of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Driven, observation, water-table well, depth 15 ft; casing diameter 1 in., to 14 ft; screened from 14 to 15 ft.

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

DATUM.--Elevation of land surface is 43 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.0 ft above land surface.

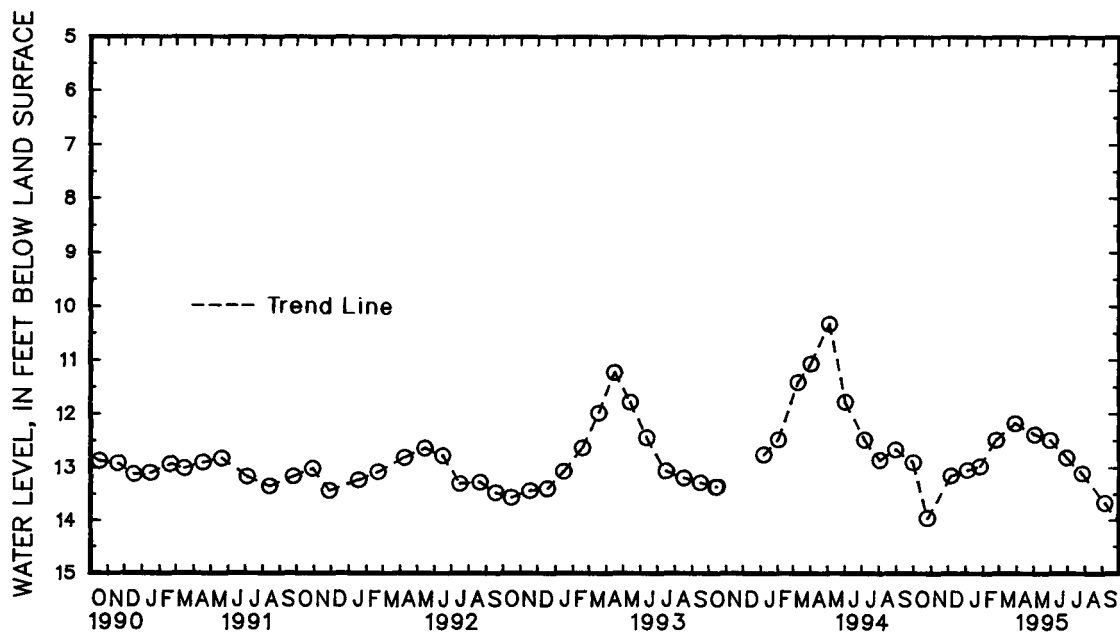
REMARKS.--Delaware Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.97	JAN 3	13.05	FEB 23	12.49	MAY 2	12.39	JUN 29	12.83	SEP 5	13.68
DEC 5	13.16	25	12.98	MAR 28	12.18	30	12.49	JUL 26	13.13		
WATER YEAR 1995		HIGHEST	12.18	MAR 28, 1995		LOWEST	13.97	OCT 25, 1994			



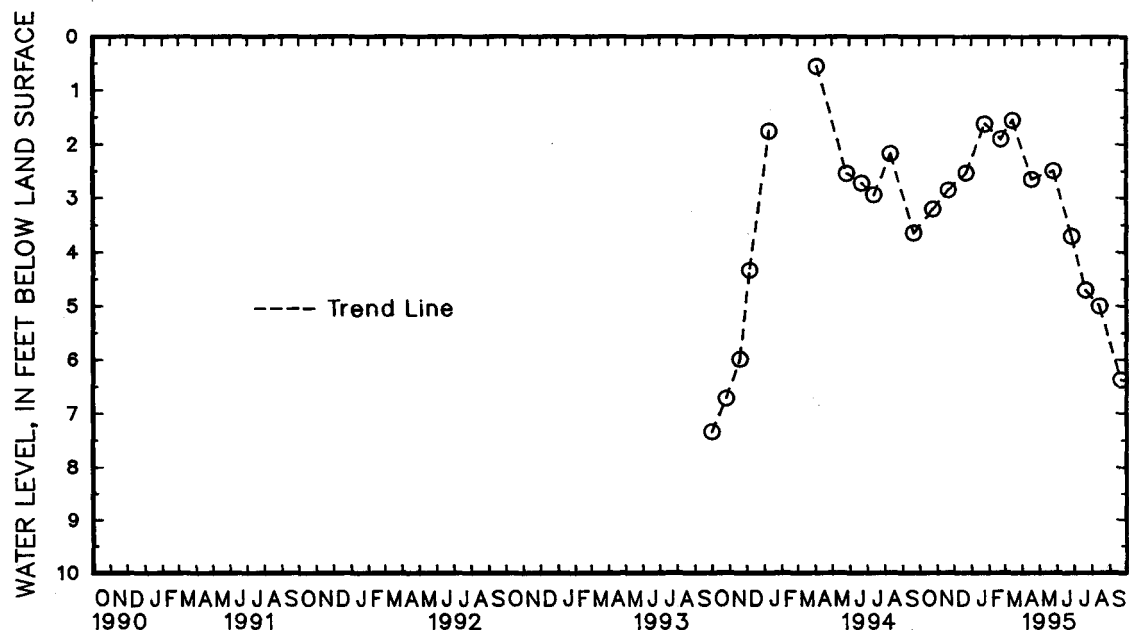
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--N151-02. SITE ID.--384504075242602. PERMIT NUMBER.--95733.
LOCATION.--Lat 38°45'04", long 75°24'26", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 53 ft; casing diameter 2 in., to 50 ft; screen diameter 2 in. from 50 to 53 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 44.72 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 1.91 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.56 ft below land surface, April 4, 1994;
lowest measured, 7.38 ft below land surface, Sept. 30, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.23	DEC 22	2.54	FEB 22	1.91	APR 18	2.67	JUN 27	3.74	AUG 14	5.04
NOV 21	2.87	JAN 25	1.63	MAR 14	1.56	MAY 25	2.51	JUL 20	4.74	SEP 20	6.42
WATER YEAR 1995		HIGHEST	1.56	MAR 14, 1995		LOWEST	6.42	SEP 20, 1995			



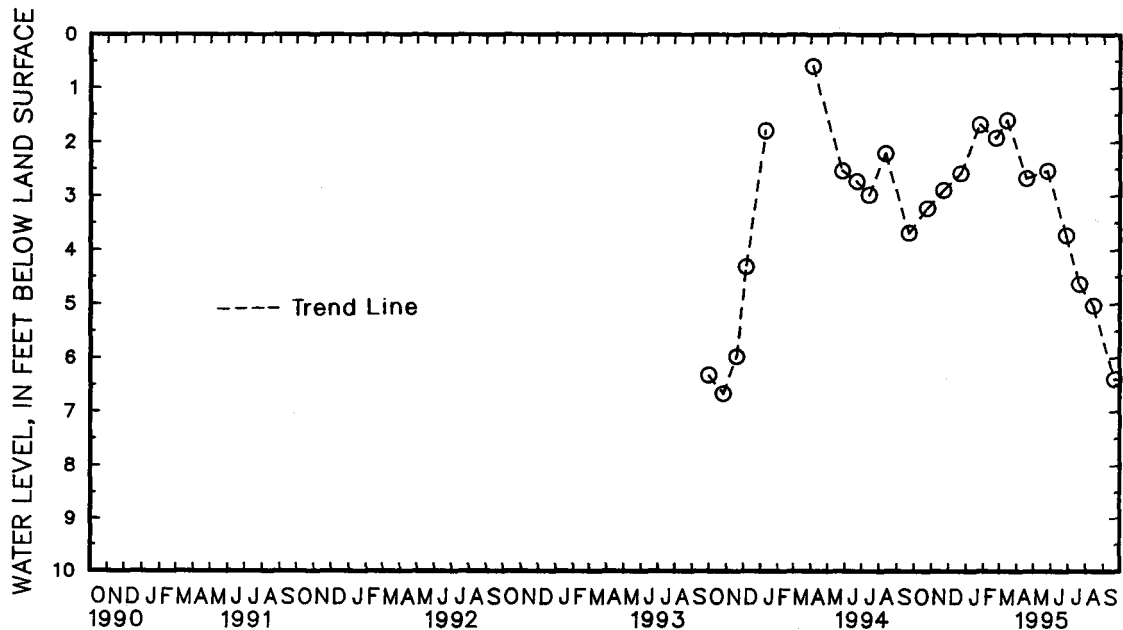
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--Nf51-03. SITE ID.--384504075242601. PERMIT NUMBER.--95750.
LOCATION.--Lat 38°45'04", long 75°24'26", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 44.71 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.23 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.60 ft below land surface, April 4, 1994;
lowest measured, 6.71 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.25	DEC 22	2.59	FEB 22	1.93	APR 18	2.69	JUN 27	3.76	AUG 14	5.07
NOV 21	2.91	JAN 25	1.68	MAR 14	1.60	MAY 25	2.55	JUL 20	4.67	SEP 20	6.44
WATER YEAR 1995		HIGHEST	1.60	MAR 14, 1995		LOWEST	6.44	SEP 20, 1995			



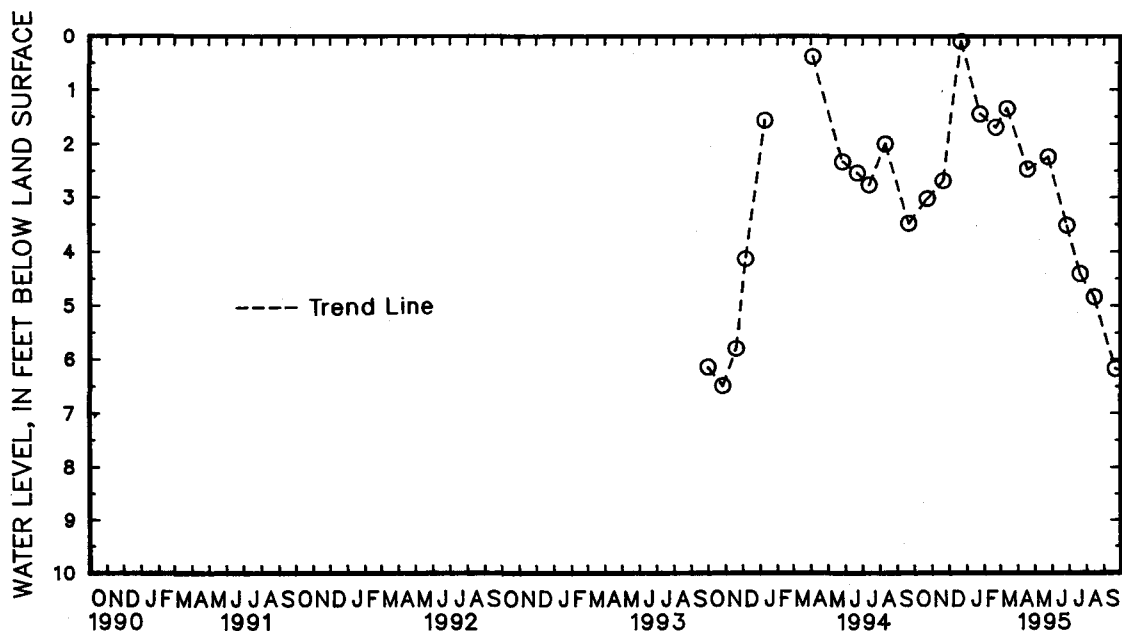
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--Nf51-04. SITE ID.--384504075242603. PERMIT NUMBER.--95747.
LOCATION.--Lat 38°45'04", long 75°24'26", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 80 ft; casing diameter 2 in., to 77 ft; screen diameter 2 in. from 77 to 80 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 44.52 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.3 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.10 ft below land surface, Dec. 22, 1994;
lowest measured, 6.53 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.04	DEC 22	.10	FEB 22	1.72	APR 18	2.50	JUN 27	3.55	AUG 14	4.88
NOV 21	2.70	JAN 25	1.47	MAR 14	1.37	MAY 25	2.27	JUL 20	4.45	SEP 20	6.22
WATER YEAR 1995		HIGHEST	.10	DEC 22, 1994	LOWEST	6.22	SEP 20, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Ng11-01. 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.--Columbia Group 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 chalked steel tape by Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 24 ft above National Geodetic Vertical Datum of 1929, from topographic map.

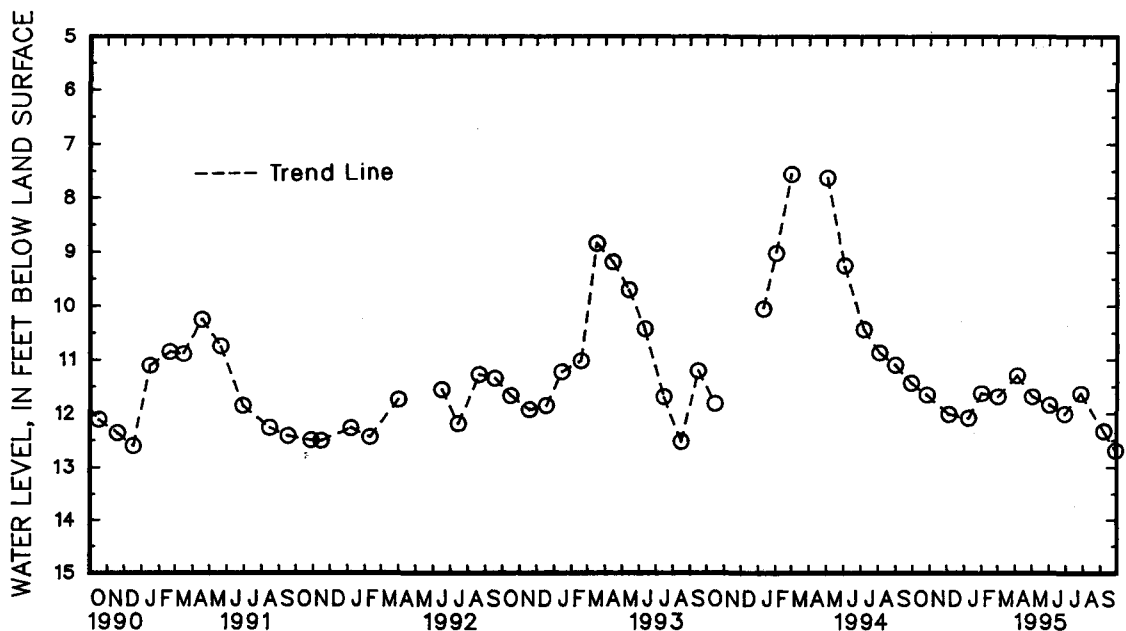
Measuring point: Top of casing at land surface.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	11.70	JAN 9	12.13	MAR 1	11.72	MAY 1	11.72	JUN 28	12.06	SEP 7	12.37
DEC 5	12.06	31	11.66	APR 4	11.32	JUN 1	11.88	JUL 27	11.66	28	12.73
WATER YEAR 1995		HIGHEST	11.32	APR 4, 1995	LOWEST	12.73	SEP 28, 1995				



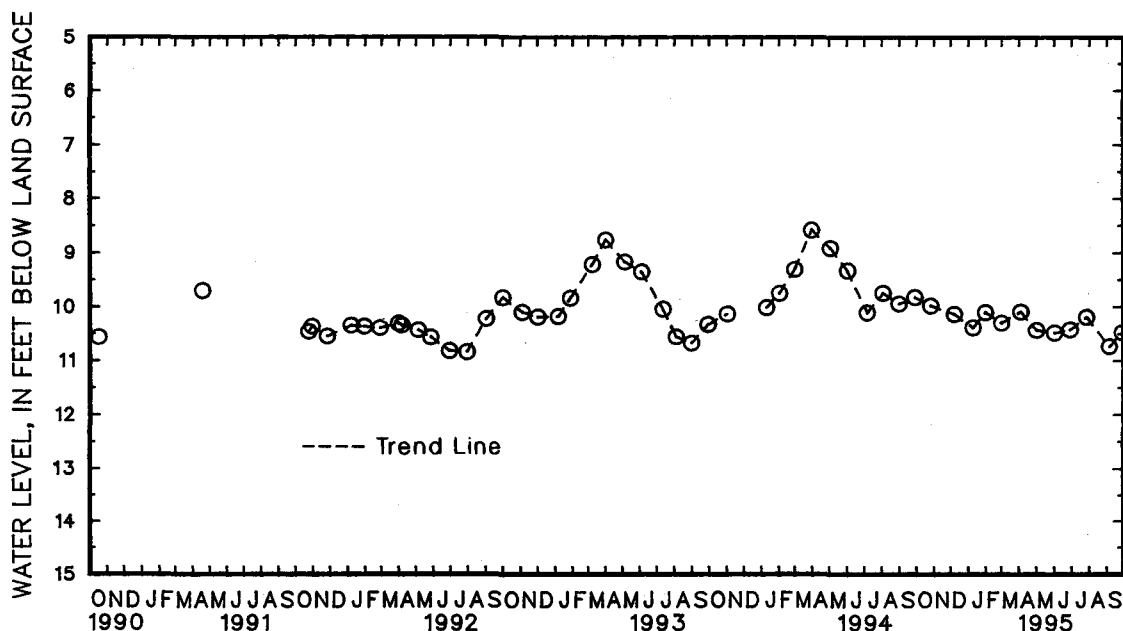
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--N152-11. 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-Pliocene 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.
Equipped with digital water-level recorder--60-minute recorder interval from 1985 to current year.
DATUM.--Elevation of land surface is 16 ft above National Geodetic Vertical Datum of 1929.
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, 8.59 ft below land surface, March 31, 1994;
lowest measured, 11.47 ft below land surface, Nov. 10, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.01	JAN 9	10.42	MAR 1	10.33	MAY 1	10.47	JUN 28	10.46	SEP 5	10.78
DEC 7	10.17	31	10.13	APR 4	10.12	JUN 1	10.52	JUL 27	10.22	28	10.51
WATER YEAR 1995		HIGHEST	10.01	OCT 26, 1994		LOWEST	10.78	SEP 5, 1995			



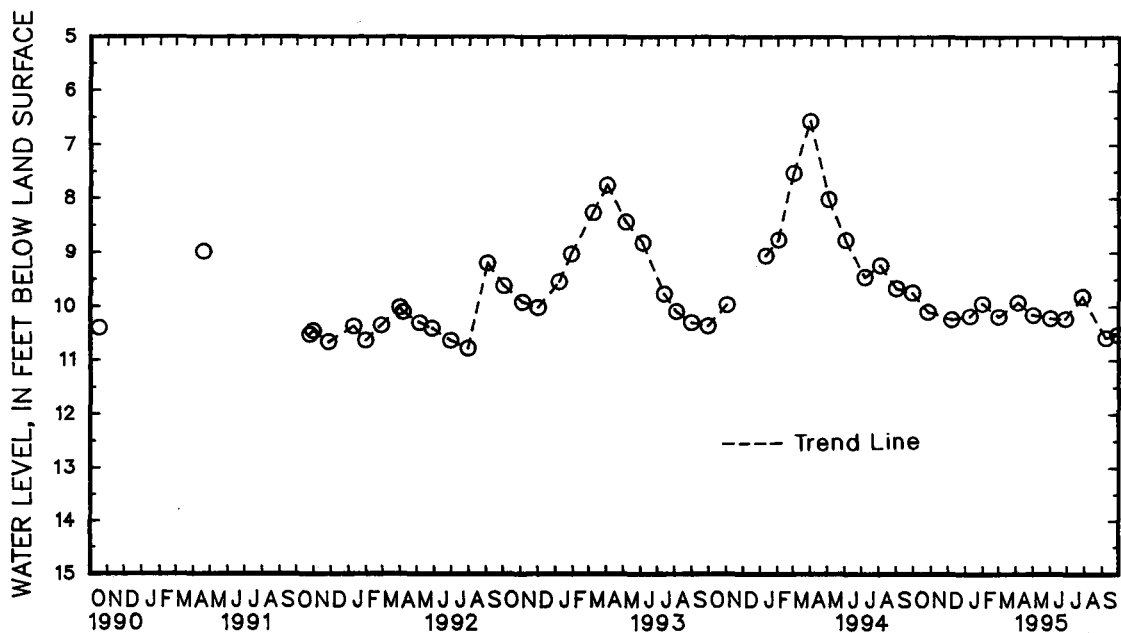
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--N152-12. 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 Group 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 18 ft above National Geodetic Vertical Datum of 1929.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.14	JAN 9	10.22	MAR 1	10.23	MAY 1	10.20	JUN 28	10.28	SEP 7	10.63
DEC 7	10.27	31	9.98	APR 4	9.96	JUN 1	10.26	JUL 27	9.84	SEP 28	10.57
WATER YEAR 1995		HIGHEST	9.84	JUL 27, 1995	LOWEST	10.57	SEP 28, 1995				



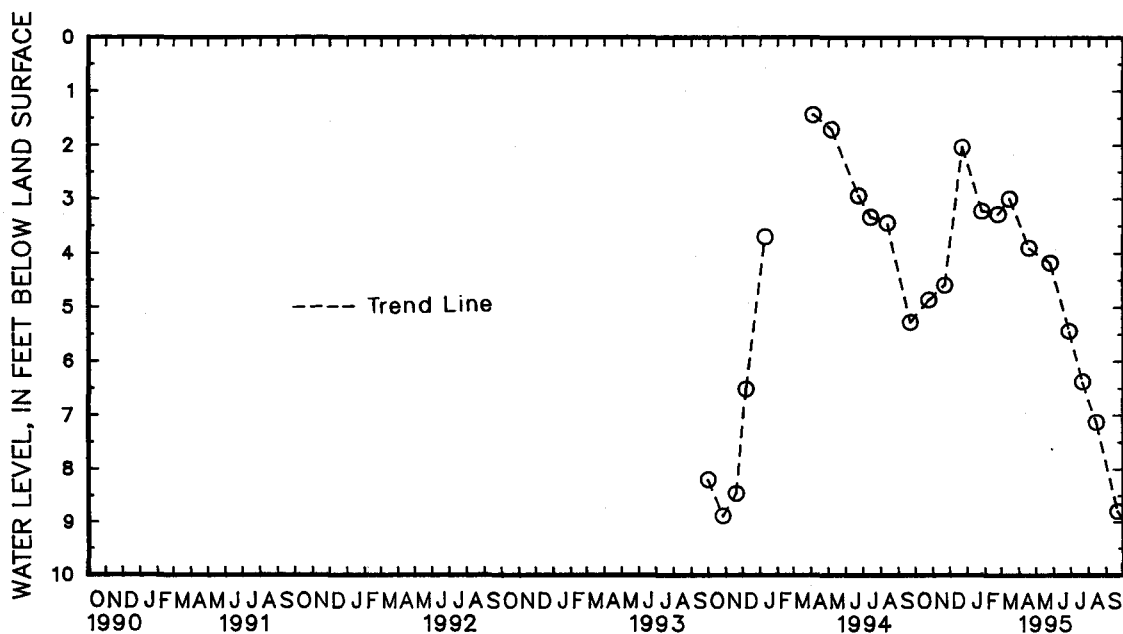
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--Of12-03. SITE ID.--384418075231102. PERMIT NUMBER.--97464.
LOCATION.--Lat 38°44'18", long 75°23'11", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 35 ft; casing diameter 2 in., to 32 ft; screen diameter 2 in. from 32 to 35 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 49.09 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.36 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.44 ft below land surface, April 4, 1994
lowest measured, 8.90 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.89	DEC 22	2.04	FEB 22	3.30	APR 18	3.93	JUN 27	5.48	AUG 14	7.17
NOV 21	4.61	JAN 25	3.23	MAR 14	3.01	MAY 25	4.21	JUL 20	6.42	SEP 20	8.82
WATER YEAR 1995		HIGHEST	2.04	DEC 22, 1994	LOWEST	8.82	SEP 20, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE---Continued

SUSSEX COUNTY---Continued

WELL NUMBER.--Of12-04. SITE ID.--384418075231103. PERMIT NUMBER.--97467.

LOCATION.--Lat 38°44'18", long 75°23'11", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 77 ft; casing diameter 2 in., to 74 ft; screen diameter 2 in. from 74 to 77 ft.

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

DATUM.--Elevation of land surface is 48.98 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.32 ft above land surface.

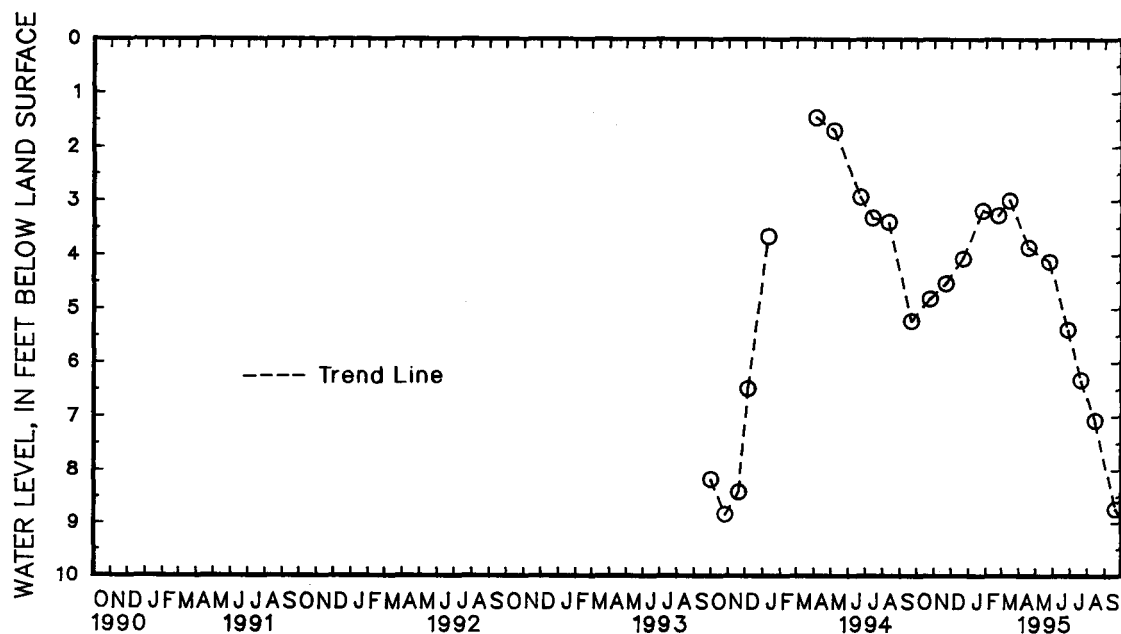
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.46 ft below land surface, April 4, 1994; lowest measured, 8.86 ft below land surface, Oct. 26, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.84	DEC 22	4.08	FEB 22	3.28	APR 18	3.69	JUN 27	5.43	AUG 14	7.12
NOV 21	4.55	JAN 25	3.20	MAR 14	3.00	MAY 25	4.15	JUL 20	6.37	SEP 20	8.76
WATER YEAR 1995		HIGHEST	3.00	MAR 14, 1995	LOWEST	8.76	SEP 20, 1995				

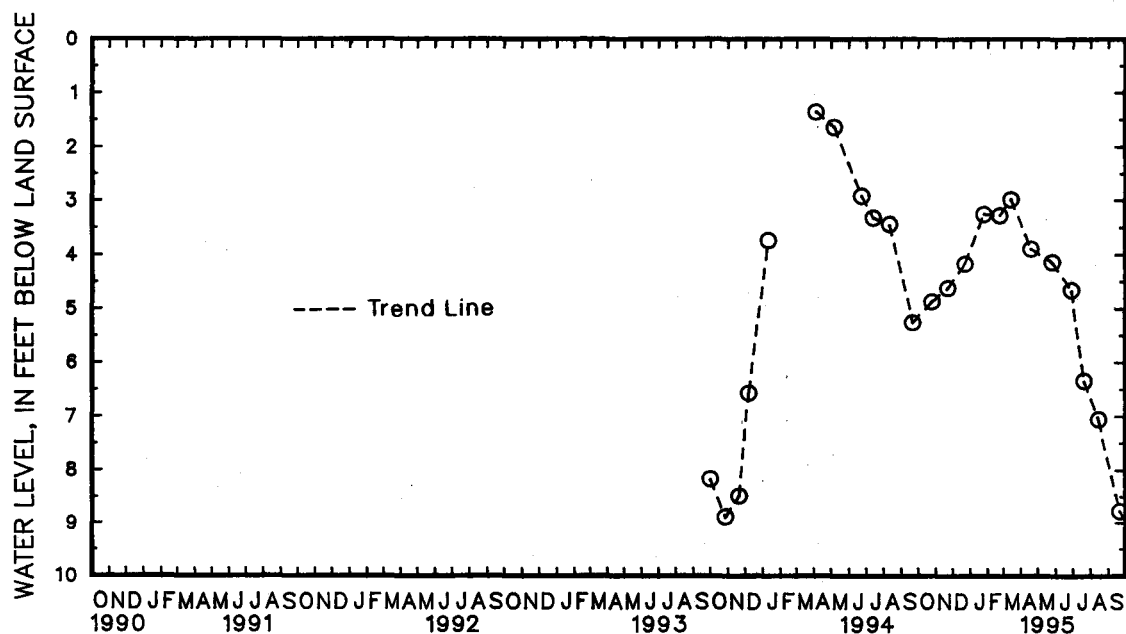


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

WELL NUMBER.--Of12-05. SITE ID.--384418075231101. PERMIT NUMBER.--97471.
LOCATION.--Lat 38°44'18", long 75°23'11", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 13 ft; casing diameter 2 in., to 10 ft;
screen diameter 2 in. from 10 to 13 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 49.13 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.4 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.36 ft below land surface, April 4, 1994;
lowest measured, 8.90 ft below land surface, Oct. 26, 1993

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.89	DEC 22	4.18	FEB 22	3.29	APR 18	3.92	JUN 27	4.69	AUG 14	7.10
NOV 21	4.84	JAN 25	3.26	MAR 14	2.99	MAY 25	4.17	JUL 20	6.39	SEP 20	8.80
WATER YEAR 1995		HIGHEST	2.99	MAR 14, 1995		LOWEST	8.80	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE---Continued

SUSSEX COUNTY---Continued

WELL NUMBER.--Of12-06. SITE ID.--384433075234901. PERMIT NUMBER.--97472.

LOCATION.--Lat 38°44'33", long 75°23'49", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 47.50 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.24 ft above land surface.

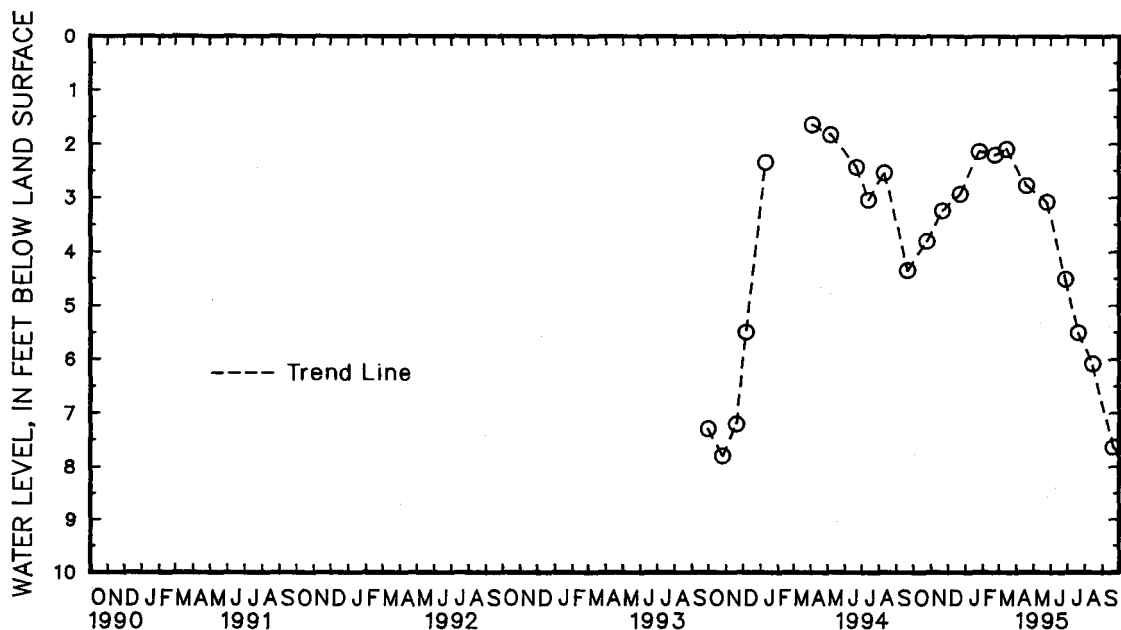
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.64 ft below land surface, April 4, 1994;
lowest measured, 7.83 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.83	DEC 22	2.94	FEB 22	2.21	APR 18	2.79	JUN 27	4.55	AUG 14	6.13
NOV 21	3.25	JAN 25	2.14	MAR 14	2.10	MAY 25	3.10	JUL 20	5.55	SEP 20	7.67
WATER YEAR 1995		HIGHEST	2.10	MAR 14, 1995		LOWEST	7.67	SEP 20, 1995			

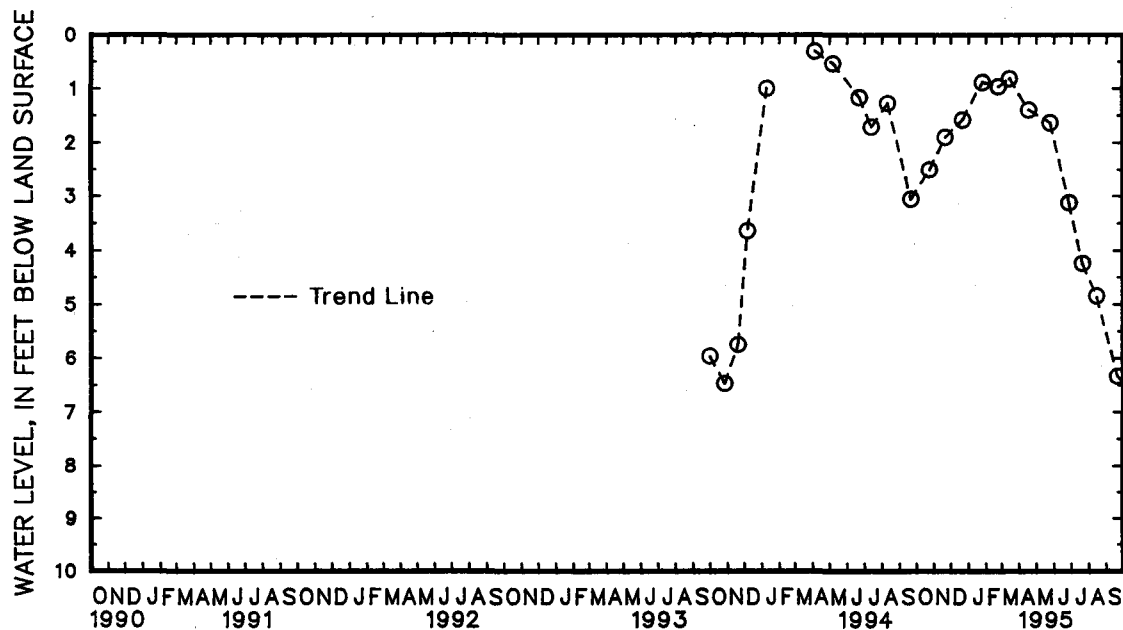


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

SUSSEX COUNTY---Continued

WATER LEVEL, IN FEET BELOW LAND SURFACE. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	2.52	DEC 22	1.59	FEB 22	.97	APR 18	1.41	JUN 27	3.15	AUG 14	4.88
NOV 21	1.91	JAN 25	.89	MAR 14	.82	MAY 25	1.85	JUL 20	4.28	SEP 20	6.38
WATER YEAR 1995		HIGHEST	.82	MAR 14, 1995		LOWEST	6.38	SEP 20, 1995			



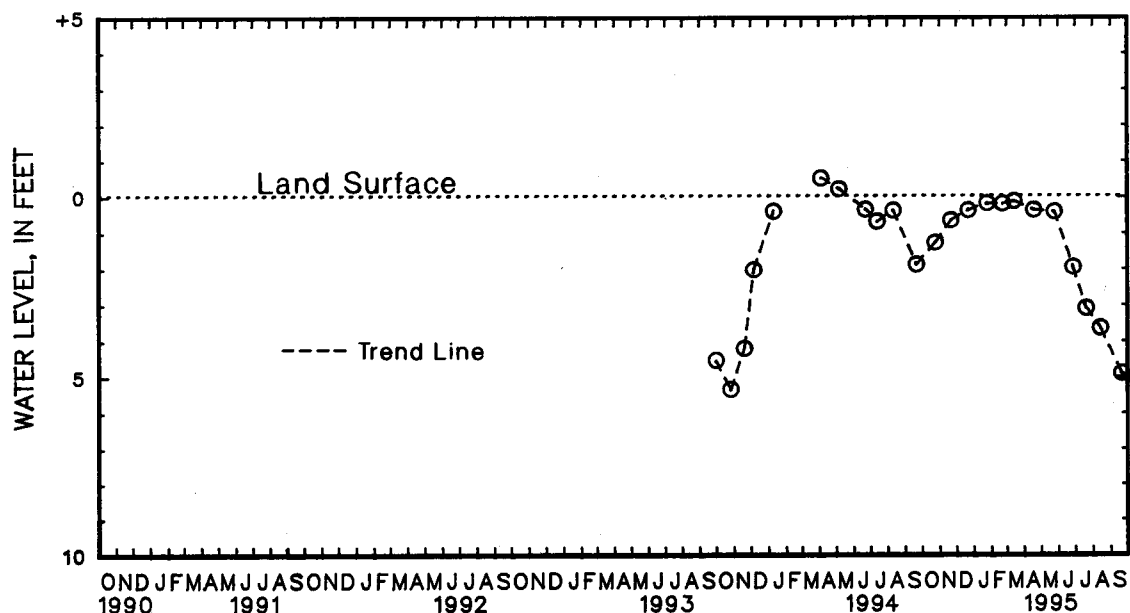
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--O12-08. SITE ID.--384436075234701. PERMIT NUMBER.--95734.
LOCATION.--Lat 38°44'36", long 75°23'47", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 13 ft; casing diameter 2 in., to 10 ft; screen diameter 2 in. from 10 to 13 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.08 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.01 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.53 ft above land surface, April 4, 1994;
lowest measured, 5.39 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	1.29	DEC 22	.37	FEB 22	.19	APR 18	.37	JUN 27	1.99	AUG 14	3.70
NOV 21	.65	JAN 25	.18	MAR 14	.12	MAY 25	.42	JUL 20	3.14	SEP 20	4.96
WATER YEAR 1995		HIGHEST		.12		MAR 14, 1995		LOWEST		4.96 SEP 20, 1995	



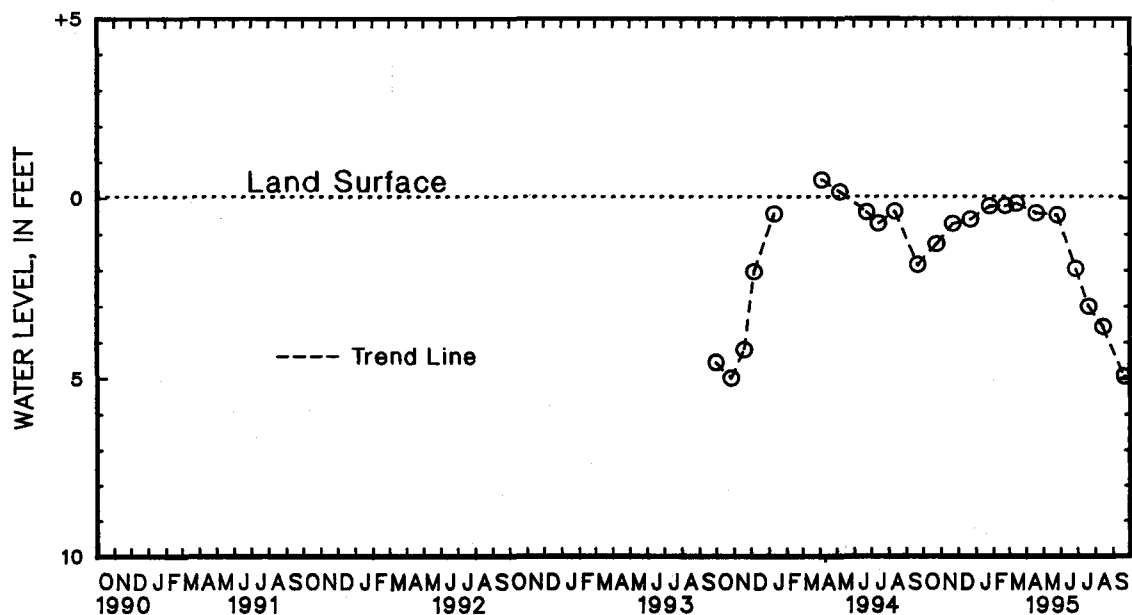
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--O12-09. SITE ID.--384436075234801. PERMIT NUMBER.--95751.
LOCATION.--Lat 38°44'36", long 75°23'48", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 13 ft; casing diameter 2 in., to 10 ft; screen diameter 2 in. from 10 to 13 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.13 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.34 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.50 ft above land surface, April 4, 1994;
lowest measured, 5.05 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	1.30	DEC 22	.60	FEB 22	.22	APR 18	.43	JUN 27	2.00	AUG 14	3.63
NOV 21	.72	JAN 25	.23	MAR 14	.16	MAY 25	.48	JUL 20	3.06	SEP 20	5.00
WATER YEAR 1995		HIGHEST	.16	MAR 14, 1995		LOWEST	5.00	SEP 20, 1995			



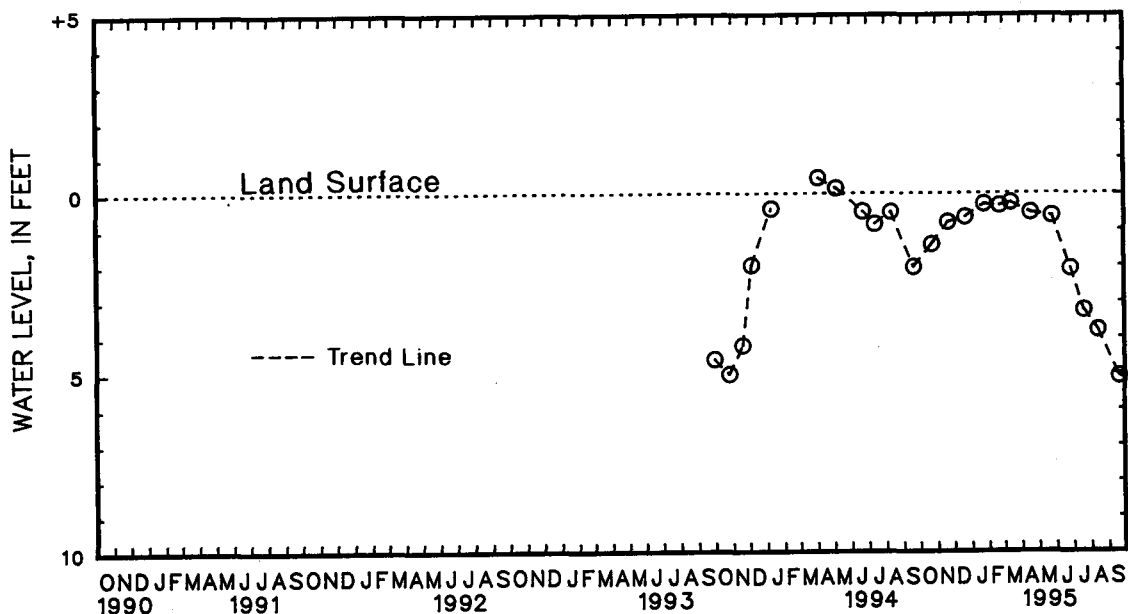
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--Of12-10. SITE ID.--384437075234501. PERMIT NUMBER.--95735.
LOCATION.--Lat 38°44'37", long 75°23'45", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.07 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.31 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.45 ft above land surface, April 4, 1994;
lowest measured, 5.11 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	1.41	DEC 22	.65	FEB 22	.33	APR 18	.53	JUN 27	2.09	AUG 14	3.82
NOV 21	.79	JAN 25	.29	MAR 14	.25	MAY 25	.62	JUL 20	3.26	SEP 20	5.11
WATER YEAR 1995		HIGHEST	.25	MAR 14, 1995		LOWEST	5.11	SEP 20, 1995			

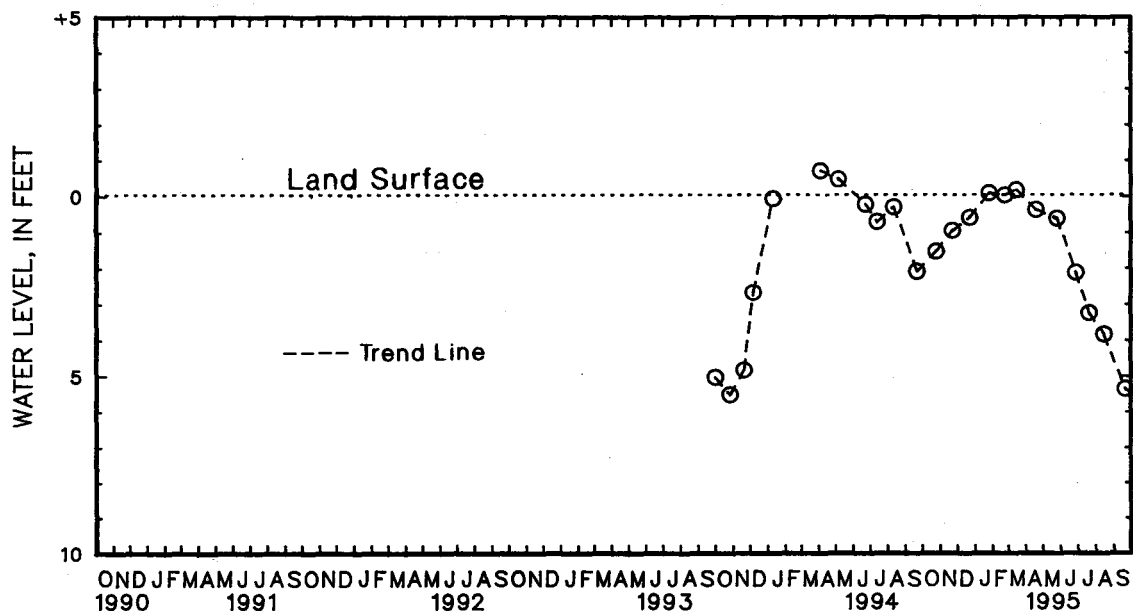


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

WELL NUMBER.--Of12-11. SITE ID.--384437075234502. PERMIT NUMBER.--95748.
LOCATION.--Lat 38°44'37", long 75°23'45", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 73 ft; casing diameter 2 in., to 70 ft;
screen diameter 2 in. from 70 to 73 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.11 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.07 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.69 ft above land surface, April 4, 1994;
lowest measured, 5.57 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	1.56	DEC 22	.61	FEB 22	+0.03	APR 18	.39	JUN 27	2.16	AUG 14	3.90
NOV 21	.96	JAN 25	+.09	MAR 14	+.18	MAY 25	.63	JUL 20	3.30	SEP 20	5.42
WATER YEAR 1995		HIGHEST	+1.18	MAR 14, 1995		LOWEST	5.42	SEP 20, 1995			



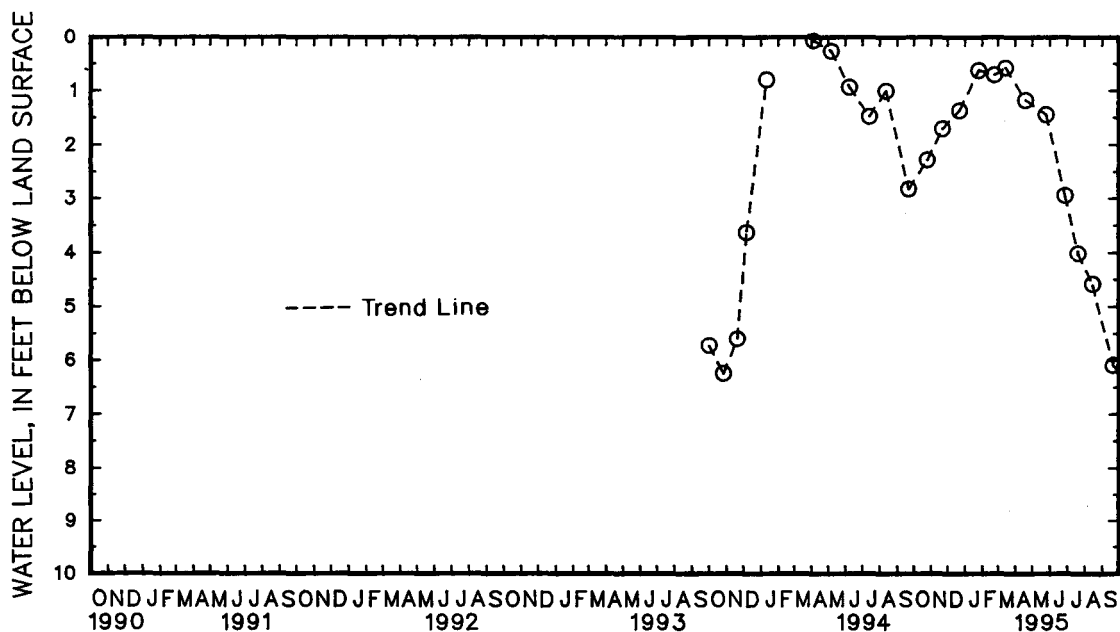
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE---Continued
SUSSEX COUNTY---Continued

WELL NUMBER.--Of12-12. SITE ID.--384438075234802. PERMIT NUMBER.--97465.
LOCATION.--Lat 38°44'38", long 75°23'48", Hydrologic Unit 02040207, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 59 ft; casing diameter 2 in., to 56 ft;
screen diameter 2 in. from 56 to 59 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.89 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.5 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.07 ft below land surface, April 4, 1994;
lowest measured, 6.29 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 24	2.30	DEC 22	1.38	FEB 22	.71	APR 18	1.19	JUN 27	2.97	AUG 14	4.62
NOV 21	1.71	JAN 25	.63	MAR 14	.59	MAY 25	1.46	JUL 20	4.05	SEP 20	6.14
WATER YEAR 1995		HIGHEST	.59	MAR 14, 1995		LOWEST	6.14	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

79

DELAWARE--Continued

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.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
 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 chalked steel tape by U.S. Geological Survey.
 Equipped with digital level recorder--60-minute recorder interval from Dec. 7, 1993, to current year.
 DATUM.--Elevation of land surface is 46.36 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.58 ft above land surface.
 REMARKS.--Delaware Department of Transportation Wetlands Project observation well.
 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, 6.67 ft below land surface, Sept. 30, 1995.

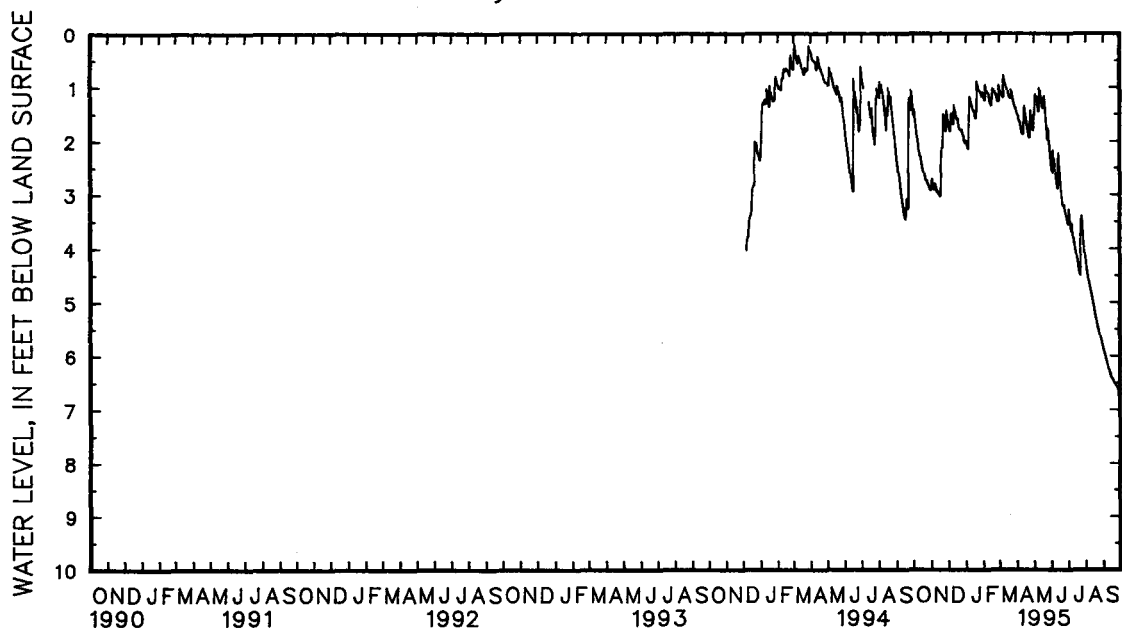
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.52	1.42	2.89	2.61	1.68	1.61	2.00	1.92	1.15	1.10	.96	.94
2	1.42	1.34	2.72	2.61	1.72	1.68	2.04	1.91	1.21	1.15	1.04	.86
3	1.55	1.41	2.81	2.72	1.78	1.72	2.06	2.04	1.25	1.21	1.08	1.04
4	1.62	1.55	2.87	2.81	1.82	1.78	2.11	2.06	1.24	.74	1.12	1.08
5	1.71	1.62	2.91	2.87	1.82	1.38	2.15	2.11	.96	.84	1.14	1.12
6	1.82	1.71	2.92	2.73	1.49	1.40	2.16	1.54	1.02	.96	1.17	1.14
7	1.90	1.82	2.81	2.73	1.56	1.48	1.54	1.04	1.07	1.02	1.19	1.17
8	1.96	1.90	2.82	2.81	1.66	1.56	1.17	1.09	1.11	1.07	1.19	.71
9	2.03	1.96	2.88	2.82	1.68	1.66	1.24	1.17	1.12	1.11	.77	.68
10	2.17	2.03	2.96	2.88	1.70	1.26	1.29	1.24	1.13	1.10	.83	.77
11	2.21	2.14	2.93	2.90	1.33	1.25	1.32	1.29	1.20	1.13	.89	.83
12	2.27	2.21	2.95	2.93	1.42	1.33	1.35	1.32	1.29	1.20	.94	.89
13	2.30	2.27	2.99	2.95	1.46	1.42	1.41	1.35	1.30	1.29	.97	.94
14	2.30	2.30	3.00	2.99	1.52	1.46	1.43	1.41	1.32	1.29	1.01	.97
15	2.39	2.30	3.02	3.00	1.58	1.52	1.43	1.42	1.34	1.22	1.03	1.01
16	2.45	2.39	3.04	3.02	1.60	1.58	1.48	1.43	1.22	1.10	1.08	1.03
17	2.51	2.45	3.04	2.64	1.60	1.55	1.55	1.48	1.10	1.01	1.14	1.08
18	2.56	2.51	2.64	2.25	1.59	1.55	1.58	1.55	1.03	1.01	1.17	1.14
19	2.60	2.56	2.25	2.04	1.70	1.59	1.58	1.45	1.05	1.03	1.20	1.17
20	2.63	2.60	2.13	2.06	1.75	1.70	1.45	.78	1.05	1.04	1.21	1.20
21	2.70	2.63	2.13	1.42	1.79	1.75	.88	.80	1.09	1.04	1.21	.93
22	2.74	2.70	1.50	1.41	1.79	1.79	.95	.88	1.13	1.09	1.05	.95
23	2.74	2.68	1.58	1.50	1.79	1.77	.98	.95	1.13	1.11	1.10	1.05
24	2.74	2.68	1.64	1.58	1.81	1.77	1.05	.98	1.20	1.11	1.18	1.10
25	2.80	2.74	1.71	1.64	1.80	1.75	1.07	1.02	1.22	1.20	1.23	1.18
26	2.82	2.80	1.79	1.71	1.87	1.80	1.08	1.04	1.27	1.22	1.28	1.23
27	2.84	2.80	1.83	1.43	1.89	1.87	1.11	1.08	1.27	1.27	1.32	1.28
28	2.87	2.84	1.43	1.31	1.91	1.88	1.13	1.11	1.27	.95	1.35	1.32
29	2.91	2.87	1.52	1.41	2.00	1.91	1.17	1.13	---	---	1.39	1.35
30	2.93	2.91	1.61	1.52	2.03	2.00	1.17	1.07	---	---	1.39	1.39
31	2.93	2.89	---	---	2.05	2.00	1.10	1.07	---	---	1.44	1.39
MONTH	2.93	1.34	3.04	1.31	2.05	1.25	2.16	.78	1.34	.74	1.44	.68

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued
Of12-13--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.48	1.44	1.51	1.45	2.44	2.33	3.57	3.29	4.27	4.18	5.90	5.85
2	1.51	1.48	1.52	1.00	2.54	2.44	3.29	3.18	4.38	4.27	5.84	5.90
3	1.53	1.51	1.12	1.00	2.61	2.07	3.39	3.20	4.44	4.38	5.98	5.94
4	1.60	1.51	1.20	1.12	2.18	2.02	3.52	3.39	4.50	4.44	6.02	5.98
5	1.63	1.60	1.20	.98	2.33	2.18	3.62	3.52	4.57	4.50	6.05	6.02
6	1.64	1.63	1.17	1.03	2.34	2.33	3.69	3.62	4.61	4.57	6.09	6.05
7	1.71	1.63	1.27	1.17	2.43	2.28	3.71	3.43	4.66	4.61	6.12	6.09
8	1.73	1.71	1.37	1.27	2.63	2.43	3.56	3.41	4.71	4.66	6.17	6.12
9	1.82	1.73	1.45	1.37	2.72	2.63	3.72	3.56	4.75	4.71	6.20	6.17
10	1.86	1.82	1.45	.88	2.80	2.72	3.80	3.72	4.81	4.75	6.25	6.20
11	1.88	1.86	1.00	.92	2.89	2.80	3.84	3.79	4.86	4.81	6.27	6.24
12	1.88	1.69	1.08	1.00	2.90	2.51	3.90	3.84	4.91	4.86	6.30	6.27
13	1.69	1.17	1.20	1.08	2.51	2.10	3.97	3.90	4.98	4.91	6.34	6.30
14	1.34	1.23	1.21	1.18	2.23	2.08	4.04	3.97	5.04	4.98	6.38	6.34
15	1.43	1.34	1.28	1.18	2.48	2.23	4.11	4.03	5.08	5.04	6.42	6.38
16	1.52	1.43	1.39	1.28	2.67	2.48	4.18	4.11	5.12	5.08	6.43	6.42
17	1.58	1.52	1.39	1.27	2.81	2.67	4.24	4.18	5.17	5.12	6.43	6.42
18	1.64	1.58	1.29	1.16	2.93	2.81	4.30	4.24	5.24	5.17	6.46	6.43
19	1.70	1.64	1.17	1.05	3.03	2.93	4.38	4.30	5.29	5.24	6.48	6.46
20	1.78	1.70	1.30	1.13	3.13	3.03	4.44	4.38	5.33	5.29	6.51	6.48
21	1.80	1.78	1.44	1.30	3.21	3.13	4.49	4.44	5.39	5.33	6.53	6.51
22	1.91	1.80	1.59	1.44	3.23	3.20	4.51	3.52	5.45	5.39	6.54	6.53
23	1.94	1.91	1.71	1.59	3.23	3.16	3.52	3.32	5.49	5.45	6.56	6.54
24	1.94	1.28	1.82	1.71	3.21	3.15	3.41	3.35	5.53	5.49	6.57	6.56
25	1.43	1.29	1.99	1.75	3.30	3.21	3.41	3.34	5.59	5.53	6.58	6.57
26	1.54	1.43	1.78	1.70	3.35	3.30	3.57	3.41	5.63	5.59	6.60	6.58
27	1.60	1.54	1.96	1.78	3.40	3.35	3.71	3.57	5.67	5.63	6.63	6.60
28	1.71	1.60	2.01	1.96	3.43	3.39	3.84	3.71	5.72	5.67	6.65	6.63
29	1.80	1.71	2.08	2.00	3.49	3.43	3.95	3.84	5.76	5.72	6.66	6.65
30	1.81	1.45	2.21	2.08	3.55	3.49	4.07	3.95	5.81	5.76	6.67	6.66
31	---	---	2.33	2.21	---	---	4.18	4.07	5.85	5.81	---	---
MONTH	1.94	1.17	2.33	.88	3.55	2.02	4.51	3.18	5.85	4.18	6.67	5.85
YEAR	6.67	.68										

Daily Low Water Levels



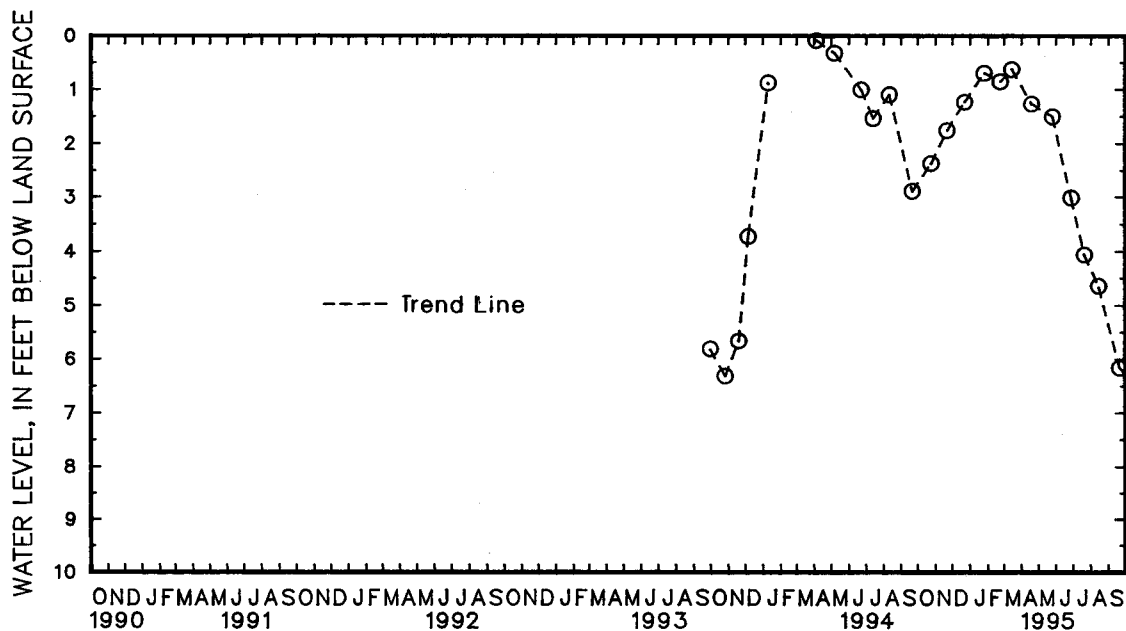
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-14. SITE ID.--384438075234803. PERMIT NUMBER.--97468.
LOCATION.--Lat 38°44'38", long 75°23'48", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 80 ft; casing diameter 2 in., to 77 ft; screen diameter 2 in. from 77 to 80 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.94 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.56 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft below land surface, April 4, 1994;
lowest measured, 6.36 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	2.39	DEC 22	1.24	FEB 22	.86	APR 18	1.28	JUN 27	3.04	AUG 14	4.68
NOV 21	1.77	JAN 25	.70	MAR 14	.63	MAY 25	1.52	JUL 20	4.10	SEP 20	6.21
WATER YEAR 1995		HIGHEST		.63 MAR 14, 1995		LOWEST		6.21 SEP 20, 1995			



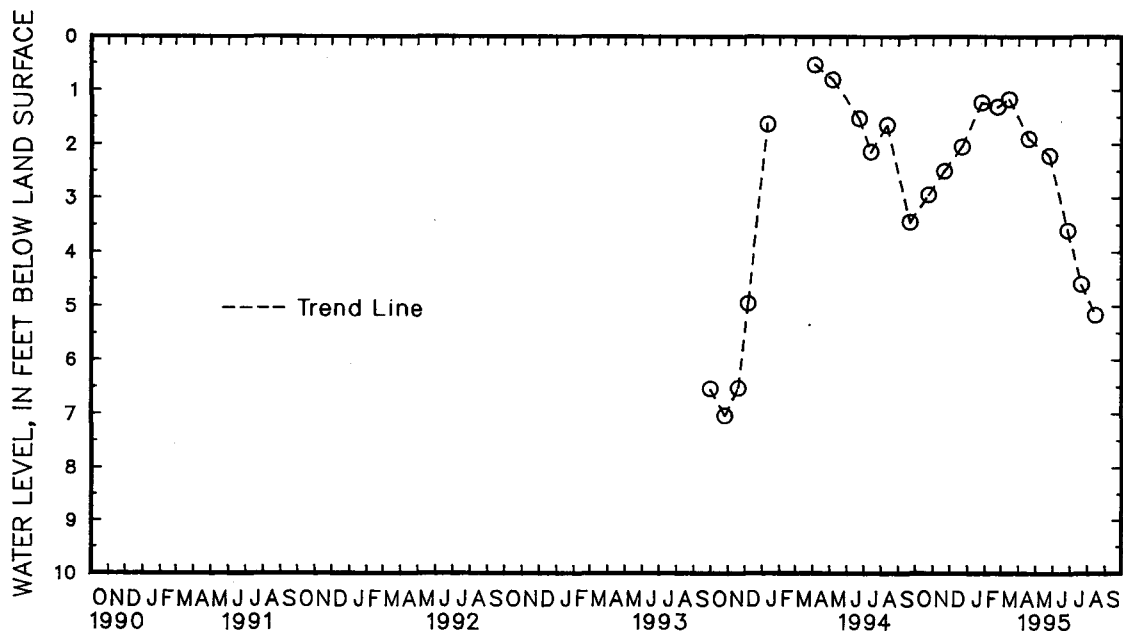
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-15. SITE ID.--384441075233702. PERMIT NUMBER.--95737.
LOCATION.--Lat 38°44'41", long 75°23'37", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 82 ft; casing diameter 2 in., to 79 ft; screen diameter 2 in. from 79 to 82 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 46.72 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.59 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.53 ft below land surface, April 4, 1994;
lowest measured, 7.08 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 24	2.96	DEC 22	2.05	FEB 22	1.31	APR 18	1.91	JUN 27	3.63	AUG 14	5.20	
NOV 21	2.51	JAN 25	1.23	MAR 14	1.17	MAY 25	2.23	JUL 20	4.63			
WATER YEAR 1995		HIGHEST	1.17	MAR 14, 1995		LOWEST	5.20	AUG 14, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

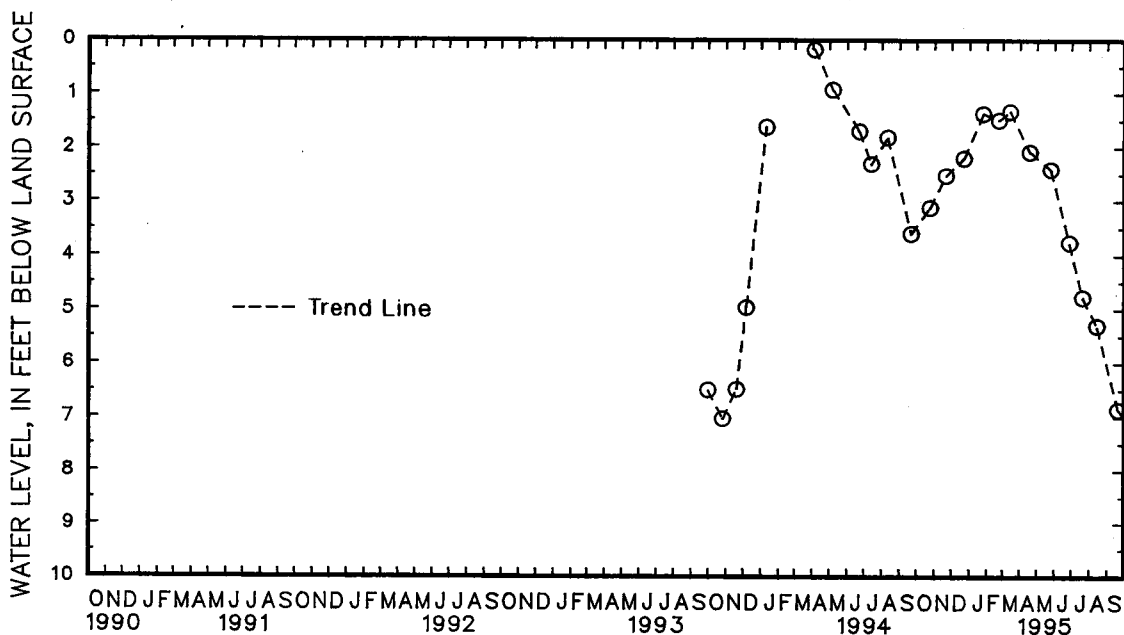
DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-16. SITE ID.--384441075233701. PERMIT NUMBER.--95738.
LOCATION.--Lat 38°44'41", long 75°23'37", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 46.72 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.46 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.18 ft below land surface, April 4, 1994;
lowest measured, 7.07 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.14	DEC 22	2.20	FEB 22	1.49	APR 18	2.09	JUN 27	3.79	AUG 14	5.34
NOV 21	2.53	JAN 25	1.37	MAR 14	1.33	MAY 25	2.42	JUL 20	4.81	SEP 20	6.90
WATER YEAR 1995		HIGHEST	1.33	MAR 14, 1995		LOWEST	6.90	SEP 20, 1995			



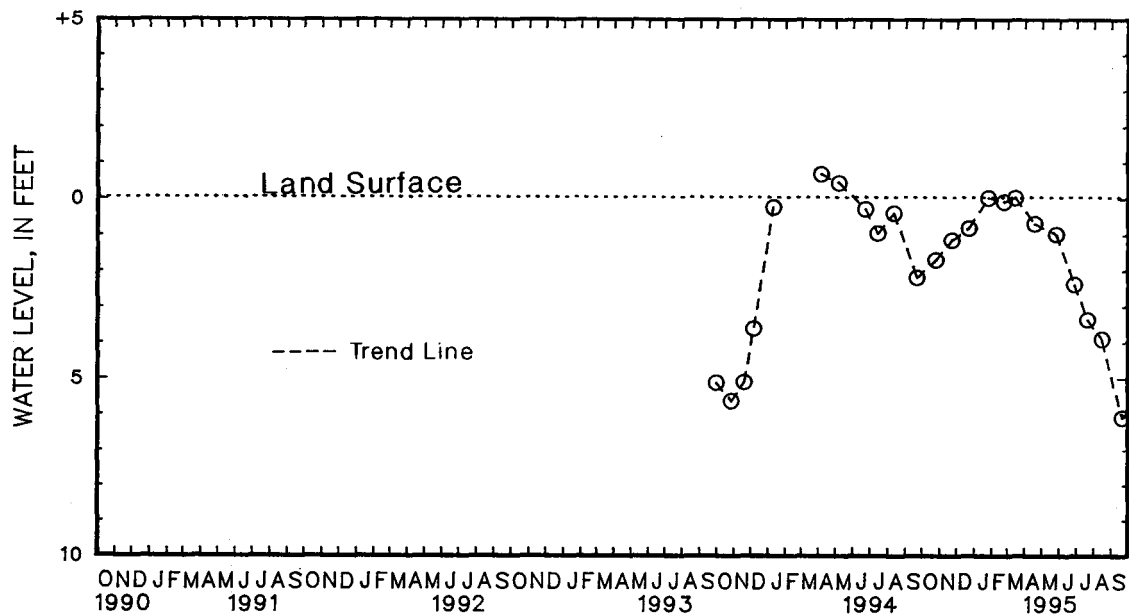
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-17. SITE ID.--384444075233901. PERMIT NUMBER.--95739.
LOCATION.--Lat 38°44'44", long 75°23'39", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 39 ft; casing diameter 2 in., to 36 ft; screen diameter 2 in. from 36 to 39 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 45.32 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 3.18 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.68 ft above land surface, April 4, 1994; lowest measured, 6.15 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	1.73	DEC 22	.82	FEB 22	.09	APR 18	.71	JUN 27	2.42	AUG 14	3.97
NOV 21	1.16	JAN 25	+ .02	MAR 14	+ .04	MAY 25	1.01	JUL 20	3.42	SEP 20	6.15
WATER YEAR 1995		HIGHEST	+ .04	MAR 14, 1995		LOWEST	6.15	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-19. SITE ID.--384444075234102. PERMIT NUMBER.--95749.

LOCATION.--Lat 38°44'44", long 75°23'41", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 79 ft; casing diameter 2 in., to 76 ft; screen diameter 2 in. from 76 to 79 ft.

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

DATUM.--Elevation of land surface is 45.96 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.62 ft above land surface.

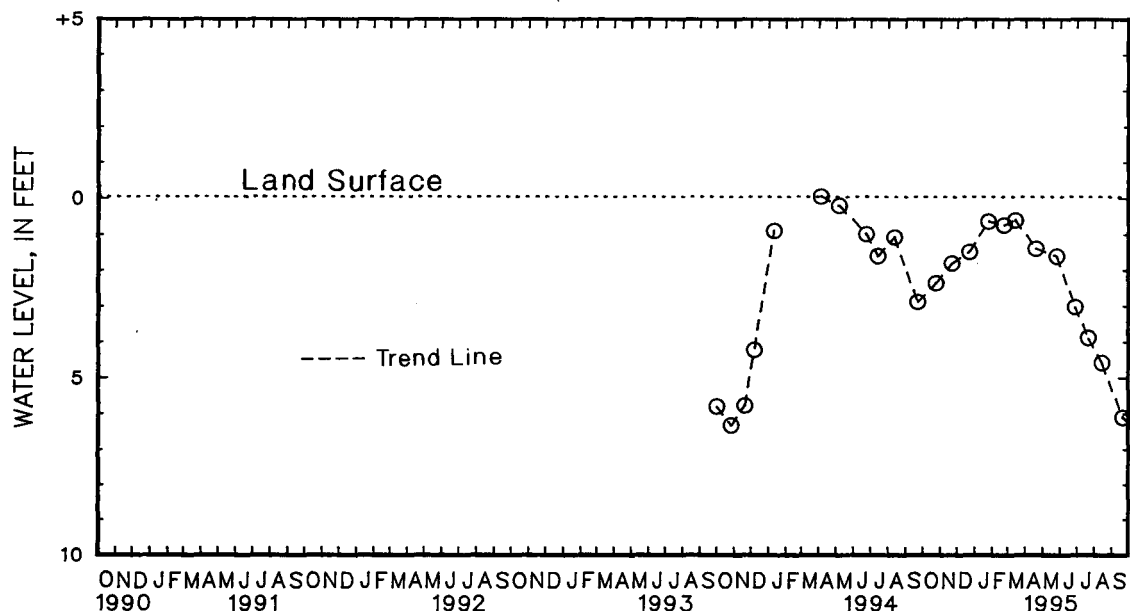
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.05 ft above land surface, April 4, 1994; lowest measured, 6.38 ft below land surface, Oct. 26, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	2.39	DEC 22	1.50	FEB 22	.75	APR 18	1.42	JUN 27	3.08	AUG 14	4.64
NOV 21	1.82	JAN 25	.64	MAR 14	.60	MAY 25	1.64	JUL 20	3.95	SEP 20	6.16
WATER YEAR 1995		HIGHEST		.60 MAR 14, 1995		LOWEST		6.16 SEP 20, 1995			



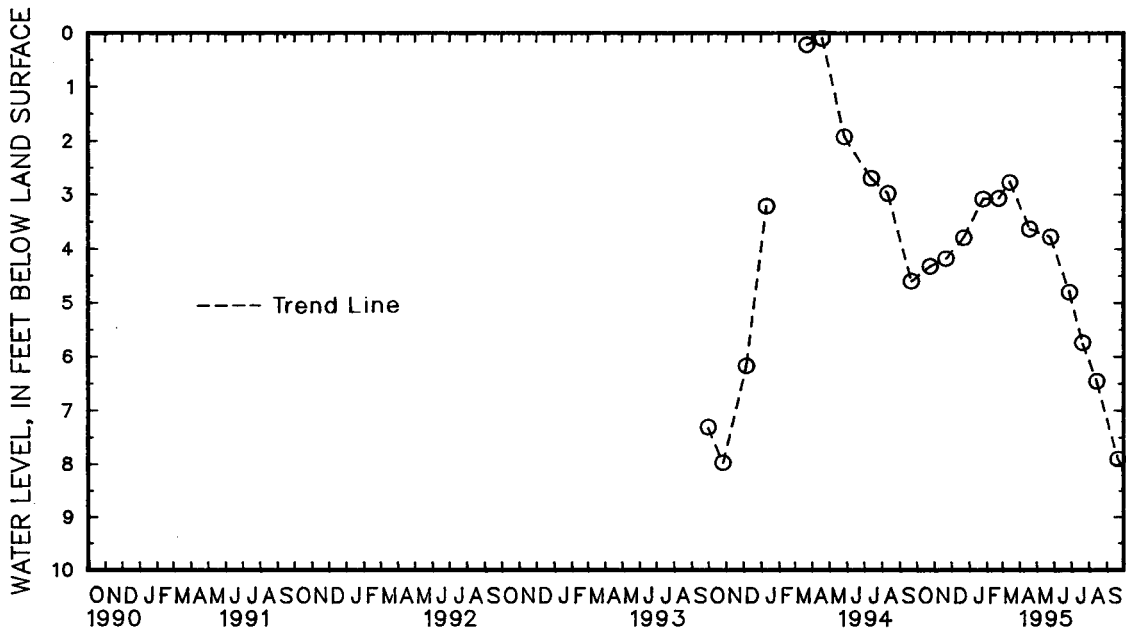
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-01. SITE ID.--384401075224903. PERMIT NUMBER.--95778.
LOCATION.--Lat 38°44'02", long 75°22'50", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 103 ft; casing diameter 2 in., to 100 ft; screen diameter 2 in. from 100 to 103 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 48.29 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.29 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.10 ft below land surface, April 18, 1994;
lowest measured, 8.01 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.36	DEC 22	3.81	FEB 22	3.08	APR 18	3.66	JUN 27	4.84	AUG 14	6.50
NOV 21	4.21	JAN 25	3.09	MAR 14	2.78	MAY 25	3.81	JUL 20	5.79	SEP 20	7.94
WATER YEAR 1995		HIGHEST	2.78	MAR 14, 1995		LOWEST	7.94	SEP 20, 1995			



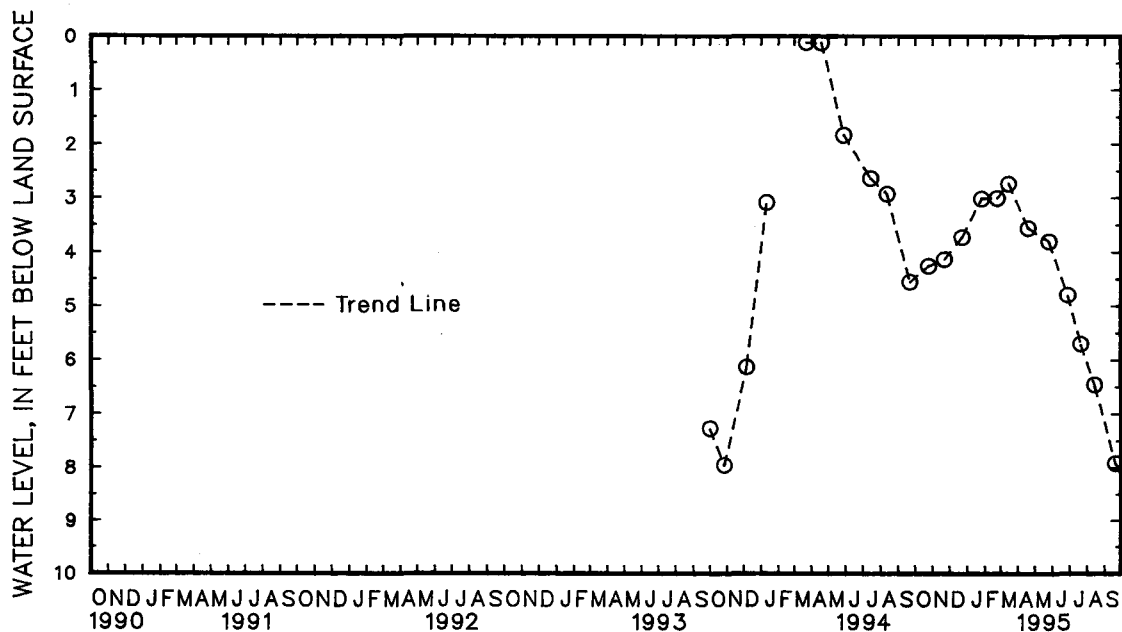
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-02. SITE ID.--384402075225002. PERMIT NUMBER.--95787.
LOCATION.--Lat 38°44'02", long 75°22'50", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 52 ft; casing diameter 2 in., to 49 ft; screen diameter 2 in. from 49 to 52 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 48.28 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.33 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .12 ft below land surface, March 22, 1994;
lowest measured, 7.99 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.29	DEC 22	3.74	FEB 22	3.01	APR 18	3.58	JUN 27	4.83	AUG 14	6.50
NOV 21	4.16	JAN 25	3.02	MAR 14	2.74	MAY 25	3.83	JUL 20	5.75	SEP 20	7.96
WATER YEAR 1995		HIGHEST	2.74	MAR 14, 1995		LOWEST	7.96	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

89

DELAWARE--Continued

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.--Pleistocene-Pliocene Series. Aquifer code:112PCFC.
 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 chalked steel 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.--Elevation of land surface is 48.37 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 3.28 ft above land surface.
 REMARKS.--Delaware Department of Transportation Wetlands Project observation well.
 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, 8.33 ft below land surface, Sept. 30, 1995.

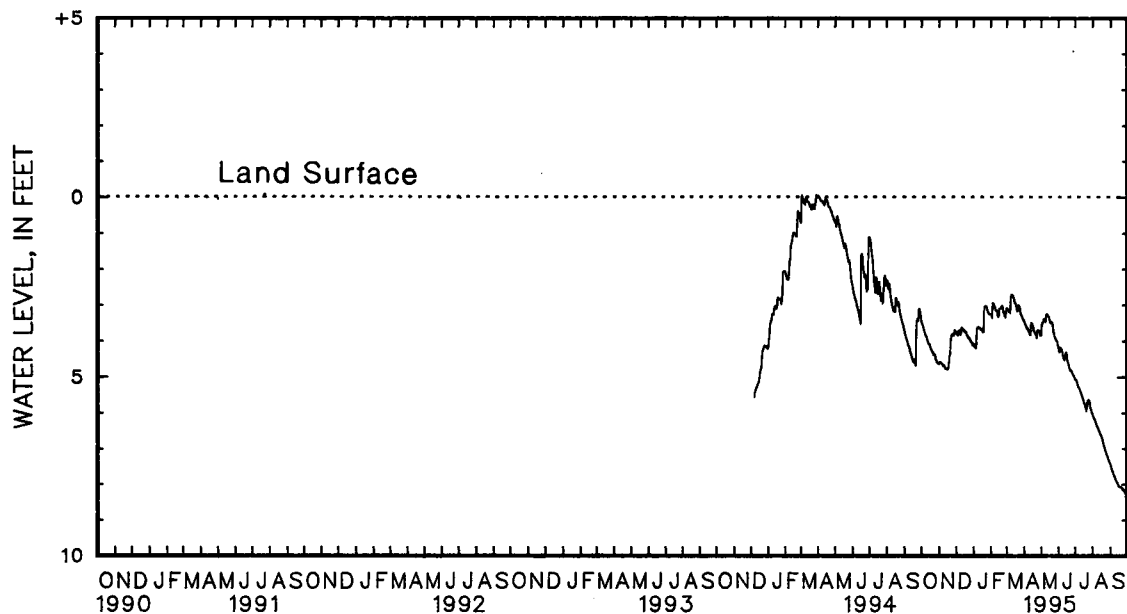
 WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS ABOVE LAND SURFACE INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.55	3.48	4.65	4.63	3.81	3.78	4.13	4.10	3.26	3.26	3.17	3.10
2	3.56	3.52	4.63	4.60	3.81	3.80	4.17	4.10	3.36	3.26	3.12	3.10
3	3.63	3.56	4.62	4.61	3.85	3.81	4.19	4.17	3.40	3.36	3.16	3.12
4	3.68	3.63	4.63	4.62	3.87	3.85	4.20	4.18	3.39	2.96	3.18	3.15
5	3.73	3.68	4.65	4.63	3.87	3.74	4.25	4.20	2.98	2.96	3.19	3.18
6	3.81	3.73	4.66	4.65	3.74	3.73	4.25	4.12	3.02	2.98	3.22	3.19
7	3.85	3.81	4.70	4.66	3.77	3.72	4.12	3.67	3.06	3.02	3.23	3.22
8	3.87	3.85	4.70	4.70	3.83	3.77	3.67	3.64	3.14	3.06	3.23	2.91
9	3.92	3.87	4.70	4.69	3.83	3.83	3.64	3.63	3.16	3.14	2.91	2.72
10	3.99	3.92	4.75	4.70	3.84	3.67	3.65	3.63	3.16	3.16	2.73	2.72
11	4.04	3.99	4.77	4.75	3.67	3.64	3.65	3.65	3.19	3.16	2.73	2.72
12	4.09	4.04	4.78	4.77	3.70	3.67	3.65	3.65	3.30	3.19	2.78	2.73
13	4.09	4.08	4.78	4.77	3.70	3.70	3.69	3.65	3.33	3.30	2.82	2.78
14	4.11	4.09	4.80	4.78	3.72	3.70	3.70	3.69	3.37	3.33	2.93	2.82
15	4.17	4.11	4.81	4.80	3.75	3.72	3.70	3.68	3.38	3.29	2.93	2.93
16	4.20	4.17	4.81	4.80	3.78	3.75	3.71	3.68	3.29	3.12	2.98	2.93
17	4.24	4.20	4.81	4.77	3.76	3.75	3.76	3.71	3.12	3.10	3.06	2.98
18	4.27	4.24	4.77	4.62	3.77	3.75	3.79	3.76	3.10	3.09	3.13	3.06
19	4.31	4.27	4.62	4.42	3.84	3.77	3.78	3.75	3.09	3.08	3.18	3.13
20	4.33	4.31	4.42	4.37	3.86	3.84	3.75	3.08	3.08	3.04	3.19	3.18
21	4.38	4.32	4.37	4.04	3.89	3.86	3.08	3.04	3.07	3.03	3.19	3.02
22	4.41	4.38	4.04	3.88	3.93	3.89	3.04	3.03	3.19	3.07	3.03	3.02
23	4.41	4.40	3.88	3.83	3.93	3.93	3.05	3.03	3.19	3.19	3.08	3.03
24	4.44	4.40	3.85	3.83	3.95	3.93	3.11	3.05	3.29	3.19	3.21	3.08
25	4.54	4.44	3.85	3.85	3.99	3.95	3.18	3.11	3.31	3.29	3.26	3.21
26	4.54	4.53	3.91	3.85	4.03	3.99	3.20	3.18	3.35	3.30	3.30	3.26
27	4.60	4.54	3.92	3.85	4.04	4.03	3.23	3.20	3.35	3.35	3.33	3.30
28	4.62	4.60	3.85	3.72	4.05	4.04	3.26	3.23	3.35	3.17	3.37	3.33
29	4.63	4.62	3.75	3.72	4.12	4.05	3.30	3.26	---	---	3.41	3.37
30	4.65	4.63	3.78	3.75	4.15	4.12	3.30	3.26	---	---	3.42	3.41
31	4.65	4.65	---	---	4.16	4.13	3.26	3.26	---	---	3.46	3.42
MONTH	4.65	3.48	4.81	3.72	4.16	3.64	4.25	3.03	3.40	2.96	3.46	2.72

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued
Of13-03--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.51	3.46	3.86	3.85	4.30	4.22	5.09	5.07	6.09	6.04	7.50	7.44
2	3.56	3.51	3.85	3.53	4.34	4.30	5.10	5.09	6.14	6.09	7.56	7.50
3	3.58	3.56	3.53	3.50	4.37	4.32	5.14	5.10	6.17	6.14	7.61	7.56
4	3.62	3.57	3.50	3.50	4.32	4.21	5.20	5.14	6.22	6.17	7.65	7.61
5	3.67	3.62	3.50	3.40	4.24	4.21	5.26	5.20	6.25	6.21	7.69	7.65
6	3.68	3.67	3.40	3.39	4.25	4.24	5.30	5.26	6.29	6.25	7.73	7.69
7	3.71	3.67	3.41	3.40	4.32	4.25	5.31	5.30	6.34	6.29	7.76	7.73
8	3.73	3.71	3.47	3.41	4.43	4.32	5.34	5.31	6.38	6.34	7.81	7.76
9	3.78	3.73	3.52	3.47	4.49	4.43	5.40	5.34	6.41	6.38	7.85	7.81
10	3.85	3.78	3.52	3.29	4.53	4.49	5.44	5.40	6.45	6.41	7.90	7.85
11	3.85	3.84	3.29	3.26	4.58	4.53	5.48	5.43	6.49	6.45	7.93	7.90
12	3.85	3.84	3.29	3.27	4.58	4.54	5.53	5.48	6.53	6.49	7.96	7.93
13	3.84	3.51	3.32	3.29	4.54	4.40	5.58	5.53	6.59	6.53	7.99	7.96
14	3.53	3.51	3.33	3.32	4.40	4.34	5.62	5.58	6.63	6.59	8.04	7.99
15	3.59	3.53	3.40	3.33	4.42	4.34	5.67	5.62	6.64	6.63	8.07	8.04
16	3.65	3.59	3.49	3.40	4.54	4.42	5.73	5.67	6.68	6.64	8.09	8.07
17	3.71	3.65	3.51	3.49	4.60	4.54	5.77	5.73	6.72	6.68	8.09	8.08
18	3.76	3.71	3.51	3.50	4.64	4.60	5.82	5.77	6.81	6.72	8.08	8.08
19	3.77	3.76	3.50	3.48	4.70	4.64	5.87	5.82	6.87	6.81	8.09	8.08
20	3.82	3.77	3.53	3.49	4.77	4.70	5.96	5.87	6.93	6.87	8.11	8.09
21	3.84	3.82	3.61	3.53	4.82	4.77	6.00	5.96	6.98	6.93	8.13	8.11
22	3.93	3.84	3.75	3.61	4.84	4.82	6.01	5.85	7.04	6.98	8.16	8.13
23	3.95	3.93	3.82	3.75	4.84	4.84	5.85	5.68	7.08	7.04	8.18	8.16
24	3.95	3.74	3.89	3.82	4.86	4.84	5.68	5.65	7.13	7.08	8.19	8.18
25	3.74	3.72	3.96	3.89	4.90	4.86	5.66	5.65	7.19	7.13	8.20	8.19
26	3.74	3.73	3.96	3.95	4.94	4.90	5.71	5.66	7.22	7.19	8.23	8.20
27	3.74	3.73	4.00	3.96	4.98	4.94	5.82	5.71	7.27	7.22	8.26	8.23
28	3.83	3.73	4.02	4.00	4.99	4.98	5.89	5.82	7.32	7.27	8.29	8.26
29	3.90	3.83	4.04	4.02	5.04	4.99	5.93	5.89	7.36	7.32	8.30	8.29
30	3.91	3.86	4.15	4.04	5.07	5.04	6.00	5.93	7.41	7.36	8.33	8.30
31	---	---	4.22	4.15	---	---	6.04	6.00	7.44	7.41	---	---
MONTH	3.95	3.46	4.22	3.26	5.07	4.21	6.04	5.07	7.44	6.04	8.33	7.44
YEAR	8.33	2.72										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

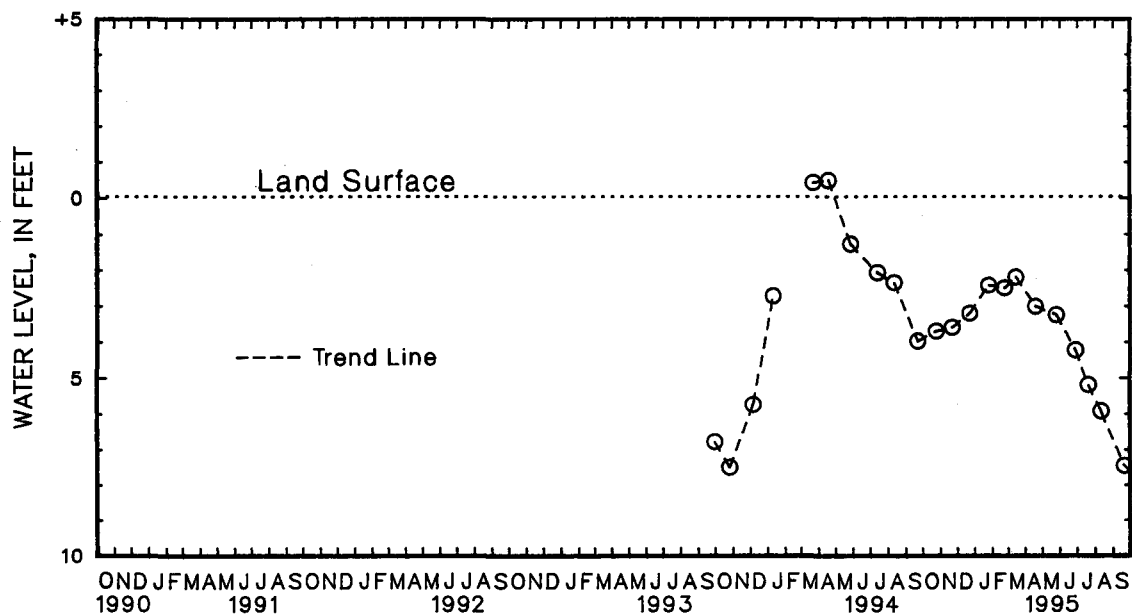
DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-04. SITE ID.--384403075224701. PERMIT NUMBER.--95779.
 LOCATION.--Lat 38°44'03", long 75°22'47", Hydrologic Unit 02060008, near Redden State Forest.
 Owner: Delaware Department of Transportation.
 AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 47.75 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of metal sleeve, 2.41 ft above land surface.
 REMARKS.--Delaware Department of Transportation Project observation well.
 PERIOD OF RECORD.--September 1993 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.49 ft above land surface, April 18, 1994; lowest measured, 7.54 ft below land surface, Oct. 26, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.76	DEC 22	3.25	FEB 22	2.52	APR 18	3.06	JUN 27	4.29	AUG 11	5.98
NOV 21	3.65	JAN 25	2.44	MAR 14	2.21	MAY 25	3.30	JUL 20	5.25	SEP 20	7.50
WATER YEAR 1995		HIGHEST	2.21	MAR 14, 1995		LOWEST	7.50	SEP 20, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

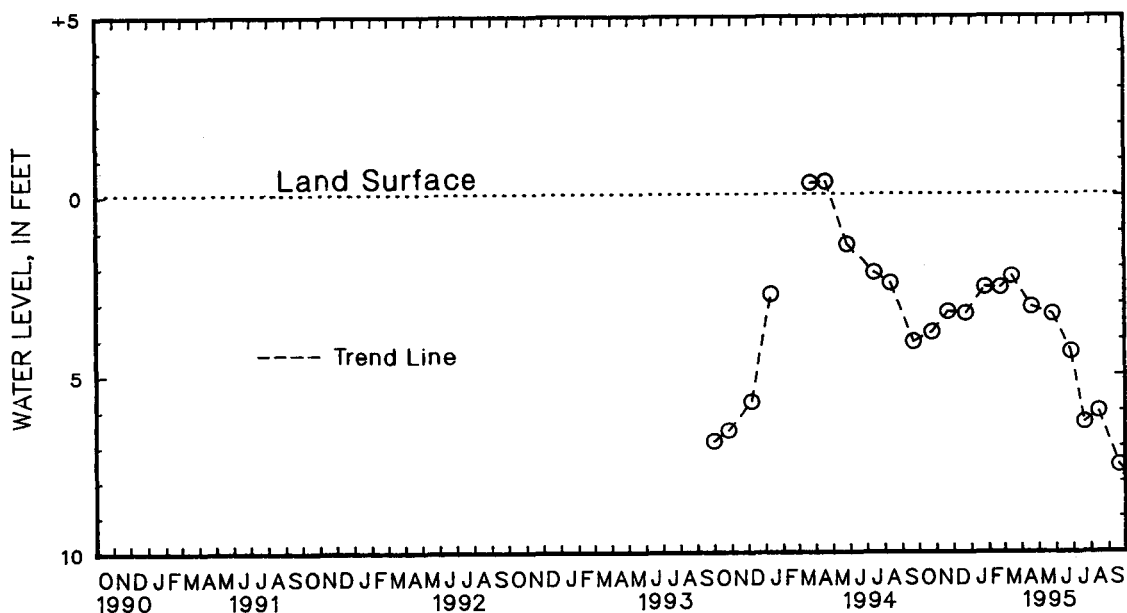
DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-05. SITE ID.--384404075225001. PERMIT NUMBER.--95802.
 LOCATION.--Lat 38°44'04", long 75°22'50", Hydrologic Unit 02060008, near Redden State Forest.
 Owner: Delaware Department of Transportation.
 AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 47.84 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of metal sleeve, 2.26 ft above land surface.
 REMARKS.--Delaware Department of Transportation Project observation well.
 PERIOD OF RECORD.--September 1993 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.38 ft above land surface, April 18, 1994;
 lowest measured, 7.58 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.87	DEC 22	3.34	FEB 22	2.60	APR 18	3.16	JUN 27	4.42	AUG 14	6.06
NOV 21	3.29	JAN 25	2.59	MAR 14	2.28	MAY 25	3.36	JUL 20	6.39	SEP 20	7.58
WATER YEAR 1995		HIGHEST	2.28	MAR 14, 1995		LOWEST	7.58	SEP 20, 1995			



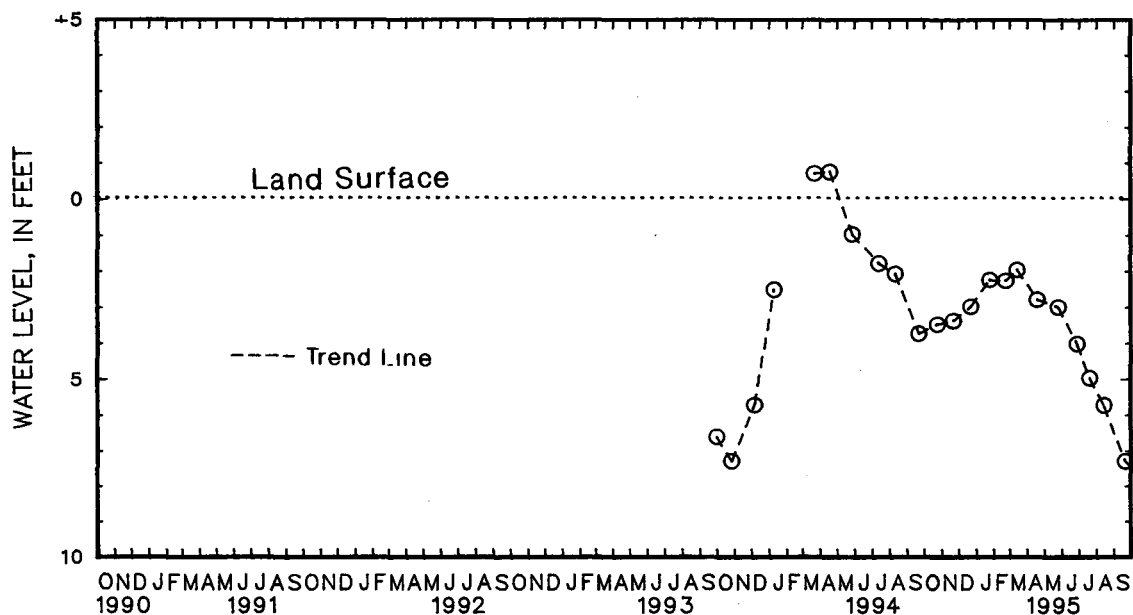
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--O113-06. SITE ID.--384405075224701. PERMIT NUMBER.--95780.
LOCATION.--Lat 38°44'05", long 75°22'47", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 47.49 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.22 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.76 ft above land surface, April 18, 1994; lowest measured, 7.34 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.53	DEC 22	3.02	FEB 22	2.28	APR 18	2.83	JUN 27	4.08	AUG 14	5.78
NOV 21	3.43	JAN 25	2.25	MAR 14	1.97	MAY 25	3.04	JUL 20	5.02	SEP 20	7.34
WATER YEAR 1995		HIGHEST	1.97	MAR 14, 1995		LOWEST	7.34	SEP 20, 1995			



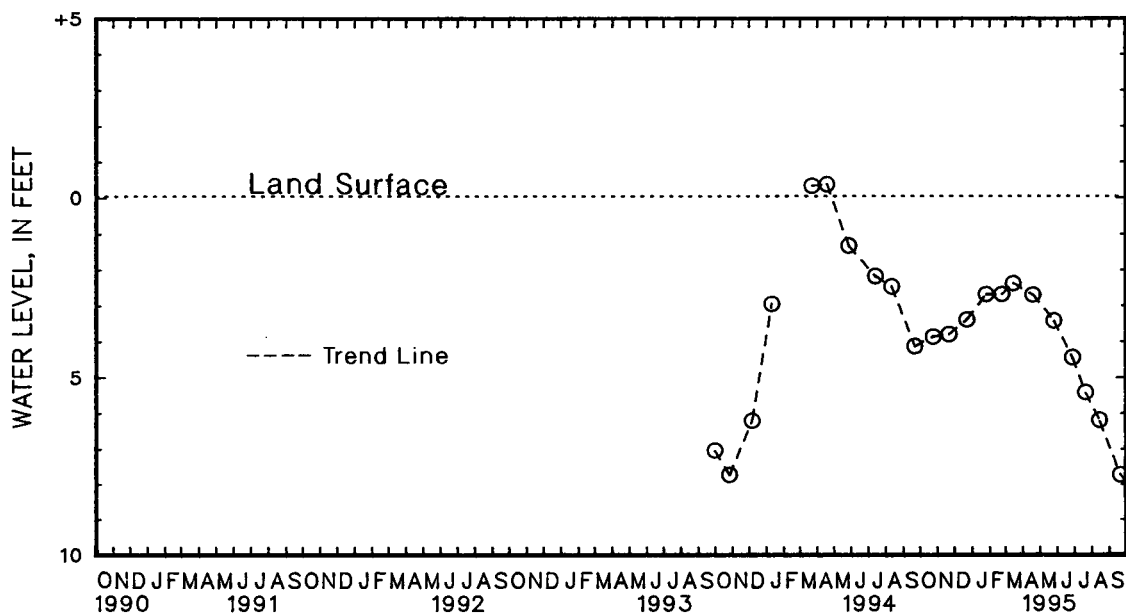
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-07. SITE ID.--384405075224601. PERMIT NUMBER.--95781.
LOCATION.--Lat 38°44'05", long 75°22'46", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 47.92 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.38 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.37 ft above land surface, April 18, 1994;
lowest measured, 7.77 ft below land surface, Oct. 26, 1993 and Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.93	DEC 22	3.44	FEB 22	2.71	APR 18	2.73	JUN 27	4.51	AUG 14	6.25
NOV 21	3.86	JAN 25	2.71	MAR 14	2.40	MAY 25	3.48	JUL 20	5.48	SEP 20	7.77
WATER YEAR 1995		HIGHEST	2.40	MAR 14, 1995		LOWEST	7.77	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

95

DELAWARE---Continued

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.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.
 DATUM.--Elevation of land surface is 48.91 ft above National Geodetic Vertical Datum of 1929.
 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.
 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, 9.03 ft below land surface, Sept. 30, 1995.

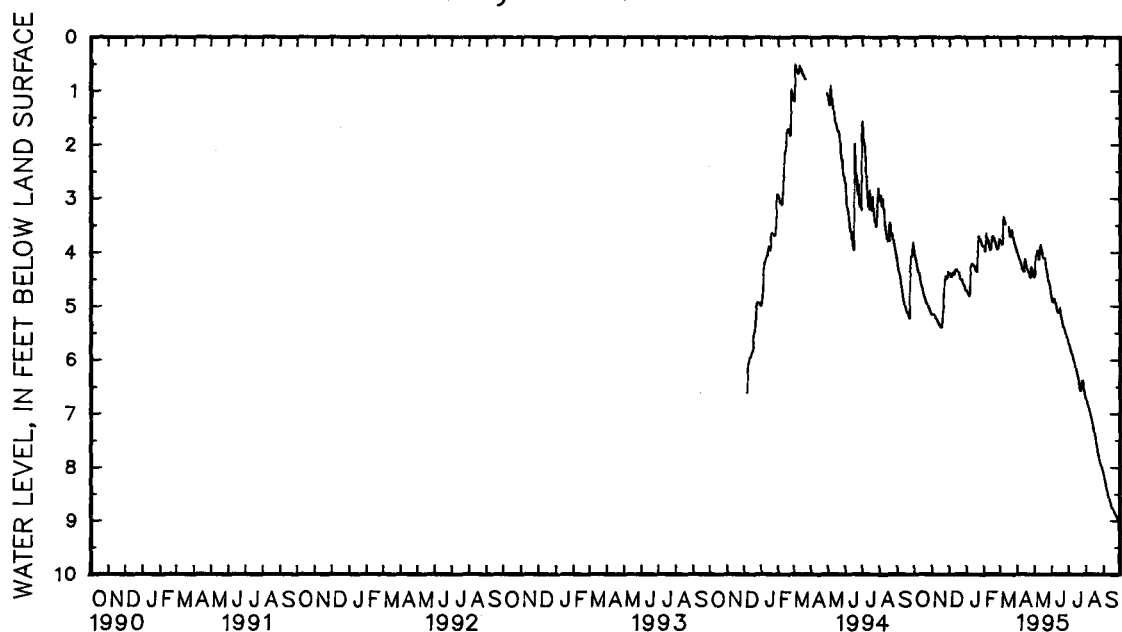
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.05	3.99	5.16	5.16	4.38	4.37	4.71	4.70	3.88	3.87	3.78	3.76
2	4.09	4.05	5.16	5.16	4.39	4.38	4.75	4.70	3.96	3.88	3.80	3.78
3	4.13	4.09	5.16	5.16	4.42	4.39	4.76	4.75	3.98	3.81	3.83	3.80
4	4.18	4.13	5.17	5.16	4.46	4.42	4.78	4.76	3.81	3.61	3.86	3.83
5	4.23	4.18	5.19	5.17	4.46	4.40	4.81	4.78	3.65	3.60	3.86	3.73
6	4.29	4.23	5.20	5.19	4.40	4.38	4.82	4.79	3.74	3.65	3.73	3.34
7	4.34	4.29	5.24	5.20	4.38	4.35	4.79	4.34	3.77	3.74	3.34	3.34
8	4.38	4.34	5.24	5.24	4.40	4.35	4.34	4.25	3.79	3.77	3.35	3.34
9	4.42	4.38	5.25	5.24	4.41	4.40	4.25	4.22	3.85	3.79	3.41	3.35
10	4.49	4.42	5.28	5.25	4.42	4.36	4.22	4.22	3.91	3.85	3.44	3.41
11	4.56	4.49	5.30	5.28	4.36	4.33	4.22	4.22	3.96	3.91	3.48	3.44
12	4.60	4.56	5.31	5.30	4.33	4.33	4.22	4.22	3.96	3.93	---	---
13	4.63	4.60	5.34	5.31	4.33	4.32	4.24	4.22	3.93	3.77	---	---
14	4.65	4.63	5.36	5.34	4.32	4.32	4.25	4.24	3.77	3.73	---	---
15	4.71	4.65	5.38	5.36	4.33	4.32	4.25	4.25	3.73	3.71	---	---
16	4.75	4.71	5.40	5.38	4.36	4.33	4.28	4.25	3.71	3.70	3.53	3.46
17	4.78	4.75	5.40	5.40	4.36	4.36	4.32	4.27	3.70	3.69	3.60	3.53
18	4.82	4.78	5.40	5.31	4.37	4.36	4.36	4.32	3.71	3.68	3.66	3.60
19	4.85	4.82	5.31	5.11	4.43	4.37	4.36	4.35	3.79	3.71	3.71	3.66
20	4.88	4.85	5.11	5.03	4.48	4.43	4.35	3.82	3.79	3.79	3.71	3.71
21	4.92	4.88	5.03	4.80	4.51	4.48	3.82	3.71	3.85	3.79	3.71	3.59
22	4.95	4.92	4.80	4.54	4.51	4.51	3.71	3.70	3.89	3.85	3.59	3.55
23	4.97	4.95	4.54	4.45	4.51	4.51	3.70	3.70	3.94	3.89	3.62	3.57
24	4.99	4.97	4.45	4.45	4.52	4.51	3.74	3.70	3.94	3.94	3.72	3.62
25	5.03	4.99	4.45	4.44	4.57	4.52	3.77	3.74	3.94	3.90	3.78	3.72
26	5.05	5.03	4.48	4.44	4.60	4.57	3.80	3.77	3.90	3.76	3.83	3.78
27	5.07	5.04	4.49	4.47	4.61	4.60	3.83	3.80	3.76	3.75	3.86	3.83
28	5.11	5.07	4.47	4.37	4.63	4.61	3.87	3.83	3.76	3.75	3.89	3.86
29	5.13	5.11	4.37	4.37	4.69	4.63	3.89	3.87	---	---	3.93	3.89
30	5.16	5.13	4.37	4.37	4.72	4.69	3.89	3.88	---	---	3.95	3.93
31	5.16	5.16	---	---	4.72	4.71	3.88	3.87	---	---	3.99	3.95
MONTH	5.16	3.99	5.40	4.37	4.72	4.32	4.82	3.70	3.98	3.60	3.99	3.34

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued
Of13-08--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.02	3.99	4.45	4.42	4.84	4.78	5.71	5.68	6.73	6.68	8.15	8.09
2	4.06	4.02	4.42	4.16	4.90	4.84	5.73	5.71	6.77	6.73	8.19	8.15
3	4.08	4.06	4.16	4.05	4.94	4.90	5.77	5.73	6.82	6.77	8.24	8.19
4	4.12	4.08	4.05	4.05	4.94	4.88	5.81	5.77	6.85	6.82	8.28	8.24
5	4.15	4.12	4.05	3.97	4.88	4.88	5.84	5.81	6.89	6.85	8.33	8.28
6	4.16	4.15	3.97	3.96	4.88	4.88	5.88	5.84	6.92	6.89	8.37	8.33
7	4.21	4.16	3.99	3.96	4.94	4.88	5.90	5.88	6.96	6.92	8.40	8.37
8	4.23	4.21	4.07	3.99	4.89	4.94	5.92	5.90	7.00	6.96	8.44	8.40
9	4.28	4.23	4.13	4.07	5.05	4.99	5.96	5.92	7.03	7.00	8.48	8.44
10	4.34	4.28	4.13	3.90	5.09	5.05	6.00	5.96	7.07	7.03	8.54	8.48
11	4.36	4.34	3.90	3.84	5.13	5.09	6.04	6.00	7.11	7.07	8.59	8.54
12	4.36	4.36	3.86	3.84	5.13	5.13	6.08	6.04	7.16	7.11	8.63	8.59
13	4.36	4.13	3.94	3.86	5.13	5.10	6.13	6.08	7.21	7.16	8.66	8.63
14	4.13	4.12	3.96	3.94	5.10	5.02	6.17	6.13	7.28	7.21	8.71	8.66
15	4.14	4.12	4.01	3.96	5.05	5.02	6.22	6.17	7.32	7.28	8.75	8.71
16	4.19	4.14	4.09	4.01	5.13	5.05	6.27	6.22	7.37	7.32	8.77	8.75
17	4.25	4.19	4.11	4.09	5.18	5.13	6.31	6.27	7.42	7.37	8.77	8.77
18	4.29	4.25	4.11	4.11	5.21	5.18	6.35	6.31	7.48	7.42	8.79	8.77
19	4.32	4.29	4.11	4.08	5.26	5.21	6.42	6.35	7.55	7.48	8.81	8.79
20	4.38	4.32	4.11	4.08	5.31	5.26	6.51	6.42	7.59	7.55	8.84	8.81
21	4.40	4.38	4.19	4.11	5.37	5.31	6.56	6.51	7.66	7.59	8.86	8.84
22	4.45	4.40	4.30	4.19	5.40	5.37	6.58	6.56	7.72	7.66	8.88	8.86
23	4.47	4.45	4.38	4.30	5.41	5.40	6.57	6.43	7.77	7.72	8.90	8.88
24	4.48	4.30	4.44	4.38	5.44	5.41	6.43	6.39	7.81	7.77	8.92	8.90
25	4.30	4.26	4.52	4.44	5.48	5.44	6.39	6.38	7.87	7.81	8.93	8.92
26	4.28	4.26	4.52	4.52	5.52	5.48	6.39	6.38	7.91	7.87	8.95	8.93
27	4.32	4.28	4.57	4.52	5.58	5.52	6.45	6.39	7.94	7.91	8.97	8.95
28	4.39	4.32	4.60	4.57	5.60	5.58	6.53	6.45	7.99	7.94	8.99	8.97
29	4.46	4.39	4.64	4.60	5.63	5.60	6.58	6.53	8.03	7.99	9.02	8.99
30	4.47	4.45	4.71	4.64	5.68	5.63	6.63	6.58	8.07	8.03	9.03	9.02
31	---	---	4.78	4.71	---	---	6.68	6.63	8.09	8.07	---	---
MONTH	4.48	3.99	4.78	3.84	5.68	4.78	6.68	5.68	8.09	6.68	9.03	8.09
YEAR	9.03	3.34										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-09. SITE ID.--384406075224603. PERMIT NUMBER.--97469.

LOCATION.--Lat 38°44'06", long 75°22'46", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 80 ft; casing diameter 2 in., to 77 ft; screen diameter 2 in. from 77 to 80 ft.

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

DATUM.--Elevation of land surface is 48.82 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.30 ft above land surface.

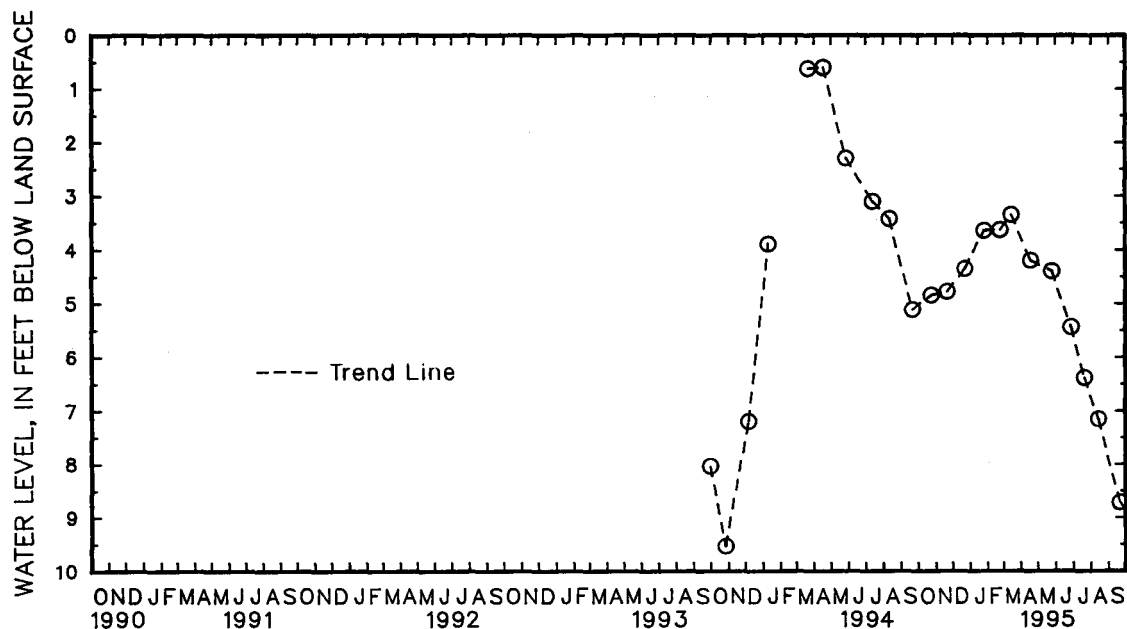
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.60 ft below land surface, April 18, 1994;
lowest measured, 9.53 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20 ⁴	4.85	DEC 22	4.36	FEB 22	3.63	APR 18	4.20	JUN 27	5.45	AUG 14	7.16
NOV 21	4.78	JAN 25	3.64	MAR 14	3.35	MAY 25	4.40	JUL 20	6.39	SEP 20	8.72
WATER YEAR 1995		HIGHEST	3.35	MAR 14, 1995		LOWEST	8.72	SEP 20, 1995			



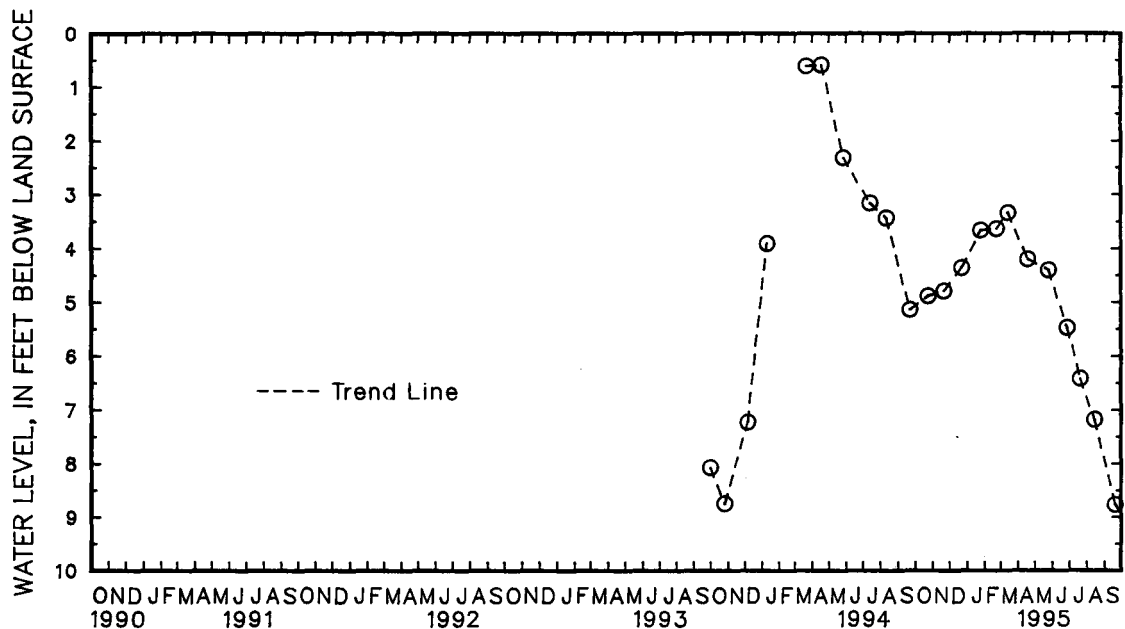
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-10. SITE ID.--384406075224602. PERMIT NUMBER.--95789.
LOCATION.--Lat 38°44'06", long 75°22'46", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 48 ft; casing diameter 2 in., to 45 ft; screen diameter 2 in. from 43 to 45 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 48.86 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.43 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.59 ft below land surface, April 18, 1994;
lowest measured, 8.77 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.89	DEC 22	4.37	FEB 22	3.64	APR 18	4.21	JUN 27	5.48	AUG 14	7.19
NOV 21	4.80	JAN 25	3.67	MAR 14	3.34	MAY 25	4.41	JUL 20	6.43	SEP 20	8.77
WATER YEAR 1995		HIGHEST	3.34	MAR 14, 1995		LOWEST	8.77	SEP 20, 1995			



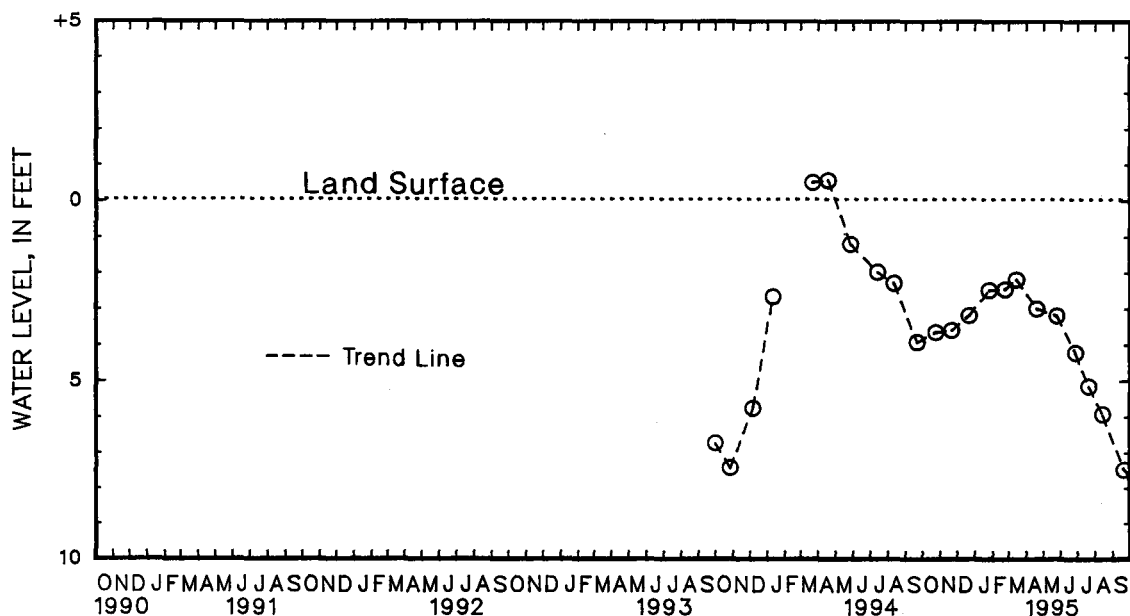
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-11. SITE ID.--384406075224401. PERMIT NUMBER.--95788.
LOCATION.--Lat 38°44'06", Long 75°22'44", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 47.67 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.12 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.56 ft above land surface, April 18, 1994;
lowest measured, 7.52 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.71	DEC 22	3.23	FEB 22	2.48	APR 18	3.04	JUN 27	4.28	AUG 14	5.98
NOV 21	3.65	JAN 25	2.50	MAR 14	2.20	MAY 25	3.24	JUL 20	5.21	SEP 20	7.52
WATER YEAR 1995		HIGHEST 2.20 MAR 14, 1995		LOWEST 7.52 SEP 20, 1995							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-02. SITE ID.--384343075230402. PERMIT NUMBER.--95785.

LOCATION.--Lat 38°43'43", long 75°23'04", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 56 ft; casing diameter 2 in., to 53 ft; screen diameter 2 in. from 53 to 56 ft.

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

DATUM.--Elevation of land surface is 47.36 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.18 ft above land surface.

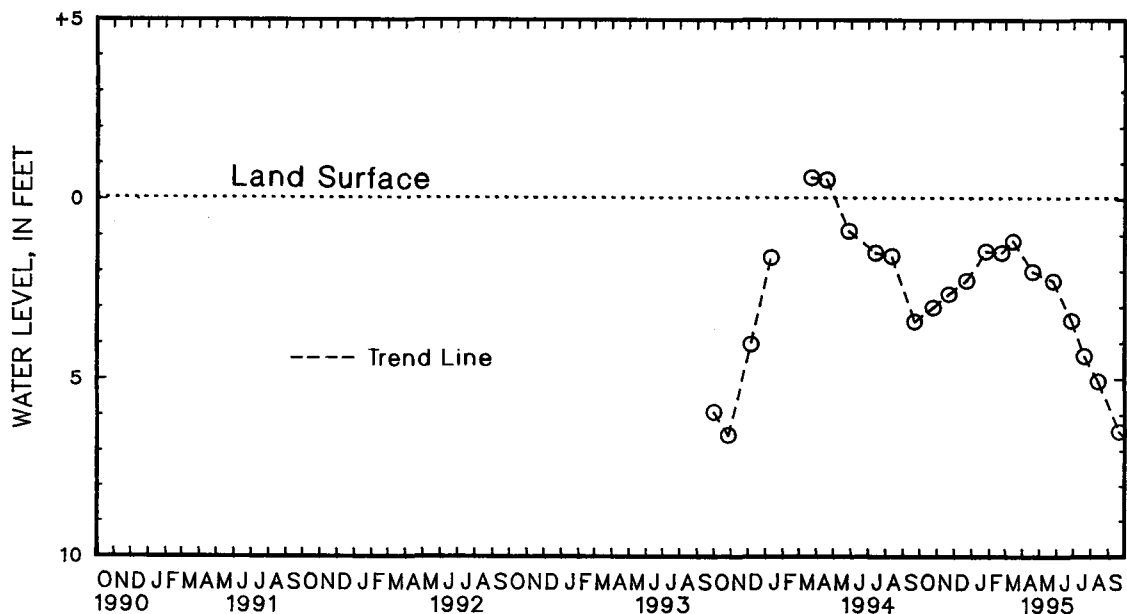
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.60 ft above land surface, March 22, 1994; lowest measured, 6.62 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.06	DEC 22	2.28	FEB 22	1.49	APR 18	2.04	JUN 27	3.44	AUG 14	5.12
NOV 21	2.67	JAN 25	1.45	MAR 14	1.17	MAY 25	2.31	JUL 20	4.42	SEP 20	6.52
WATER YEAR 1995		HIGHEST	1.17	MAR 14, 1995		LOWEST	6.52	SEP 20, 1995			



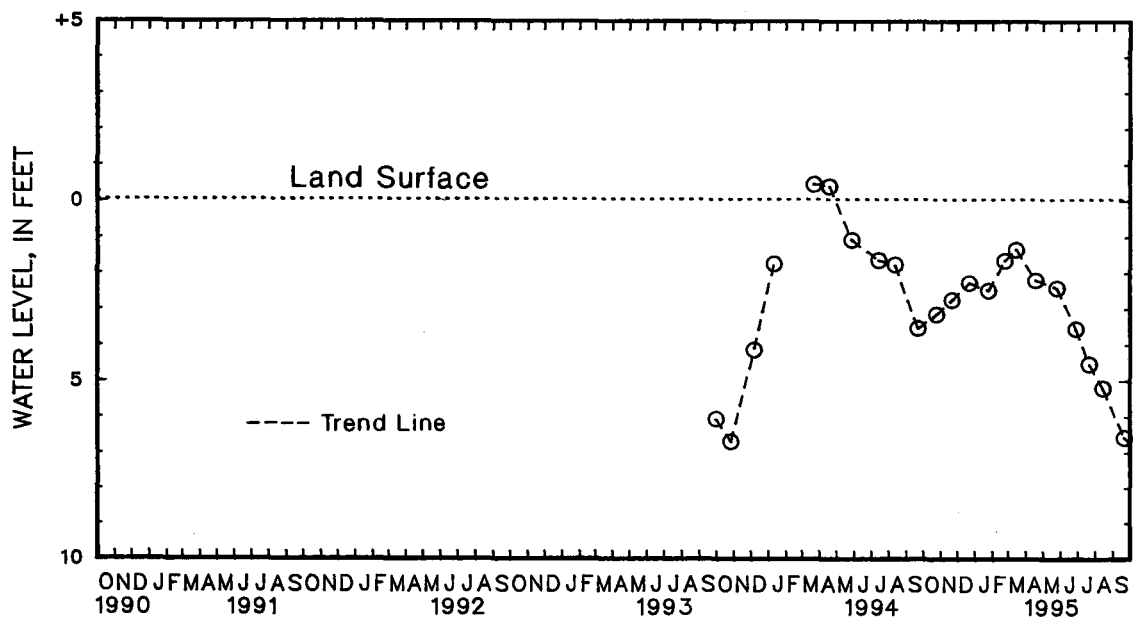
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-03. SITE ID.--384343075230403. PERMIT NUMBER.--95798.
LOCATION.--Lat 38°43'43", long 75°23'04", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 118 ft; casing diameter 2 in., to 96 ft; screen diameter 2 in. from 96 to 99 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 47.41 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.38 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.47 ft above land surface, March 22, 1994;
lowest measured, 6.75 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.20	DEC 22	2.30	FEB 22	1.67	APR 18	2.24	JUN 27	3.61	AUG 14	5.26
NOV 21	2.79	JAN 25	2.52	MAR 14	1.36	MAY 25	2.46	JUL 20	4.59	SEP 20	6.64
WATER YEAR 1995		HIGHEST	1.36	MAR 14, 1995		LOWEST	6.64	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE---Continued

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.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

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 chalked steel 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.--Elevation of land surface is 47.62 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder platform, 3.83 ft above land surface.

REMARKS.--Delaware Department of Transportation wetlands Project observation well. Missing data due to recorder malfunction

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, 6.91 ft below land surface, Sept. 30, 1995.

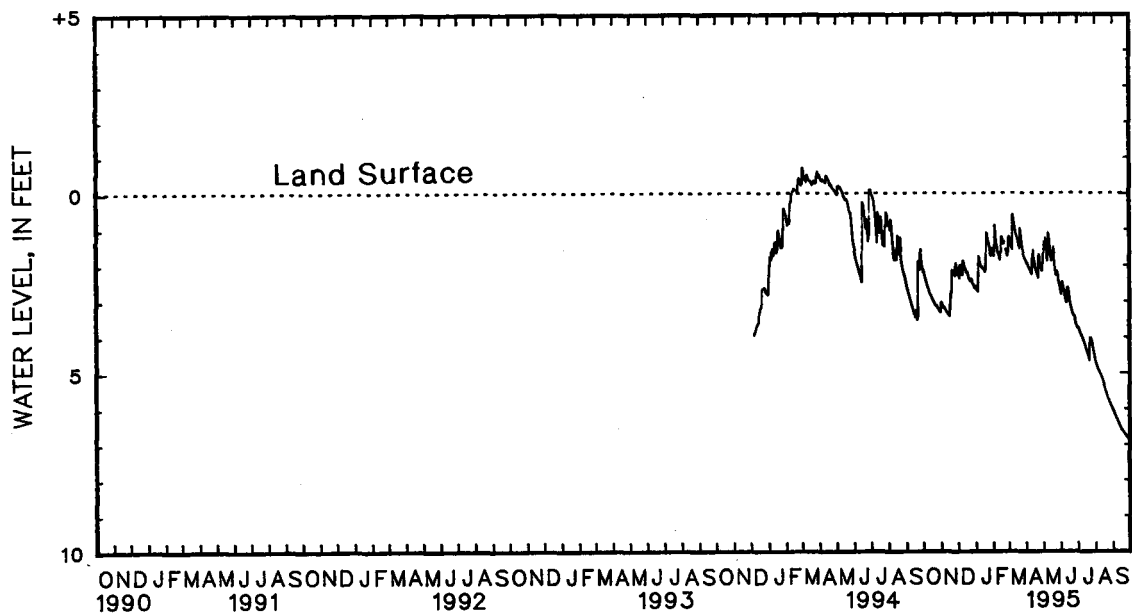
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.25	2.17	3.33	3.05	2.26	2.20	2.63	2.59	1.71	1.62	1.27	1.21
2	2.22	2.14	3.08	3.04	2.29	2.26	2.68	2.58	1.82	1.71	1.35	1.21
3	2.31	2.22	3.15	3.08	2.35	2.29	2.70	2.68	1.85	1.75	1.44	1.35
4	2.37	2.31	3.19	3.15	2.38	2.35	2.73	2.70	1.75	.88	1.49	1.44
5	2.44	2.37	3.24	3.19	2.38	2.00	2.76	2.73	1.29	1.02	1.51	1.48
6	2.51	2.44	3.24	3.18	2.10	2.03	2.77	2.50	1.44	1.29	1.55	1.51
7	2.56	2.50	3.23	3.18	2.17	2.09	2.50	1.75	1.50	1.44	1.68	1.55
8	2.60	2.56	3.24	3.23	2.27	2.17	1.88	1.79	1.63	1.49	1.68	.61
9	2.65	2.60	3.27	3.24	2.30	2.27	1.96	1.88	1.67	1.63	.72	.58
10	2.71	2.65	3.32	3.27	2.32	1.88	2.03	1.96	1.69	1.66	.87	.72
11	2.78	2.71	3.33	3.31	1.97	1.87	2.04	2.03	1.71	1.66	.98	.87
12	2.81	2.78	3.35	3.33	2.05	1.97	2.05	2.04	1.82	1.71	1.09	.98
13	2.84	2.81	3.38	3.35	2.09	2.05	2.09	2.05	1.85	1.82	1.14	1.09
14	2.86	2.84	3.40	3.38	2.14	2.09	2.11	2.09	1.89	1.85	1.21	1.14
15	2.92	2.86	3.42	3.40	2.21	2.14	2.11	2.10	1.91	1.32	1.23	1.21
16	2.95	2.92	3.43	3.42	2.24	2.21	2.14	2.10	1.32	1.22	1.30	1.23
17	2.98	2.95	3.43	3.23	2.24	2.20	2.19	2.13	1.32	1.22	1.40	1.30
18	3.02	2.98	3.23	2.95	2.25	2.19	2.23	2.19	1.39	1.32	1.47	1.40
19	3.05	3.02	2.95	2.75	2.33	2.25	2.23	2.11	1.42	1.39	1.53	1.47
20	3.07	3.05	2.79	2.75	2.39	2.33	2.11	1.10	1.42	1.39	1.56	1.53
21	3.12	3.07	2.80	2.14	2.42	2.39	1.20	1.10	1.52	1.35	1.55	.96
22	3.15	3.12	2.15	2.13	2.46	2.42	1.32	1.20	---	---	1.22	1.02
23	3.16	3.12	2.20	2.15	2.46	2.44	1.39	1.32	1.59	1.57	1.35	1.22
24	3.15	3.12	2.25	2.20	2.45	2.41	1.49	1.39	1.63	1.56	1.51	1.35
25	3.19	3.15	2.29	2.25	2.45	2.38	1.60	1.49	1.68	1.63	1.60	1.51
26	3.22	3.19	2.37	2.29	2.51	2.45	1.65	1.60	1.74	1.68	1.66	1.60
27	3.24	3.21	2.40	2.04	2.54	2.51	1.70	1.65	1.74	1.74	1.71	1.66
28	3.27	3.24	2.04	1.95	2.55	2.54	1.74	1.70	1.74	1.27	1.76	1.71
29	3.30	3.27	2.12	2.04	2.63	2.55	1.78	1.74	---	---	1.81	1.76
30	3.32	3.30	2.20	2.12	2.66	2.63	1.78	1.53	---	---	1.83	1.81
31	3.33	3.32	---	---	2.67	2.63	1.62	1.54	---	---	1.87	1.83
MONTH	3.33	2.14	3.43	1.95	2.67	1.87	2.77	1.10	1.91	.88	1.87	.58

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued
Of22-04--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.91	1.87	2.05	1.95	2.81	2.71	3.78	3.76	4.74	4.67	6.08	6.03
2	1.95	1.91	2.06	1.96	2.87	2.81	3.78	3.76	4.80	4.74	6.12	6.08
3	1.99	1.95	1.57	1.36	2.92	2.49	3.83	3.77	4.84	4.80	6.16	6.12
4	2.02	1.95	1.69	1.57	2.57	2.46	3.88	3.83	4.89	4.84	6.20	6.16
5	2.07	2.02	1.69	1.24	2.70	2.57	3.93	3.88	4.94	4.89	6.24	6.20
6	2.08	2.07	1.60	1.35	2.74	2.70	3.98	3.93	4.96	4.94	6.27	6.24
7	2.12	2.08	1.73	1.60	2.79	2.69	3.99	3.97	5.00	4.96	6.30	6.27
8	2.14	2.12	1.87	1.73	2.92	2.79	4.00	3.96	5.03	5.00	6.35	6.30
9	2.18	2.14	1.95	1.87	2.99	2.92	4.05	4.00	5.06	5.03	6.38	6.35
10	2.24	2.18	1.95	1.09	3.04	2.99	4.09	4.05	5.10	5.06	6.43	6.38
11	2.26	2.24	1.32	1.15	3.11	3.04	4.14	4.09	5.14	5.10	6.46	6.43
12	2.26	2.05	1.54	1.32	3.11	2.92	4.19	4.14	5.19	5.14	6.49	6.46
13	2.05	1.59	1.75	1.54	2.92	2.63	4.25	4.19	5.25	5.19	6.52	6.49
14	1.83	1.68	1.77	1.74	2.72	2.62	4.30	4.25	5.30	5.25	6.57	6.52
15	1.91	1.83	1.88	1.74	2.90	2.72	4.36	4.30	5.35	5.30	6.61	6.57
16	1.99	1.91	1.97	1.88	3.01	2.90	4.41	4.36	5.38	5.35	6.63	6.61
17	2.06	1.99	1.97	1.62	3.11	3.01	4.47	4.41	5.42	5.38	6.65	6.63
18	2.15	2.06	1.73	1.62	3.17	3.11	4.51	4.47	5.49	5.42	6.67	6.65
19	2.16	2.15	1.69	1.49	3.24	3.17	4.58	4.51	5.54	5.49	6.69	6.67
20	2.25	2.16	1.90	1.66	3.31	3.24	4.66	4.58	5.58	5.54	6.72	6.69
21	2.27	2.25	2.06	1.90	3.37	3.31	4.71	4.66	5.64	5.58	6.74	6.72
22	2.35	2.27	2.18	2.06	3.41	3.37	4.72	4.23	5.70	5.64	6.76	6.74
23	2.38	2.35	2.28	2.18	3.41	3.41	4.23	4.04	5.74	5.70	6.78	6.76
24	2.39	1.71	2.37	2.28	3.43	3.41	4.06	4.04	5.77	5.74	6.79	6.78
25	1.92	1.74	2.42	2.19	3.49	3.43	4.12	4.06	5.82	5.77	6.81	6.79
26	2.03	1.92	2.24	2.17	3.54	3.49	4.21	4.12	5.86	5.82	6.83	6.81
27	2.07	2.03	2.43	2.24	3.63	3.54	4.31	4.21	5.90	5.86	6.86	6.83
28	2.15	2.07	2.47	2.43	3.67	3.63	4.39	4.31	5.93	5.90	6.88	6.86
29	2.23	2.15	2.52	2.47	3.72	3.67	4.49	4.39	5.97	5.93	6.90	6.88
30	2.25	1.95	2.62	2.52	3.76	3.72	4.59	4.49	6.01	5.97	6.91	6.90
31	---	---	2.71	2.62	---	---	4.67	4.59	6.03	6.01	---	---
MONTH	2.39	1.59	2.71	1.09	3.76	2.46	4.72	3.76	6.03	4.67	6.91	6.03
YEAR	6.91	.58										

Daily Low Water Levels



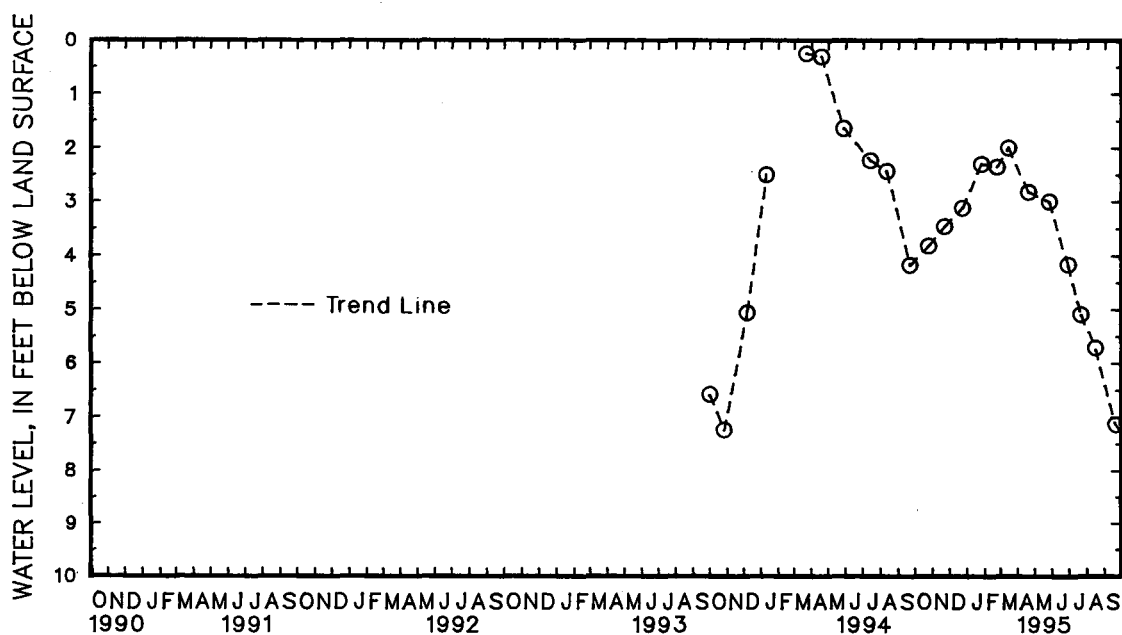
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-05. SITE ID.--384343075230301. PERMIT NUMBER.--95786.
LOCATION.--Lat 38°43'43", long 75°23'03", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 48.31 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.29 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft below land surface, March 22, 1994;
lowest measured, 7.28 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.85	DEC 22	3.13	FEB 22	2.35	APR 18	2.84	JUN 27	4.20	AUG 14	5.76
NOV 21	3.48	JAN 25	2.30	MAR 14	2.00	MAY 25	3.02	JUL 20	5.13	SEP 20	7.18
WATER YEAR 1995		HIGHEST	2.00	MAR 14, 1995		LOWEST	7.18	SEP 20, 1995			



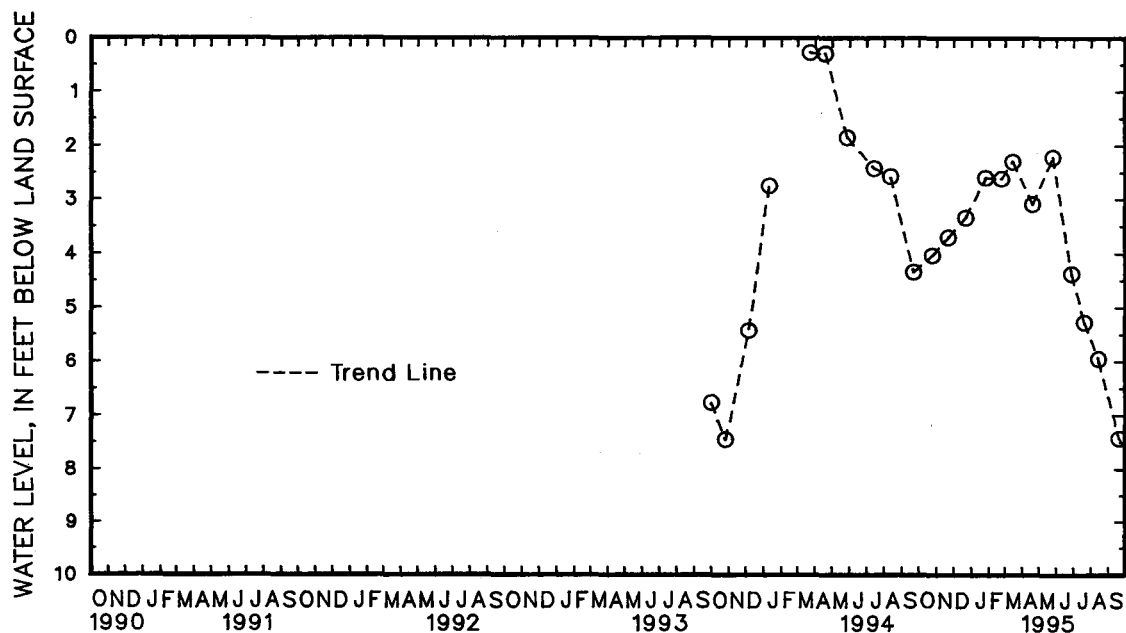
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-06. SITE ID.--384343075230201. PERMIT NUMBER.--95797.
LOCATION.--Lat 38°43'43", Long 75°23'02", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 48.46 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.32 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .28 ft above land surface, March 22, 1994; lowest measured, 7.49 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.06	DEC 22	3.35	FEB 22	2.62	APR 18	3.11	JUN 27	4.41	AUG 14	6.00
NOV 21	3.72	JAN 25	2.60	MAR 14	2.30	MAY 25	2.22	JUL 20	5.31	SEP 20	7.47
WATER YEAR 1995		HIGHEST 2.22 MAY 25, 1995		LOWEST 7.47 SEP 20, 1995							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-07. SITE ID.--384343075230101. PERMIT NUMBER.--95796.

LOCATION.--Lat 38°43'43", long 75°23'01", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 47.85 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.13 ft above land surface.

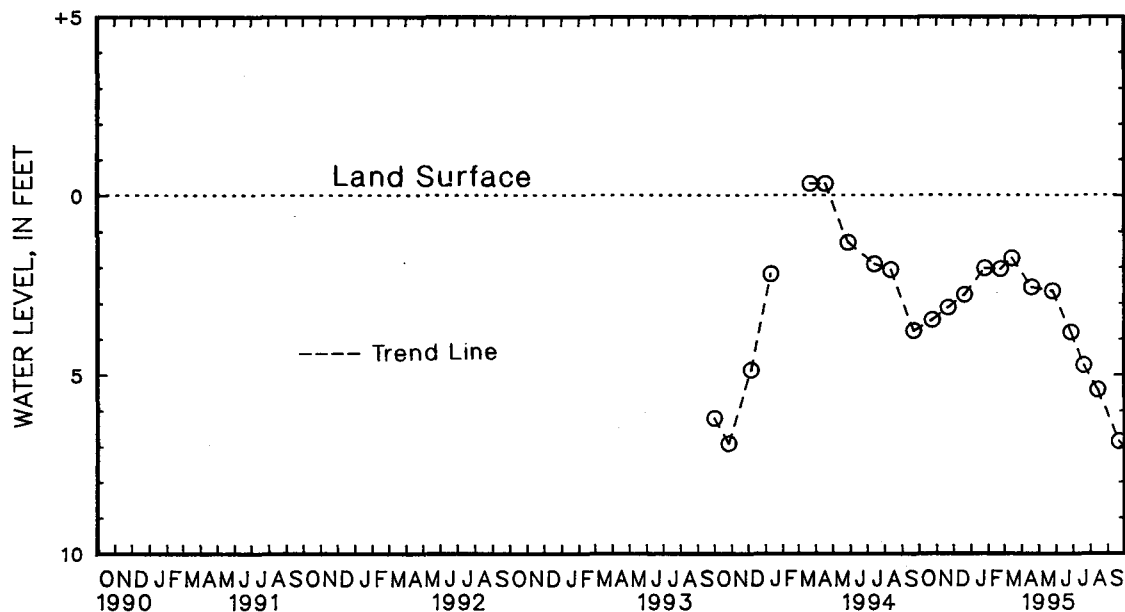
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.34 ft above land surface, March 22, 1994, and April 18, 1994; lowest measured, 6.92 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.47	DEC 20	2.76	FEB 22	2.04	APR 18	2.55	JUN 27	3.82	AUG 14	5.42
NOV 21	3.12	JAN 25	2.02	MAR 14	1.74	MAY 25	2.66	JUL 20	4.74	SEP 20	6.86
WATER YEAR 1995		HIGHEST	1.74	MAR 14, 1995		LOWEST	6.86	SEP 20, 1995			



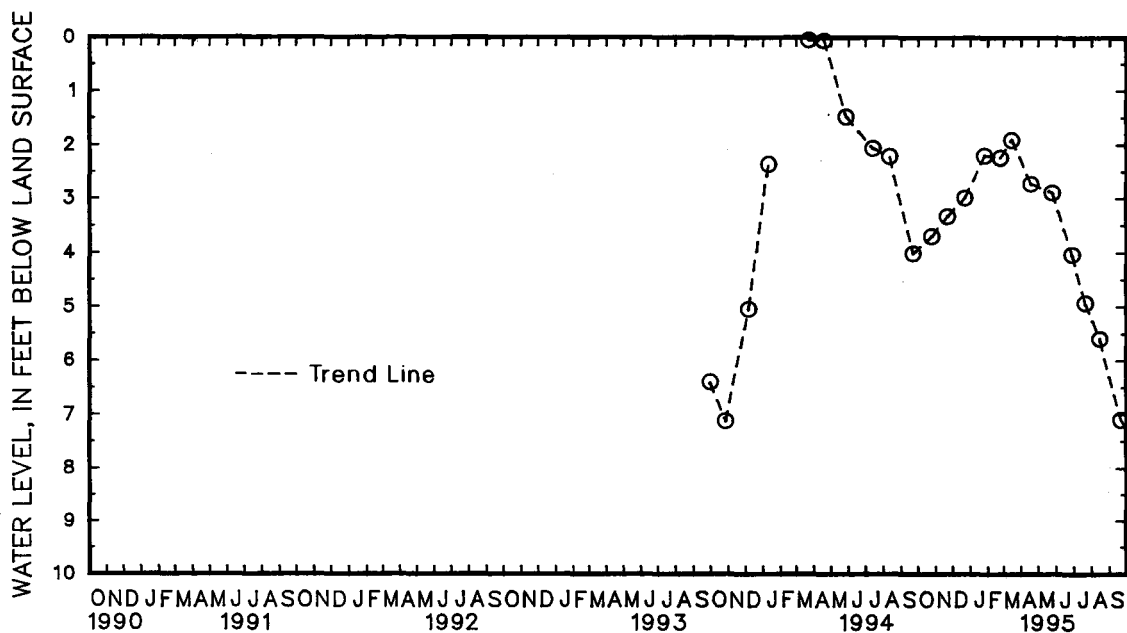
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-08. SITE ID.--384344075230301. PERMIT NUMBER.--95799.
LOCATION.--Lat 38°43'44", long 75°23'03", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 48.13 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 1.96 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.05 ft below land surface, March 22, 1994;
lowest measured, 7.16 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.73	DEC 22	3.00	FEB 22	2.24	APR 18	2.74	JUN 27	4.07	AUG 14	5.64
NOV 21	3.35	JAN 25	2.20	MAR 14	1.91	MAY 25	2.91	JUL 20	4.97	SEP 20	7.14
WATER YEAR 1995		HIGHEST 1.91 MAR 14, 1995		LOWEST 7.14 SEP 20, 1995							



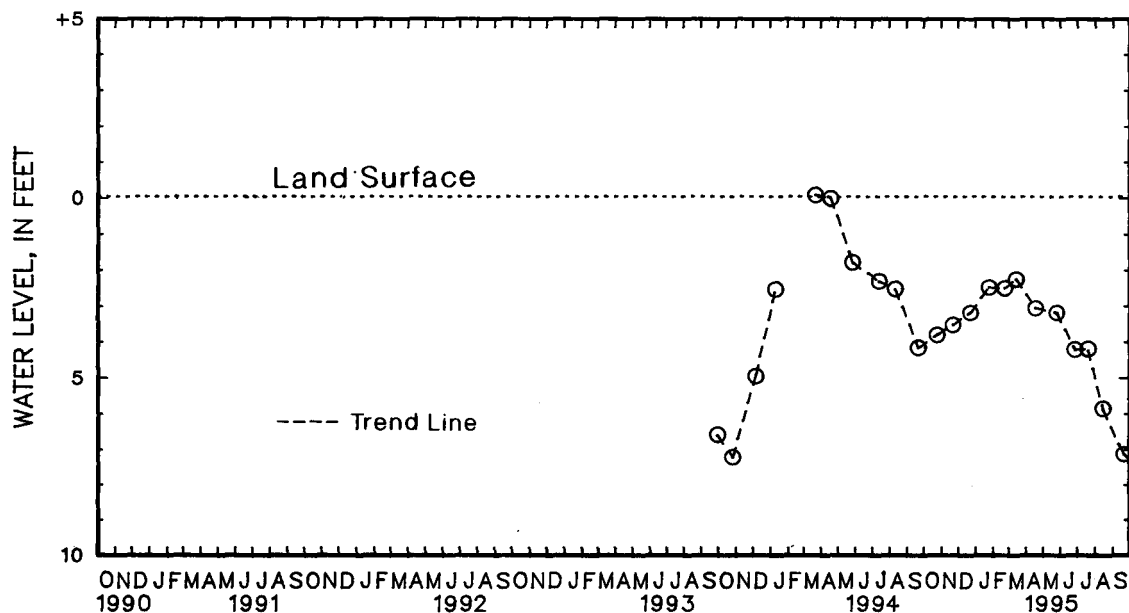
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of22-09. SITE ID.--384344075230102. PERMIT NUMBER.--95784.
LOCATION.--Lat 38°43'44", long 75°23'01", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 2 in., to 52 ft; screen diameter 2 in. from 52 to 55 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 47.85 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.34 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft above land surface, March 22, 1994;
lowest measured, 7.26 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

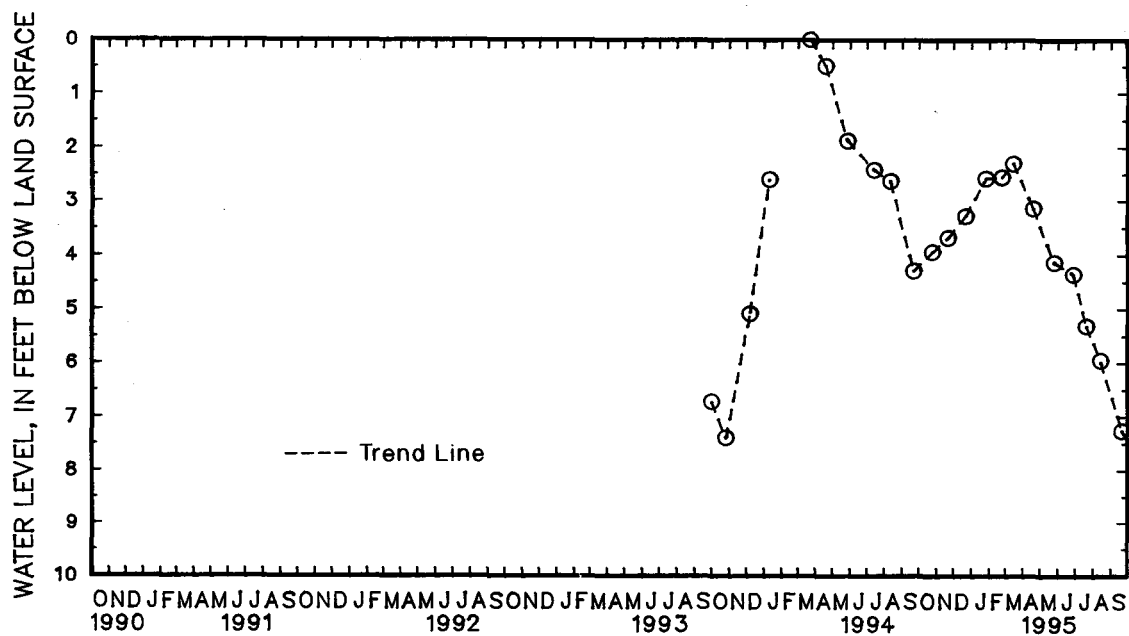
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.86	DEC 22	3.22	FEB 22	2.51	APR 18	3.10	JUN 27	4.27	AUG 14	5.91
NOV 21	3.57	JAN 25	2.49	MAR 14	2.26	MAY 25	3.23	JUL 20	4.25	SEP 20	7.18
WATER YEAR 1995		HIGHEST	2.26	MAR 14, 1995		LOWEST	7.18	SEP 20, 1995			



SUSSEX COUNTY--Continued

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 24	3.97	DEC 22	3.29	FEB 22	2.56	APR 18	3.16	JUN 27	4.39	AUG 14	6.00
NOV 21	3.70	JAN 25	2.58	MAR 14	2.30	MAY 25	4.17	JUL 20	5.35	SEP 20	7.30
WATER YEAR 1995		HIGHEST	2.30	MAR 14, 1995		LOWEST	7.30	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE---Continued

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.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
 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 chalked steel 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.--Elevation of land surface is 47.92 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 3.73 ft above land surface.
 REMARKS.--Delaware Department of Transportation Wetlands Project observation well.
 Missing data due to recorder malfunction.
 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, 7.12 ft below land surface, Sept. 30, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS ABOVE LAND SURFACE INDICATED BY "--")

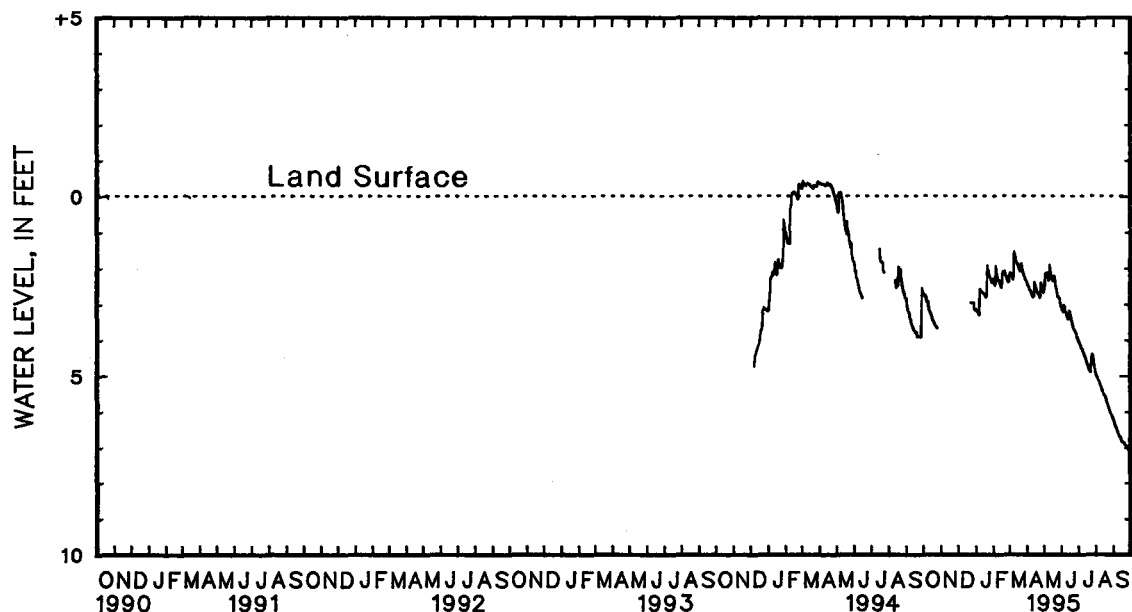
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.69	2.62	---	---	---	---	3.13	3.10	2.32	2.28	2.13	2.05
2	2.69	2.65	---	---	---	---	3.18	3.09	2.42	2.32	2.12	2.05
3	2.71	2.67	---	---	---	---	3.20	3.18	2.47	2.42	2.18	2.12
4	2.73	2.71	---	---	---	---	3.22	3.20	2.43	1.86	2.21	2.18
5	2.78	2.73	---	---	---	---	3.28	3.22	1.93	1.86	2.23	2.21
6	2.78	2.78	---	---	---	---	3.30	3.20	2.13	1.93	2.29	2.23
7	2.90	2.78	---	---	---	---	3.20	2.58	2.19	2.13	2.31	2.18
8	2.90	2.90	---	---	---	---	2.58	2.56	2.28	2.19	2.20	1.54
9	2.90	2.90	---	---	---	---	2.59	2.56	2.33	2.28	1.54	1.38
10	3.05	2.89	---	---	---	---	2.63	2.59	2.32	2.30	1.62	1.46
11	3.13	3.05	---	---	---	---	2.64	2.63	2.33	2.31	1.67	1.61
12	3.18	3.13	---	---	---	---	2.65	2.64	2.42	2.33	1.77	1.67
13	3.21	3.18	---	---	---	---	2.69	2.65	2.46	2.42	1.82	1.77
14	3.24	3.21	---	---	---	---	2.70	2.69	2.52	2.46	1.87	1.82
15	3.30	3.24	---	---	---	---	2.70	2.67	2.52	2.33	1.87	1.82
16	3.34	3.30	---	---	---	---	2.72	2.68	2.33	2.08	1.93	1.87
17	3.39	3.34	---	---	---	---	2.77	2.72	2.08	2.06	1.99	1.93
18	3.43	3.39	---	---	---	---	2.80	2.77	2.07	2.06	2.04	1.99
19	3.46	3.43	---	---	---	---	2.80	2.72	2.07	2.06	2.08	2.04
20	3.50	3.46	---	---	---	---	2.72	1.92	2.06	2.03	2.09	2.04
21	3.54	3.50	---	---	---	---	1.92	1.92	2.12	2.03	2.06	1.80
22	3.58	3.54	---	---	---	---	2.03	1.92	2.21	2.12	1.86	1.81
23	3.59	3.58	---	---	2.95	2.95	2.06	2.03	2.21	2.17	1.99	1.86
24	3.60	3.59	---	---	2.95	2.95	2.18	2.06	2.29	2.17	2.11	1.99
25	3.65	3.60	---	---	2.95	2.95	2.23	2.18	2.32	2.29	2.16	2.11
26	3.66	3.65	---	---	2.95	2.95	2.27	2.22	2.38	2.32	2.21	2.16
27	---	---	---	---	2.95	2.95	2.31	2.27	2.38	2.38	2.25	2.21
28	---	---	---	---	2.95	2.95	2.34	2.31	2.38	2.13	2.29	2.25
29	---	---	---	---	3.11	2.95	2.39	2.34	---	---	2.32	2.29
30	---	---	---	---	3.15	3.11	2.39	2.25	---	---	2.34	2.32
31	---	---	---	---	3.17	3.13	2.29	2.25	---	---	2.37	2.34
MONTH	3.66	2.62	---	---	3.17	2.95	3.30	1.92	2.52	1.86	2.37	1.38

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued
Of22-11--Continued

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DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.43	2.37	2.60	2.56	3.09	3.04	4.07	4.03	4.95	4.90	6.27	6.22
2	2.48	2.43	2.58	2.12	3.17	3.09	4.08	4.06	5.00	4.95	6.32	6.27
3	2.50	2.46	2.13	2.07	3.21	3.11	4.13	4.08	5.04	5.00	6.37	6.32
4	2.52	2.44	2.16	2.12	3.13	2.97	4.16	4.13	5.08	5.04	6.41	6.36
5	2.59	2.52	2.15	1.98	3.02	2.98	4.21	4.16	5.12	5.08	6.45	6.40
6	2.61	2.57	2.12	2.04	3.06	3.02	4.25	4.21	5.14	5.12	6.49	6.44
7	2.63	2.60	2.17	2.10	3.07	3.03	4.25	4.24	5.19	5.14	6.52	6.47
8	2.66	2.61	2.27	2.17	3.23	3.07	4.29	4.25	5.24	5.19	6.56	6.51
9	2.74	2.66	2.33	2.27	3.29	3.23	4.33	4.29	5.26	5.24	6.60	6.56
10	2.78	2.74	2.33	1.82	3.33	3.29	4.37	4.33	5.32	5.26	6.66	6.60
11	2.80	2.78	1.90	1.84	3.41	3.33	4.43	4.37	5.37	5.32	6.69	6.65
12	2.80	2.78	2.01	1.90	3.41	3.40	4.47	4.43	5.40	5.35	6.70	6.66
13	2.79	2.37	2.16	2.01	3.40	3.21	4.52	4.47	5.47	5.40	6.73	6.69
14	2.38	2.36	2.18	2.16	3.21	3.09	4.56	4.52	5.52	5.47	6.78	6.73
15	2.44	2.38	2.21	2.16	3.18	3.12	4.61	4.56	5.55	5.50	6.83	6.78
16	2.51	2.44	2.33	2.21	3.31	3.18	4.66	4.61	5.56	5.54	6.85	6.83
17	2.58	2.51	2.35	2.26	3.37	3.31	4.71	4.66	5.58	5.56	6.85	6.84
18	2.64	2.58	2.26	2.19	3.47	3.37	4.75	4.71	5.64	5.58	6.86	6.82
19	2.66	2.60	2.21	2.11	3.49	3.45	4.81	4.75	5.71	5.64	6.87	6.84
20	2.69	2.66	2.25	2.17	3.59	3.49	4.85	4.80	5.76	5.69	6.90	6.86
21	2.72	2.68	2.39	2.25	3.66	3.59	4.88	4.84	5.80	5.72	6.93	6.89
22	2.74	2.69	2.54	2.39	3.70	3.66	4.90	4.69	5.85	5.79	6.95	6.93
23	2.81	2.74	2.58	2.53	3.71	3.70	4.69	4.42	5.90	5.85	6.97	6.95
24	2.82	2.41	2.68	2.58	3.74	3.71	4.42	4.35	5.94	5.88	6.97	6.97
25	2.41	2.35	2.80	2.68	3.78	3.74	4.39	4.36	5.99	5.94	6.99	6.97
26	2.45	2.40	2.77	2.68	3.82	3.78	4.43	4.38	6.03	5.97	7.03	6.99
27	2.46	2.43	2.82	2.71	3.91	3.82	4.54	4.43	6.07	6.03	7.06	7.01
28	2.59	2.46	2.83	2.82	3.93	3.91	4.64	4.54	6.09	6.07	7.08	7.03
29	2.66	2.59	2.84	2.82	3.97	3.93	4.72	4.64	6.14	6.09	7.10	7.07
30	2.68	2.60	2.97	2.84	4.03	3.97	4.82	4.72	6.19	6.14	7.12	7.10
31	---	---	3.04	2.96	---	---	4.90	4.82	6.22	6.18	---	---
MONTH	2.82	2.35	3.04	1.82	4.03	2.97	4.90	4.03	6.22	4.90	7.12	6.22
YEAR	7.12	1.38										

Daily Low Water Levels



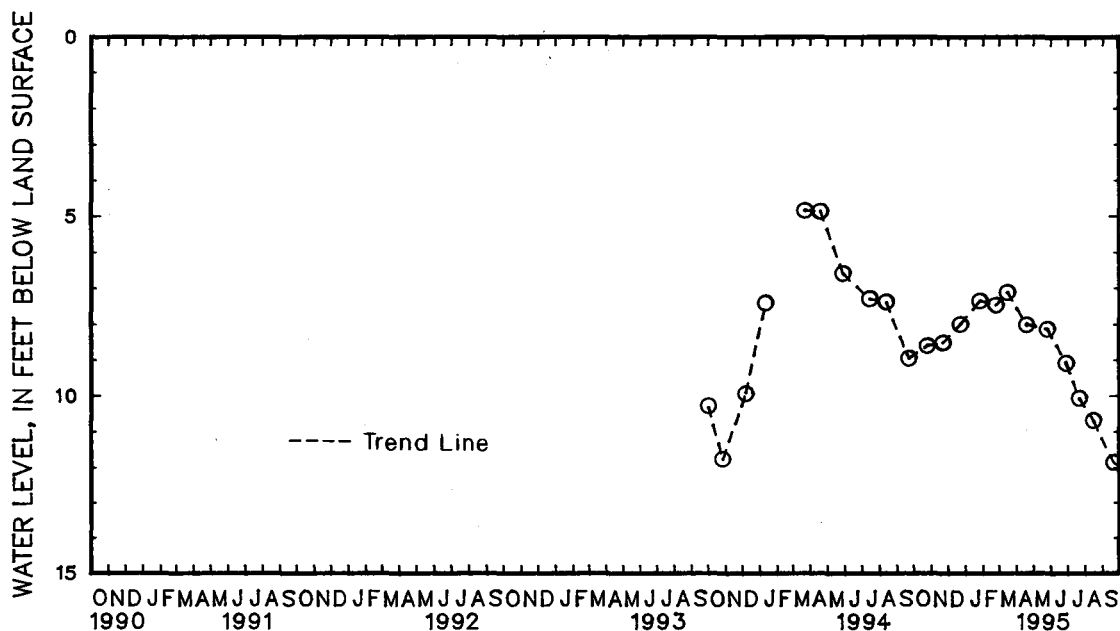
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-01. SITE ID.--384338075222303. PERMIT NUMBER.--95775.
LOCATION.--Lat 38°43'33", long 75°22'29", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 99 ft; casing diameter 2 in., to 96 ft; screen diameter 2 in. from 96 to 99 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 51.22 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.38 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.84 ft below land surface, March 22, 1994; lowest measured, 11.91 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.66	DEC 22	8.04	FEB 22	7.49	APR 18	8.06	JUN 27	9.15	AUG 14	10.74
NOV 21	8.59	JAN 25	7.37	MAR 14	7.13	MAY 25	8.18	JUL 20	10.12	SEP 20	11.91
WATER YEAR 1995		HIGHEST	7.13	MAR 14, 1995		LOWEST	11.91	SEP 20, 1995			



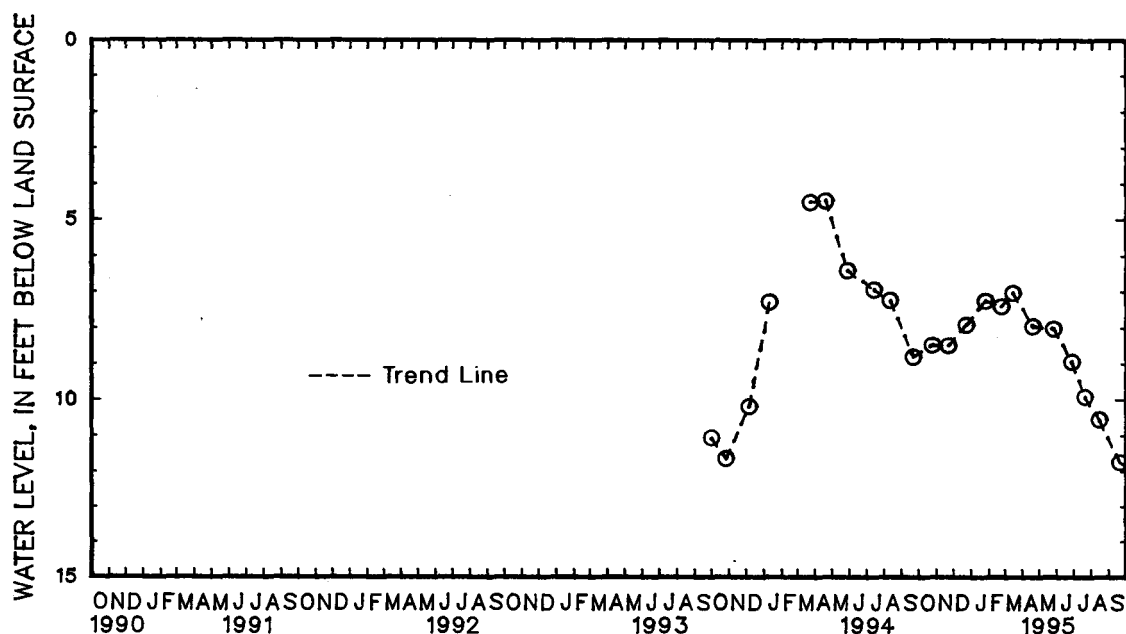
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--O223-02. SITE ID.--384333075222902. PERMIT NUMBER.--95782.
LOCATION.--Lat 38°43'33", long 75°22'29", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 50 ft; casing diameter 2 in., to 47 ft; screen diameter 2 in. from 47 to 50 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 51.25 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.25 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.47 ft below land surface, April 18, 1994; lowest measured, 11.80 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.54	DEC 22	7.95	FEB 22	7.43	APR 18	8.00	JUN 27	9.02	AUG 14	10.62
NOV 21	8.55	JAN 25	7.28	MAR 14	7.05	MAY 25	8.07	JUL 20	9.98	SEP 20	11.80
WATER YEAR 1995		HIGHEST	7.05	MAR 14, 1995		LOWEST	11.80	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE---Continued

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.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

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 chalked steel 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.--Elevation of land surface is 51.40 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder platform, 3.22 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well.

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, 12.00 ft below land surface, Sept. 30, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

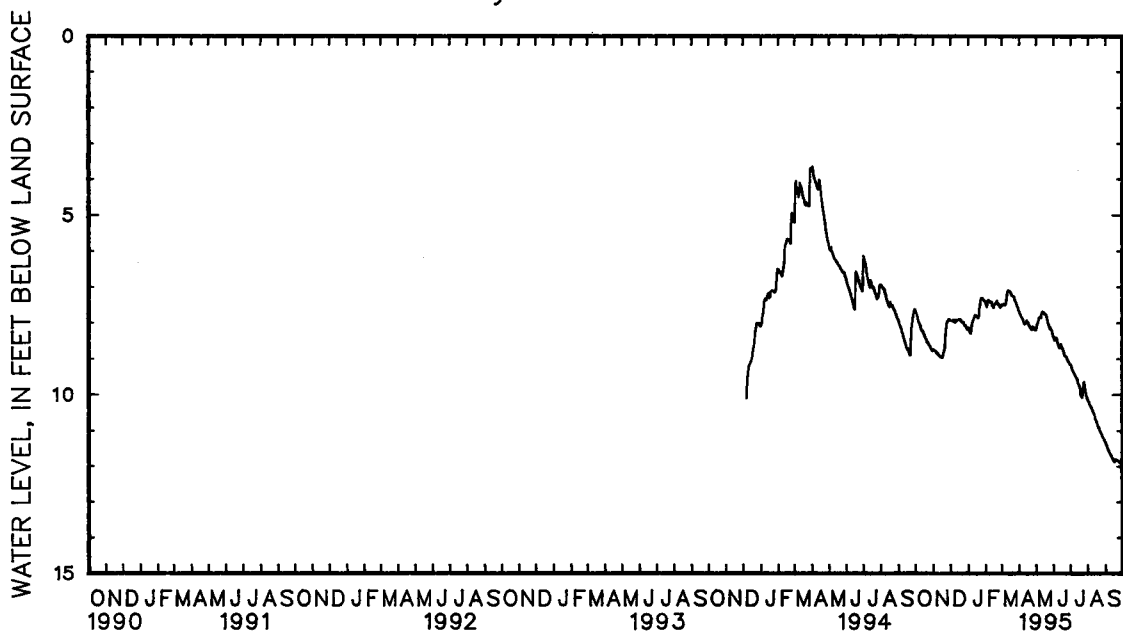
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.66	7.62	8.76	8.71	7.94	7.91	8.15	8.13	7.41	7.39	7.51	7.48
2	7.69	7.66	8.77	8.72	7.94	7.93	8.22	8.14	7.49	7.41	7.49	7.48
3	7.75	7.69	8.78	8.77	7.95	7.93	8.23	8.22	7.55	7.49	7.50	7.49
4	7.81	7.75	8.79	8.78	7.96	7.95	8.26	8.23	7.50	7.32	7.50	7.49
5	7.88	7.81	8.82	8.79	7.96	7.92	8.29	8.26	7.38	7.33	7.49	7.48
6	7.95	7.88	8.82	8.79	7.92	7.92	8.30	8.17	7.38	7.38	7.48	7.47
7	8.00	7.95	8.86	8.80	7.96	7.92	8.17	8.06	7.38	7.38	7.50	7.48
8	8.03	8.00	8.86	8.85	7.99	7.96	8.06	7.98	7.41	7.38	7.49	7.39
9	8.07	8.03	8.86	8.85	7.99	7.99	7.98	7.92	7.43	7.41	7.39	7.27
10	8.14	8.07	8.90	8.86	7.99	7.89	7.92	7.87	7.42	7.39	7.27	7.17
11	8.19	8.14	8.92	8.90	7.92	7.89	7.87	7.83	7.42	7.39	7.17	7.11
12	8.22	8.19	8.94	8.92	7.93	7.92	7.83	7.79	7.52	7.42	7.11	7.10
13	8.23	8.22	8.96	8.94	7.93	7.92	7.79	7.79	7.54	7.52	7.10	7.08
14	8.25	8.23	8.96	8.95	7.92	7.91	7.79	7.79	7.57	7.54	7.11	7.08
15	8.31	8.25	8.98	8.96	7.91	7.91	7.79	7.77	7.58	7.50	7.11	7.10
16	8.34	8.31	8.99	8.98	7.91	7.91	7.80	7.77	7.50	7.47	7.12	7.10
17	8.38	8.34	8.98	8.92	7.91	7.90	7.85	7.80	7.48	7.47	7.17	7.12
18	8.41	8.38	8.92	8.84	7.90	7.89	7.87	7.85	7.48	7.45	7.20	7.17
19	8.45	8.41	8.84	8.77	7.94	7.89	7.87	7.82	7.45	7.41	7.24	7.20
20	8.47	8.45	8.77	8.69	7.97	7.94	7.82	7.59	7.41	7.35	7.25	7.24
21	8.53	8.47	8.69	8.44	7.99	7.97	7.59	7.49	7.39	7.34	7.25	7.23
22	8.56	8.53	8.44	8.21	8.00	7.99	7.49	7.38	7.48	7.39	7.26	7.23
23	8.56	8.55	8.21	8.06	7.99	7.98	7.38	7.31	7.47	7.42	7.29	7.26
24	8.61	8.56	8.06	7.98	8.00	7.97	7.31	7.29	7.50	7.41	7.36	7.29
25	8.64	8.60	7.98	7.96	8.06	8.00	7.32	7.29	7.53	7.50	7.39	7.36
26	8.66	8.64	7.96	7.96	8.08	8.06	7.31	7.31	7.57	7.51	7.43	7.39
27	8.69	8.66	7.96	7.90	8.09	8.08	7.33	7.31	7.57	7.55	7.47	7.43
28	8.73	8.69	7.90	7.85	8.09	8.08	7.36	7.33	7.55	7.51	7.51	7.47
29	8.76	8.73	7.90	7.87	8.16	8.08	7.39	7.36	---	---	7.55	7.51
30	8.78	8.76	7.91	7.90	8.19	8.16	7.39	7.38	---	---	7.58	7.55
31	8.79	8.76	---	---	8.19	8.15	7.39	7.38	---	---	7.65	7.58
MONTH	8.79	7.62	8.99	7.85	8.19	7.89	8.30	7.29	7.58	7.32	7.65	7.08

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued
Of23-03--Continued

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DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.69	7.65	8.16	8.15	8.41	8.35	9.18	9.18	10.15	10.13	11.36	11.32
2	7.73	7.69	8.16	8.05	8.45	8.41	9.19	9.18	10.20	10.15	11.40	11.36
3	7.77	7.73	8.05	8.01	8.49	8.42	9.26	9.19	10.23	10.20	11.43	11.40
4	7.81	7.76	8.01	7.96	8.42	8.40	9.31	9.26	10.28	10.23	11.49	11.43
5	7.85	7.81	7.96	7.86	8.42	8.40	9.35	9.31	10.32	10.28	11.53	11.49
6	7.86	7.85	7.86	7.84	8.42	8.42	9.39	9.35	10.34	10.32	11.56	11.53
7	7.91	7.85	7.85	7.84	8.45	8.42	9.40	9.39	10.38	10.34	11.59	11.56
8	7.93	7.91	7.84	7.84	8.55	8.45	9.43	9.40	10.41	10.38	11.63	11.59
9	7.99	7.93	7.85	7.84	8.61	8.55	9.47	9.43	10.45	10.41	11.66	11.63
10	8.04	7.99	7.85	7.73	8.65	8.61	9.52	9.47	10.49	10.45	11.70	11.66
11	8.04	8.03	7.73	7.70	8.70	8.65	9.54	9.52	10.53	10.49	11.73	11.70
12	8.03	8.02	7.70	7.69	8.70	8.64	9.56	9.54	10.56	10.53	11.76	11.73
13	8.02	7.91	7.70	7.69	8.64	8.60	9.60	9.56	10.63	10.56	11.79	11.76
14	7.94	7.92	7.70	7.69	8.60	8.58	9.68	9.60	10.70	10.63	11.83	11.79
15	7.97	7.94	7.70	7.69	8.65	8.59	9.72	9.68	10.72	10.70	11.86	11.83
16	8.00	7.97	7.75	7.70	8.69	8.65	9.75	9.72	10.76	10.72	11.88	11.86
17	8.03	8.00	7.75	7.75	8.74	8.69	9.80	9.75	10.80	10.76	11.88	11.82
18	8.07	8.03	7.75	7.74	8.79	8.74	9.84	9.80	10.85	10.80	11.82	11.82
19	8.09	8.07	7.77	7.72	8.83	8.79	10.02	9.84	10.89	10.85	11.83	11.82
20	8.13	8.09	7.84	7.77	8.89	8.83	10.05	10.02	10.93	10.89	11.85	11.83
21	8.13	8.12	7.92	7.84	8.94	8.89	10.09	10.05	10.96	10.93	11.84	11.83
22	8.18	8.13	8.01	7.92	8.96	8.94	10.09	9.86	11.01	10.96	11.85	11.84
23	8.20	8.18	8.04	8.01	8.96	8.93	9.86	9.69	11.04	11.01	11.86	11.85
24	8.20	8.09	8.11	8.04	8.97	8.93	9.69	9.65	11.08	11.04	11.88	11.86
25	8.12	8.09	8.16	8.11	9.02	8.97	9.65	9.65	11.12	11.08	11.89	11.88
26	8.13	8.12	8.13	8.12	9.06	9.02	9.73	9.65	11.15	11.12	11.91	11.89
27	8.13	8.13	8.19	8.13	9.09	9.06	9.86	9.73	11.19	11.15	11.93	11.91
28	8.17	8.13	8.20	8.19	9.11	9.09	9.95	9.86	11.22	11.19	11.95	11.93
29	8.21	8.17	8.22	8.20	9.14	9.11	10.02	9.95	11.25	11.22	11.98	11.95
30	8.21	8.15	8.30	8.22	9.18	9.14	10.09	10.02	11.29	11.25	12.00	11.98
31	---	---	8.35	8.30	---	---	10.13	10.09	11.32	11.29	---	---
MONTH	8.21	7.65	8.35	7.69	9.18	8.35	10.13	9.18	11.32	10.13	12.00	11.32
YEAR	12.00	7.08										

Daily Low Water Levels



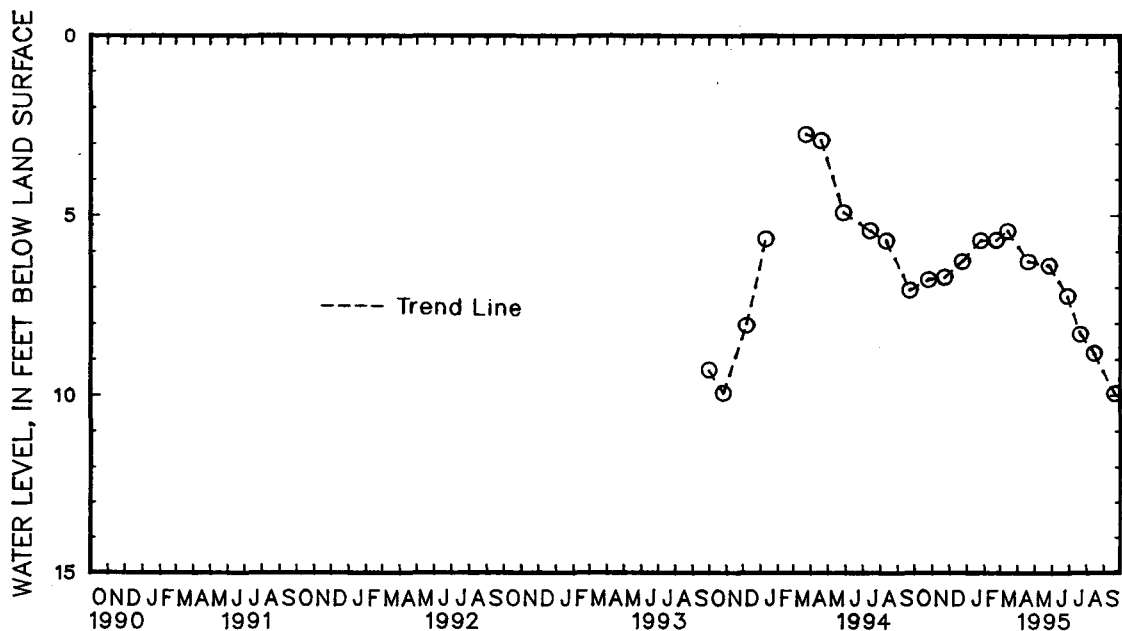
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-04. SITE ID.--384341075223803. PERMIT NUMBER.--95776.
LOCATION.--Lat 38°43'41", long 75°22'38", Hydrologic Unit 02060008, near Redden State Forest.
Owner: Delaware Department of Transportation.
AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 104 ft; casing diameter 2 in., to 101 ft; screen diameter 2 in. from 101 to 104 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 49.95 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.24 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.74 ft below land surface, March 22, 1994;
lowest measured, 10.01 ft below land surface, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.82	DEC 22	6.30	FEB 22	5.69	APR 18	6.31	JUN 27	7.28	AUG 14	8.90
NOV 21	6.75	JAN 25	5.70	MAR 14	5.44	MAY 25	6.43	JUL 20	8.36	SEP 20	10.01
WATER YEAR 1995		HIGHEST	5.44	MAR 14, 1995		LOWEST	10.01	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

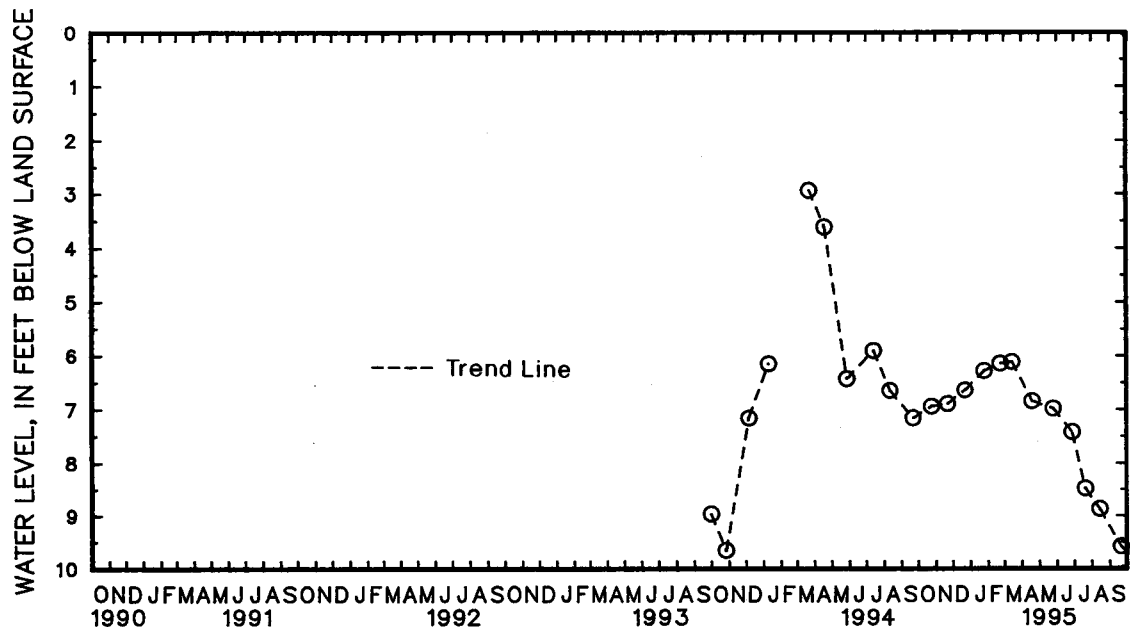
DELAWARE--Continued

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.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 50.13 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 1.83 ft above land surface.
REMARKS.--Delaware Department of Transportation Project observation well.
PERIOD OF RECORD.--September 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.94 ft below land surface, March 22, 1994;
lowest measured, 9.66 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 24	6.98	DEC 22	6.67	FEB 22	6.16	APR 18	6.88	JUN 27	7.46	AUG 14	8.89
NOV 21	6.93	JAN 25	6.30	MAR 14	6.13	MAY 25	7.02	JUL 20	8.51	SEP 20	9.59
WATER YEAR 1995		HIGHEST	6.13	MAR 14, 1995		LOWEST	9.59	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-06. SITE ID.--384341075223802. PERMIT NUMBER.--95783.

LOCATION.--Lat 38°43'41", long 75°22'38", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 2 in., to 52 ft; screen diameter 2 in. from 52 to 55 ft.

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

DATUM.--Elevation of land surface is 50.14 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of metal sleeve, 2.42 ft above land surface.

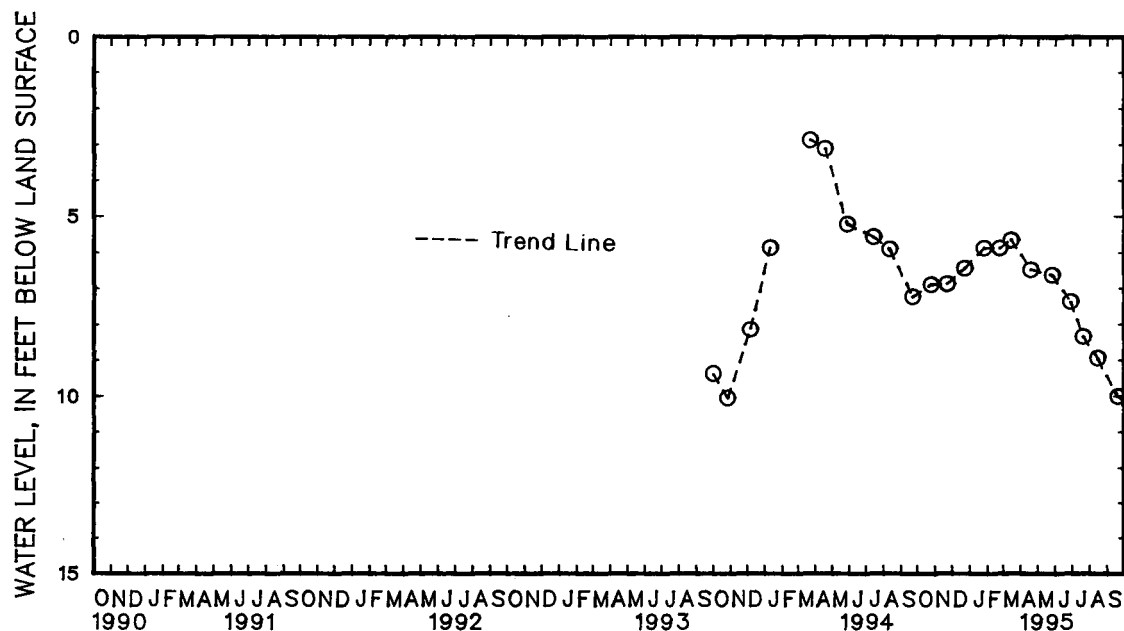
REMARKS.--Delaware Department of Transportation Project observation well.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.87 ft below land surface, March 22, 1994; lowest measured, 10.11 ft below land surface, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.95	DEC 22	6.47	FEB 22	5.88	APR 18	6.52	JUN 27	7.42	AUG 14	9.02
NOV 21	6.91	JAN 25	5.89	MAR 14	5.65	MAY 25	6.67	JUL 20	8.41	SEP 20	10.07
WATER YEAR 1995		HIGHEST	5.65	MAR 14, 1995		LOWEST	10.07	SEP 20, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

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 National Geodetic Vertical Datum of 1929, from topographic map.

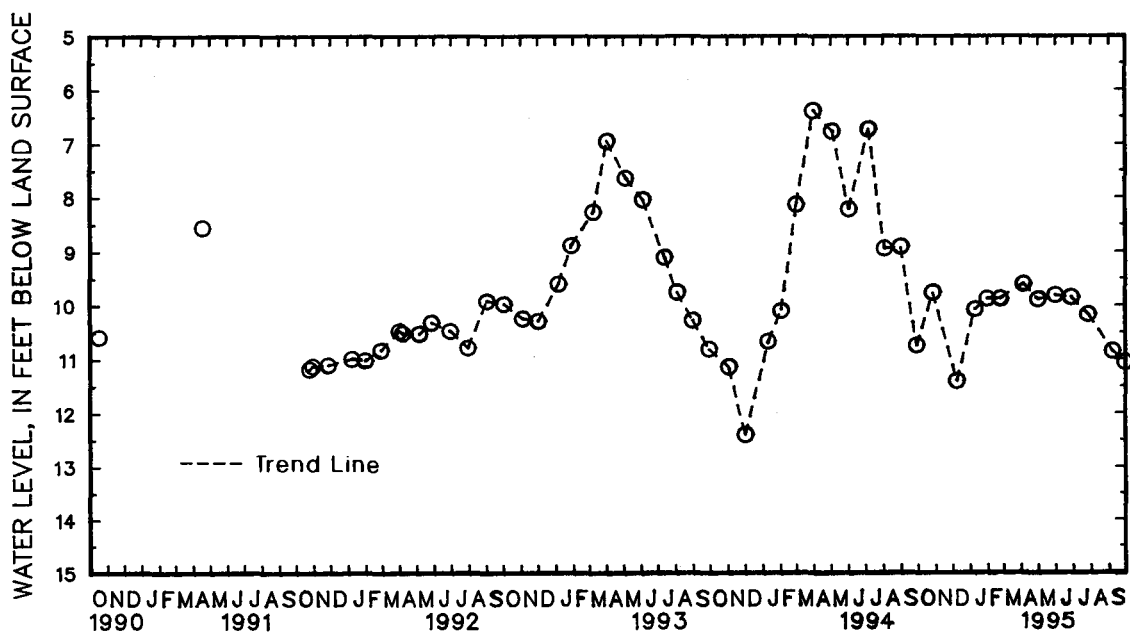
Measuring Point: Top of steel casing, 1.5 ft above land surface.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

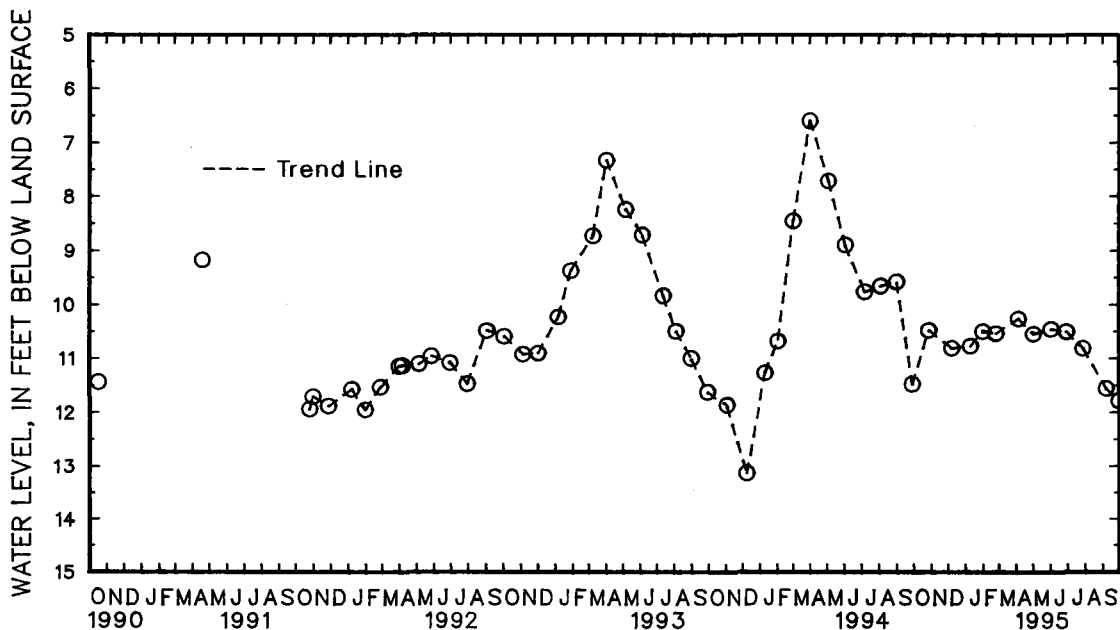
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	9.78	JAN 9	10.09	FEB 23	9.89	MAY 1	9.91	JUN 28	9.87	SEP 7	10.90
DEC 7	11.45	31	9.89	APR 4	9.62	JUN 1	9.83	JUL 27	10.20	29	11.11
WATER YEAR 1995		HIGHEST	9.62	APR 4, 1995		LOWEST	11.45	DEC 7, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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-Pliocene 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of steel casing, 1.5 ft above land surface.
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.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	10.50	JAN 9	10.80	FEB 23	10.56	MAY 1	10.57	JUN 28	10.52	SEP 7	11.60
DEC 7	10.84	31	10.52	APR 4	10.28	JUN 1	10.48	JUL 27	10.85	29	11.83
WATER YEAR 1995		HIGHEST	10.28	APR 4, 1995		LOWEST	11.83	SEP 29, 1995			



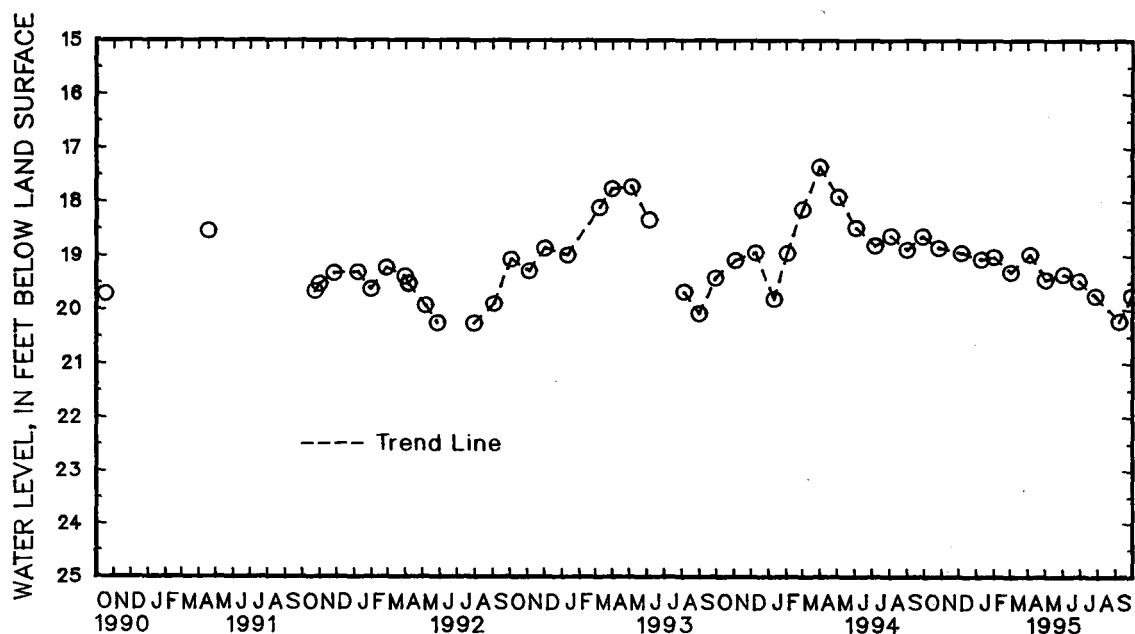
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

WELL NUMBER.--0124-06. 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 National Geodetic Vertical Datum of 1929. 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, 20.49 ft below land surface, July 24, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	18.88	JAN 9	19.10	MAR 1	19.34	MAY 1	19.48	JUN 28	19.50	SEP 7	20.26
DEC 5	18.97	31	19.05	APR 4	19.00	JUN 1	19.38	JUL 27	19.78	28	19.77
WATER YEAR 1995		HIGHEST	18.88	OCT 26, 1994		LOWEST	20.26	SEP 7, 1995			

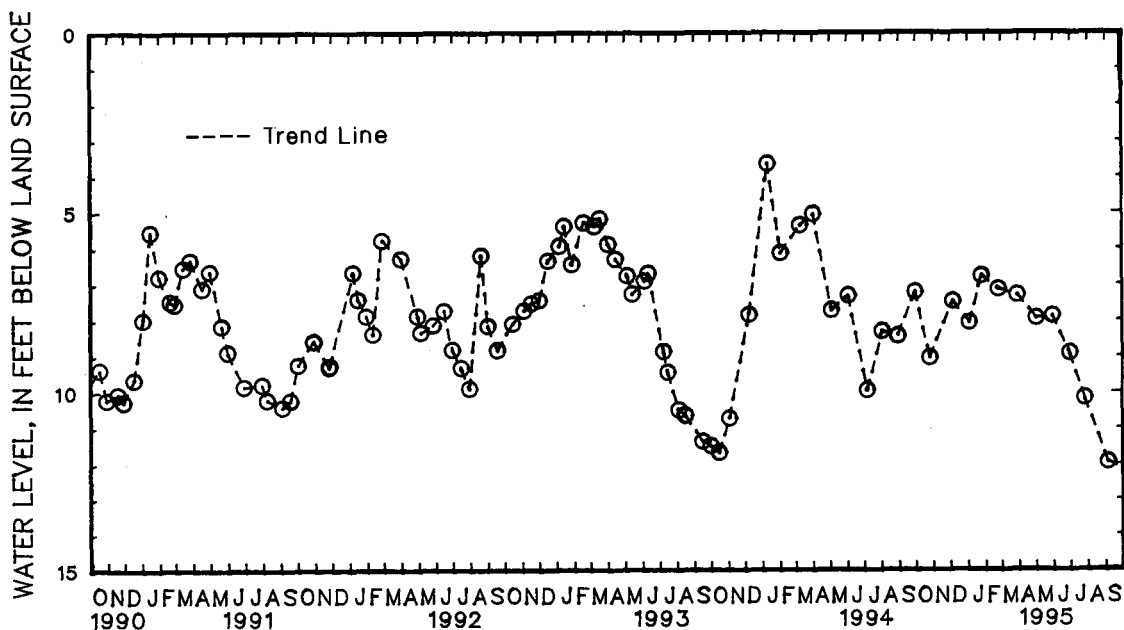


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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.--Columbia Group of Pleistocene age. Aquifer code: 112CLMB.
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.--Bimonthly measurements with chalked steel tape by U.S. Geological Survey and
Delaware Geological Survey personnel.
DATUM.--Elevation of land surface is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing at land surface.
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, 12.22 ft below land surface, Dec. 2, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 25	9.12	JAN 3	8.13	FEB 23	7.18	MAY 1	8.01	JUN 29	9.00	SEP 5	12.02				
DEC 5	7.52	25	6.80	MAR 28	7.33	30	7.94	JUL 26	10.24						
WATER YEAR 1995		HIGHEST		6.80		JAN 25, 1995		LOWEST		12.02		SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

DELAWARE--Continued

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.--Twice yearly 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 National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.0 ft above land surface.

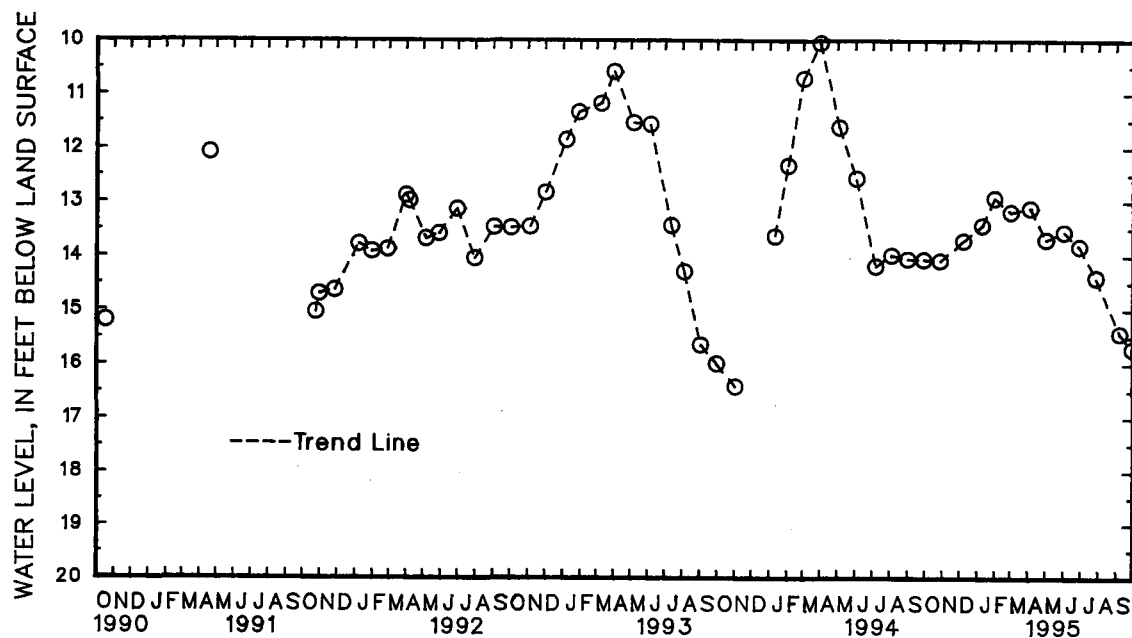
PERIOD OF RECORD.--November 1978 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.07 ft below land surface, April 2, 1979;

lowest measured, 16.46 ft below land surface, Oct. 21, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	14.12	JAN 9	13.45	MAR 1	13.20	MAY 1	13.72	JUN 28	13.85	SEP 7	15.47
DEC 7	13.74	JAN 31	12.94	APR 4	13.13	JUN 1	13.58	JUL 27	14.43	SEP 29	15.76
WATER YEAR 1995		HIGHEST	12.94	JAN 31, 1995		LOWEST	15.76	SEP 29, 1995			



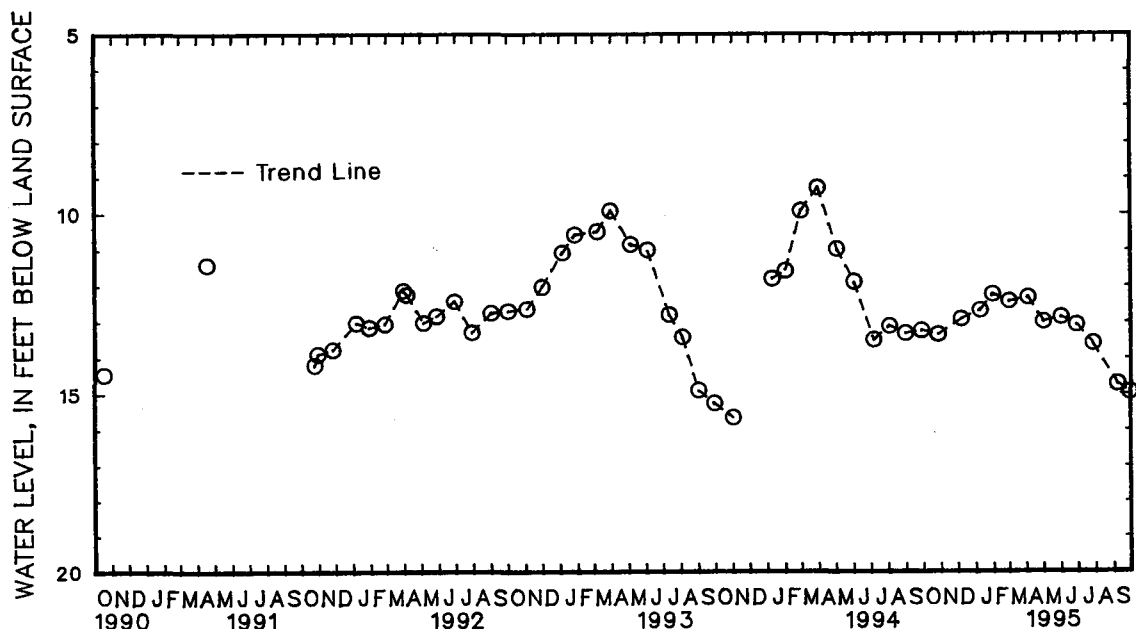
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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-Pliocene 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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 2.0 ft above land surface.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	13.41	JAN 9	12.72	MAR 1	12.46	MAY 1	13.05	JUN 28	13.14	SEP 7	14.79
DEC 7	12.97	31	12.26	APR 4	12.35	JUN 1	12.92	JUL 27	13.67	29	15.02
WATER YEAR 1995		HIGHEST	12.26	JAN 31, 1995		LOWEST	15.02	SEP 29, 1995			

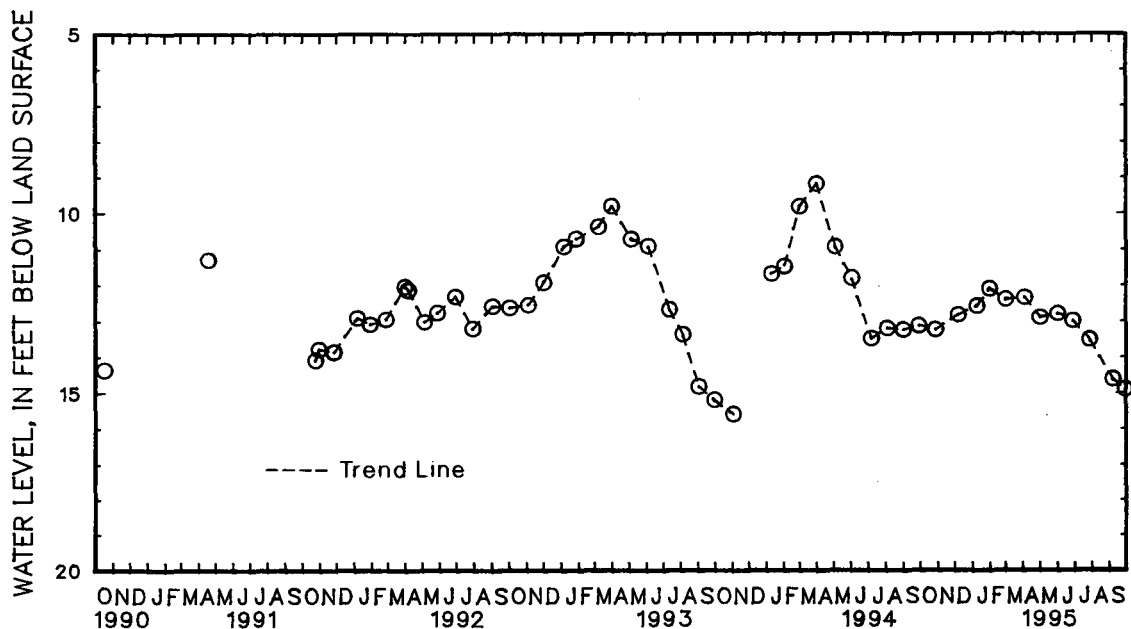


GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

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.--Columbia group of Pleistocene age. Aquifer code: 112CLMB.
WELL CHARACTERISTICS.--Drilled, observation, artesian 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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 2.0 ft above land surface.
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, 15.69 ft below land surface, Oct. 21, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	13.30	JAN 9	12.62	MAR 1	12.43	MAY 1	12.95	JUN 28	13.04	SEP 7	14.68
DEC 7	12.87	31	12.14	APR 4	12.38	JUN 1	12.84	JUL 27	13.59	29	14.96
WATER YEAR 1995		HIGHEST	12.14	JAN 31, 1995		LOWEST	14.96	SEP 29, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

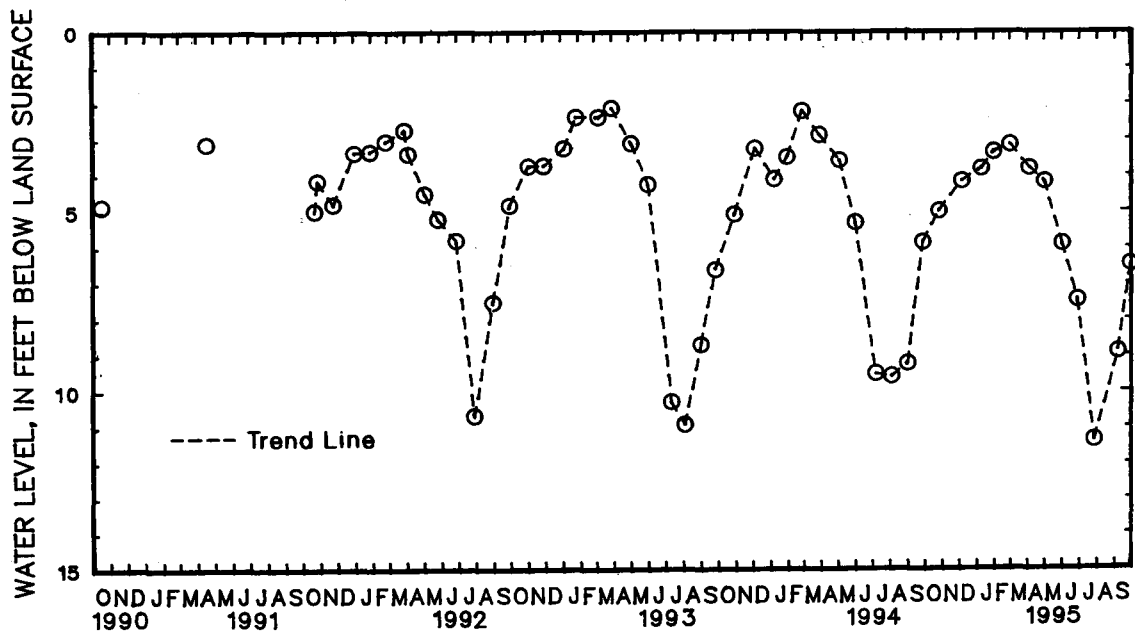
GROUND-WATER LEVELS

DELAWARE--Continued**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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, at land surface.
REMARKS.--Delaware Water-Level Network observation well.
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, 11.43 ft below land surface, July 27, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 27	5.00	JAN 9	3.82	MAR 1	3.15	MAY 1	4.20	JUN 28	7.52	SEP 7	8.93				
DEC 7	4.17	31	3.35	APR 4	3.81	JUN 1	5.95	JUL 27	11.43	29	6.49				
WATER YEAR 1995		HIGHEST	3.15	MAR 1, 1995		LOWEST	11.43	JUL 27, 1995							

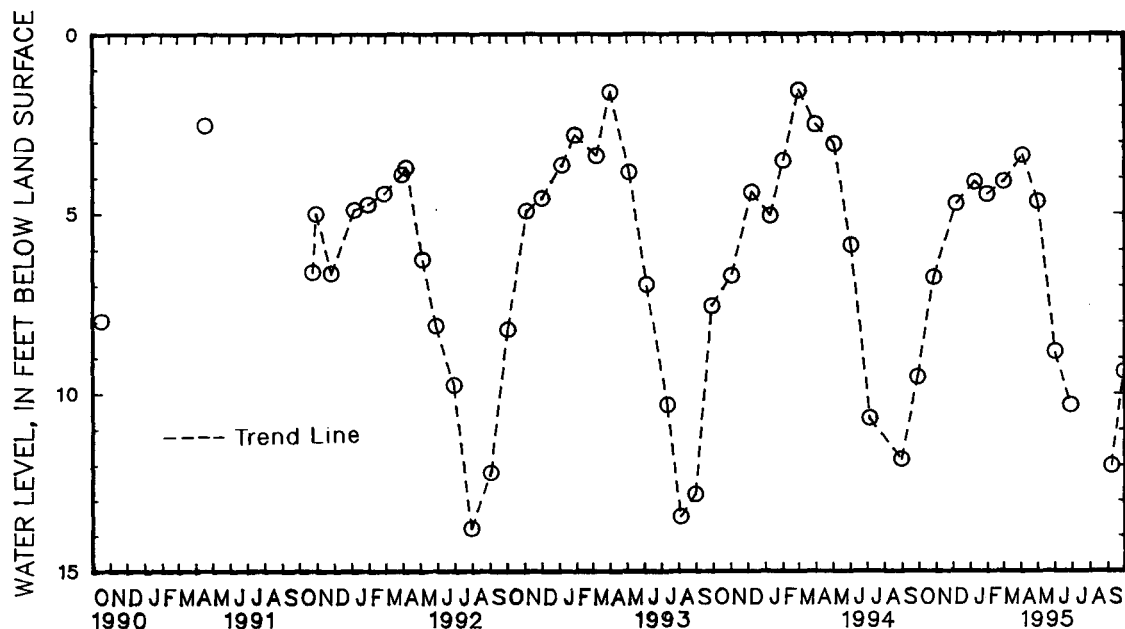


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of casing, 1.0 ft above land surface.
PERIOD OF RECORD.--April 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .80 ft above land surface, April 4, 1984;
lowest measured, 13.81 ft below land surface, July 30, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	6.77	JAN 9	4.12	MAR 1	4.11	MAY 1	4.68	JUN 28	10.38	SEP 29	9.40
DEC 7	4.73	31	4.47	4	3.38	JUN 1	8.91	SEP 7	12.07		
WATER YEAR 1995		HIGHEST	3.38	APR 4. 1995		LOWEST	12.07	SEP 7. 1995			



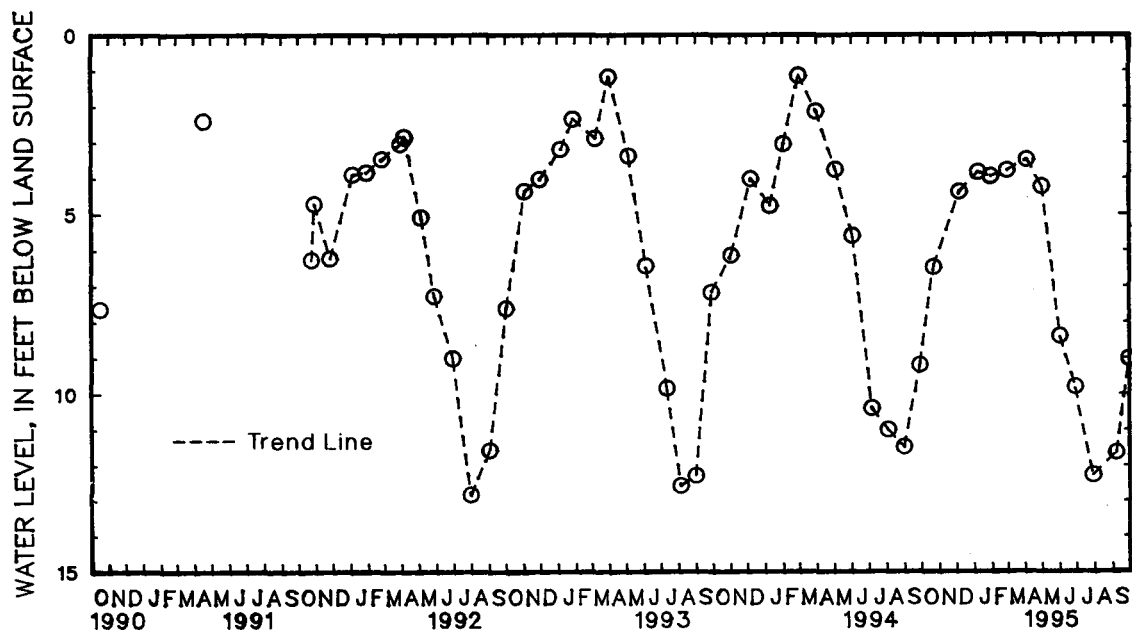
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.
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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of casing, 1.0 ft above land surface.
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, and April 4, 1984; lowest measured, 12.86 ft below land surface, July 30, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	6.47	JAN 9	3.83	MAR 1	3.78	MAY 1	4.24	JUN 28	9.86	SEP 7	11.68
DEC 7	4.38	31	3.95	APR 4	3.48	JUN 1	8.45	JUL 29	12.32	29	9.03
WATER YEAR 1995		HIGHEST	3.48	APR 4, 1995	LOWEST	12.32	JUL 29, 1995				

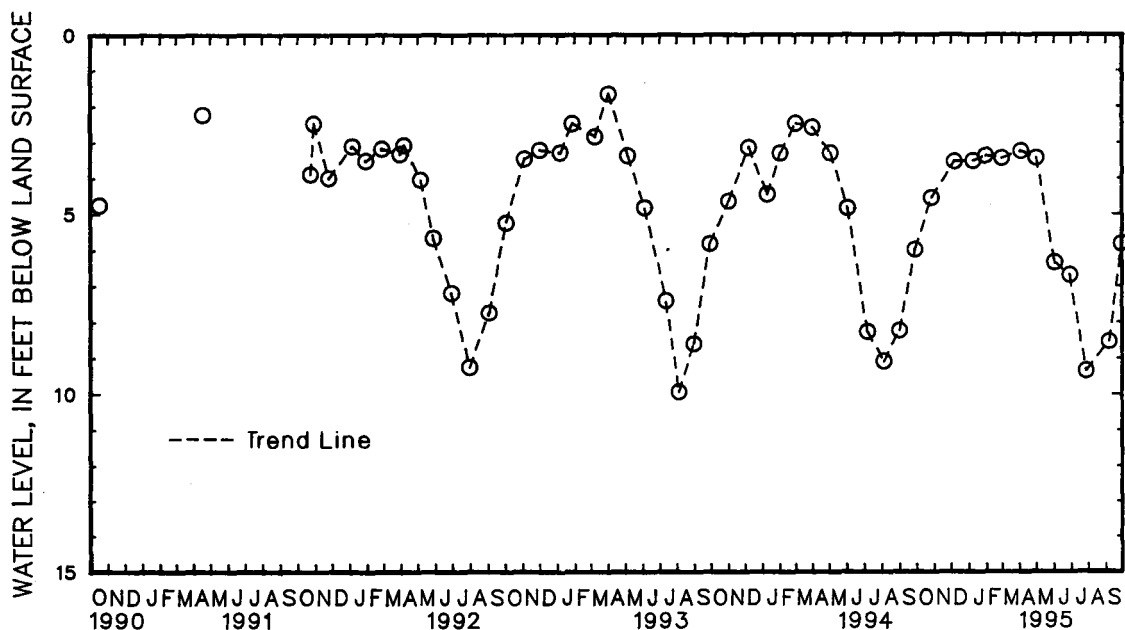


GROUND-WATER LEVELS
DELAWARE--Continued
SUSSEX COUNTY--Continued

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.--Ocean City aquifer of Upper Miocene age. Aquifer code: 122OCNC.
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 National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of casing, 1.0 ft above land surface.
PERIOD OF RECORD.--April 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .33 ft above land surface, Feb. 20, 1986; lowest measured, 10.00 ft below land surface, Aug 4, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	4.56	JAN 9	3.53	MAR 1	3.45	MAY 1	3.43	JUN 28	6.75	SEP 7	8.60
DEC 7	3.54	31	3.38	APR 4	3.25	JUN 1	6.40	JUL 27	9.43	29	5.83
WATER YEAR 1995		HIGHEST	3.25	APR 4, 1995		LOWEST	9.43	JUL 27, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
DELAWARE--Continued
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.--Pleistocene-Pliocene Formation of Pleistocene age. Aquifer code: 112PCPC.

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 National Geodetic Vertical Datum of 1929, from topographic map.

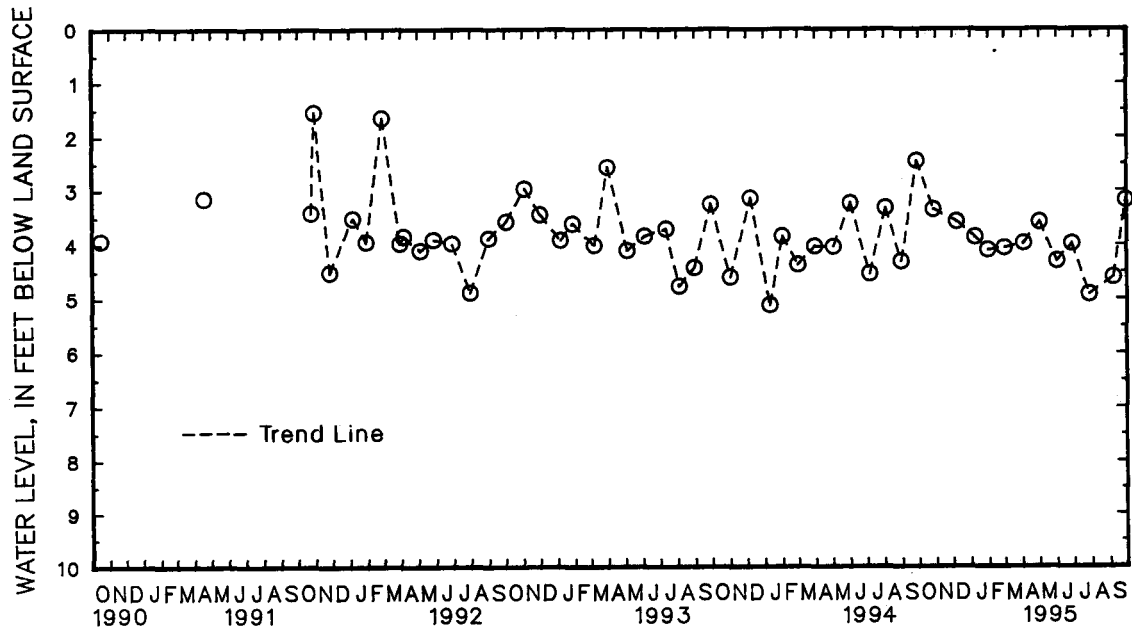
Measuring Point: Top of casing, 1.0 ft above land surface.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.28 ft below land surface, March 27, 1978; lowest measured, 5.39 ft below land surface, July 24, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	3.37	JAN 9	3.88	MAR 1	4.09	MAY 1	3.60	JUN 28	4.00	SEP 7	4.63
DEC 7	3.60	31	4.13	APR 4	4.00	JUN 1	4.34	JUL 27	4.95	29	3.19
WATER YEAR 1995		HIGHEST	3.19	SEP 29, 1995	LOWEST	4.95	JUL 27, 1995				



GROUND-WATER LEVELS
MARYLAND--Continued
ALLEGANY COUNTY--Continued

WELL NUMBER.--AL Bd 2. SITE ID.--393930078460901.

LOCATION.--Lat 39°39'30", long 78°46'09", Hydrologic Unit 02070002, at Henderson Ave. and Valley St., Cumberland.

Owner: formerly Cumberland Brewing Company..

AQUIFER.--Tonoloway Limestone of Upper Silurian age. Aquifer code: 351TNLY.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, Reported depth 100 ft, measured depth 91 ft; casing diameter 6 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 640 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing at land surface.

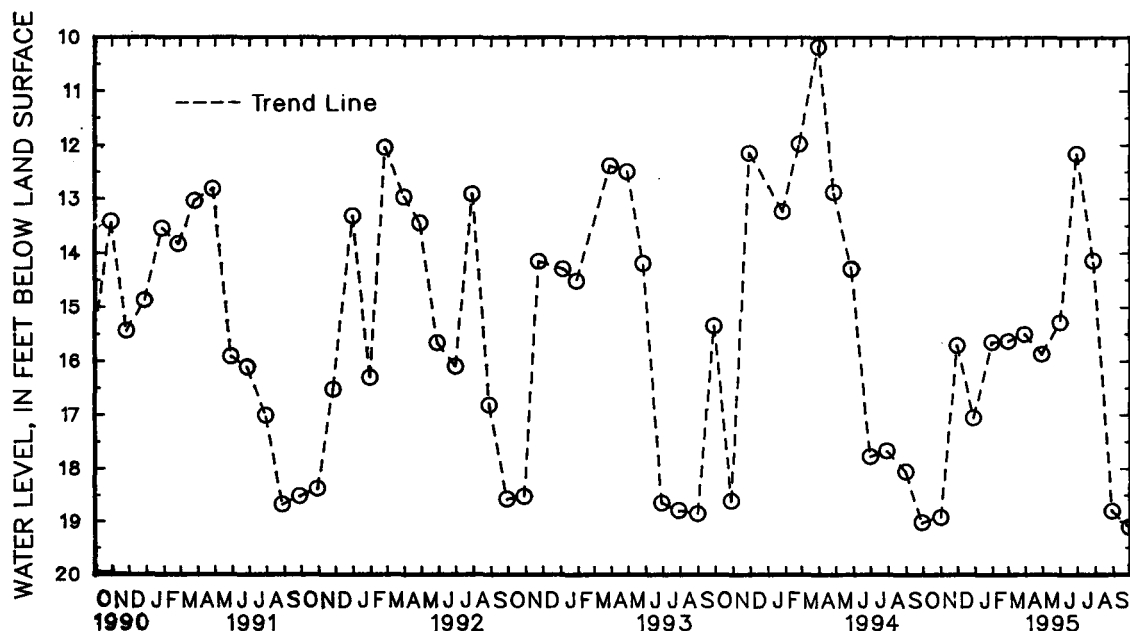
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.24 ft below land surface, Feb. 8, 1973; lowest measured, 32.55 ft below land surface, Sept. 7, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	18.93	DEC 28	17.08	FEB 28	15.63	APR 28	15.88	JUN 29	12.16	AUG 29	18.82
NOV 29	15.71	JAN 30	15.65	MAR 29	15.50	MAY 31	15.28	JUL 27	14.17	SEP 28	19.12
WATER YEAR 1995		HIGHEST	12.16	JUN 29, 1995	LOWEST	19.12	SEP 28, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

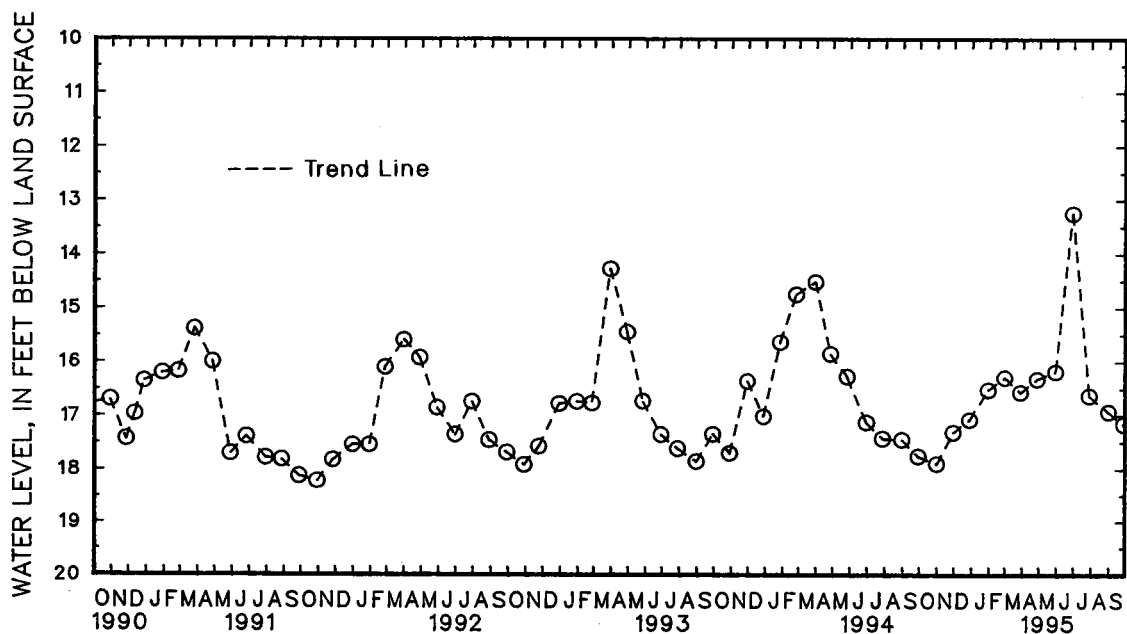
MARYLAND--Continued

ALLEGANY COUNTY--Continued

WELL NUMBER.--AL Ca 19. SITE ID.--393009079025201. PERMIT NUMBER.--AL-05-0057.
LOCATION.--Lat 39°30'08", long 79°02'52", Hydrologic Unit 02070002, north end of Franklin.
Owner: Carl 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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 2.0 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	17.93	DEC 28	17.09	FEB 28	16.30	APR 27	16.33	JUN 29	13.25	AUG 31	16.97
NOV 29	17.33	JAN 30	16.53	MAR 28	16.58	MAY 30	16.19	JUL 28	16.67	SEP 27	17.20
WATER YEAR 1995		HIGHEST	13.25	JUN 29, 1995		LOWEST	17.93	OCT 31, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 March 1992.
DATUM.--Elevation of land surface is 1,250 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 1.7 ft above land surface.

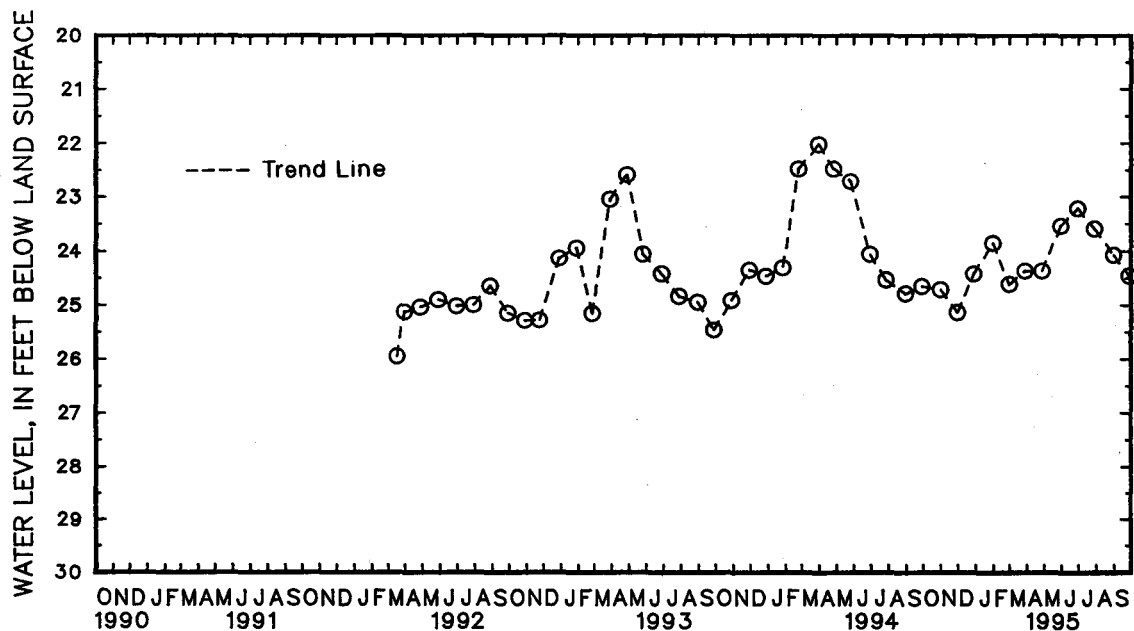
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.02 ft below land surface, March 30, 1994;
lowest measured, 26.00 ft below land surface, March 17, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	24.74	DEC 28	24.44	FEB 28	24.64	APR 27	24.39	JUN 29	23.22	AUG 31	24.10
NOV 29	25.17	JAN 30	23.86	MAR 28	24.39	MAY 30	23.54	JUL 28	23.60	SEP 27	24.49
WATER YEAR 1995		HIGHEST	23.22	JUN 29, 1995		LOWEST	25.17	NOV 29, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 136.9 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.0 above land surface.

REMARKS.--Maryland Water-Level Network observation well. Well used during construction of airport.

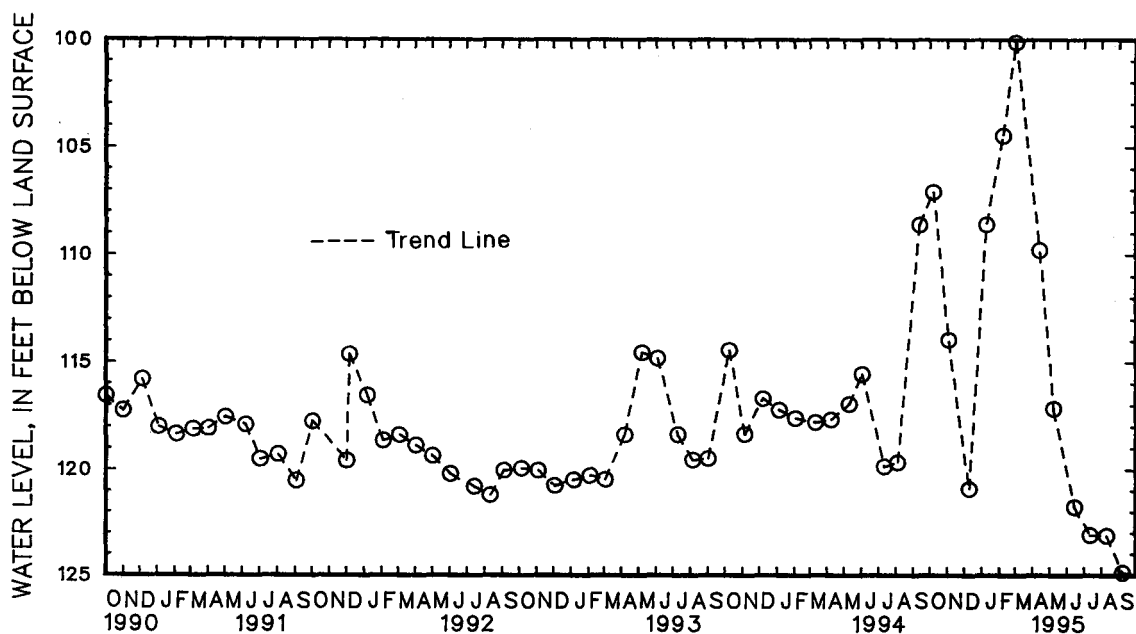
Water level reported by driller 90 ft below land surface, April 23, 1948.

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, 1985;
lowest measured, 125.12 ft below land surface, Oct. 9, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE			WATER LEVEL			DATE			WATER LEVEL			DATE			WATER LEVEL			DATE			WATER LEVEL		
OCT	7	107.10	DEC	9	120.98	FEB	8	104.47	APR	13	109.88	JUN	14	121.82	AUG	9	123.16						
NOV	3	114.05	JAN	9	108.61	MAR	2	100.13	MAY	8	117.26	JUL	11	123.14	SEP	7	124.88						
WATER YEAR 1995			HIGHEST 100.13			MAR 2, 1995			LOWEST 124.88			SEP 7, 1995											



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

MARYLAND--Continued

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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.47 ft above land surface.

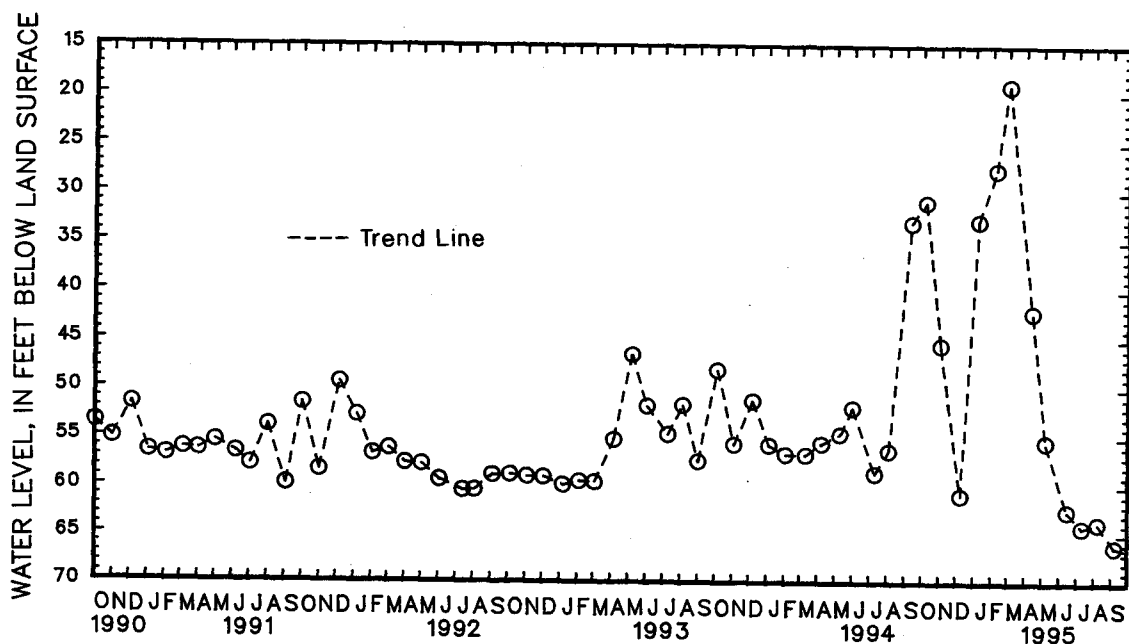
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.

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, 66.22 ft below land surface, Sept. 7, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	30.97	DEC 9	61.06	FEB 8	27.67	APR 13	42.39	JUN 14	62.62	AUG 8	63.83
NOV 3	45.71	JAN 9	32.90	MAR 2	19.08	MAY 8	55.57	JUL 11	64.24	SEP 7	66.22
WATER YEAR 1995		HIGHEST	19.08	MAR 2, 1995	LOWEST	66.22	SEP 7, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

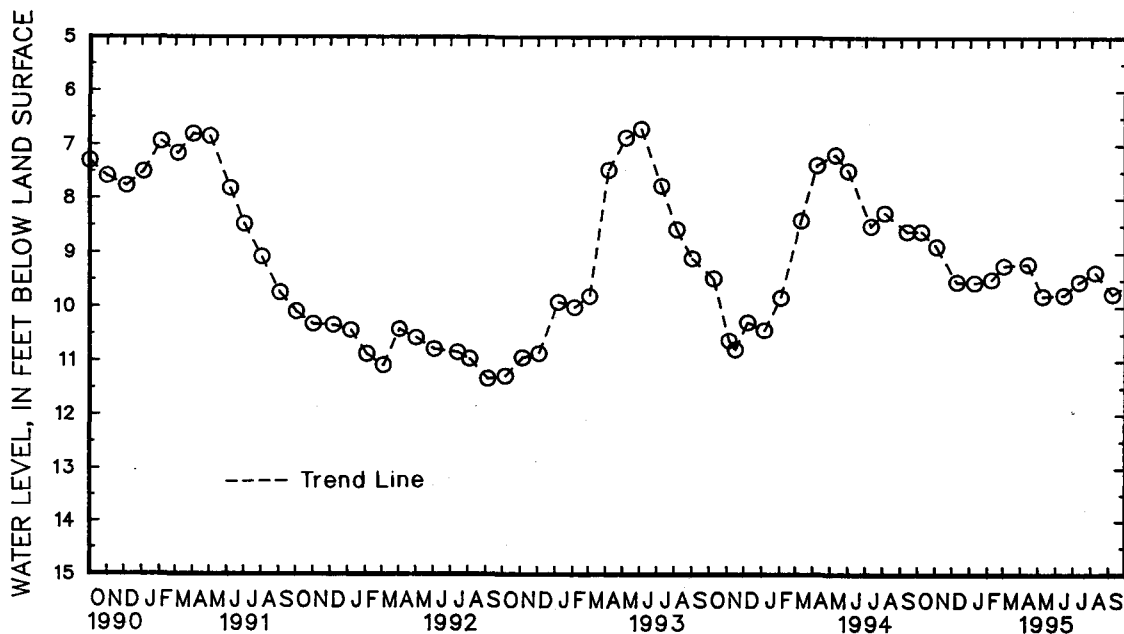
MARYLAND--Continued

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 Hammonds Ferry Rd.,
 0.5 mi north of Dorsey Rd. intersection.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 90; casing diameter 6 in., to 80 ft;
 screen diameter 6 in. from 80 to 90 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. 1983 to Oct. 2, 1990.
 DATUM.--Elevation of land surface is 73.72 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 5.27 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels maybe affected by nearby pumping.
 PERIOD OF RECORD.--December 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.44 ft below land surface, June 6 1990;
 lowest measured, 14.74 ft below land surface, Oct. 31, 1986 and Nov. 1, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	8.63	DEC 9	9.57	FEB 8	9.52	APR 13	9.23	JUN 14	9.81	AUG 8	9.38
NOV 3	8.91	JAN 9	9.58	MAR 2	9.26	MAY 8	9.83	JUL 11	9.56	SEP 7	9.79
WATER YEAR 1995		HIGHEST	8.63	OCT 7, 1994		LOWEST	9.83	MAY 8, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

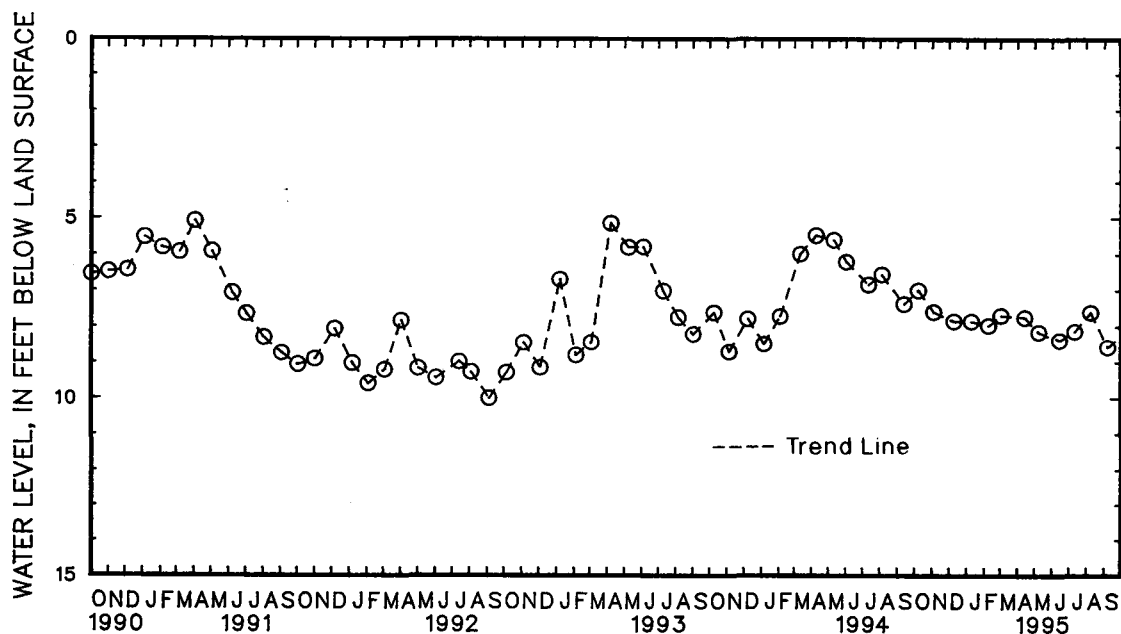
MARYLAND--Continued

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 Hammonds Ferry Rd.,
 0.5 mi north of Dorsey Rd. intersection.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 11.5 ft; casing diameter 4 in., to 6 ft;
 screen diameter 4 in. from 6 to 11 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. 23, 1986,
 to Sept. 30, 1990.
 DATUM.--Elevation of land surface is 78.31 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 5.5 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Glen Burnie Project observation well. Water levels
 before Feb. 23, 1986 are not currently available.
 PERIOD OF RECORD.--August 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.46 ft below land surface, Aug. 7, 1989;
 lowest measured, Dry on Aug. 22, 1985; Jan. 17, 1986; May 20, 1986; July 8, 1986 and Nov. 3, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	7.03	DEC 9	7.90	FEB 8	8.02	APR 13	7.79	JUN 14	8.46	AUG 8	7.64
NOV 3	7.64	JAN 9	7.90	MAR 2	7.73	MAY 8	8.21	JUL 11	8.19	SEP 7	8.64
WATER YEAR 1995		HIGHEST	7.03	OCT 7, 1994	LOWEST	8.64	SEP 7, 1995				



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

141

MARYLAND--Continued

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 Rd.,
 0.17 mi west of MD Rt. 648.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from October 1985 to current year.
 DATUM.--Elevation of land surface is 35.78 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 4.29 ft above land surface.
 REMARKS.--Anne Arundel Co. observation well network. Water levels before Feb. 23, 1986 are not currently
 available. Water are levels affected by nearby pumping. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.17 ft above sea level (flowing), April 13-30,
 1994, and May 1-17, 25, 26, 1994; lowest measured, 20.20 ft above sea level, Oct. 15, 1987.

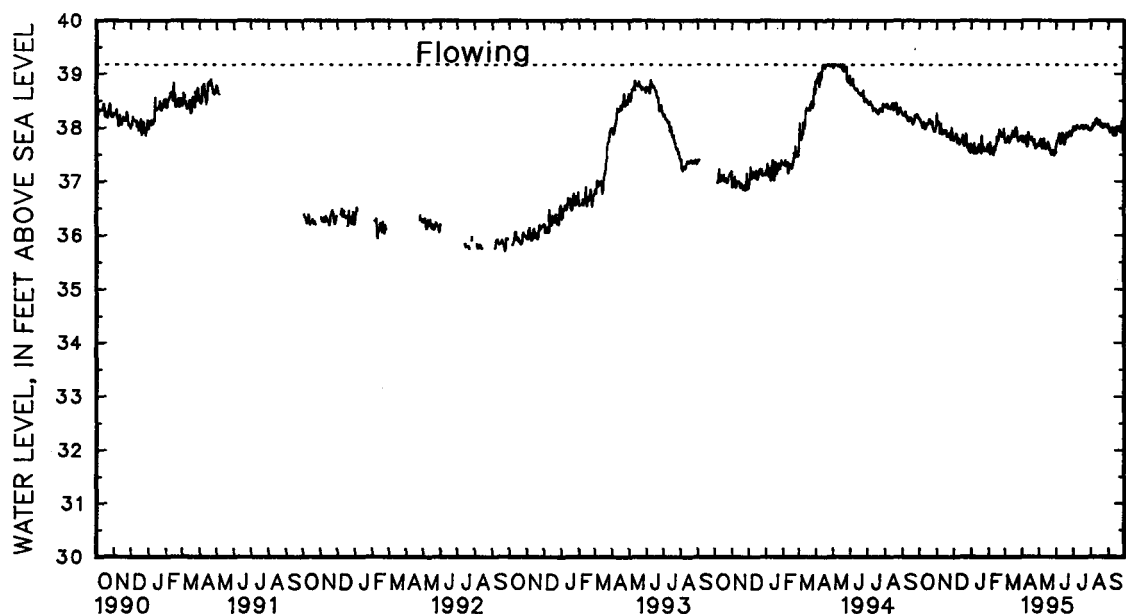
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	38.28	38.17	38.48	38.27	37.81	37.76	37.80	37.70	37.75	37.69	37.98	37.84
2	38.26	38.15	38.35	38.08	37.86	37.77	37.82	37.57	37.69	37.54	37.84	37.75
3	38.15	38.12	38.11	38.07	37.85	37.83	37.61	37.55	37.86	37.50	37.75	37.72
4	38.13	38.10	38.17	38.11	37.84	37.81	37.63	37.57	37.90	37.73	37.74	37.73
5	38.13	38.08	38.19	38.09	38.04	37.84	37.57	37.51	37.73	37.63	37.81	37.73
6	38.08	38.03	38.15	38.05	37.97	37.89	37.87	37.53	37.63	37.55	37.83	37.79
7	38.03	38.00	38.05	37.89	37.99	37.87	37.97	37.71	37.59	37.52	37.85	37.79
8	38.10	38.02	38.08	37.90	37.87	37.72	37.71	37.59	---	---	38.04	37.85
9	38.19	38.10	38.12	38.08	37.84	37.72	37.60	37.52	37.57	37.49	38.02	37.78
10	38.15	38.01	38.12	37.92	38.05	37.81	37.53	37.51	37.66	37.57	37.78	37.72
11	38.01	37.97	37.92	37.88	38.06	37.76	37.62	37.53	37.69	37.64	37.83	37.76
12	37.99	37.97	37.95	37.88	37.76	37.69	37.67	37.62	37.69	37.58	37.83	37.78
13	38.07	37.99	37.97	37.95	37.76	37.71	37.62	37.58	37.66	37.58	37.86	37.80
14	38.12	38.07	37.96	37.93	37.77	37.75	37.68	37.58	37.69	37.66	37.89	37.86
15	38.12	38.05	37.97	37.95	37.83	37.75	37.77	37.68	37.93	37.69	37.97	37.88
16	38.08	38.05	37.95	37.90	37.80	37.75	37.75	37.63	37.94	37.83	37.98	37.95
17	38.09	38.07	37.95	37.92	37.90	37.80	37.63	37.54	37.83	37.75	37.96	37.87
18	38.16	38.09	38.02	37.95	37.92	37.86	37.56	37.52	37.82	37.76	37.87	37.84
19	38.16	38.15	38.01	37.87	37.86	37.70	38.03	37.56	37.96	37.82	37.86	37.84
20	38.16	38.15	37.87	37.83	37.70	37.66	38.03	37.85	38.14	37.96	38.00	37.85
21	38.15	38.10	38.12	37.84	37.68	37.66	37.85	37.69	38.15	37.96	38.07	38.00
22	38.10	38.07	38.11	37.89	37.83	37.68	37.69	37.65	37.96	37.87	38.05	38.01
23	38.18	38.10	37.97	37.89	37.93	37.83	37.66	37.64	38.05	37.91	38.03	37.95
24	38.18	38.11	37.91	37.83	37.99	37.89	37.66	37.56	38.08	37.87	37.95	37.82
25	38.14	38.03	37.92	37.90	37.89	37.70	37.58	37.56	37.87	37.83	37.82	37.78
26	38.03	37.99	37.90	37.80	37.70	37.62	37.59	37.58	37.90	37.84	37.80	37.75
27	37.99	37.96	38.00	37.77	37.68	37.62	37.61	37.58	38.01	37.84	37.84	37.80
28	37.96	37.93	38.15	38.00	37.78	37.68	37.63	37.60	38.12	37.98	37.85	37.82
29	37.99	37.93	38.01	37.89	37.72	37.56	37.63	37.56	---	---	37.85	37.82
30	38.01	37.97	37.92	37.81	37.56	37.53	37.72	37.63	---	---	37.89	37.84
31	38.27	38.01	---	---	37.70	37.54	37.73	37.68	---	---	37.87	37.85
MONTH	38.28	37.93	38.48	37.77	38.06	37.53	38.03	37.51	38.15	37.49	38.07	37.72

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Ad 109--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	37.86	37.83	37.74	37.69	37.69	37.63	38.12	38.00	38.02	37.99	38.11	38.06
2	37.84	37.76	37.79	37.70	37.75	37.69	38.09	38.02	38.01	37.97	38.06	37.99
3	37.88	37.74	37.76	37.67	37.82	37.75	38.02	37.97	37.98	37.96	37.99	37.96
4	38.00	37.83	37.86	37.76	37.82	37.76	37.97	37.95	38.05	37.98	37.97	37.94
5	37.83	37.72	37.90	37.78	37.83	37.76	37.97	37.96	38.09	38.05	37.97	37.91
6	37.88	37.74	37.78	37.68	37.94	37.83	38.04	37.97	38.32	38.08	37.99	37.95
7	37.88	37.81	37.69	37.64	37.95	37.90	38.08	38.04	38.14	38.04	38.06	37.99
8	37.92	37.81	37.68	37.61	37.90	37.77	38.08	38.05	38.08	38.04	38.06	37.99
9	37.96	37.84	37.68	37.62	37.77	37.69	38.05	38.03	38.14	38.08	38.04	38.00
10	37.84	37.66	37.81	37.68	37.81	37.72	38.05	38.02	38.16	38.14	38.02	37.88
11	37.68	37.64	37.84	37.79	37.90	37.81	38.04	38.01	38.18	38.15	37.89	37.85
12	37.93	37.68	37.79	37.70	37.95	37.90	38.01	37.99	38.19	38.17	37.96	37.89
13	37.97	37.92	37.70	37.61	37.92	37.89	38.00	37.98	38.18	38.13	38.05	37.96
14	37.92	37.83	37.70	37.60	37.89	37.80	38.05	38.00	38.13	38.08	38.05	37.96
15	37.87	37.81	37.71	37.67	37.80	37.70	38.06	38.04	38.11	38.05	37.96	37.85
16	37.85	37.81	37.67	37.61	37.72	37.68	38.06	38.01	38.13	38.08	38.02	37.87
17	37.83	37.77	37.79	37.66	37.78	37.72	38.08	38.03	38.15	38.13	38.22	38.02
18	37.82	37.77	37.76	37.73	37.85	37.78	38.08	38.05	38.14	38.07	38.14	37.98
19	37.96	37.82	37.82	37.69	37.94	37.85	38.05	37.99	38.07	38.02	37.98	37.95
20	37.89	37.77	37.69	37.63	37.94	37.91	38.00	37.98	38.09	38.05	38.02	37.97
21	37.88	37.77	37.63	37.58	37.91	37.83	38.03	38.00	38.12	38.07	38.03	38.02
22	37.86	37.73	37.58	37.51	37.85	37.82	38.05	38.00	38.11	38.03	38.10	38.00
23	37.77	37.67	37.54	37.49	37.91	37.85	38.07	38.05	38.05	37.99	38.00	37.92
24	37.83	37.77	37.62	37.54	37.97	37.91	38.10	38.01	38.11	38.05	38.00	37.92
25	37.80	37.66	37.61	37.57	37.96	37.94	38.05	38.02	38.10	38.02	38.11	38.00
26	37.66	37.60	37.57	37.53	37.95	37.89	38.05	38.03	38.06	38.02	38.12	38.11
27	37.76	37.64	37.53	37.50	37.89	37.85	38.03	38.00	38.09	38.06	38.11	38.04
28	37.76	37.67	37.57	37.48	37.89	37.85	38.00	37.98	38.08	38.04	38.04	37.97
29	37.68	37.64	37.70	37.57	37.94	37.89	38.01	37.98	38.08	38.04	37.97	37.94
30	37.76	37.66	37.68	37.57	38.00	37.94	37.99	37.97	38.08	38.01	38.00	37.95
31	---	---	37.63	37.53	---	---	37.99	37.94	38.11	38.03	---	---
MONTH	38.00	37.60	37.90	37.48	38.00	37.63	38.12	37.94	38.32	37.96	38.22	37.85
YEAR	38.48	37.48										

Daily Low Water Levels



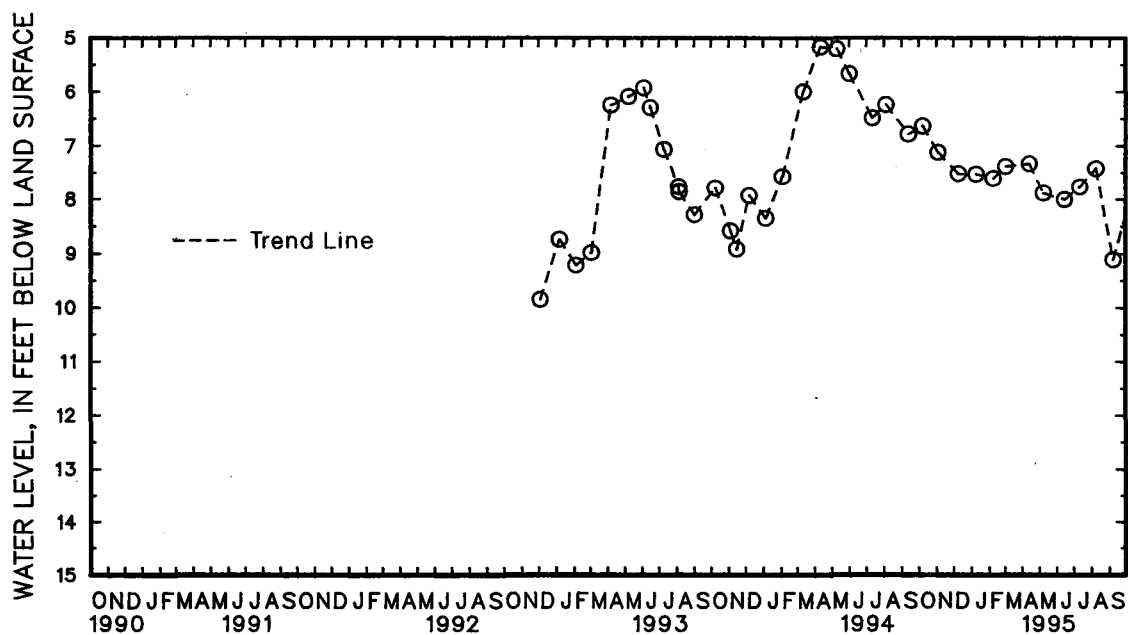
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Hammonds Ferry Rd.
0.5 mi of Dorsey Rd. intersection.
Owner: U.S. Geological Survey.
AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PFSC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 80 ft above National Geodetic Vertical Datum of 1929.
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, 5.17 ft below land surface, April 11, 1994;
lowest measured, 9.89 ft below land surface, December 3, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	6.86	DEC 9	7.55	FEB 8	7.64	APR 13	7.36	JUN 14	8.03	AUG 8	7.44
NOV 3	7.15	JAN 9	7.56	MAR 2	7.41	MAY 8	7.91	JUL 11	7.79	SEP 7	9.15
WATER YEAR 1995		HIGHEST	6.66	OCT 7, 1994	LOWEST	9.15	SEP 7, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

MARYLAND--Continued

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 east of Oakwood Rd.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from March 14, 1985 to current year.
 DATUM.--Elevation of land surface is 53.29 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 3.0 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 nearby pumping. Missing data due to recorder malfunction.
 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.

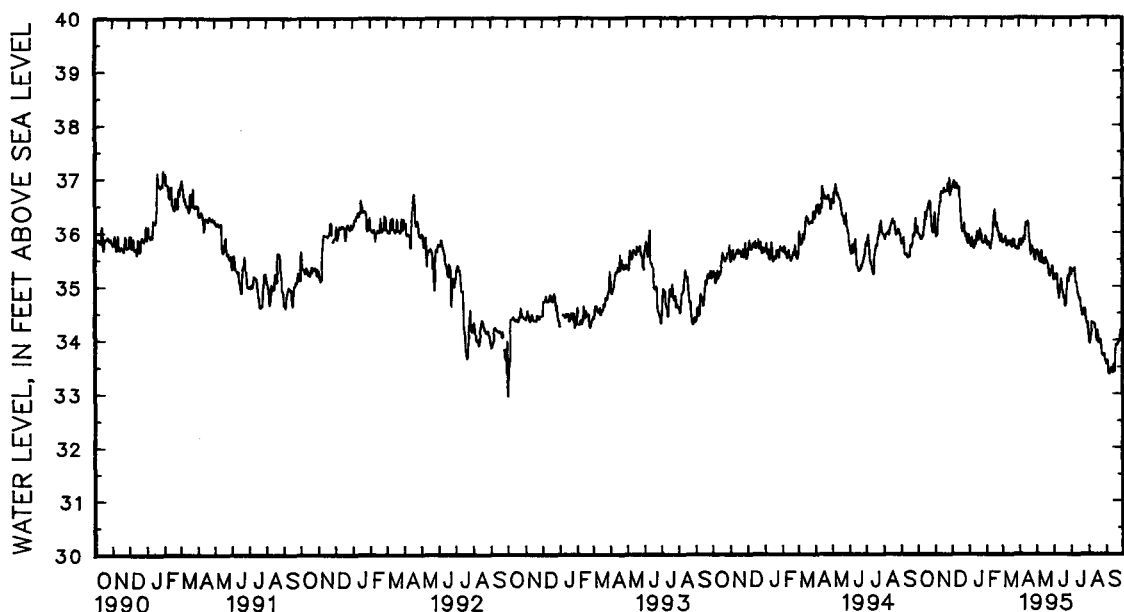
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.76	22.65	23.44	23.24	23.87	23.64	22.96	22.76	22.75	22.62	22.95	22.55
2	22.73	22.51	23.24	22.73	23.93	23.67	22.90	22.64	22.96	22.66	22.55	22.37
3	22.56	22.49	22.73	22.64	24.11	23.75	22.64	22.57	22.67	22.45	22.45	22.37
4	22.52	22.47	22.76	22.65	24.05	23.77	22.66	22.49	23.03	22.48	22.48	22.41
5	22.52	22.44	22.82	22.70	24.18	23.85	22.49	22.39	22.87	22.61	22.53	22.39
6	22.44	22.38	23.55	22.80	24.04	23.83	22.77	22.40	22.70	22.52	22.52	22.44
7	22.42	22.38	23.37	23.18	24.14	23.82	22.94	22.66	22.52	22.43	22.50	22.41
8	22.48	22.39	23.54	23.18	23.91	23.66	22.72	22.57	22.57	22.43	22.77	22.50
9	22.63	22.47	23.82	23.43	23.94	23.64	22.67	22.50	22.46	22.39	22.76	22.33
10	22.57	22.44	23.68	23.45	24.24	23.83	22.50	22.34	22.79	22.42	22.33	22.22
11	22.83	22.44	23.67	23.42	24.27	23.85	22.55	22.34	22.65	22.49	22.39	22.23
12	22.94	22.69	23.86	23.46	23.85	23.64	22.64	22.50	22.99	22.49	22.43	22.37
13	23.17	22.79	23.91	23.62	23.93	23.64	22.63	22.50	23.20	22.78	22.41	22.35
14	23.25	23.07	23.76	23.61	24.00	23.72	22.90	22.62	23.60	23.18	22.35	22.30
15	23.82	23.16	23.88	23.61	24.24	23.85	23.57	22.74	23.27	23.11	22.43	22.32
16	24.19	23.82	23.82	23.61	24.16	23.73	23.78	23.57	23.23	23.07	22.44	22.39
17	24.14	23.64	23.86	23.60	23.73	23.37	23.68	23.16	23.07	22.91	22.41	22.33
18	23.78	23.53	24.07	23.75	23.48	23.30	23.34	23.01	22.92	22.76	22.33	22.24
19	23.67	23.53	24.06	23.73	23.43	23.11	23.01	22.90	23.05	22.71	22.27	22.20
20	23.80	23.53	23.78	23.61	23.11	22.92	23.28	22.95	23.48	22.92	22.46	22.23
21	23.94	23.53	23.95	23.60	23.01	22.92	23.18	22.94	23.37	23.01	22.53	22.46
22	23.75	23.58	24.03	23.74	23.11	22.96	23.02	22.83	23.01	22.91	22.51	22.40
23	23.93	23.58	23.88	23.65	23.33	23.11	22.83	22.73	23.03	22.92	22.83	22.41
24	23.58	23.21	23.95	23.61	23.43	23.33	22.73	22.51	23.05	22.78	22.56	22.29
25	23.65	23.21	24.10	23.76	23.33	23.05	22.51	22.44	22.91	22.75	22.30	22.22
26	23.22	22.88	24.05	23.72	23.05	22.87	22.52	22.43	22.85	22.67	22.30	22.21
27	22.92	22.78	23.96	23.64	22.95	22.84	22.48	22.43	22.83	22.67	22.31	22.22
28	22.80	22.75	24.25	23.95	23.05	22.93	22.50	22.42	23.11	22.83	22.35	22.22
29	22.95	22.75	23.97	23.56	22.95	22.76	22.71	22.43	---	---	22.27	22.16
30	23.56	22.92	23.87	23.56	22.76	22.60	22.85	22.58	---	---	22.21	22.16
31	23.72	23.36	---	---	22.76	22.60	22.74	22.62	---	---	22.45	22.16
MONTH	24.19	22.38	24.25	22.64	24.27	22.60	23.78	22.34	23.60	22.39	22.95	22.16

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Bd 152--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	22.90	22.45	22.39	22.22	21.92	21.86	22.11	21.81	21.37	21.15	20.84	20.81
2	22.86	22.54	22.89	22.27	21.90	21.84	22.41	21.98	21.16	21.10	20.85	20.75
3	22.70	22.51	22.62	22.31	21.95	21.90	22.30	22.02	21.21	21.04	20.90	20.75
4	22.56	22.36	22.31	22.17	21.94	21.82	22.12	21.97	21.28	21.12	20.87	20.71
5	22.65	22.32	22.31	22.20	21.84	21.81	22.20	21.91	21.37	21.22	20.71	20.68
6	22.96	22.65	22.28	22.18	21.88	21.84	22.14	21.89	21.55	21.25	20.68	20.61
7	22.95	22.69	22.23	22.13	21.91	21.88	21.91	21.74	21.36	21.17	20.66	20.62
8	23.02	22.82	22.16	22.09	21.90	21.68	21.77	21.68	---	---	20.66	20.65
9	23.17	22.86	22.10	22.05	21.68	21.58	21.68	21.55	---	---	20.69	20.64
10	22.99	22.71	22.29	22.10	21.67	21.58	21.58	21.48	---	---	20.90	20.63
11	22.86	22.69	22.54	22.29	21.74	21.67	21.58	21.46	---	---	20.72	20.61
12	23.39	22.86	22.37	22.21	21.89	21.74	21.46	21.37	---	---	20.61	20.57
13	23.38	23.13	22.26	22.13	21.85	21.76	21.38	21.31	---	---	20.91	20.58
14	23.23	23.07	22.17	22.08	21.77	21.61	21.41	21.31	21.30	21.14	21.04	20.79
15	23.24	23.04	22.32	22.15	21.61	21.42	21.46	21.40	21.14	21.11	20.79	20.62
16	23.31	23.05	22.18	22.05	21.42	21.38	21.56	21.36	21.68	21.11	20.85	20.61
17	23.26	23.06	22.23	22.09	21.45	21.40	21.60	21.43	21.53	21.22	21.40	20.81
18	23.22	23.02	22.36	22.20	21.51	21.41	21.59	21.43	21.22	21.06	21.10	20.83
19	23.02	22.89	22.47	22.36	21.61	21.49	21.43	21.28	21.77	21.05	20.88	20.76
20	22.89	22.52	22.36	22.30	21.62	21.57	21.29	21.24	21.48	21.28	21.01	20.76
21	22.61	22.48	22.32	22.26	21.57	21.49	21.29	21.24	21.60	21.27	21.00	20.87
22	22.62	22.40	22.26	22.16	21.60	21.46	21.39	21.23	21.52	21.28	21.12	20.86
23	22.73	22.40	22.20	22.14	21.75	21.52	21.51	21.29	21.49	21.18	21.16	20.85
24	22.55	22.40	22.23	22.16	21.81	21.65	21.39	21.22	21.18	21.02	21.32	20.92
25	22.55	22.36	22.26	22.21	21.78	21.68	21.26	21.23	21.02	20.87	21.35	21.07
26	22.43	22.31	22.41	22.13	21.76	21.58	21.37	21.23	20.99	20.87	21.39	21.14
27	22.35	22.29	22.17	22.02	22.01	21.53	21.31	21.22	21.10	20.83	21.44	21.12
28	22.35	22.18	22.09	21.99	22.11	21.95	21.31	21.19	21.00	20.92	21.52	21.12
29	22.18	22.13	22.49	22.09	22.21	21.93	21.36	21.19	21.08	20.92	21.27	21.07
30	22.47	22.13	22.34	22.11	22.61	22.08	21.31	21.17	21.00	20.84	21.40	21.07
31	---	---	22.11	21.91	---	---	21.39	21.12	20.84	20.83	---	---
MONTH	23.39	22.13	22.89	21.91	22.61	21.38	22.41	21.12	21.77	20.83	21.52	20.57
YEAR	24.27	20.57										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

147

MARYLAND--Continued

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.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from Oct. 23, 1984 to current year.
 DATUM.--Elevation of land surface is 57.50 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.5 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1984 to current year
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.07 ft above sea level, August 23, 1990;
 lowest measured, 34.54 ft above sea level, Oct. 10, 1986.

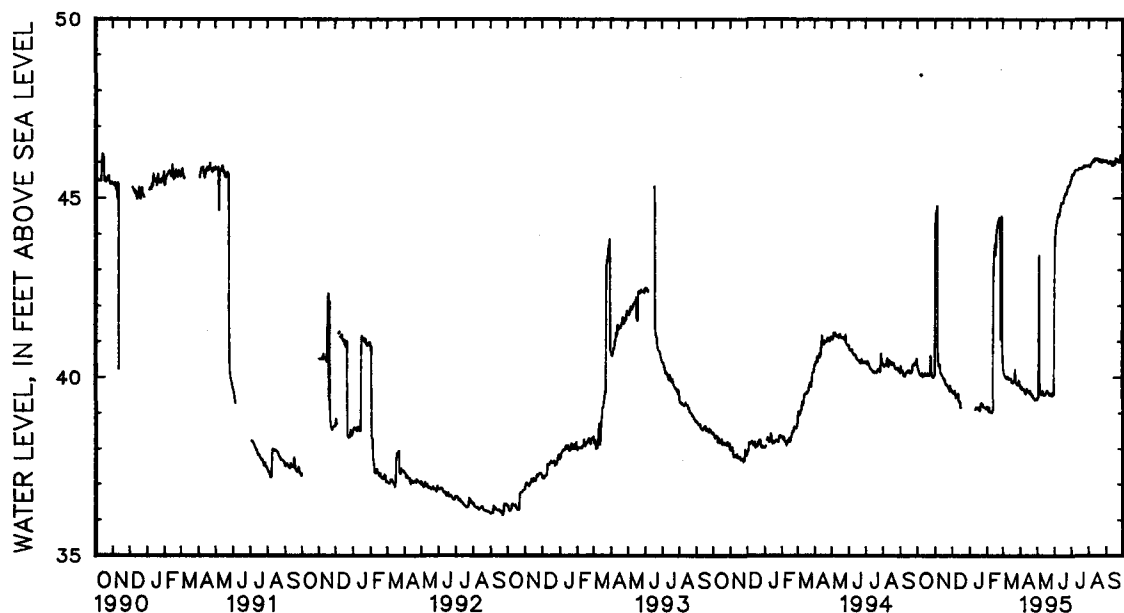
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	40.52	40.34	44.69	44.30	39.65	39.59	---	---	39.23	39.17	40.83	40.33
2	40.34	40.25	44.66	44.60	39.67	39.61	---	---	39.17	39.07	40.33	40.18
3	40.26	40.20	44.79	44.64	39.62	39.56	---	---	39.15	39.03	40.18	40.11
4	40.22	40.16	44.91	44.79	39.57	39.54	---	---	39.34	39.15	40.12	40.05
5	40.19	40.11	44.94	40.85	40.02	39.57	---	---	39.19	39.03	40.09	40.03
6	40.12	40.06	40.85	40.47	39.70	39.62	---	---	39.09	39.03	40.07	39.98
7	40.09	40.05	40.47	40.32	39.69	39.52	---	---	39.10	39.03	40.01	39.96
8	40.14	40.07	41.36	40.32	39.52	39.42	---	---	39.10	39.00	40.11	40.00
9	40.20	40.12	40.48	40.35	39.59	39.48	---	---	39.70	39.00	40.09	39.99
10	40.12	40.02	40.35	40.15	39.59	39.44	39.13	39.09	39.16	39.08	40.01	39.95
11	40.05	40.02	40.15	40.10	43.06	39.44	39.17	39.12	42.95	39.09	40.04	40.00
12	40.07	40.03	40.14	40.08	39.67	39.53	39.22	39.16	43.37	42.95	40.01	39.95
13	40.12	40.06	40.12	40.05	39.54	39.33	39.17	39.11	43.62	43.37	40.00	39.94
14	40.17	40.12	40.06	40.02	39.34	39.30	39.17	39.11	43.74	43.62	39.99	39.95
15	40.14	40.06	40.04	39.98	39.41	39.31	39.27	39.15	44.00	43.74	40.12	39.95
16	40.10	40.05	39.98	39.93	39.46	39.21	39.23	39.14	44.00	43.42	40.38	39.96
17	40.10	40.04	39.96	39.93	39.33	39.14	39.15	39.09	44.07	43.95	39.97	39.85
18	40.92	40.08	39.99	39.94	---	---	39.09	39.05	44.19	44.07	39.89	39.84
19	40.16	40.11	39.94	39.82	---	---	39.29	39.08	44.33	44.19	39.87	39.83
20	40.14	40.09	39.82	39.79	---	---	39.47	39.26	44.50	44.33	39.95	39.84
21	40.12	40.05	40.01	39.80	---	---	39.38	39.28	44.51	44.39	39.99	39.91
22	40.10	40.05	39.96	39.77	---	---	39.28	39.25	44.47	44.36	43.82	39.90
23	41.69	40.07	39.87	39.74	---	---	39.28	39.25	44.62	44.47	43.78	40.21
24	44.16	40.60	39.79	39.70	---	---	39.27	39.18	44.65	44.18	40.21	39.88
25	40.60	40.15	39.79	39.72	---	---	39.20	39.16	44.51	41.05	39.88	39.84
26	40.15	40.07	39.72	39.63	---	---	39.20	39.16	44.52	44.16	39.84	39.78
27	40.07	40.02	39.83	39.60	---	---	39.20	39.15	44.75	44.52	39.83	39.80
28	40.03	39.99	39.94	39.76	---	---	39.20	39.15	44.87	40.83	41.14	39.79
29	41.56	39.99	42.93	39.66	---	---	39.15	39.11	---	---	42.20	39.79
30	40.10	40.05	40.21	39.65	---	---	39.24	39.13	---	---	42.72	39.90
31	44.30	40.07	---	---	---	---	39.22	39.17	---	---	40.97	39.89
MONTH	44.30	39.99	44.94	39.60	43.06	39.14	39.47	39.05	44.87	39.00	43.82	39.78

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Bd 155--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	39.92	39.77	39.45	39.41	43.92	43.49	45.68	45.56	45.96	45.92	46.13	46.06
2	39.79	39.69	39.50	39.43	44.13	43.92	45.68	45.67	45.93	45.89	46.06	46.00
3	39.80	39.67	43.42	39.42	44.27	44.13	45.68	45.65	45.93	45.88	46.02	45.98
4	41.89	39.74	43.86	43.42	44.33	44.27	45.68	45.65	45.99	45.92	46.01	45.97
5	39.74	39.65	43.93	39.92	44.47	44.33	45.71	45.67	46.02	45.97	46.02	45.97
6	40.03	39.66	39.92	39.63	44.58	44.47	45.78	45.71	46.18	45.99	46.04	45.99
7	40.06	39.67	39.63	39.56	44.59	44.56	45.79	45.78	46.10	46.03	46.12	46.03
8	39.78	39.66	41.16	39.51	44.57	44.52	45.79	45.79	46.09	46.04	46.10	46.04
9	39.78	39.62	39.65	39.52	44.58	44.50	45.80	45.79	46.14	46.08	46.10	46.04
10	39.62	39.53	39.63	39.56	44.72	44.58	45.81	45.80	46.13	46.03	46.06	45.94
11	39.58	39.53	39.67	39.62	44.81	44.72	45.84	45.79	46.16	46.11	45.96	45.90
12	39.75	39.58	39.62	39.56	44.88	44.81	45.82	45.79	46.16	46.12	46.03	45.95
13	39.77	39.68	39.56	39.49	44.92	44.88	45.84	45.80	46.13	46.09	46.11	46.03
14	39.71	39.60	39.60	39.48	---	---	45.86	45.82	46.12	46.08	46.10	46.01
15	39.86	39.61	39.59	39.53	44.92	44.88	45.89	45.85	46.12	46.08	46.01	45.93
16	39.66	39.59	39.69	39.51	44.90	44.88	45.87	45.83	46.14	46.11	46.12	45.95
17	39.61	39.56	39.65	39.55	45.01	44.90	45.92	45.85	46.14	46.11	46.29	46.12
18	39.62	39.55	39.64	39.60	45.08	45.01	45.90	45.86	46.11	46.05	46.20	46.07
19	41.57	39.61	41.72	39.63	45.17	45.08	45.86	45.83	46.07	46.02	46.10	46.04
20	39.64	39.53	39.69	39.61	45.18	45.14	45.87	45.82	46.11	46.04	46.14	46.09
21	39.63	39.55	39.61	39.57	45.15	45.12	45.89	45.86	46.13	46.09	46.13	46.06
22	39.58	39.47	39.66	39.52	45.20	45.12	45.91	45.86	46.10	46.02	46.18	46.06
23	39.53	39.44	39.55	39.49	45.28	45.20	45.95	45.91	46.07	46.00	46.06	46.01
24	39.56	39.49	39.63	39.54	45.36	45.28	45.95	45.88	46.13	46.07	46.12	46.04
25	39.49	39.39	39.59	39.52	45.43	45.35	45.96	45.91	46.08	46.01	46.22	46.12
26	39.42	39.35	39.54	39.50	45.42	45.37	45.97	45.92	46.09	46.02	46.23	46.20
27	39.50	39.40	39.51	39.47	45.39	45.35	45.93	45.90	46.11	46.07	46.20	46.14
28	39.47	39.38	39.57	39.47	45.46	45.38	45.92	45.89	46.08	46.04	46.14	46.08
29	39.42	39.36	39.66	39.57	45.52	45.44	45.97	45.90	46.11	46.05	46.09	46.05
30	39.48	39.38	39.61	39.53	45.58	45.50	45.96	45.92	46.08	46.03	46.13	46.07
31	---	---	43.49	39.50	---	---	45.94	45.90	46.14	46.05	---	---
MONTH	41.89	39.35	43.93	39.41	45.58	43.49	45.97	45.56	46.18	45.88	46.29	45.90
YEAR	46.29	39.00										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

149

MARYLAND--Continued

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 Rd.,
0.3 mi north of Aquahart Rd. intersection.

Owner: U.S. Geological Survey.

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

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 chalked steel tape by U.S. Geological Survey personnel.

Equipped with digital water-level recorder--30-minute recorder interval from October 1984 to current year.

DATUM.--Elevation of land surface is 68.89 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder platform, 2.7 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.

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.

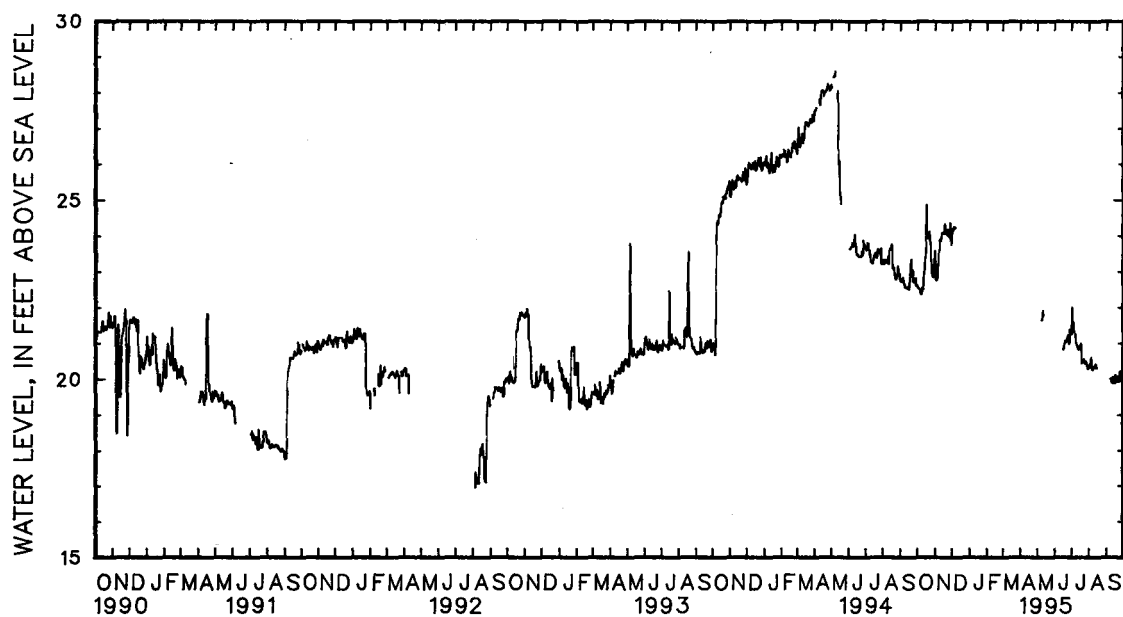
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.84	22.61	23.87	23.36	24.72	24.04	---	---	---	---	---	---
2	22.72	22.53	23.44	22.77	24.76	24.11	---	---	---	---	---	---
3	22.74	22.52	23.07	22.76	25.05	24.21	---	---	---	---	---	---
4	22.64	22.51	23.30	22.76	24.95	24.18	---	---	---	---	---	---
5	22.59	22.44	23.38	22.82	24.94	24.25	---	---	---	---	---	---
6	22.55	22.37	24.95	23.20	24.88	24.23	---	---	---	---	---	---
7	22.68	22.36	24.53	23.56	24.94	24.22	---	---	---	---	---	---
8	22.61	22.41	24.66	23.59	---	---	---	---	---	---	---	---
9	22.88	22.54	25.16	23.89	---	---	---	---	---	---	---	---
10	22.84	22.50	24.88	23.88	---	---	22.26	22.11	---	---	---	---
11	23.79	22.57	24.52	23.87	---	---	---	---	---	---	---	---
12	23.88	22.90	24.78	23.91	---	---	---	---	---	---	---	---
13	24.03	23.01	24.82	24.08	---	---	---	---	---	---	---	---
14	24.14	23.38	24.56	24.08	---	---	---	---	---	---	---	---
15	25.63	23.52	24.80	24.09	---	---	---	---	---	---	---	---
16	26.21	24.86	24.72	24.06	---	---	---	---	---	---	---	---
17	25.28	23.99	24.76	24.06	---	---	---	---	---	---	---	---
18	25.13	23.94	24.97	24.33	---	---	---	---	---	---	---	---
19	24.76	23.96	25.05	24.12	---	---	---	---	---	---	---	---
20	25.03	23.94	24.62	24.06	---	---	---	---	---	---	---	---
21	25.64	23.96	25.02	24.06	---	---	---	---	---	---	---	---
22	24.96	24.11	24.92	24.16	---	---	---	---	---	---	---	---
23	25.20	23.88	24.58	24.03	---	---	---	---	---	---	---	---
24	24.22	23.35	24.83	23.99	---	---	---	---	---	---	---	---
25	24.91	23.28	24.98	24.16	---	---	---	---	---	---	---	---
26	23.35	22.96	24.97	24.04	---	---	---	---	---	---	---	---
27	23.44	22.88	24.80	23.98	---	---	---	---	---	---	---	---
28	23.25	22.85	25.02	24.36	---	---	---	---	---	---	---	---
29	23.65	22.85	24.80	23.74	---	---	---	---	---	---	---	---
30	24.91	23.35	24.73	23.85	---	---	---	---	---	---	---	---
31	24.99	23.58	---	---	---	---	---	---	---	---	---	---
MONTH	26.21	22.36	25.16	22.76	25.05	24.04	22.26	22.11	---	---	---	---

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Bd 156--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	22.77	21.25	20.58	20.37	---	---
2	---	---	---	---	---	---	23.16	22.00	20.56	20.32	---	---
3	---	---	---	---	---	---	22.31	21.44	20.71	20.34	---	---
4	---	---	---	---	---	---	22.41	21.58	20.72	20.41	---	---
5	---	---	---	---	---	---	22.79	21.36	20.82	20.58	---	---
6	---	---	---	---	---	---	22.54	21.31	20.71	20.37	---	---
7	---	---	---	---	---	---	21.31	21.24	20.54	20.26	---	---
8	---	---	---	---	---	---	21.26	21.08	20.36	20.25	20.07	19.99
9	---	---	21.69	21.63	---	---	21.08	20.99	20.39	20.29	20.06	19.93
10	---	---	22.04	21.69	---	---	21.06	20.94	20.40	20.34	20.41	19.89
11	---	---	22.49	21.90	---	---	21.08	20.91	20.39	20.32	20.24	19.89
12	---	---	22.07	21.77	---	---	20.94	20.83	20.44	20.32	20.04	19.88
13	---	---	---	---	---	---	20.88	20.82	20.72	20.40	20.57	20.04
14	---	---	---	---	---	---	20.96	20.82	20.48	20.33	20.14	19.96
15	---	---	---	---	21.02	20.82	21.09	20.89	20.34	20.30	20.08	19.89
16	---	---	---	---	20.89	20.81	21.29	20.90	---	---	20.22	19.88
17	---	---	---	---	21.01	20.84	21.36	20.97	---	---	21.11	20.10
18	---	---	---	---	21.05	20.97	21.26	20.94	---	---	20.42	19.94
19	---	---	---	---	21.19	21.05	21.06	20.43	---	---	20.14	19.93
20	---	---	---	---	21.23	21.04	20.59	20.45	---	---	20.42	19.95
21	---	---	---	---	21.32	21.02	20.66	20.48	---	---	20.54	20.05
22	---	---	---	---	21.55	21.05	20.73	20.47	---	---	20.43	19.92
23	---	---	---	---	21.66	21.14	20.89	20.54	---	---	20.86	19.92
24	---	---	---	---	21.81	21.19	20.55	20.44	---	---	21.09	20.00
25	---	---	---	---	21.63	21.22	20.56	20.41	---	---	21.02	20.19
26	---	---	---	---	21.23	20.97	20.72	20.48	---	---	20.96	20.20
27	---	---	---	---	22.28	21.00	20.65	20.47	---	---	21.12	20.20
28	---	---	---	---	21.92	21.36	20.72	20.41	---	---	21.30	20.14
29	---	---	---	---	23.08	21.24	20.67	20.39	---	---	20.91	20.10
30	---	---	---	---	22.92	21.37	20.65	20.27	---	---	20.84	20.09
31	---	---	---	---	---	---	20.77	20.30	---	---	---	---
MONTH	---	---	22.49	21.63	23.08	20.81	23.16	20.27	20.82	20.25	21.30	19.88
YEAR	26.21	19.88										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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MARYLAND--Continued

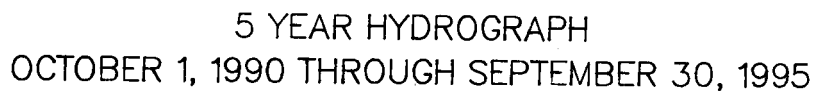
ANNE ARUNDEL COUNTY--Continued

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.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PFSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from March 1985 to current year.
 DATUM.--Elevation of land surface is 75.75 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.5 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.
 PERIOD OF RECORD.--March 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.55 ft above sea level, Jan. 31, 1991;
 lowest measured, 32.95 ft above sea level, Oct. 2, 1992.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	36.16	36.10	36.47	36.28	36.96	36.79	36.14	35.97	35.98	35.91	36.01	35.89
2	36.12	35.99	36.28	35.98	37.00	36.80	36.18	35.89	35.93	35.81	35.89	35.82
3	36.02	35.96	36.02	35.93	37.09	36.86	35.94	35.86	35.82	35.76	35.92	35.81
4	36.01	35.96	36.03	35.93	37.09	36.88	35.97	35.80	36.13	35.82	35.92	35.83
5	35.99	35.93	36.13	35.95	37.20	36.94	35.80	35.73	36.03	35.83	35.93	35.84
6	35.96	35.88	36.50	36.13	37.12	36.96	36.05	35.75	35.89	35.79	35.93	35.87
7	35.92	35.88	36.40	36.30	37.18	36.90	36.13	35.91	35.80	35.77	35.93	35.86
8	35.95	35.87	36.53	36.34	36.99	36.82	35.91	35.83	35.79	35.70	36.08	35.93
9	36.04	35.94	36.70	36.48	37.03	36.82	35.88	35.78	35.81	35.69	36.06	35.82
10	36.00	35.92	36.67	36.57	37.16	36.91	35.78	35.71	35.96	35.80	35.82	35.75
11	36.15	35.96	36.76	36.56	37.24	36.90	35.93	35.71	35.92	35.85	35.92	35.77
12	36.22	36.09	36.87	36.63	36.96	36.82	35.90	35.84	36.24	35.92	35.91	35.84
13	36.40	36.14	36.95	36.75	37.01	36.82	35.86	35.78	36.37	36.10	35.90	35.81
14	36.46	36.37	36.86	36.76	37.04	36.84	36.03	35.78	36.55	36.30	35.83	35.78
15	36.52	36.25	36.94	36.75	37.07	36.84	36.23	35.91	36.52	36.36	35.89	35.79
16	36.39	36.25	36.90	36.74	37.03	36.58	36.19	36.02	36.53	36.42	35.89	35.84
17	36.54	36.32	36.94	36.74	36.58	36.39	36.09	35.93	36.42	36.36	35.87	35.78
18	36.58	36.41	37.04	36.83	36.44	36.28	35.93	35.86	36.40	36.12	35.78	35.75
19	36.60	36.45	37.05	36.80	36.54	36.14	36.01	35.86	36.37	36.10	35.76	35.73
20	36.71	36.53	36.89	36.77	36.21	36.03	36.31	36.01	36.60	36.17	35.88	35.73
21	36.61	36.50	36.99	36.77	36.06	36.01	36.33	36.07	36.40	36.09	35.94	35.88
22	36.66	36.58	37.07	36.77	36.08	36.01	36.14	35.99	36.16	36.02	35.92	35.86
23	36.83	36.57	36.97	36.78	36.20	36.08	36.03	35.96	36.18	36.02	36.24	35.86
24	36.59	36.37	37.02	36.78	36.35	36.16	35.96	35.84	36.21	35.92	35.93	35.76
25	36.69	36.29	37.13	36.91	36.23	36.02	35.84	35.81	36.07	35.91	35.79	35.73
26	36.29	36.12	37.08	36.84	36.02	35.92	35.87	35.81	36.03	35.84	35.75	35.69
27	36.14	36.03	37.06	36.81	36.01	35.92	35.84	35.80	36.03	35.84	35.75	35.72
28	36.05	36.00	37.25	37.01	36.07	35.97	35.86	35.81	36.22	35.97	35.85	35.71
29	36.16	36.00	37.08	36.69	36.00	35.83	35.94	35.81	---	---	35.74	35.69
30	36.48	36.16	36.94	36.75	35.90	35.80	36.00	35.87	---	---	35.74	35.68
31	36.63	36.37	---	---	35.97	35.80	35.95	35.93	---	---	35.83	35.68
MONTH	36.83	35.87	37.25	35.93	37.24	35.80	36.33	35.71	36.60	35.69	36.24	35.68

Daily Low Water Levels



GROUND-WATER LEVELS

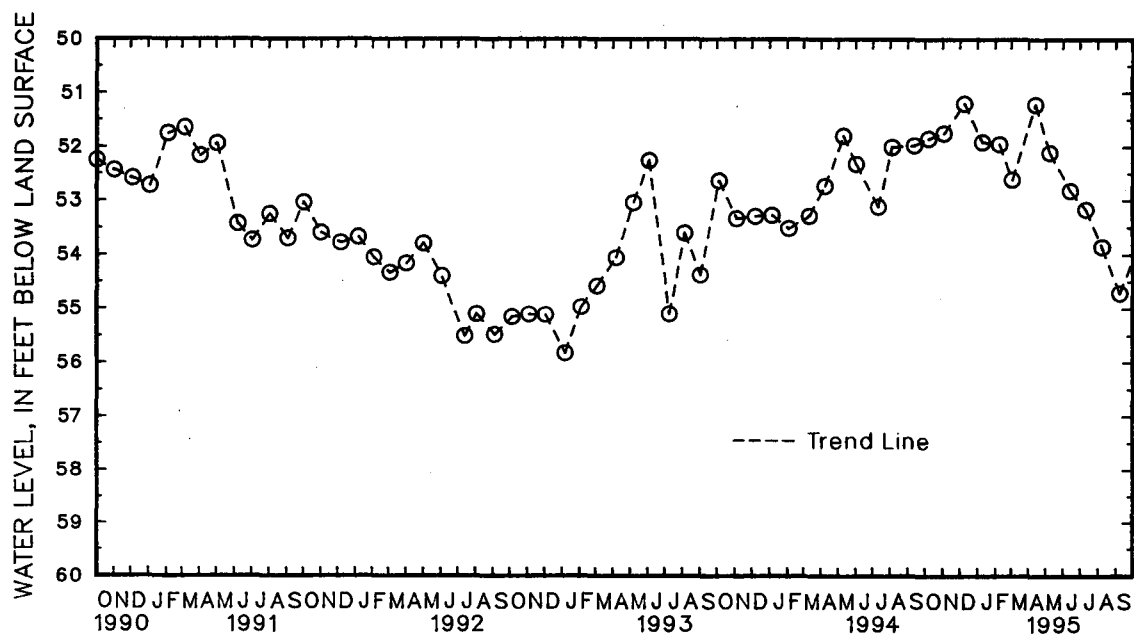
MARYLAND--Continued

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 Rd.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from January 1985 to current year.
 DATUM.--Elevation of land surface is 108.25 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.6 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels affected by nearby pumping.
 PERIOD OF RECORD.--January 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.23 ft below land surface, Jan. 11, 1985;
 lowest measured, 55.90 ft below land surface, Sept. 14, 1987 and Jan. 15, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	51.85	DEC 9	51.20	FEB 8	51.96	APR 13	51.22	JUN 14	52.84	AUG 8	53.89
NOV 3	51.75	JAN 9	51.92	MAR 2	52.63	MAY 8	52.12	JUL 11	53.19	SEP 7	54.75
WATER YEAR 1995		HIGHEST	51.20	DEC 9, 1994	LOWEST	54.75	SEP 7, 1995				



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

155

MARYLAND--Continued

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 Rd.,
 0.41 mi. east of WB & A Rd.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from April 1985 to current year.
 DATUM.--Elevation of land surface is 88 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.5 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.95 ft above sea level, March 21, 1995;
 lowest measured, 68.57 ft above sea level, Oct. 7, 1986.

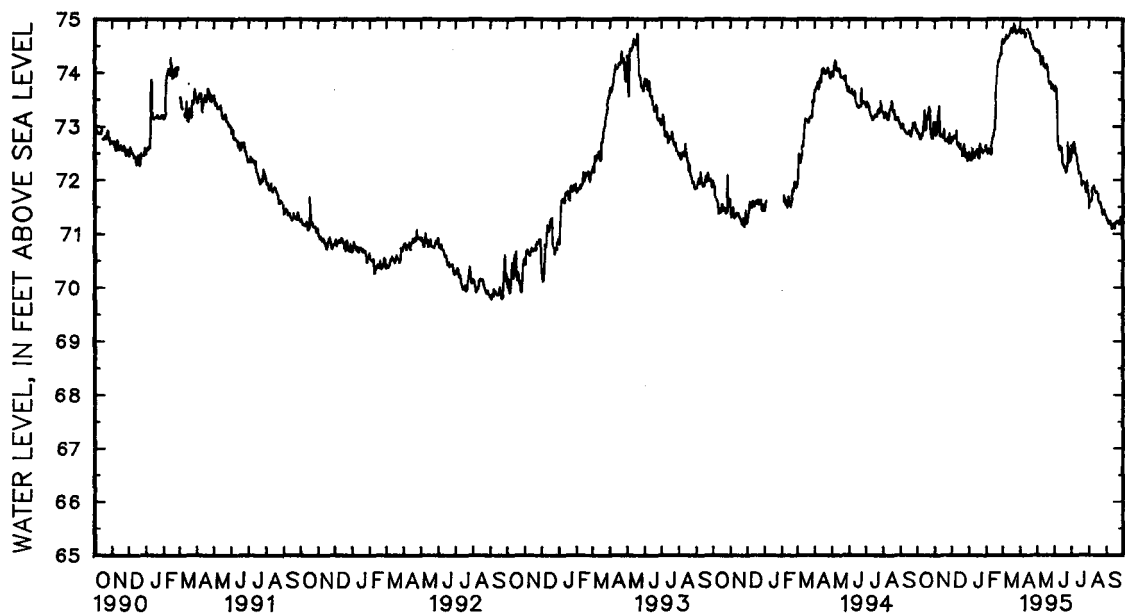
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	72.97	72.94	73.27	73.08	73.02	72.68	72.82	72.51	72.77	72.63	74.67	74.62
2	72.97	72.87	73.15	72.84	73.06	72.79	72.83	72.43	72.67	72.51	74.62	74.58
3	72.96	72.87	72.93	72.83	73.18	72.75	72.55	72.40	72.54	72.48	74.59	74.55
4	72.95	72.87	73.02	72.83	73.10	72.73	72.61	72.41	72.95	72.54	74.60	74.58
5	72.89	72.82	73.13	72.88	73.17	72.76	72.41	72.36	72.90	72.56	74.65	74.58
6	72.89	72.77	73.44	73.09	73.15	72.81	72.65	72.38	72.69	72.52	74.69	74.65
7	72.87	72.76	73.35	73.18	73.24	72.78	72.82	72.58	72.55	72.51	74.70	74.65
8	72.92	72.76	73.45	73.26	73.06	72.78	72.60	72.47	72.54	72.47	74.86	74.70
9	73.00	72.85	73.52	73.38	73.09	72.81	72.60	72.46	72.95	72.47	74.85	74.67
10	72.95	72.82	73.50	73.09	73.19	72.91	72.46	72.41	72.93	72.66	74.67	74.64
11	73.20	72.88	73.20	72.82	73.25	72.73	72.66	72.41	72.94	72.74	74.72	74.67
12	73.32	73.02	73.22	72.82	72.93	72.65	72.82	72.51	73.28	72.80	74.72	74.68
13	73.33	73.06	73.20	72.84	73.02	72.64	72.62	72.48	73.19	72.80	74.75	74.70
14	73.49	73.30	73.08	72.80	73.08	72.68	72.78	72.47	73.31	72.90	74.79	74.74
15	73.58	72.97	73.15	72.80	72.77	72.58	72.97	72.56	73.25	72.94	74.84	74.79
16	73.19	72.93	73.12	72.78	72.65	72.58	72.87	72.56	73.54	73.14	74.86	74.83
17	73.31	72.94	73.12	72.78	72.73	72.60	72.70	72.47	73.80	73.54	74.85	74.77
18	73.49	73.11	73.23	72.94	72.86	72.65	72.47	72.41	73.94	73.80	74.78	74.75
19	73.51	73.19	73.23	72.77	73.05	72.56	72.61	72.40	74.12	73.94	74.78	74.76
20	73.57	73.21	73.03	72.72	72.56	72.44	72.91	72.59	74.32	74.12	74.91	74.77
21	73.48	73.25	72.97	72.71	72.55	72.44	73.01	72.67	74.35	74.23	74.95	74.91
22	73.58	73.36	73.16	72.74	72.60	72.46	72.88	72.60	74.26	74.20	74.91	74.87
23	73.67	73.30	73.03	72.72	72.76	72.57	72.73	72.58	74.42	74.26	74.91	74.86
24	73.40	73.08	73.10	72.71	72.96	72.66	72.61	72.51	74.44	74.32	74.86	74.77
25	73.48	72.96	73.16	72.78	72.85	72.51	72.56	72.50	74.38	74.32	74.77	74.74
26	73.01	72.85	73.15	72.72	72.57	72.43	72.64	72.52	74.41	74.36	74.77	74.73
27	72.93	72.79	73.08	72.68	72.60	72.42	72.59	72.53	74.57	74.36	74.81	74.76
28	72.87	72.77	73.25	72.87	72.65	72.48	72.64	72.54	74.70	74.57	74.82	74.78
29	73.07	72.77	73.11	72.77	72.56	72.36	72.85	72.55	---	---	74.80	74.77
30	73.39	73.07	73.05	72.68	72.52	72.36	72.81	72.56	---	---	74.84	74.80
31	73.46	73.08	---	---	72.65	72.36	72.70	72.64	---	---	74.86	74.81
MONTH	73.67	72.76	73.52	72.68	73.25	72.36	73.01	72.36	74.70	72.47	74.95	74.55

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Bd 160--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	74.83	74.81	74.46	74.42	73.70	73.66	73.00	72.63	71.74	71.46	71.37	71.28
2	74.82	74.76	74.48	74.42	73.75	73.67	73.08	72.63	71.70	71.60	71.30	71.23
3	74.89	74.74	74.42	74.37	73.77	73.74	73.02	72.53	71.68	71.59	71.29	71.24
4	74.94	74.80	74.42	74.38	73.77	73.70	72.88	72.50	71.67	71.59	71.29	71.18
5	74.80	74.75	74.47	74.40	73.72	73.69	73.04	72.69	71.69	71.60	71.24	71.17
6	74.86	74.75	74.40	74.31	73.76	73.17	73.13	72.70	72.16	71.69	71.25	71.21
7	74.87	74.79	74.31	74.22	73.17	72.83	73.15	72.67	72.02	71.84	71.29	71.22
8	74.85	74.79	74.22	74.15	72.85	72.66	72.99	72.49	71.87	71.83	71.30	71.22
9	74.88	74.74	74.23	74.18	72.66	72.55	72.89	72.46	71.90	71.86	71.26	71.17
10	74.74	74.67	74.32	74.23	73.03	72.55	72.88	72.45	71.92	71.88	71.20	71.09
11	74.73	74.68	74.35	74.30	72.81	72.62	72.77	72.34	71.89	71.85	71.14	71.08
12	74.94	74.73	74.30	74.22	72.65	72.60	72.71	72.28	71.85	71.75	71.17	71.12
13	---	---	74.22	74.12	72.78	72.59	72.66	72.24	71.84	71.77	71.22	71.17
14	74.92	74.81	74.18	74.11	72.80	72.46	72.24	72.11	71.80	71.76	71.25	71.17
15	74.83	74.80	74.20	74.13	72.46	72.29	72.59	72.13	72.21	71.76	71.17	71.09
16	74.81	74.78	74.13	74.08	72.30	72.27	72.14	72.12	71.90	71.76	71.20	71.09
17	74.78	74.74	74.20	74.12	72.29	72.26	72.16	72.12	71.78	71.64	71.40	71.20
18	74.77	74.73	74.17	74.15	72.30	72.22	72.16	72.05	71.64	71.59	71.32	71.20
19	74.82	74.74	74.17	74.11	72.32	72.22	72.05	71.89	71.59	71.56	71.27	71.19
20	74.74	74.64	74.11	74.03	72.32	72.23	71.97	71.88	71.61	71.56	71.26	71.23
21	74.71	74.64	74.03	73.96	72.23	72.13	71.99	71.96	71.59	71.57	71.26	71.22
22	74.67	74.57	73.96	73.84	72.19	72.13	71.98	71.95	71.58	71.51	71.30	71.22
23	74.58	74.54	73.85	73.79	72.27	72.19	71.99	71.94	71.53	71.48	71.23	71.17
24	74.65	74.58	73.84	73.79	72.69	72.27	71.96	71.93	71.48	71.39	71.23	71.17
25	74.61	74.49	73.88	73.82	73.13	72.69	72.03	71.91	71.39	71.34	71.32	71.23
26	74.49	74.44	73.84	73.80	73.16	72.45	71.93	71.82	71.44	71.38	71.34	71.30
27	74.55	74.45	73.80	73.70	72.64	72.32	71.82	71.76	71.48	71.40	71.31	71.27
28	74.54	74.44	73.77	73.70	72.79	72.36	72.02	71.76	71.48	71.43	71.28	71.22
29	74.44	74.40	73.85	73.77	72.77	72.36	72.46	71.97	71.44	71.36	71.22	71.21
30	74.48	74.40	73.84	73.74	72.86	72.41	72.43	71.89	71.39	71.33	71.23	71.21
31	---	---	73.74	73.69	---	---	71.89	71.74	71.41	71.32	---	---
MONTH	74.94	74.40	74.48	73.69	73.77	72.13	73.15	71.74	72.21	71.32	71.40	71.08
YEAR	74.95	71.08										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Dug, brick-lined, unused, water-table well, diameter 48 in., depth 22.8 ft.

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

DATUM.--Elevation of land surface is 20.38 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in concrete cover at land surface.

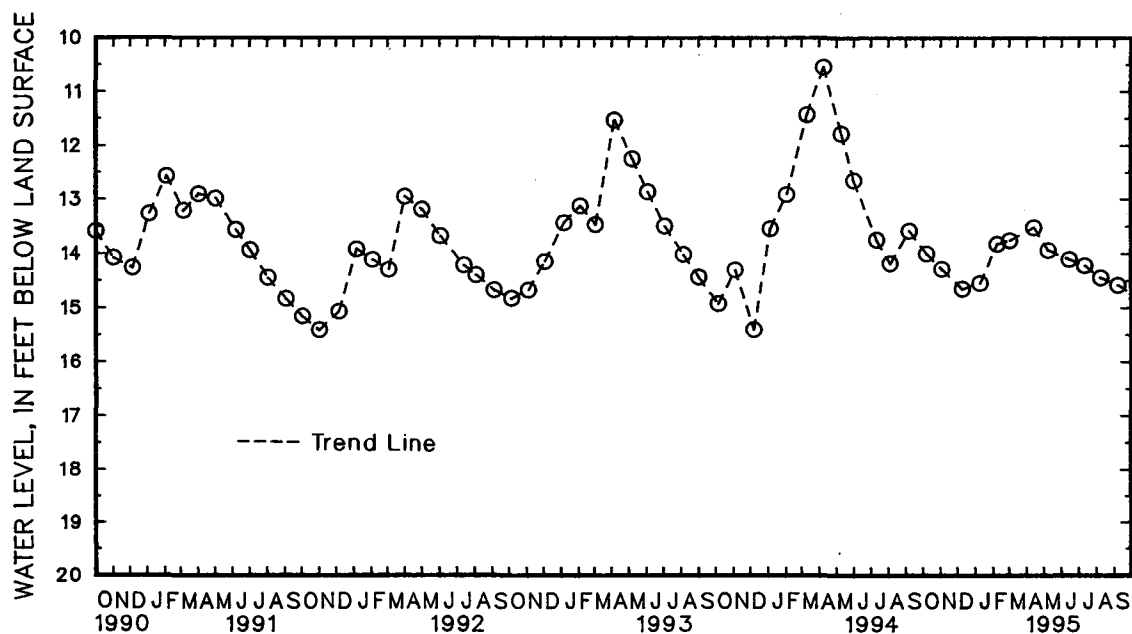
REMARKS.--Maryland Water-Level Network observation well. Water level measured 14.10 ft below land surface, Jan. 27, 1944.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	14.03	DEC 9	14.69	FEB 8	13.84	APR 13	13.53	JUN 14	14.13	AUG 8	14.48
NOV 3	14.32	JAN 9	14.58	MAR 2	13.77	MAY 8	13.96	JUL 11	14.25	SEP 7	14.62
WATER YEAR 1995		HIGHEST	13.53	APR 13, 1995		LOWEST	14.69	DEC 9, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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. Army.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTKN.

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 chalked steel 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 National Geodetic Vertical Datum of 1929.

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 nearby pumping.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--March 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.40 ft above sea level, May 1, 1962; lowest measured, 33.16 ft above sea level, Aug. 10, 1987.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	54.18	54.01	55.34	55.12	55.94	55.76	56.07	55.91	55.78	55.66	56.01	55.94
2	54.18	54.11	55.25	55.03	55.80	55.71	56.10	55.95	55.78	55.71	55.94	55.83
3	54.19	54.10	55.07	55.00	55.75	55.69	55.99	55.94	55.80	55.67	55.83	55.74
4	54.16	54.07	55.03	54.99	55.76	55.69	55.99	55.97	56.11	55.80	55.74	55.72
5	54.25	54.14	55.04	54.98	55.98	55.76	55.97	55.86	56.11	56.03	55.83	55.72
6	54.24	54.19	55.16	55.03	55.89	55.75	56.21	55.86	56.03	56.03	55.88	55.83
7	54.26	54.19	55.06	54.97	55.75	55.50	56.30	56.08	56.03	56.02	55.99	55.88
8	54.38	54.23	55.22	55.00	55.50	55.27	56.08	55.85	56.04	56.03	56.22	55.99
9	54.53	54.38	55.35	55.22	55.33	55.25	55.85	55.67	56.06	56.03	56.22	56.05
10	54.51	54.46	55.35	55.22	55.56	55.29	55.67	55.57	56.13	56.06	56.05	55.75
11	54.46	54.42	55.22	55.18	55.58	55.32	55.65	55.58	56.13	56.04	55.75	55.47
12	54.45	54.40	55.34	55.21	55.32	55.26	55.77	55.65	56.04	55.89	55.47	55.15
13	54.53	54.45	55.43	55.34	55.35	55.29	55.74	55.62	55.89	55.82	55.15	54.94
14	54.62	54.53	55.50	55.41	55.40	55.34	55.64	55.62	55.87	55.84	54.94	54.79
15	54.62	54.58	55.61	55.50	55.40	55.34	55.78	55.64	55.98	55.84	54.87	54.79
16	54.68	54.59	55.66	55.58	55.43	55.34	55.76	55.61	55.99	55.97	54.88	54.81
17	54.77	54.68	55.74	55.63	55.59	55.43	55.81	55.39	55.97	55.88	54.87	54.79
18	54.92	54.77	55.88	55.74	55.70	55.58	55.39	55.28	55.88	55.79	54.89	54.79
19	55.00	54.90	55.85	55.79	55.62	55.55	55.49	55.28	55.79	55.77	54.98	54.88
20	55.02	54.95	55.84	55.79	55.59	55.54	55.76	55.49	55.97	55.77	55.27	54.98
21	54.95	54.91	56.18	55.83	55.62	55.55	55.73	55.47	55.99	55.86	55.44	55.27
22	54.96	54.90	56.16	56.04	55.77	55.61	55.47	55.20	55.86	55.78	55.49	55.44
23	55.05	54.95	56.14	56.03	55.89	55.77	55.20	55.11	55.94	55.80	55.58	55.48
24	54.98	54.94	56.07	55.98	55.99	55.89	55.11	55.03	55.98	55.77	55.57	55.50
25	54.96	54.88	56.09	56.05	55.91	55.76	55.06	55.03	55.82	55.76	55.56	55.50
26	54.88	54.82	56.05	55.90	55.76	55.67	55.12	55.06	55.83	55.73	55.61	55.53
27	54.82	54.78	56.09	55.84	55.78	55.69	55.22	55.11	55.89	55.73	55.68	55.59
28	54.83	54.78	56.29	56.09	55.92	55.78	55.30	55.19	56.05	55.89	55.72	55.65
29	54.90	54.82	56.14	56.03	55.86	55.72	55.31	55.28	---	---	55.74	55.68
30	54.96	54.88	56.07	55.93	55.75	55.69	55.53	55.31	---	---	55.83	55.73
31	55.12	54.94	---	---	55.91	55.70	55.66	55.53	---	---	55.86	55.80
MONTH	55.12	54.01	56.29	54.97	55.99	55.25	56.30	55.03	56.13	55.66	56.22	54.79

GROUND-WATER LEVELS

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MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ce 117. SITE ID.--390450076343402. PERMIT NUMBER.--AA-73-0172.
 LOCATION.--Lat 39°04'50", long 76°34'34", Hydrologic Unit 02060004, 0.1 mi southwest of intersection
 of Severndale Rd. and Southway Rd.
 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 0.5 ft above land surface.
 REMARKS.--Anne Arundel Co. observation well network. Water levels are affected by nearby pumping.
 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, 3.14 ft above sea level, Sept. 4, 1987.

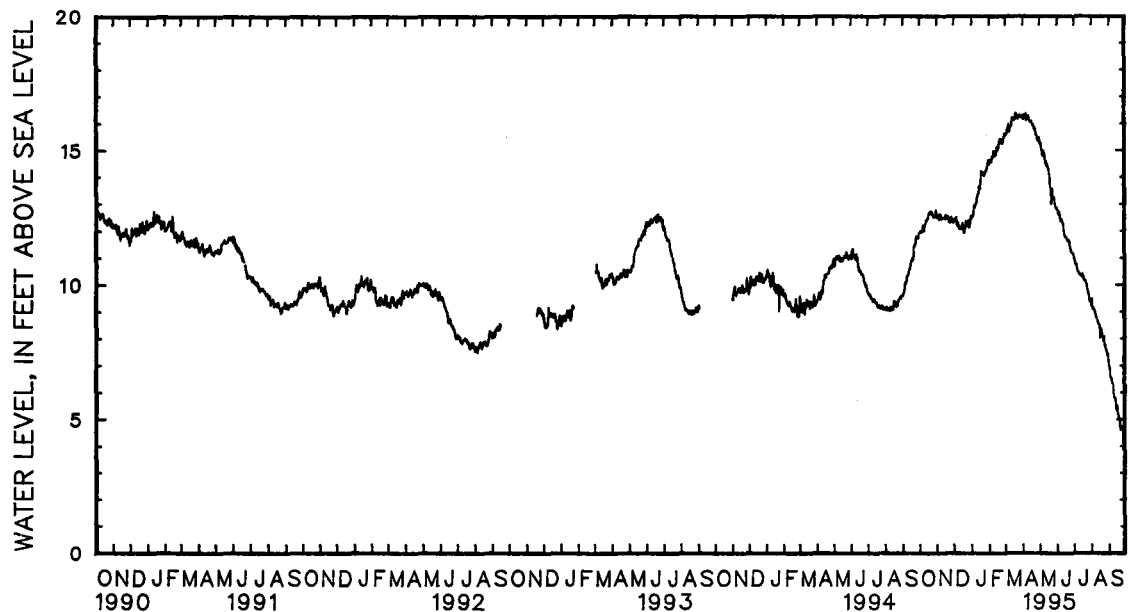
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.47	11.74	13.27	12.78	12.77	12.33	13.10	12.54	15.15	14.62	16.18	15.63
2	12.49	11.92	13.18	12.62	12.86	12.31	13.13	12.46	15.09	14.48	16.12	15.58
3	12.55	11.92	12.97	12.50	12.85	12.40	13.04	12.47	15.09	14.47	16.15	15.56
4	12.57	11.96	13.06	12.49	12.79	12.35	13.13	12.59	15.51	14.65	16.20	15.62
5	12.59	12.00	13.11	12.55	13.02	12.37	13.05	12.55	15.33	14.56	16.32	15.64
6	12.55	11.97	13.20	12.60	12.95	12.47	13.47	12.60	15.09	14.56	16.44	15.84
7	12.51	11.95	13.15	12.43	13.02	12.50	13.65	12.95	15.22	14.57	16.44	15.87
8	12.57	12.02	13.02	12.44	12.95	12.26	13.40	12.88	15.29	14.77	16.61	15.99
9	12.70	12.20	13.16	12.62	12.75	12.20	13.58	12.94	15.37	14.73	16.61	15.79
10	12.68	12.14	13.15	12.47	12.90	12.29	13.51	13.03	15.46	14.95	16.24	15.69
11	12.54	12.00	12.94	12.44	12.96	12.22	13.67	13.04	15.51	14.98	16.37	15.83
12	12.62	12.17	12.97	12.45	12.60	12.09	13.86	13.25	15.43	14.91	16.40	15.87
13	12.73	12.27	13.01	12.47	12.56	12.08	13.89	13.36	15.29	14.79	16.45	15.92
14	12.81	12.40	12.99	12.48	12.56	12.09	13.94	13.37	15.37	14.83	16.50	16.04
15	12.82	12.38	13.06	12.49	12.58	12.11	14.22	13.50	15.59	14.83	16.71	16.07
16	12.90	12.44	12.93	12.48	12.60	12.07	14.27	13.65	15.67	15.14	16.71	16.22
17	12.91	12.47	13.02	12.46	12.69	12.17	14.14	13.61	15.56	15.02	16.74	16.16
18	13.05	12.47	13.15	12.59	12.74	12.27	14.11	13.58	15.57	15.02	16.62	16.16
19	13.13	12.63	13.11	12.52	12.64	12.12	14.44	13.76	15.70	15.10	16.63	16.14
20	13.16	12.67	12.89	12.46	12.47	11.99	14.78	14.23	15.97	15.27	16.79	16.14
21	13.13	12.69	13.26	12.45	12.46	11.93	14.76	14.16	16.06	15.42	16.93	16.35
22	13.11	12.65	13.26	12.54	12.53	11.94	14.49	14.12	15.88	15.33	16.89	16.39
23	13.24	12.72	12.95	12.48	12.72	12.10	14.52	14.08	16.07	15.43	16.73	16.35
24	13.14	12.70	12.91	12.33	12.90	12.35	14.54	14.16	16.08	15.30	16.67	16.27
25	13.15	12.69	12.94	12.36	12.77	12.29	14.43	14.06	15.86	15.30	16.57	16.19
26	13.08	12.60	12.86	12.31	12.71	12.19	14.51	14.10	15.89	15.25	16.58	16.19
27	12.98	12.53	12.84	12.32	12.72	12.23	14.56	14.14	15.91	15.32	16.63	16.28
28	12.94	12.51	13.21	12.50	12.87	12.37	14.68	14.23	16.19	15.48	16.70	16.27
29	12.97	12.53	13.11	12.40	12.81	12.18	14.65	14.24	---	---	16.80	16.33
30	12.95	12.53	12.94	12.42	12.62	12.13	14.83	14.33	---	---	16.78	16.27
31	13.08	12.54	---	---	12.83	12.26	14.98	14.46	---	---	16.76	16.27
MONTH	13.24	11.74	13.27	12.31	13.02	11.93	14.98	12.46	16.19	14.47	16.93	15.56

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Ce 117--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.73	16.24	15.87	15.33	13.29	12.83	11.62	11.14	9.79	9.37	7.78	7.38
2	16.75	16.29	15.96	15.47	13.24	12.84	11.58	11.02	9.75	9.35	7.58	7.15
3	16.72	16.20	15.80	15.31	13.24	12.78	11.39	10.94	9.64	9.20	7.37	6.99
4	16.92	16.31	15.69	15.23	13.17	12.76	11.32	10.87	9.56	9.46	7.26	6.91
5	16.60	16.17	15.68	15.25	13.05	12.61	11.25	10.76	9.53	9.08	7.13	6.77
6	16.68	16.21	15.56	15.02	13.15	12.69	11.19	10.71	9.67	9.10	7.05	6.53
7	16.74	16.32	15.38	14.99	13.15	12.67	11.22	10.73	9.55	9.05	6.94	6.53
8	16.81	16.28	15.36	14.84	13.08	12.58	11.20	10.59	9.48	9.05	6.91	6.51
9	16.89	16.37	15.27	14.79	12.88	12.37	11.06	10.48	9.44	8.99	6.75	6.36
10	16.72	16.13	15.39	14.96	12.76	12.35	11.05	10.48	9.36	8.88	6.64	6.26
11	16.54	16.18	15.45	14.88	12.82	12.41	11.07	10.45	9.29	8.79	6.34	5.84
12	16.72	16.19	15.33	14.80	12.84	12.38	10.97	10.38	9.20	8.77	6.25	5.80
13	16.81	16.30	15.20	14.62	12.73	12.27	10.90	10.39	9.10	8.61	6.22	5.77
14	16.66	16.22	15.12	14.52	12.67	12.23	10.88	10.35	9.04	8.55	6.08	5.76
15	16.53	16.11	15.15	14.57	12.50	11.99	10.76	10.32	8.95	8.52	5.92	5.43
16	16.51	16.09	15.00	14.42	12.31	11.85	10.74	10.30	8.91	8.52	5.75	5.34
17	16.50	16.05	14.99	14.47	12.24	11.78	10.76	10.32	8.90	8.45	5.96	5.49
18	16.47	16.03	14.91	14.37	12.18	11.76	10.79	10.39	8.82	8.00	5.75	5.26
19	16.53	16.09	14.93	14.30	12.18	11.76	10.71	10.24	8.74	8.34	5.53	5.16
20	16.50	15.95	14.69	14.13	12.20	11.74	10.61	10.26	8.72	8.29	5.45	5.11
21	16.43	15.95	14.57	14.08	12.13	11.65	10.61	10.15	8.66	8.17	5.38	5.02
22	16.41	15.91	14.38	13.76	12.07	11.62	10.49	10.15	8.54	8.04	5.38	5.01
23	16.25	15.78	14.18	13.00	12.08	11.62	10.49	10.13	8.30	8.03	5.18	4.59
24	16.30	15.82	14.15	13.00	12.09	11.64	10.45	10.04	8.35	7.87	5.09	4.60
25	16.28	15.79	14.09	13.55	12.03	11.59	10.39	10.01	8.24	8.03	5.18	4.62
26	16.10	15.60	13.97	13.27	11.87	11.39	10.35	9.85	8.16	7.71	5.21	4.72
27	16.07	15.57	13.76	13.24	11.79	11.32	10.24	9.77	8.14	7.72	5.13	4.63
28	16.07	15.53	13.71	13.18	11.72	11.24	10.13	9.69	8.02	7.57	5.05	4.55
29	15.87	15.39	13.76	13.22	11.69	11.20	10.08	9.62	7.98	7.55	4.85	4.41
30	15.92	15.44	13.69	13.02	11.63	11.15	9.99	9.52	7.93	7.48	4.86	4.41
31	---	---	13.36	12.90	---	---	9.85	9.36	7.78	7.36	---	---
MONTH	16.92	15.39	15.96	12.90	13.29	11.15	11.62	9.36	9.79	7.36	7.78	4.41
YEAR	16.93	4.41										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

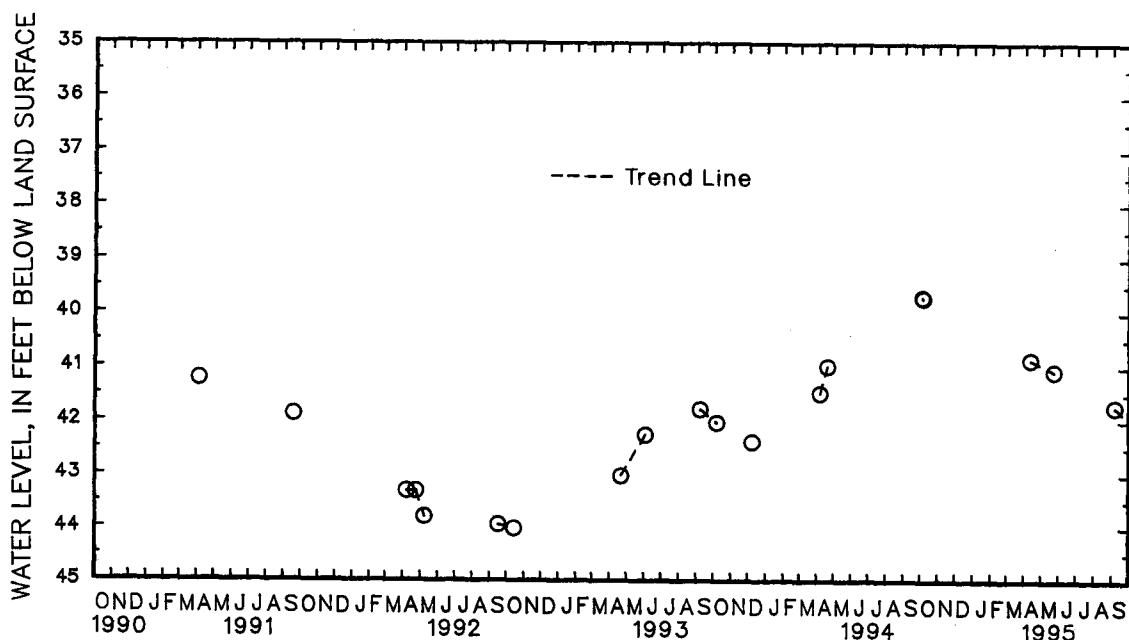
MARYLAND--Continued

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,
at Broad Neck.
Owner: Anne Arundel Co. Dept. of Recreation and Parks.
AQUIFER.--Savern 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.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 93.42 ft above National Geodetic Vertical Datum of 1929.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	39.70	OCT 5	39.72	APR 11	40.89	MAY 23	41.10	SEP 5	41.76
WATER YEAR 1995		HIGHEST	39.70	OCT 3, 1994		LOWEST	41.76	SEP 5, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

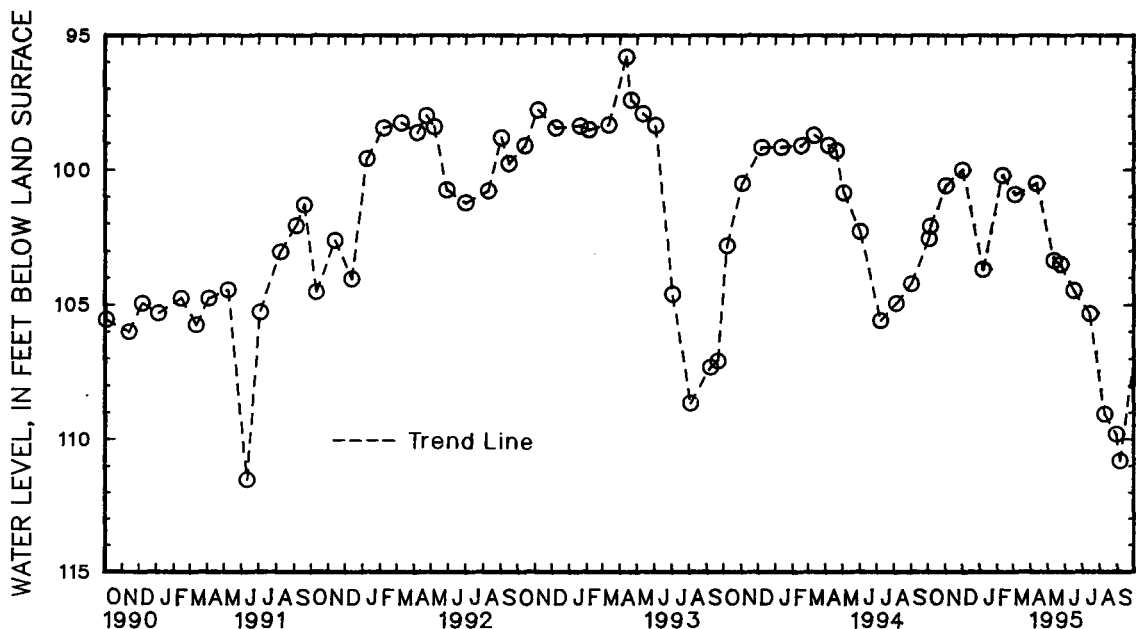
MARYLAND--Continued

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,
at 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 3.60 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Water levels affected by nearby pumping.
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, 115.65 ft below land surface, July 11, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER			WATER			WATER			WATER		
DATE		LEVEL	DATE		LEVEL	DATE		LEVEL	DATE		LEVEL
OCT	3	102.57	DEC	1	100.01	MAR	3	100.93	MAY	23	103.57
	5	102.11	JAN	6	103.76		11	100.53	JUN	16	104.53
NOV	2	100.60	FEB	10	100.22	APR	11	100.53	JUL	14	105.42
						MAY	11	103.43		5	110.89
WATER YEAR 1995			HIGHEST	100.01	DEC	1, 1994	LOWEST	110.89	SEP	5, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PFSC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 986 ft; casing diameter 10 in., to 163 ft;
 casing diameter 4 in., to 968 ft and 978 to 986 ft; screen diameter 4 in. from 968 to 978 ft.
 INSTRUMENTATION.-- 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 current year.
 DATUM.--Elevation of land surface is 12.57 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 3.43 ft above land surface.
 REMARKS.--Anne Arundel Co. observation well network. Water levels are affected by nearby pumping.
 Missing data due to recorder malfunction.
 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, 15.15 ft below sea level, Sept. 24, 1995.

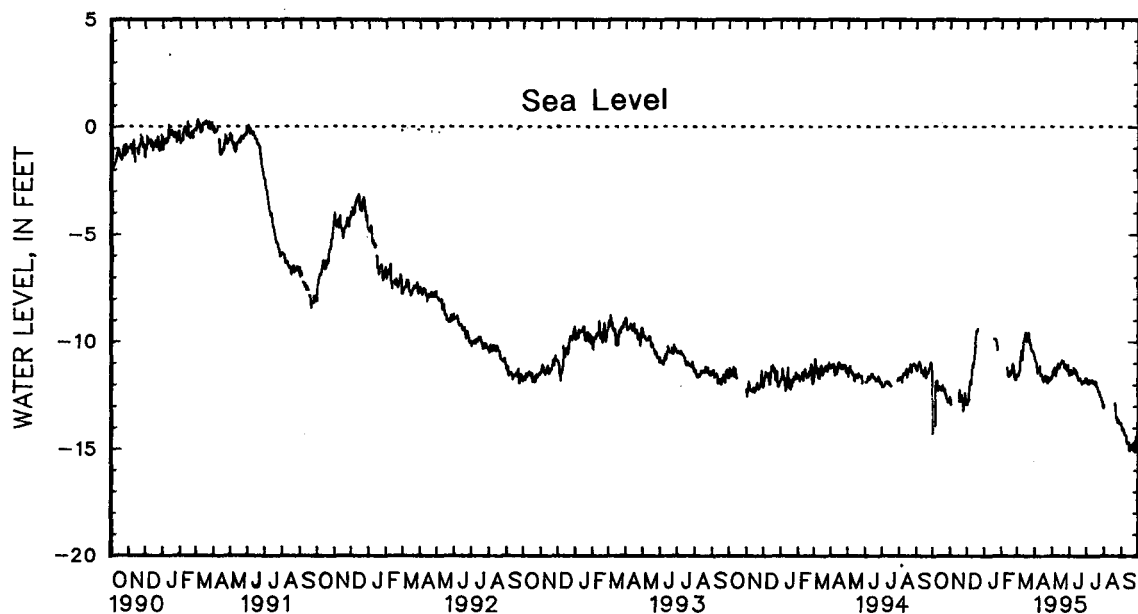
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-11.16	-14.28	-12.09	-12.60	-12.74	-12.95	---	---	---	---	-11.23	-11.52
2	-11.22	---	-12.31	-12.93	-12.49	-12.87	---	---	---	---	-11.38	-11.60
3	-11.22	---	---	---	-12.52	-12.74	---	---	---	---	-11.34	-11.59
4	-11.36	---	---	---	-12.41	-12.73	---	---	---	---	-11.23	-11.43
5	-11.48	-13.92	---	---	-11.85	-12.47	---	---	---	---	-10.88	-11.38
6	-11.65	-11.83	-12.31	-12.62	-11.76	-12.02	---	---	-11.07	-11.32	-10.60	-10.91
7	-11.74	-11.93	---	---	-11.51	-11.82	---	---	---	---	-10.42	-10.69
8	-11.79	-11.94	---	---	-11.56	-11.98	---	---	---	---	-10.00	-10.42
9	-11.66	-11.83	---	---	-11.26	-11.98	---	---	---	---	-10.12	-10.84
10	-11.67	-12.22	---	---	-10.83	-11.41	---	---	---	---	-10.38	-10.85
11	-12.11	-12.30	---	---	-10.71	-11.03	---	---	-10.99	-11.22	-10.02	-10.38
12	-12.05	-12.13	---	---	-10.99	-11.17	---	---	-11.08	-11.46	-9.92	-10.07
13	-12.00	-12.10	---	---	-10.61	-10.99	---	---	-11.39	-11.60	-9.74	-9.96
14	-11.95	-12.17	---	---	-10.27	-10.69	---	---	-11.41	-11.62	-9.67	-9.97
15	-12.07	-12.23	---	---	-10.03	-10.29	---	---	-11.26	-11.64	-9.42	-9.77
16	-11.93	-12.12	-12.54	-12.79	-9.76	-10.08	---	---	-11.11	-11.38	-9.37	-9.57
17	-12.07	-12.28	-12.23	-12.73	-9.39	-9.81	---	---	-11.36	-11.56	-9.32	-9.61
18	-11.90	-12.24	-12.07	-12.25	-9.22	-9.50	-9.82	-9.88	-11.34	-11.55	-9.57	-9.98
19	-11.91	-12.05	-12.21	-12.57	-9.31	-9.48	-9.88	-9.88	-11.20	-11.46	-9.50	-9.88
20	-12.01	-12.18	-12.57	-12.79	-9.22	-9.51	-9.88	-9.88	-10.89	-11.23	-9.41	-9.73
21	-12.14	-12.32	-12.00	-12.66	-9.23	-9.40	-9.88	-9.88	-10.82	-11.01	-9.22	-9.59
22	-12.12	-12.30	-12.00	-12.50	---	---	-9.88	-9.99	-11.01	-11.30	-9.53	-9.87
23	-12.12	-12.21	-12.50	-12.72	---	---	-9.99	-10.09	-10.85	-11.14	-9.80	-9.95
24	-12.20	-12.47	-12.72	-13.25	---	---	-10.09	-10.37	-10.96	-11.52	-9.95	-10.24
25	-12.27	-12.49	-12.63	-12.97	---	---	---	---	-11.38	-11.71	-10.21	-10.39
26	-12.47	-12.68	-12.72	-12.94	---	---	---	---	-11.35	-11.77	-10.26	-10.45
27	-12.59	-12.83	-12.38	-12.94	---	---	---	---	-11.43	-11.78	-10.27	-10.43
28	-12.67	-12.80	-12.02	-12.38	---	---	---	---	-11.11	-11.52	-10.21	-10.45
29	-12.60	-12.73	-12.19	-12.64	---	---	---	---	---	---	-10.32	-10.52
30	-12.64	-12.83	-12.56	-12.87	---	---	---	---	---	---	-10.33	-10.59
31	-12.50	-12.82	---	---	---	---	---	---	---	---	-10.46	-10.76
MONTH	-11.16	-14.28	-12.00	-13.25	-9.22	-12.95	-9.82	-10.37	-10.82	-11.78	-9.22	-11.60

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Cg 23--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-10.64	-10.84	-11.39	-11.64	-11.30	-11.48	-11.49	-11.70	-12.79	-12.97	-13.49	-13.82
2	-10.67	-10.83	-10.99	-11.39	-11.21	-11.38	-11.51	-11.80	---	---	-13.86	-14.12
3	-10.69	-10.95	-11.19	-11.30	-11.16	-11.31	-11.74	-11.94	---	---	-13.96	-14.13
4	-10.42	-11.19	-11.18	-11.31	-11.21	-11.53	-11.67	-11.81	---	---	-13.87	-14.05
5	-11.19	-11.49	-11.03	-11.21	-11.32	-11.53	-11.66	-11.98	---	---	-13.96	-14.13
6	-11.12	-11.31	-11.18	-11.47	-11.07	-11.37	-11.67	-11.79	---	---	-14.03	-14.25
7	-11.14	-11.35	-11.23	-11.59	---	---	-11.58	-11.81	---	---	-14.11	-14.34
8	-10.99	-11.32	-11.21	-11.47	-10.97	-11.24	-11.60	-11.90	---	---	---	---
9	-10.87	-11.12	-11.13	-11.39	-11.16	-11.45	-11.76	-11.93	---	---	-14.15	-14.38
10	-11.11	-11.57	-10.80	-11.13	-11.13	-11.36	-11.60	-11.88	---	---	-14.14	-14.54
11	-11.36	-11.56	-10.87	-11.02	-11.00	-11.30	-11.46	-11.79	---	---	-14.46	-14.77
12	-11.23	-11.53	-10.84	-11.10	-10.97	-11.37	-11.68	-11.92	---	---	-14.57	-14.76
13	-11.12	-11.53	-10.92	-11.23	-11.31	-11.54	-11.63	-11.87	---	---	---	---
14	-11.41	-11.76	-10.84	-11.23	-11.17	-11.44	-11.63	-11.85	---	---	-14.46	-14.71
15	-11.63	-11.80	-10.69	-11.04	-11.32	-11.63	-11.71	-11.90	---	---	-14.71	-15.07
16	-11.51	-11.87	-10.89	-11.07	-11.55	-11.74	-11.76	-12.00	---	---	-14.77	-15.11
17	-11.52	-11.70	-10.66	-10.96	-11.61	-11.79	-11.70	-11.87	---	---	-14.43	-14.85
18	-11.45	-11.65	-10.71	-10.87	-11.66	-11.79	-11.61	-11.86	---	---	-14.43	-14.81
19	-11.30	-11.60	-10.60	-10.87	-11.61	-11.73	-11.77	-12.09	-12.79	-12.93	-14.85	-15.01
20	-11.45	-11.84	-10.82	-10.98	-11.54	-11.71	-11.94	-12.09	-12.65	-12.87	-14.72	-15.00
21	-11.45	-11.78	-10.79	-10.93	-11.61	-11.83	-11.91	-12.19	-12.73	-13.06	-14.56	-14.79
22	-11.46	-11.66	-10.85	-11.18	-11.60	-11.83	-12.06	-12.30	-12.84	-13.55	-14.51	-14.74
23	-11.65	-11.95	-11.05	-11.22	-11.61	-11.96	-12.12	-12.31	-13.43	-13.64	-14.38	-15.08
24	-11.48	-11.85	-10.89	-11.07	-11.57	-11.90	-12.13	-12.38	-13.28	-13.53	-14.81	-15.15
25	-11.41	-11.69	-10.87	-11.28	-11.51	-11.87	-12.22	-12.48	-13.51	-13.80	-14.52	-14.81
26	-11.55	-11.82	---	---	-11.62	-11.83	-12.29	-12.58	-13.44	-13.74	-14.27	-14.62
27	-11.51	-11.79	-11.10	-11.36	-11.72	-11.90	-12.52	-12.71	-13.43	-13.64	-14.25	-14.44
28	-11.37	-11.76	-11.01	-11.18	-11.60	-11.90	-12.63	-12.81	-13.52	-13.80	-14.27	-14.48
29	-11.54	-11.76	-10.86	-11.09	-11.54	-11.72	-12.60	-12.78	-13.53	-13.84	-14.41	-14.67
30	-11.32	-11.64	-10.91	-11.40	-11.63	-11.80	-12.71	-13.04	-13.54	-13.82	-14.49	-14.72
31	---	---	-11.40	-11.57	---	---	-12.89	-13.10	-13.63	-13.79	---	---
MONTH	-10.42	-11.95	-10.60	-11.64	-10.97	-11.96	-11.46	-13.10	-12.65	-13.84	-13.49	-15.15
YEAR	-9.22	-15.15										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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, nr 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 17.33 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.43 ft above land surface.

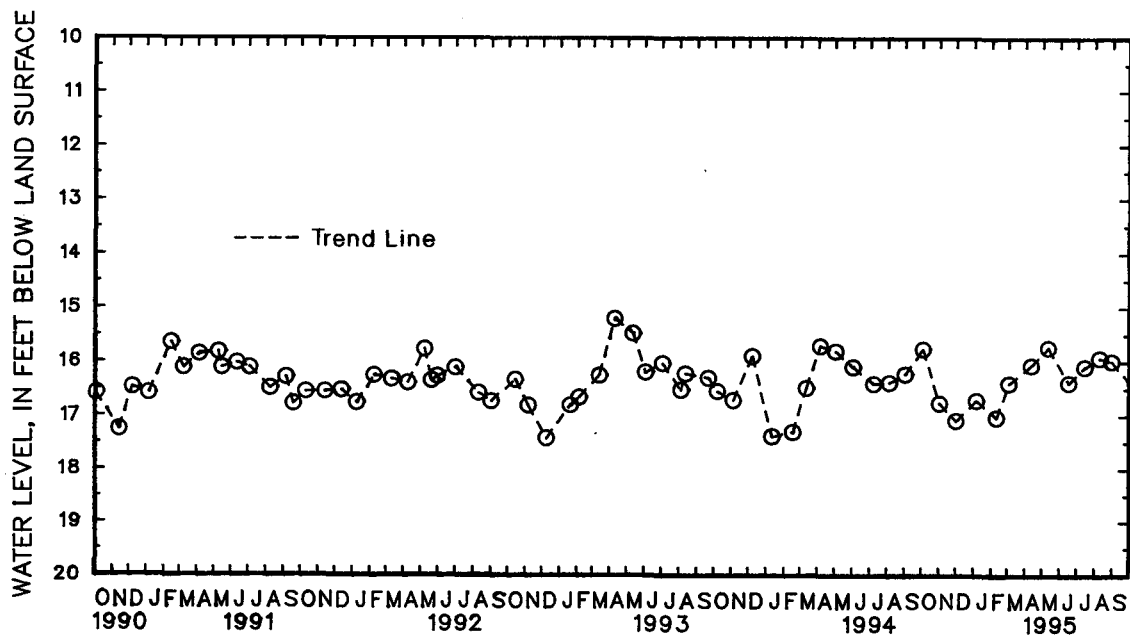
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 3	15.77	DEC 1	17.12	FEB 10	17.06	APR 11	16.07	JUN 16	16.41	AUG 9	15.94				
NOV 2	16.80	JAN 6	16.74	MAR 3	16.41	MAY 11	15.74	JUL 14	16.11		30	16.00			
WATER YEAR 1995		HIGHEST 15.74		MAY 11, 1995		LOWEST 17.12		DEC 1, 1994							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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MARYLAND--Continued

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 chalked steel tape by U.S. 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 current year.

DATUM.--Elevation of land surface is 13.72 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring Point: Top of recorder platform, 2.5 ft above land surface.

REMARKS.--Anne Arundel Co. observation well network. Water levels are affected by nearby pumping.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--May 1969 to current year.

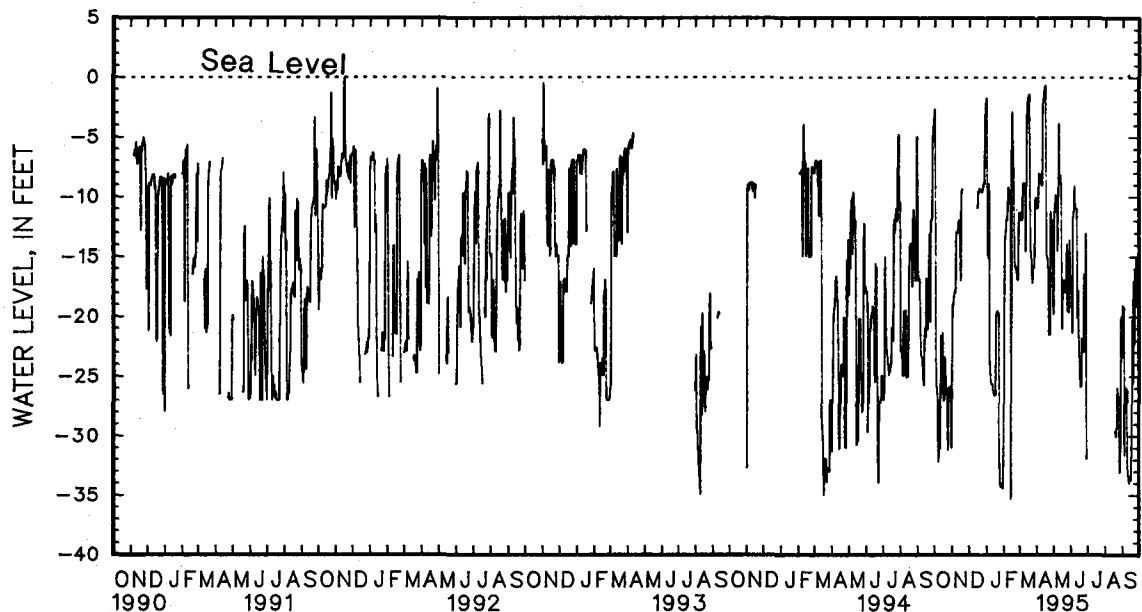
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.25 ft above sea level, Nov. 14, 1988;
lowest measured, 36.19 ft below sea level, Oct. 25, 1989.WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-2.52	-2.98	-9.24	-20.07	---	---	-1.37	-1.73	-12.47	-20.97	-5.54	-11.93
2	-2.30	-2.64	-8.59	-18.95	---	---	-1.31	-14.65	-7.88	-14.46	-5.67	-11.35
3	-2.35	-23.59	-8.47	-18.99	---	---	-4.72	-15.01	-7.65	-13.27	-5.68	-11.41
4	-23.59	-25.95	-8.18	-18.28	---	---	-8.26	-15.13	-6.32	-12.80	-5.78	-11.93
5	-25.27	-26.06	-7.87	-17.94	---	---	-8.60	-8.88	-6.43	-11.88	-5.73	-11.94
6	-26.06	-30.01	-7.78	-17.95	---	---	-8.04	-23.74	-6.29	-11.92	-5.35	-9.02
7	-27.47	-32.20	-7.91	-17.62	---	---	-9.37	-24.48	-5.88	-11.20	-5.33	-8.89
8	-13.96	-29.04	-7.49	-12.91	---	---	-24.48	-25.43	-5.74	-9.20	-5.19	-8.83
9	-14.89	-26.99	-7.22	-13.00	---	---	-25.43	-25.68	-5.93	-9.28	-5.52	-9.15
10	-21.66	-31.08	-6.93	-12.99	---	---	-11.10	-25.69	-6.76	-10.10	-5.50	-9.21
11	-13.83	-26.04	-6.49	-12.91	---	---	-10.95	-25.73	-8.17	-9.94	-5.83	-14.57
12	-14.58	-21.55	-6.74	-12.10	---	---	-25.62	-26.38	-8.85	-10.90	-4.60	-9.30
13	-20.94	-26.40	-7.06	-11.96	---	---	-10.56	-26.47	-6.00	-35.36	-3.09	-8.81
14	-20.96	-26.15	-7.24	-12.06	---	---	-26.26	-26.62	-3.54	-7.10	-2.13	-3.44
15	-17.22	-21.37	-6.84	-14.24	-6.35	-10.91	-26.40	-26.65	-2.82	-3.55	-1.65	-2.13
16	-16.90	-26.95	-9.17	-17.00	-5.52	-10.61	-10.21	-26.57	-2.52	-2.87	-1.52	-1.70
17	-14.18	-27.04	-6.53	-10.02	-9.48	-9.57	-19.25	-20.04	-2.18	-7.00	-1.38	-1.56
18	-17.09	-26.93	-6.37	-9.44	-5.41	-9.57	-11.75	-19.82	-2.09	-7.81	-1.19	-1.40
19	-14.04	-23.37	-6.32	-9.37	-6.36	-9.34	-10.89	-19.62	-1.85	-14.43	-1.10	-10.44
20	-15.14	-24.82	---	---	-6.58	-9.54	-19.15	-19.55	-5.30	-15.94	-4.61	-14.50
21	-14.63	-26.17	---	---	-6.52	-9.36	-10.33	-19.69	-5.52	-15.84	-4.86	-14.93
22	-14.73	-26.05	---	---	-6.31	-9.41	-19.23	-19.76	-5.27	-16.10	-5.11	-15.93
23	-15.07	-26.96	---	---	-6.09	-9.46	-11.70	-31.36	-5.26	-16.05	-5.59	-17.25
24	-14.77	-31.19	---	---	-6.46	-9.62	-15.12	-32.53	-5.79	-16.93	-5.76	-15.93
25	-13.81	-26.70	---	---	-5.20	-9.43	-32.53	-34.15	-5.84	-16.97	-5.78	-15.93
26	-13.57	-25.93	---	---	-4.19	-9.16	-16.09	-34.36	-5.74	-16.61	-6.06	-15.97
27	-25.74	-26.10	---	---	-4.75	-8.85	-33.17	-34.10	-5.50	-11.34	-5.98	-15.02
28	-13.43	-26.10	---	---	-4.85	-8.89	-15.08	-34.16	-5.51	-11.97	-4.66	-10.96
29	-13.14	-25.86	---	---	-2.56	-5.14	-33.51	-34.33	---	---	-5.39	-10.08
30	-15.37	-31.04	---	---	-2.13	-2.56	-16.99	-34.44	---	---	-5.36	-10.95
31	-15.35	-26.40	---	---	-1.73	-2.18	-20.93	-32.52	---	---	-4.49	-10.17
MONTH	-2.30	-32.20	-6.32	-20.07	-1.73	-10.91	-1.31	-34.44	-1.85	-35.36	-1.10	-17.25

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA De 1--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-5.27	-10.95	-7.95	-13.02	-11.34	-17.63	---	---	---	---	-18.62	-19.07
2	-5.40	-10.94	-7.33	-10.93	-12.02	-17.78	---	---	---	---	-18.90	-19.19
3	-5.52	-10.43	-6.97	-11.05	-9.19	-21.40	---	---	---	---	-18.50	-19.20
4	-4.89	-8.05	-6.93	-9.88	-11.42	-11.78	---	---	---	---	-16.44	-30.52
5	-5.04	-8.23	-6.93	-9.91	-5.76	-11.56	---	---	---	---	-19.63	-31.59
6	-4.92	-8.14	-7.00	-9.90	-3.69	-11.03	---	---	---	---	-14.94	-26.89
7	-5.24	-8.47	-7.97	-14.54	-3.24	-9.12	---	---	---	---	-17.85	-25.98
8	-6.38	-8.95	-4.21	-11.32	-5.77	-10.96	---	---	---	---	-15.55	-26.10
9	-8.51	-8.95	-3.82	-9.96	-7.42	-10.98	---	---	---	---	-19.16	-26.18
10	-2.85	-9.07	-2.67	-3.82	-4.94	-11.05	---	---	---	---	-21.54	-32.75
11	-1.75	-2.99	-2.51	-8.93	-6.51	-11.00	---	---	---	---	-26.21	-33.35
12	-.81	-1.76	-2.69	-8.20	-10.15	-20.17	---	---	---	---	-20.00	-33.58
13	-.72	-1.94	-2.51	-8.79	-7.42	-17.82	---	---	---	---	-21.31	-33.99
14	-.71	-1.02	-2.41	-8.84	-8.36	-21.03	---	---	---	---	-22.01	-33.74
15	-.51	-.83	-2.27	-21.01	-18.59	-23.10	---	---	---	---	-22.38	-33.44
16	-.39	-.65	-7.49	-21.09	-18.65	-24.74	---	---	---	---	-17.77	-33.71
17	-.40	-13.66	-6.74	-16.99	-11.93	-25.93	---	---	---	---	-18.23	-31.85
18	-3.73	-14.94	-6.65	-16.99	-12.29	-25.84	---	---	-24.87	-29.63	-17.24	-20.25
19	-4.86	-15.15	-7.03	-16.99	-12.88	-25.91	---	---	-17.52	-30.06	-16.56	-25.63
20	-15.15	-15.93	-7.59	-16.99	-21.12	-21.85	---	---	-15.66	-30.00	-13.59	-16.99
21	-6.02	-15.95	-14.63	-18.00	-20.58	-22.99	---	---	-16.08	-29.27	-15.83	-22.41
22	-6.02	-21.61	-11.75	-17.32	-16.40	-22.63	---	---	-25.02	-25.95	-12.73	-20.74
23	-16.26	-16.83	-12.22	-17.98	-16.46	-23.00	---	---	-23.14	-26.46	-12.87	-16.07
24	-7.87	-21.55	-12.92	-13.99	-11.29	-16.46	---	---	-20.89	-26.69	-12.13	-19.06
25	-7.40	-11.21	-10.95	-19.57	-10.59	-20.95	---	---	-26.69	-31.76	-11.90	-15.06
26	-4.25	-11.95	-10.75	-19.22	-12.63	-21.00	---	---	-24.81	-33.14	-11.62	-17.03
27	-11.43	-11.92	-9.54	-19.53	-12.13	-13.00	---	---	-23.69	-32.64	-10.85	-19.16
28	-11.91	-12.93	-10.12	-19.66	-11.59	-31.94	---	---	-20.00	-29.41	-11.81	-14.93
29	-12.43	-18.63	-8.37	-13.59	---	---	---	---	-17.11	-20.00	-12.09	-14.99
30	-9.36	-19.83	-10.71	-16.91	---	---	---	---	-17.40	-21.39	-12.11	-14.77
31	---	---	-10.56	-16.92	---	---	---	---	-19.02	-23.42	---	---
MONTH	-.39	-21.61	-2.27	-21.09	-3.24	-31.94	---	---	-15.66	-33.14	-10.85	-33.99
YEAR	-.39	-35.36										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA De 140. SITE ID.--385920076322401. PERMIT NUMBER.--AA-81-6267.

LOCATION.--Lat 38°59'19", long 76°32'24", Hydrologic Unit 02040004, at Annapolis Mall.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, water-table, observation well, depth 45 ft; casing diameter 3 in., to 32 ft; screen diameter 3 in. from 32 to 42 ft.

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

DATUM.--Elevation of land surface is 85.03 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.82 ft above land surface.

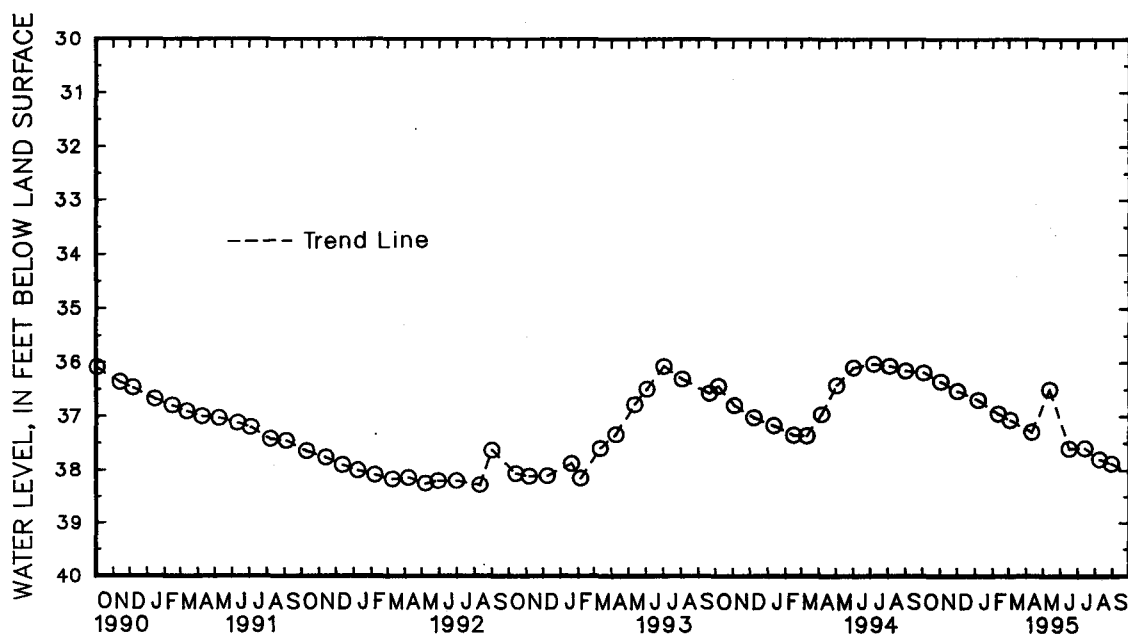
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.98 ft below land surface, Sept. 5, 1990; lowest measured, 38.31 ft below land surface, Aug. 10, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	36.20	DEC 1	36.56	FEB 10	36.98	APR 11	37.32	JUN 16	37.63	AUG 9	37.83
NOV 2	36.38	JAN 6	36.72	MAR 3	37.10	MAY 12	36.51	JUL 14	37.62	AUG 30	37.91
WATER YEAR 1995		HIGHEST	36.20	OCT 3, 1994	LOWEST	37.91	AUG 30, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

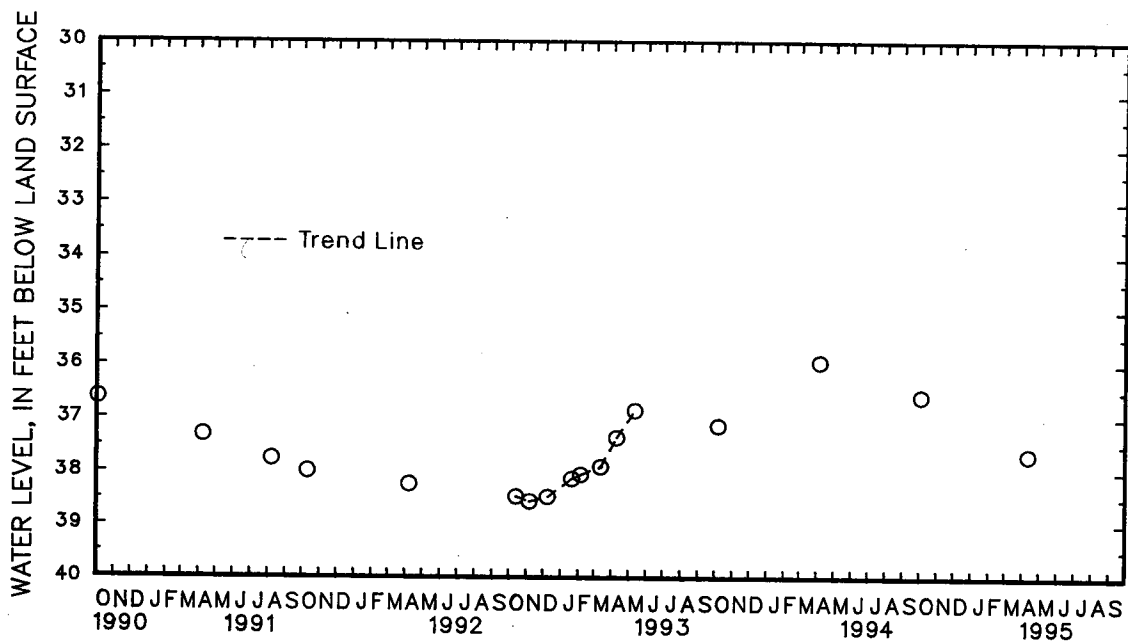
MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA De 144. SITE ID.--385920076322402. PERMIT NUMBER.--AA-81-6267.
 LOCATION.--Lat 38°59'19", long 76°32'21", Hydrologic Unit 02040004, at Annapolis Mall.
 Owner: U.S. Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, water-table, observation well, depth 89 ft; casing diameter 3 in., to 71 ft;
 screen diameter 3 in. from 71 to 86 ft.
 INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 85.24 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 3.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--November 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.95 ft below land surface, April 5, 1994;
 lowest measured, 38.59 ft below land surface, Nov. 6, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	36.60	APR 11	37.70
WATER YEAR 1995 HIGHEST 36.60 OCT 3, 1994 LOWEST 37.70 APR 11, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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MARYLAND--Continued

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. Geological Survey.

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 590 ft; casing diameter 10 in., to 565 ft; screen diameter 10 in. from 565 to 590 ft.

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

Equipped with graphic water-level recorder from November 1979 to April 1980.

DATUM.--Elevation of land surface is 13 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring Point: Top of recorder platform, 3.0 ft above land surface.

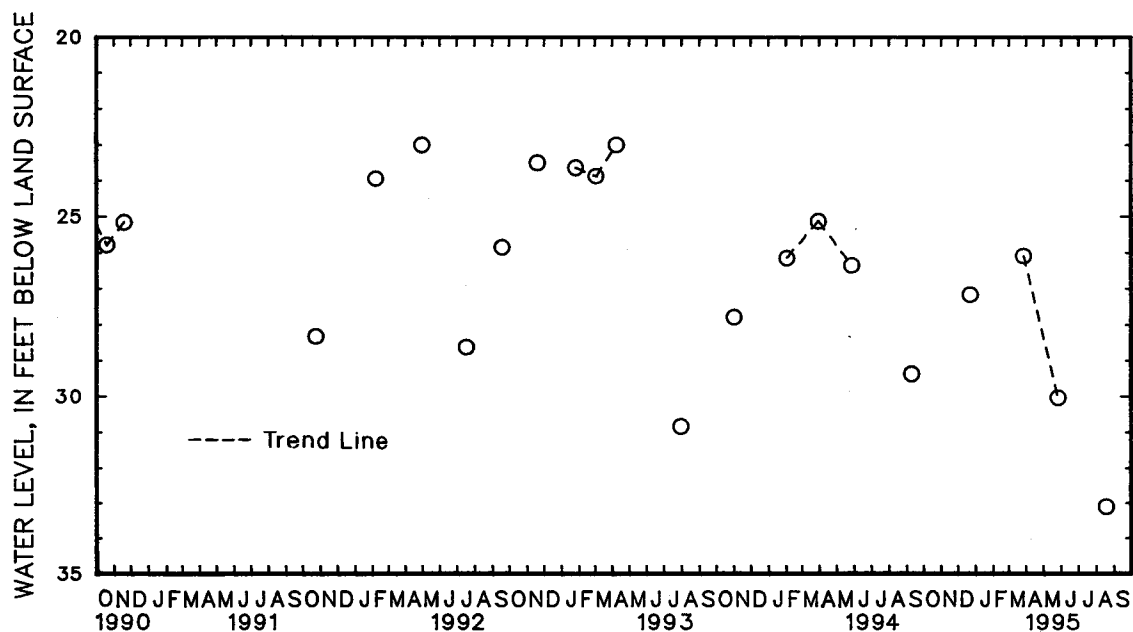
REMARKS.--Southern Maryland Observation Well Network.

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, 31.74 ft below land surface, July 21, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22	27.18	MAR 27	26.1	MAY 26	30.10	AUG 18	33.14
WATER YEAR 1995		HIGHEST	26.1	MAR 27, 1995	LOWEST	33.14	AUG 18, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 233 to 253 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. 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 21.62 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder platform, 3.0 ft above land surface.

REMARKS.--Anne Arundel Co. observation well network. Water levels are affected by nearby pumping.

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 and 21, 1995.

WATER LEVEL, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-11.62	-11.64	-10.56	-10.90	-10.24	-10.33	-10.70	-10.89	-9.83	-9.87	-9.75	-9.77
2	-11.62	-11.63	-10.56	-10.72	-10.21	-10.33	-10.70	-10.77	-9.84	-9.89	-9.77	-9.79
3	-11.47	-11.62	-10.72	-10.96	-10.20	-10.21	-10.77	-10.87	-9.89	-9.94	-9.77	-9.80
4	-11.44	-11.47	-10.96	-11.01	-10.20	-10.23	-10.86	-10.87	-9.75	-9.93	-9.75	-9.77
5	-11.43	-11.44	-10.92	-11.00	-9.90	-10.22	-10.87	-11.01	-9.75	-10.17	-9.71	-9.76
6	-11.39	-11.43	-10.79	-10.92	-9.89	-9.90	-10.80	-11.01	-10.17	-10.57	-9.48	-9.71
7	-11.34	-11.39	-10.79	-10.98	-9.88	-9.89	-10.65	-10.80	-10.57	-10.65	-9.48	-9.49
8	-11.27	-11.34	-10.98	-11.00	-9.88	-10.16	-10.65	-10.72	-10.53	-10.61	-9.43	-9.49
9	-11.15	-11.27	-10.98	-10.99	-10.15	-10.16	-10.51	-10.70	-10.44	-10.54	-9.43	-10.08
10	-11.14	-11.20	-10.99	-11.02	-10.12	-10.15	-10.47	-10.51	-10.35	-10.44	-10.08	-10.29
11	-11.20	-11.23	-10.94	-11.02	-10.01	-10.12	-10.32	-10.47	-10.34	-10.35	-10.07	-10.29
12	-11.00	-11.20	-10.92	-10.94	-10.06	-10.26	-10.12	-10.32	-10.33	-10.36	-10.04	-10.07
13	-10.88	-11.00	-10.85	-10.92	-10.26	-10.28	-10.08	-10.12	-10.36	-10.43	-10.01	-10.04
14	-10.82	-10.88	-10.81	-10.85	-10.27	-10.31	-10.08	-10.12	-10.43	-10.47	-9.99	-10.01
15	-10.81	-10.83	-10.63	-10.81	-10.19	-10.27	-9.75	-10.11	-10.47	-10.49	-9.88	-9.99
16	-10.60	-10.81	-10.62	-10.66	-10.18	-10.20	-9.71	-9.75	-10.30	-10.47	-9.81	-9.88
17	-10.61	-10.65	-10.29	-10.66	-10.16	-10.18	-9.74	-9.94	-10.30	-10.31	-9.73	-9.81
18	-10.58	-10.66	-10.14	-10.29	-10.15	-10.16	-9.92	-9.96	-10.31	-10.32	-9.73	-9.77
19	-10.53	-10.58	-10.14	-10.24	-10.16	-10.26	-9.68	-9.92	-10.28	-10.31	-9.73	-9.77
20	-10.53	-10.54	-10.24	-10.43	-10.26	-10.38	-9.16	-9.68	-10.07	-10.28	-9.59	-9.73
21	-10.54	-10.58	-10.18	-10.45	-10.38	-10.49	-9.16	-9.42	-9.87	-10.07	-9.34	-9.59
22	-10.57	-10.59	-10.16	-10.25	-10.49	-10.64	-9.42	-9.70	-9.87	-9.92	-9.34	-9.40
23	-10.56	-10.57	-10.25	-10.52	-10.64	-10.68	-9.70	-9.81	-9.70	-9.91	-9.40	-9.49
24	-10.56	-10.61	-10.52	-11.00	-10.57	-10.64	-9.81	-9.93	-9.69	-9.83	-9.49	-9.61
25	-10.60	-10.62	-10.77	-11.00	-10.43	-10.57	-9.93	-10.07	-9.83	-10.01	-9.61	-9.67
26	-10.62	-10.72	-10.76	-10.77	-10.38	-10.43	-10.07	-10.08	-10.01	-10.05	-9.66	-9.67
27	-10.72	-10.83	-10.51	-10.77	-10.38	-10.41	-10.08	-10.10	-10.05	-10.09	-9.62	-9.66
28	-10.83	-10.85	-9.95	-10.51	-10.41	-10.42	-10.07	-10.10	-9.76	-10.08	-9.47	-9.62
29	-10.84	-10.85	-9.93	-10.04	-10.41	-10.60	-10.07	-10.08	---	---	-9.42	-9.47
30	-10.85	-10.89	-10.04	-10.24	-10.60	-10.86	-9.96	-10.07	---	---	-9.35	-9.42
31	-10.89	-10.91	---	---	-10.86	-10.90	-9.87	-9.96	---	---	-9.34	-9.35
MONTH	-10.53	-11.64	-9.93	-11.02	-9.88	-10.90	-9.16	-11.01	-9.69	-10.65	-9.34	-10.29

GROUND-WATER LEVELS

175

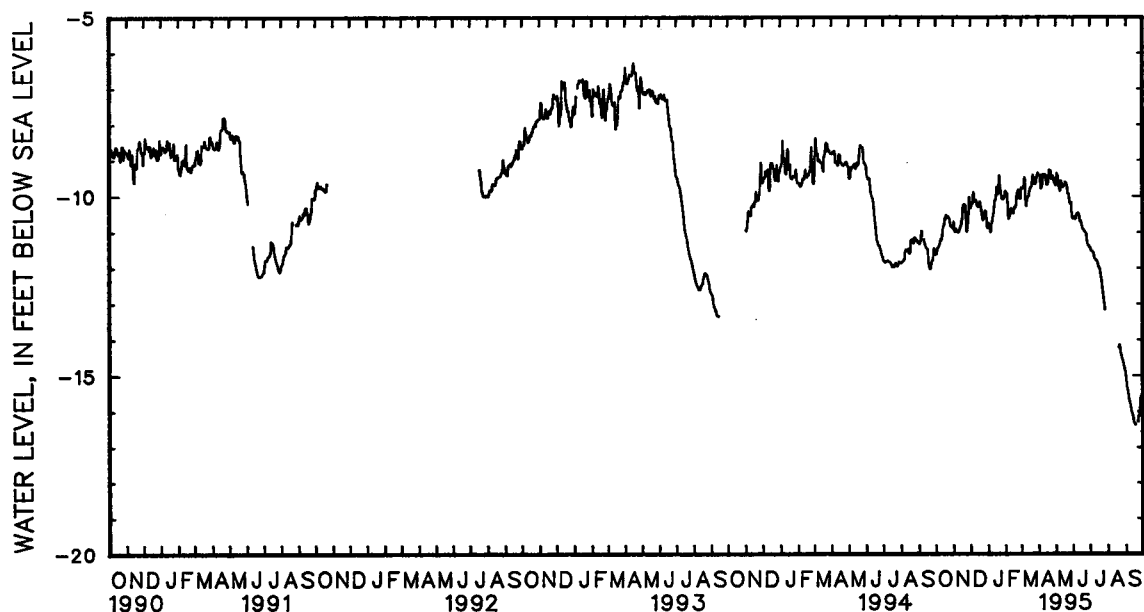
MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

AA Df 20--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-9.35	-9.40	-9.62	-9.70	-10.62	-10.64	-11.43	-11.43	---	---	-14.93	-15.05
2	-9.40	-9.42	-9.34	-9.70	-10.58	-10.62	-11.43	-11.47	---	---	-15.05	-15.25
3	-9.41	-9.43	-9.33	-9.37	-10.56	-10.58	-11.47	-11.53	---	---	-15.25	-15.36
4	-9.18	-9.42	-9.37	-9.42	-10.56	-10.62	-11.53	-11.54	---	---	-15.36	-15.44
5	-9.20	-9.80	-9.42	-9.45	-10.62	-10.65	-11.54	-11.55	---	---	-15.44	-15.51
6	-9.71	-9.80	-9.44	-9.61	-10.54	-10.64	-11.55	-11.56	---	---	-15.51	-15.61
7	-9.67	-9.71	-9.61	-9.78	-10.52	-10.54	-11.56	-11.59	---	---	-15.61	-15.70
8	-9.39	-9.67	-9.77	-9.80	-10.41	-10.52	-11.59	-11.66	---	---	-15.70	-15.77
9	-9.29	-9.39	-9.80	-9.87	-10.41	-10.48	-11.66	-11.74	---	---	-15.77	-15.84
10	-9.29	-9.41	-9.52	-9.80	-10.46	-10.48	-11.74	-11.76	---	---	-15.84	-15.92
11	-9.39	-9.42	-9.53	-9.58	-10.45	-10.48	-11.75	-11.77	---	---	-15.92	-16.03
12	-9.39	-9.41	-9.58	-9.64	-10.47	-10.52	-11.77	-11.80	---	---	-16.03	-16.08
13	-9.35	-9.40	-9.64	-9.76	-10.52	-10.71	-11.80	-11.82	---	---	-16.08	-16.13
14	-9.35	-9.51	-9.74	-9.76	-10.67	-10.72	-11.82	-11.85	---	---	-16.13	-16.21
15	-9.51	-9.68	-9.62	-9.74	-10.66	-10.70	-11.85	-11.91	---	---	-16.21	-16.33
16	-9.67	-9.70	-9.66	-9.71	-10.70	-10.77	-11.91	-11.99	---	---	-16.33	-16.36
17	-9.60	-9.67	-9.59	-9.71	-10.77	-10.84	-11.99	-12.01	---	---	-16.36	-16.36
18	-9.45	-9.60	-9.59	-9.61	-10.84	-10.90	-12.01	-12.04	---	---	-16.36	-16.39
19	-9.27	-9.45	-9.61	-9.62	-10.90	-10.92	-12.04	-12.14	-14.22	-14.23	-16.39	-16.42
20	-9.24	-9.27	-9.62	-9.68	-10.92	-10.93	-12.14	-12.27	-14.15	-14.22	---	---
21	-9.27	-9.29	-9.67	-9.69	-10.93	-10.99	-12.27	-12.37	-14.15	-14.16	-16.29	-16.42
22	-9.28	-9.29	-9.69	-9.83	-10.98	-10.99	-12.37	-12.52	-14.16	-14.25	-16.10	-16.29
23	-9.28	-9.51	-9.83	-9.94	-10.98	-11.02	-12.52	-12.66	-14.25	-14.38	-16.10	-16.13
24	-9.50	-9.54	-9.93	-9.94	-11.02	-11.04	-12.66	-12.79	-14.38	-14.42	-16.12	-16.13
25	-9.40	-9.50	-9.93	-10.05	-11.04	-11.11	-12.79	-12.94	-14.42	-14.53	-15.79	-16.12
26	-9.40	-9.43	-10.05	-10.19	-11.11	-11.26	-12.94	-13.05	-14.53	-14.58	-15.63	-15.79
27	-9.43	-9.50	-10.19	-10.21	-11.26	-11.36	-13.05	-13.17	-14.58	-14.64	-15.57	-15.63
28	-9.49	-9.52	-10.18	-10.20	-11.36	-11.38	---	---	-14.64	-14.72	-15.56	-15.57
29	-9.52	-9.63	-10.16	-10.18	-11.37	-11.38	---	---	-14.72	-14.78	-15.55	-15.56
30	-9.63	-9.65	-10.17	-10.46	-11.38	-11.43	---	---	-14.78	-14.86	-15.46	-15.55
31	---	---	-10.46	-10.63	---	---	---	---	-14.86	-14.93	---	---
MONTH	-9.18	-9.80	-9.33	-10.63	-10.41	-11.43	-11.43	-13.17	-14.15	-14.93	-14.93	-16.42
YEAR	-9.16	-16.42										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 705 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.8 ft above land surface.
 REMARKS.--Anne Arundel Co. observation well 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.

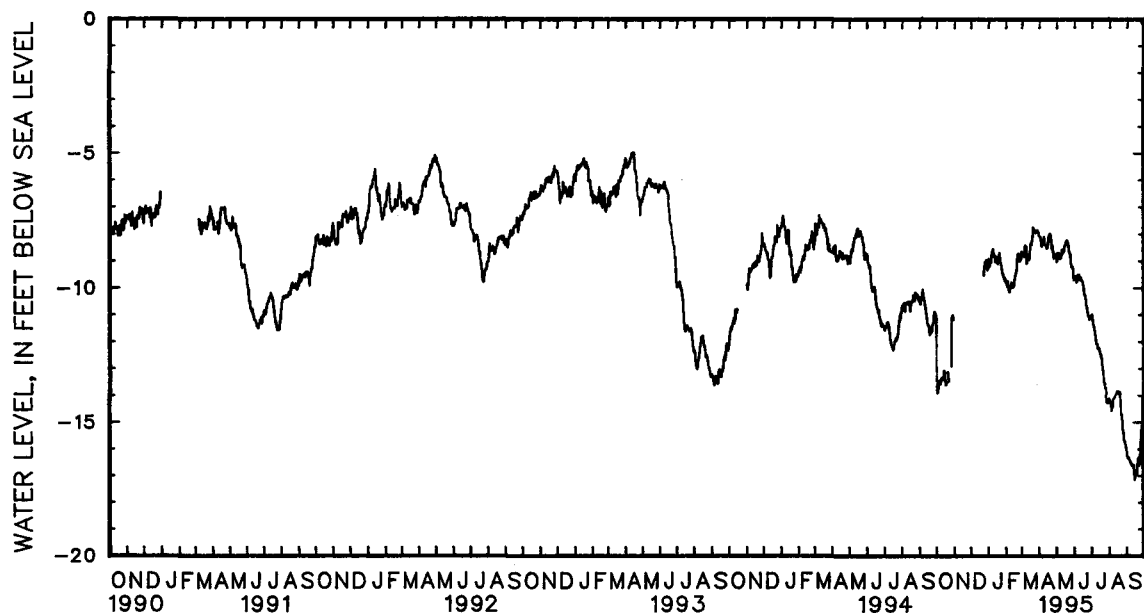
WATER LEVEL, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-10.54	-13.92	---	---	---	---	-8.59	-8.91	-9.41	-9.83	-8.41	-8.71
2	-10.45	-13.94	---	---	---	---	-8.69	-9.21	-9.67	-9.88	-8.47	-8.81
3	-10.17	-13.84	---	---	---	---	-8.64	-9.16	-9.66	-9.94	-8.42	-8.67
4	-10.09	-13.67	---	---	---	---	-8.63	-8.96	-9.37	-9.75	-8.39	-8.72
5	-10.07	-13.47	---	---	---	---	-8.82	-9.05	-9.74	-10.03	-8.31	-8.84
6	-9.98	---	---	---	---	---	-8.42	-8.89	-10.02	-10.13	-8.16	-8.41
7	-10.11	-13.58	---	---	---	---	-8.34	-8.68	-9.71	-10.14	-8.30	-8.46
8	-10.09	-13.45	---	---	---	---	-8.42	-8.76	-9.71	-9.94	-8.21	-8.44
9	-9.96	-13.36	---	---	---	---	-8.36	-8.56	-9.58	-10.00	-8.36	-9.10
10	-10.05	-13.39	---	---	---	---	-8.43	-8.77	-9.58	-9.79	-8.73	-9.06
11	-10.24	-13.39	---	---	---	---	-8.58	-8.82	-9.54	-9.84	-8.56	-8.78
12	-10.22	-13.41	---	---	---	---	-8.48	-8.78	-9.54	-9.90	-8.58	-8.76
13	-10.21	-13.09	---	---	---	---	-8.62	-9.03	-9.72	-9.97	-8.52	-8.74
14	-10.22	-13.09	---	---	---	---	-8.78	-9.04	-9.70	-9.91	-8.60	-8.95
15	-10.37	-13.36	---	---	---	---	-8.42	-8.84	-9.65	-9.89	-8.28	-8.67
16	-10.24	-13.63	---	---	---	---	-8.52	-8.95	-9.32	-9.65	-8.17	-8.42
17	-10.43	-13.62	---	---	---	---	-8.86	-9.10	-9.27	-9.55	-8.03	-8.33
18	-10.38	-13.52	---	---	---	---	-8.74	-9.01	-9.25	-9.47	-8.13	-8.38
19	-10.39	---	---	---	---	---	-8.61	-8.95	-9.03	-9.39	-7.93	-8.23
20	-10.48	-13.14	---	---	---	---	-8.21	-8.70	-8.62	-9.14	-7.63	-8.09
21	-10.55	-13.35	---	---	---	---	-8.47	-8.97	-8.53	-8.75	-7.40	-7.74
22	-10.57	-13.48	---	---	---	---	-8.87	-9.06	-8.59	-8.85	-7.52	-7.78
23	-10.53	---	---	---	-8.95	-9.51	-8.94	-9.14	-8.30	-8.71	-7.59	-7.85
24	-10.56	-13.44	---	---	-8.83	-9.19	-9.01	-9.28	-8.47	-8.91	-7.67	-7.90
25	-10.60	---	---	---	-8.75	-9.21	-9.24	-9.43	-8.66	-9.01	-7.72	-7.95
26	-10.77	-12.92	---	---	-8.79	-9.03	-9.25	-9.46	-8.60	-8.97	-7.69	-7.89
27	-10.88	-11.11	---	---	-8.85	-9.13	-9.28	-9.56	-8.56	-8.92	-7.62	-7.87
28	-10.86	-11.04	---	---	-8.65	-8.95	-9.36	-9.61	-8.28	-8.64	-7.61	-7.84
29	-10.85	-11.01	---	---	-8.83	-9.28	-9.46	-9.71	---	---	-7.64	-7.89
30	-10.77	-11.17	---	---	-9.04	-9.34	-9.33	-9.63	---	---	-7.62	-7.92
31	---	---	---	---	-8.88	-9.24	-9.36	-9.70	---	---	-7.72	-8.04
MONTH	-9.96	-13.94	---	---	-8.65	-9.51	-8.21	-9.71	-8.28	-10.14	-7.40	-9.10

GROUND-WATER LEVELS
MARYLAND--Continued
ANNE ARUNDEL COUNTY--Continued
AA Df 79--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-7.84	-8.07	-8.71	-9.03	-9.40	-9.62	-10.77	-11.00	-13.90	-14.14	-15.73	-16.15
2	-7.82	-8.11	-8.31	-8.73	-9.35	-9.56	-10.93	-11.24	-13.94	-14.20	-16.02	-16.35
3	-7.79	-8.12	-8.50	-8.69	-9.41	-9.59	-11.21	-11.38	-14.02	-14.31	-16.03	-16.31
4	-7.60	-8.31	-8.51	-8.70	-9.52	-9.78	-11.23	-11.45	-14.10	-14.35	-16.02	-16.33
5	-8.20	-8.46	-8.44	-8.73	-9.41	-9.73	-11.29	-11.59	-14.18	-14.58	-16.01	-16.33
6	-8.03	-8.24	-8.72	-8.92	-9.32	-9.52	-11.43	-11.73	-14.18	-14.39	-16.09	-16.44
7	-8.11	-8.30	-8.62	-8.87	-9.28	-9.54	-11.53	-11.89	-14.10	-14.45	-16.17	-16.44
8	-7.95	-8.26	-8.62	-8.90	-9.26	-9.50	-11.69	-12.09	-13.97	-14.15	-16.21	-16.53
9	-7.96	-8.10	-8.43	-8.81	-9.36	-9.68	-11.91	-12.09	-13.86	-14.11	-16.27	-16.53
10	-8.05	-8.39	-8.23	-8.59	-9.35	-9.60	-11.82	-12.09	-13.81	-14.10	-16.26	-16.63
11	-8.14	-8.39	-8.46	-8.73	-9.27	-9.60	-11.79	-12.26	-13.78	-14.06	---	---
12	-8.11	-8.41	-8.38	-8.65	-9.25	-9.70	-12.01	-12.26	-13.64	-13.98	-16.42	-16.63
13	-8.05	-8.43	-8.37	-8.64	-9.40	-9.74	-11.97	-12.25	-13.65	-13.90	-16.44	-16.63
14	-8.24	-8.54	-8.15	-8.52	-9.35	-9.76	-12.01	-12.34	-13.56	-13.86	-16.53	-16.85
15	-8.29	-8.51	-8.03	-8.40	-9.36	-9.89	-12.25	-12.44	-13.63	-13.87	-16.78	-17.16
16	-8.02	-8.36	-8.09	-8.39	-9.68	-9.95	-12.34	-12.56	-13.68	-13.85	-16.81	-17.06
17	-7.91	-8.19	-7.92	-8.26	-9.88	-10.21	-12.29	-12.51	-13.68	-13.95	-16.46	-16.82
18	-7.77	-8.06	-7.99	-8.23	-10.03	-10.28	-12.34	-12.70	-13.75	-13.94	-16.68	-16.85
19	-7.62	-7.98	-7.94	-8.25	-10.03	-10.26	-12.59	-13.03	-13.68	-13.89	-16.51	-16.97
20	-7.75	-7.99	-8.11	-8.34	-10.10	-10.44	-12.87	-13.11	-13.67	-13.96	-16.33	-16.51
21	-7.91	-8.09	-8.19	-8.40	-10.32	-10.67	-12.95	-13.37	-13.82	-14.19	-16.19	-16.37
22	-8.04	-8.28	-8.27	-8.65	-10.48	-10.73	-13.26	-13.59	-14.07	-14.69	-15.96	-16.31
23	-8.26	-8.57	-8.51	-8.71	-10.61	-10.92	-13.35	-13.54	-14.54	-14.75	-16.22	-16.63
24	-8.24	-8.44	-8.48	-8.71	-10.71	-11.05	-13.33	-13.75	-14.51	-14.95	-15.83	-16.22
25	-8.29	-8.69	-8.55	-9.08	-10.82	-11.08	-13.44	-13.73	-14.89	-15.28	-15.35	-16.12
26	-8.50	-8.90	-8.89	-9.23	-10.86	-11.17	-13.41	-13.98	-15.03	-15.36	-15.08	-15.47
27	-8.49	-8.74	-8.99	-9.19	-10.92	-11.16	-13.84	-14.28	-15.26	-15.66	-14.90	-15.25
28	-8.37	-8.75	-8.99	-9.21	-10.82	-11.13	-13.96	-14.18	-15.44	-15.73	-14.86	-15.10
29	-8.59	-8.84	-8.96	-9.30	-10.74	-11.03	-13.94	-14.14	-15.50	-15.74	-14.65	-15.01
30	-8.51	-8.82	-9.20	-9.69	-10.82	-11.04	-14.06	-14.28	-15.63	-15.95	-14.34	-14.76
31	---	---	-9.50	-9.70	---	---	-14.01	-14.30	-15.68	-15.94	---	---
MONTH	-7.60	-8.90	-7.92	-9.70	-9.25	-11.17	-10.77	-14.30	-13.56	-15.95	-14.34	-17.16
YEAR	-7.40	-17.16										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

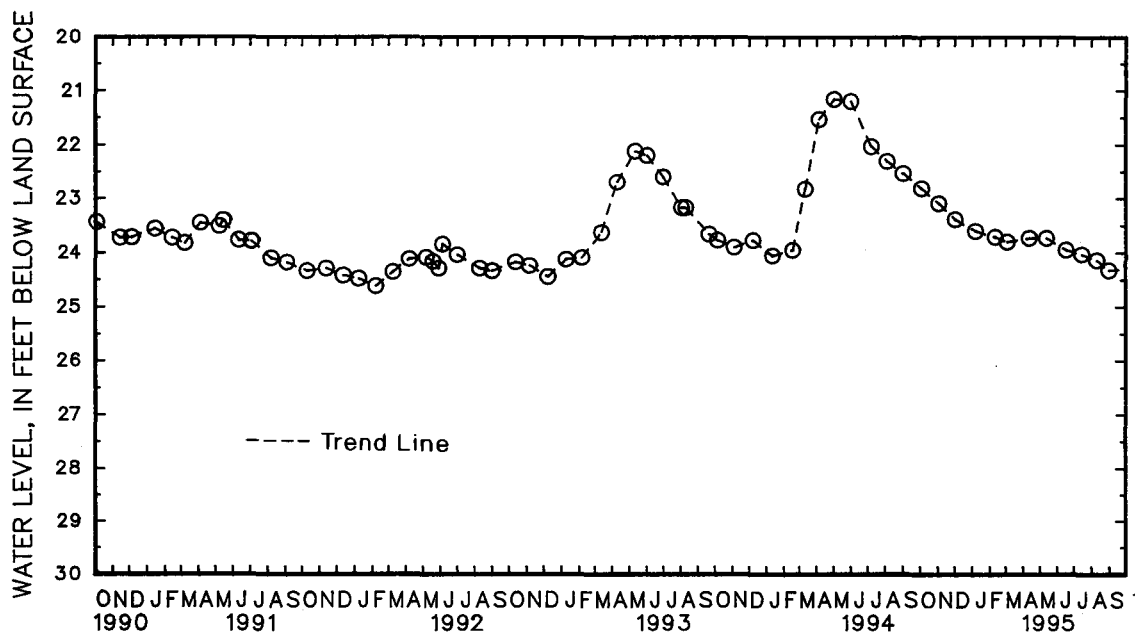
MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 26.51 ft above National Geodetic Vertical Datum of 1929.
 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, 21.16 ft below land surface, May 2, 1994; lowest measured, 25.39 ft below land surface, April 9, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	22.83	DEC 1	23.41	FEB 10	23.74	APR 11	23.76	JUN 16	23.97	AUG 9	24.17
NOV 2	23.11	JAN 6	23.63	MAR 3	23.83	MAY 12	23.76	JUL 14	24.06	30	24.36
WATER YEAR 1995		HIGHEST	22.83	OCT 3, 1994	LOWEST	24.36	AUG 30, 1995				



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, near 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 100 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of coupling, 0.87 ft above land surface.

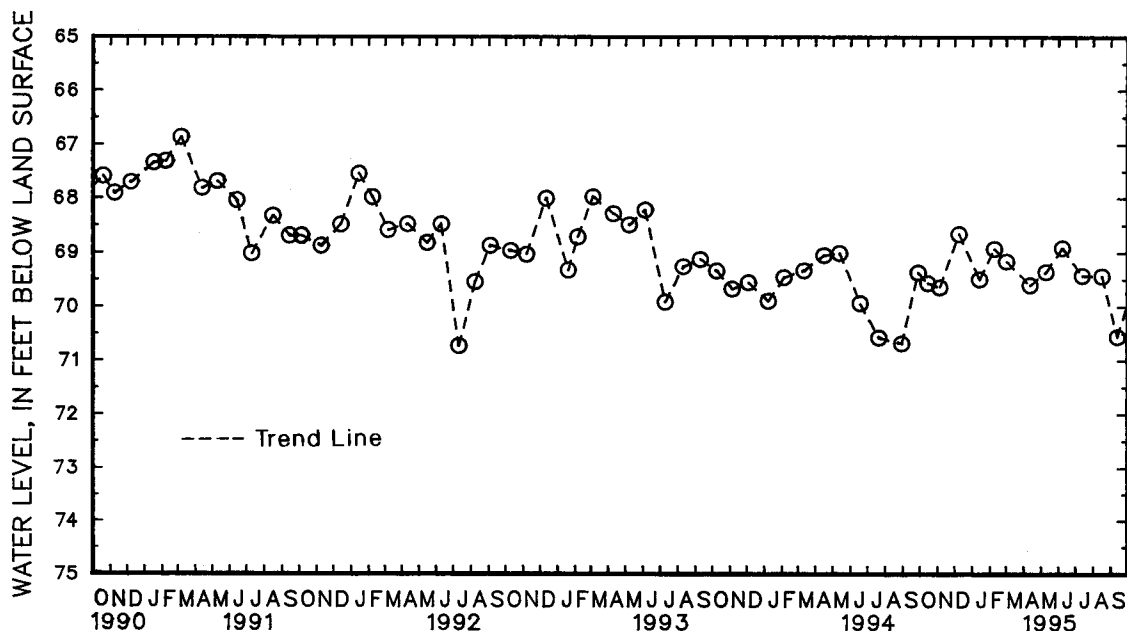
REMARKS.--Maryland Water-Level Network observation well.

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, 70.78 ft below land surface, July 10, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	69.58	DEC 8	68.66	FEB 8	68.94	APR 11	69.63	JUN 7	68.92	AUG 16	69.46
NOV 4	69.66	JAN 13	69.52	MAR 1	69.18	MAY 9	69.38	JUL 12	69.45	SEP 12	70.60
WATER YEAR 1995		HIGHEST	68.66	DEC 8, 1994	LOWEST	70.60	SEP 12, 1995				

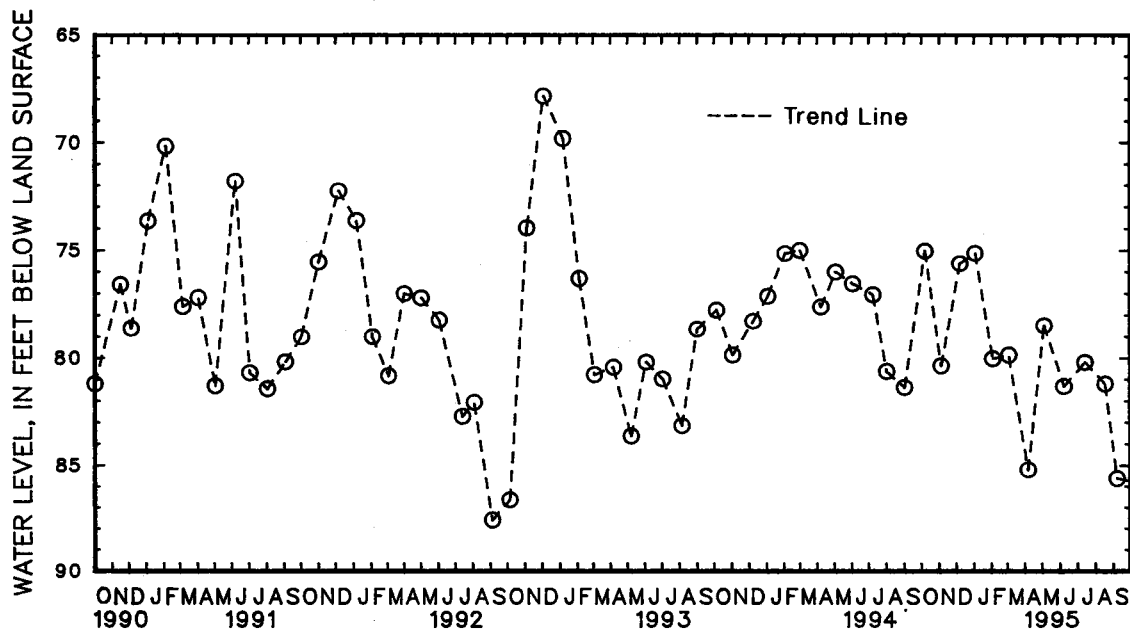


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.15 ft below land surface, Sept. 27, 1976;
lowest measured, 103.70 ft below land surface, Oct. 15, 1948.

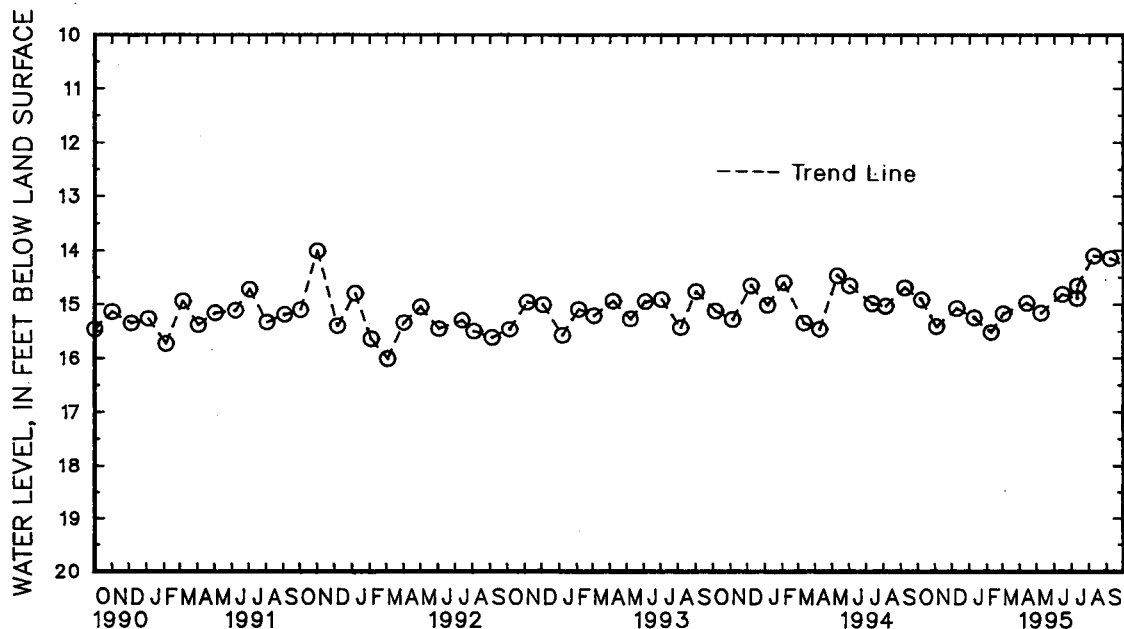
DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL			
OCT	7	75.04	DEC	7	75.62	FEB	3	80.13	APR	6	85.29	JUN	7	81.38	AUG	17	81.27
NOV	4	80.46	JAN	3	75.14	MAR	3	79.96	MAY	4	78.49	JUL	13	80.24	SEP	7	85.69
WATER YEAR 1995			HIGHEST 75.04			OCT 7, 1994			LOWEST 85.69			SEP 7, 1995					



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

WELL NUMBER.--3S2E- 5. SITE ID.--391600076353301. PERMIT NUMBER.--BC-81-0087.
LOCATION.--Lat 39°16'00", long 76°35'33", Hydrologic Unit 02060003, at Latrobe Park.
Owner: U.S. Geological Survey.
AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 136 ft; casing diameter 4 in., to 126 ft;
screen diameter 3 in. from 126 to 136 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 15 ft. above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of casing, 0.6 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, 13.94 ft below land surface, Nov. 5, 1985;
lowest measured, 17.71 ft below land surface, Dec. 30, 1983.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	14.94	JAN 9	15.28	APR 13	15.00	JUL 10	14.91	SEP 7	14.16
NOV 3	15.45	FEB 8	15.56	MAY 8	15.19	11	14.67		
DEC 9	15.10	MAR 2	15.20	JUN 14	14.83	AUG 9	14.11		
WATER YEAR 1995		HIGHEST	14.11	AUG 9, 1995		LOWEST	15.56	FEB 8, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.07 ft above land surface.

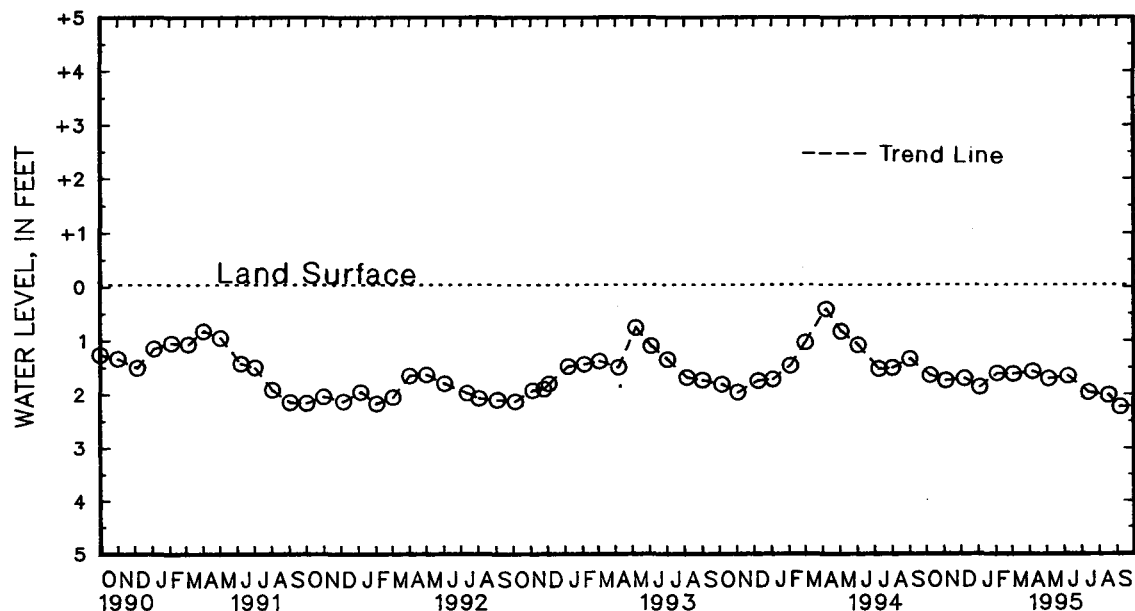
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	1.68	DEC 7	1.74	FEB 3	1.64	APR 6	1.60	JUN 7	1.69	AUG 17	2.05
NOV 4	1.78	JAN 3	1.90	MAR 3	1.65	MAY 4	1.74	JUL 13	2.00	SEP 7	2.27
WATER YEAR 1995		HIGHEST	1.60	APR 6, 1995	LOWEST	2.27	SEP 7, 1995				



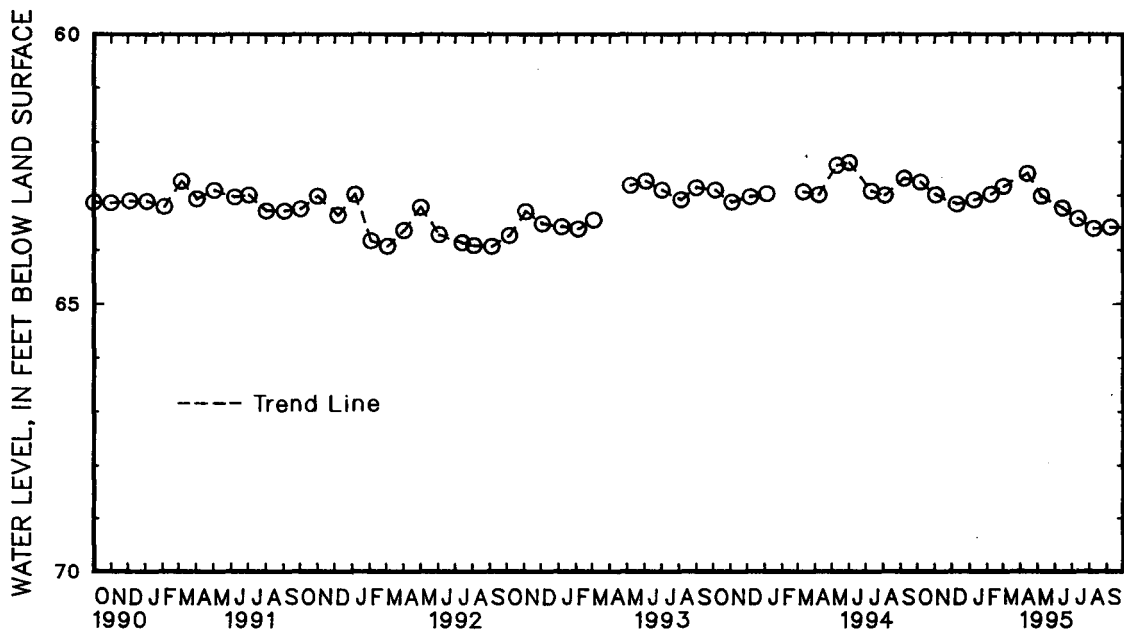
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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: 217PTKN.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 75 ft above National Geodetic Vertical Datum of 1929, 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, 62.39 ft below land surface, June 1, 1994; lowest measured, 66.36 ft below land surface, May 5, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	62.76	DEC 9	63.18	FEB 8	62.99	APR 13	62.60	JUN 14	63.25	AUG 8	63.64
NOV 3	63.00	JAN 9	63.10	MAR 2	62.84	MAY 8	63.03	JUL 11	63.45	SEP 7	63.61
WATER YEAR 1995		HIGHEST	62.60	APR 13, 1995		LOWEST	63.64	AUG 8, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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, nr York Rd.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.30 ft above land surface.

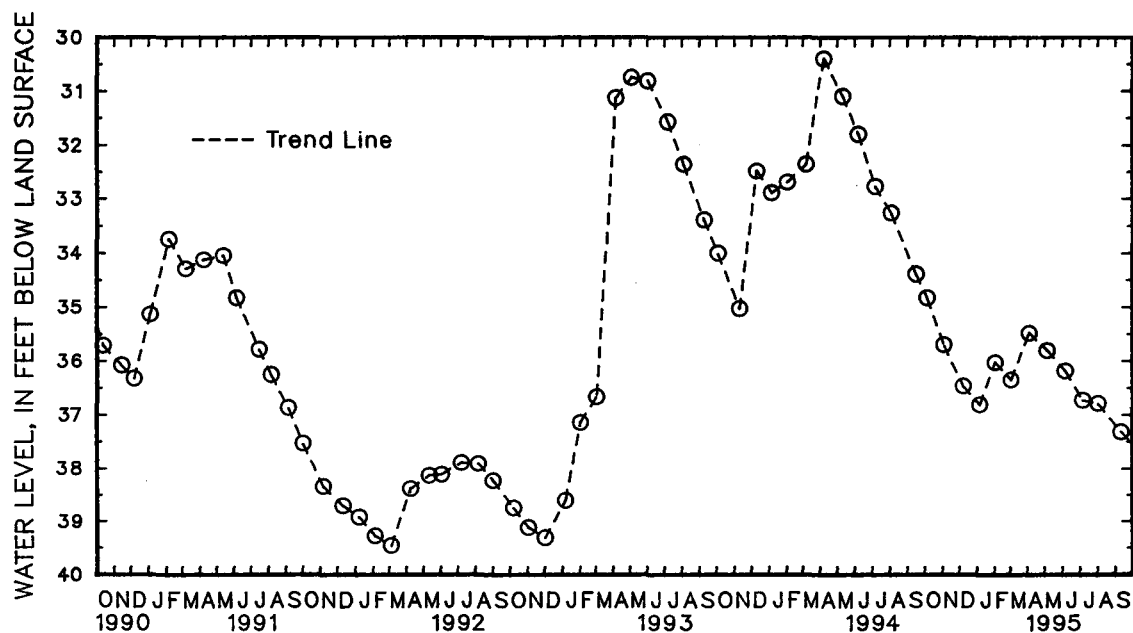
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	34.87	DEC 7	36.51	FEB 2	36.05	APR 4	35.50	JUN 5	36.22	AUG 1	36.83
NOV 3	35.75	JAN 5	36.85	MAR 2	36.38	MAY 5	35.83	JUL 5	36.77	SEP 11	37.36
WATER YEAR 1995		HIGHEST	34.87	OCT 5, 1994	LOWEST	37.36	SEP 11, 1995				



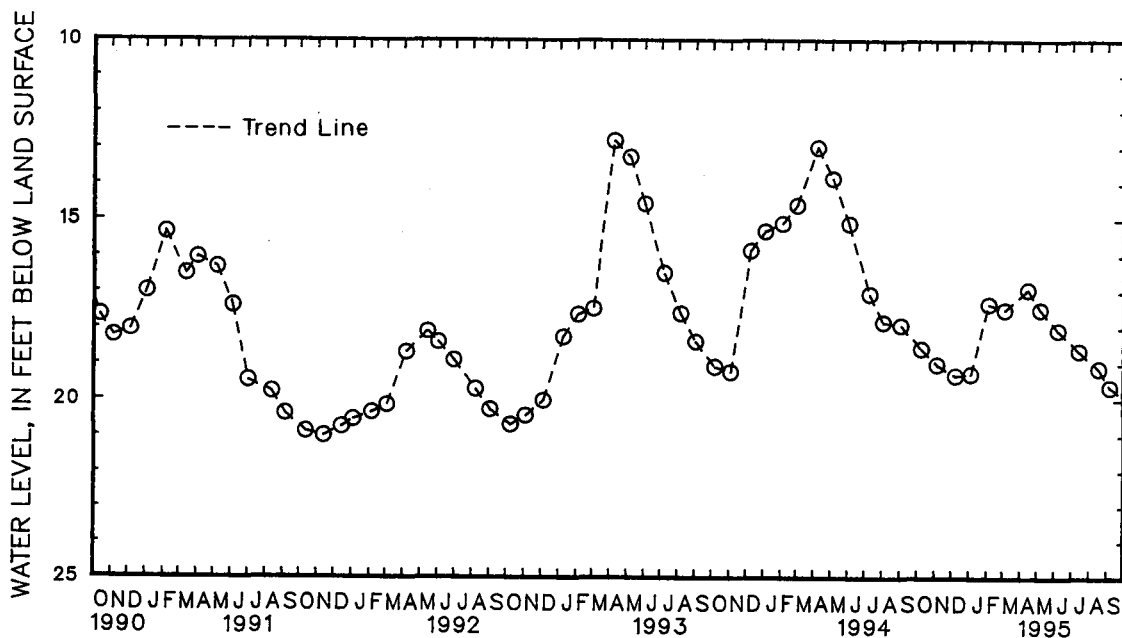
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd., 0.6 mi west of Jacksonville.
Owner: Baltimore County.
AQUIFER.--Loch Raven Schist of Paleozoic Age. Aquifer code: 300LCRV.
WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 350 ft; casing diameter 10 in., to 12.4 ft; casing diameter 6 in., to 33.1 ft; open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 536 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 2.0 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 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	18.65	DEC 7	19.39	FEB 3	17.35	APR 13	16.94	JUN 6	18.11	AUG 17	19.19
NOV 4	19.09	JAN 3	19.34	MAR 3	17.51	MAY 5	17.51	JUL 13	18.70	SEP 6	19.70
WATER YEAR 1995		HIGHEST	16.94	APR 13, 1995		LOWEST	19.70	SEP 6, 1995			



GROUND-WATER LEVELS

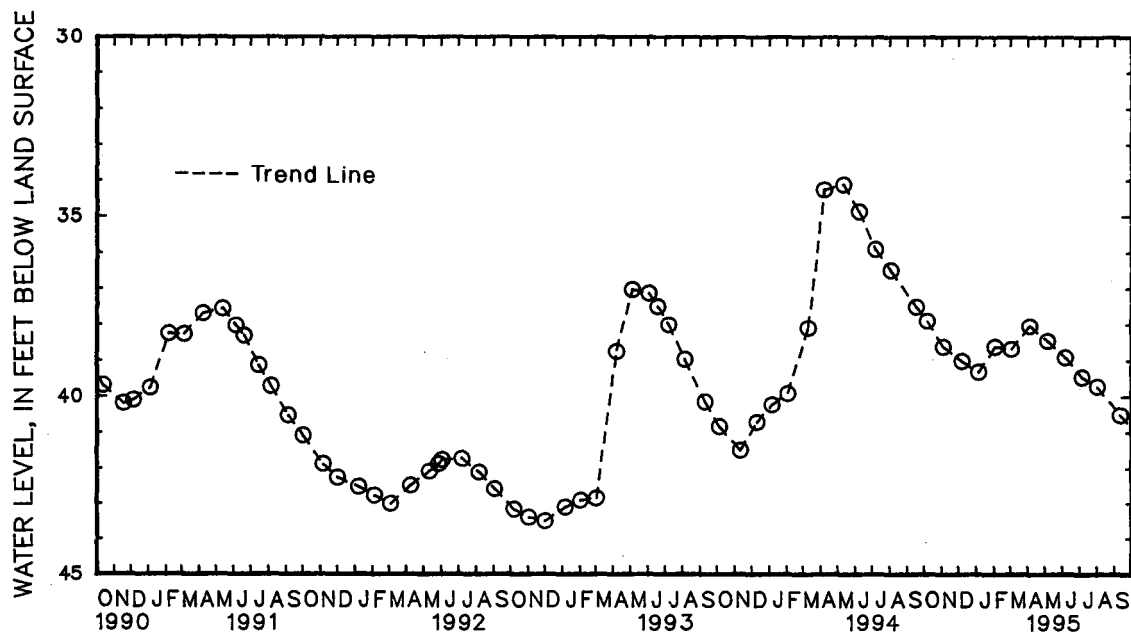
MARYLAND--Continued

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 Paleozoic age. Aquifer code: 300CCKV.
WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 300 ft; casing diameter 6 in., to 88 ft;
open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 390 ft above National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring Point: Top of casing, 1.11 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--September 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.14 ft below land surface, May 11, 1994;
lowest measured, 45.07 ft below land surface, Jan. 17, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL			
OCT	5	37.96	DEC	7	39.09	FEB	2	38.67	APR	4	38.07	JUN	5	38.97	AUG	1	39.79
NOV	3	38.69	JAN	5	39.39	MAR	2	38.73	MAY	5	38.50	JUL	5	39.53	SEP	11	40.58
WATER YEAR 1995			HIGHEST		37.96	OCT 5, 1994			LOWEST		40.58	SEP 11, 1995					



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Paleozoic age. Aquifer code: 300WDCK.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 491 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.5 ft above land surface.

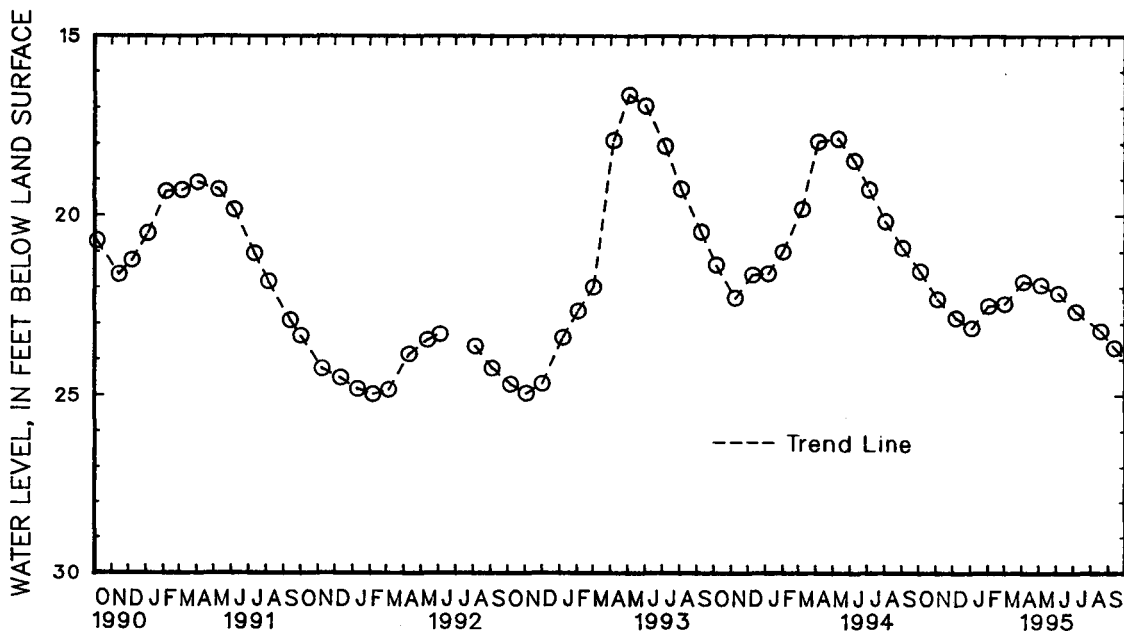
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

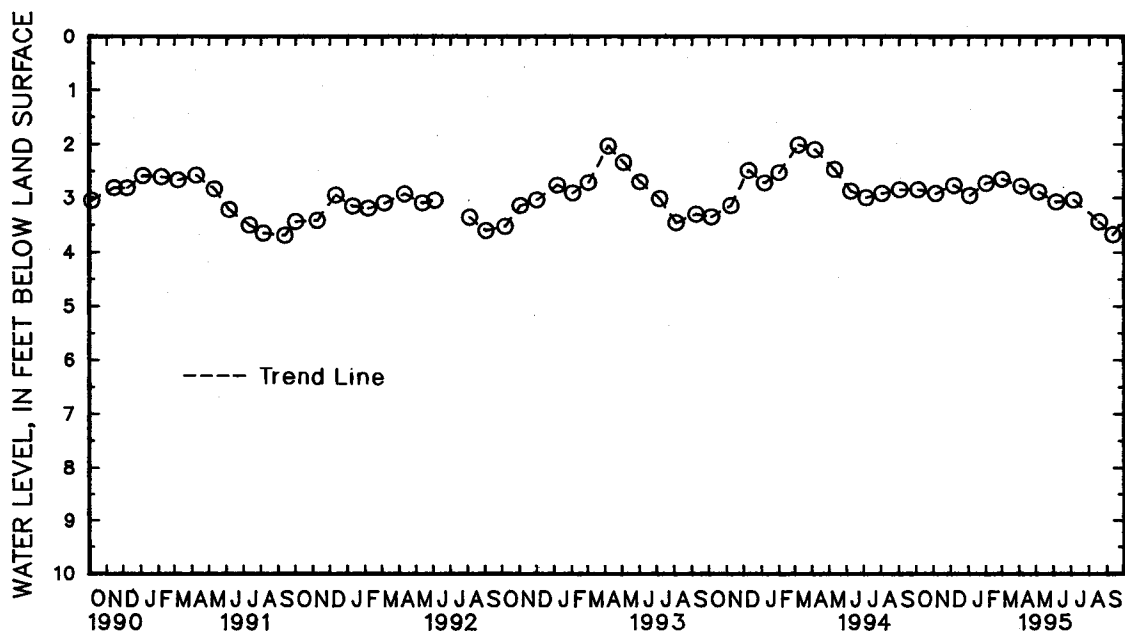
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	21.60	DEC 6	22.90	FEB 1	22.55	APR 4	21.87	JUN 5	22.19	AUG 18	23.27
NOV 4	22.37	JAN 3	23.18	MAR 1	22.49	MAY 5	21.96	JUL 5	22.71	SEP 11	23.75
WATER YEAR 1995		HIGHEST	21.60	OCT 4, 1994	LOWEST	23.75	SEP 11, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	2.87	DEC 6	2.79	FEB 1	2.75	APR 4	2.80	JUN 5	3.10	AUG 18	3.47
NOV 4	2.94	JAN 3	2.98	MAR 1	2.67	MAY 5	2.91	JUL 5	3.06	SEP 11	3.71
WATER YEAR 1995		HIGHEST	2.67	MAR 1, 1995		LOWEST	3.71	SEP 11, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd., at Seagrams warehouse facility, Dundalk.

Owner: Seagrams Distillery.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 30 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.5 ft above land surface.

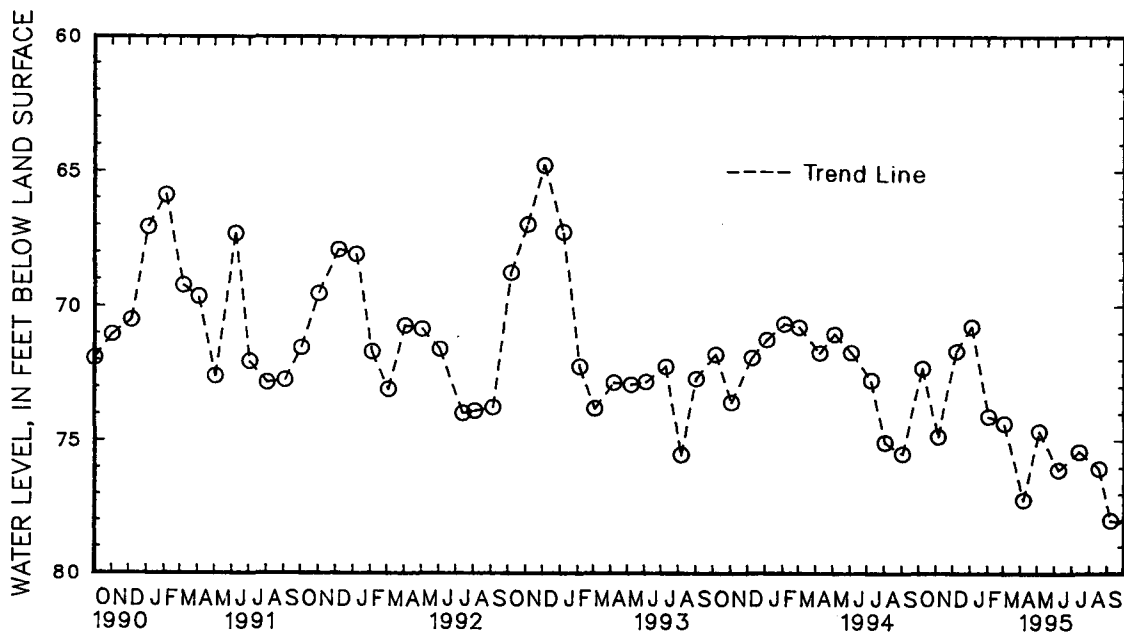
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1952 to March 1954, January 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.34 ft below land surface, Jan. 3, 1983; lowest measured, 95.88 ft below land surface, Oct. 6, 1952.

WATER LEVEL, IN FEET BELOW LAND SURFACE WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	72.34	DEC 7	71.70	FEB 3	74.18	APR 6	77.28	JUN 7	76.13	AUG 17	76.09
NOV 4	74.92	JAN 3	70.78	MAR 3	74.44	MAY 4	74.68	JUL 13	75.45	SEP 7	78.04
WATER YEAR 1995		HIGHEST	70.78	JAN 3, 1995		LOWEST	78.04	SEP 7, 1995			



GROUND-WATER LEVELS
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, nr Tin Mill Rd., Sparrows Point.

Owner: Bethlehem Steel Co.

AQUIFER.-- Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTKN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 645 ft; casing diameter 14 in., to 422.7 ft.

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

DATUM.--Elevation of land surface is 13.6 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 2.58 ft above land surface.

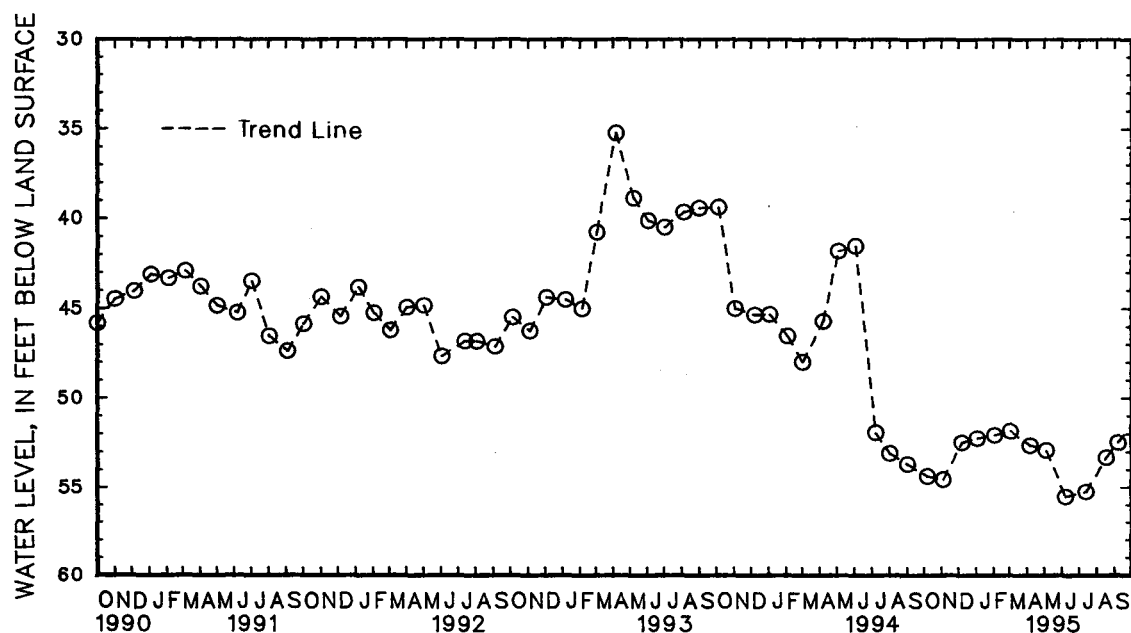
REMARKS.--Maryland Water-Level Network observation well.

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, 55.61 ft below land surface, June 7, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	54.48	DEC 7	52.54	FEB 3	52.13	APR 6	52.71	JUN 7	55.61	AUG 17	53.37
NOV 4	54.66	JAN 3	52.30	MAR 3	51.89	MAY 4	52.99	JUL 13	55.33	SEP 7	52.51
WATER YEAR 1995		HIGHEST	51.89	MAR 3, 1995	LOWEST		55.61	JUN 7, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Gf 178. SITE ID.--391226076253401.

LOCATION.--Lat 39°12'26", long 76°25'34", Hydrologic Unit 02060003, at North Point State Park.

Owner: Maryland Department of Natural Resources.

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 339.5 ft; casing diameter 8 in. to unknown depth; screen at unknown depth.

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

DATUM.--Elevation of land surface is 6 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.00 ft above land surface.

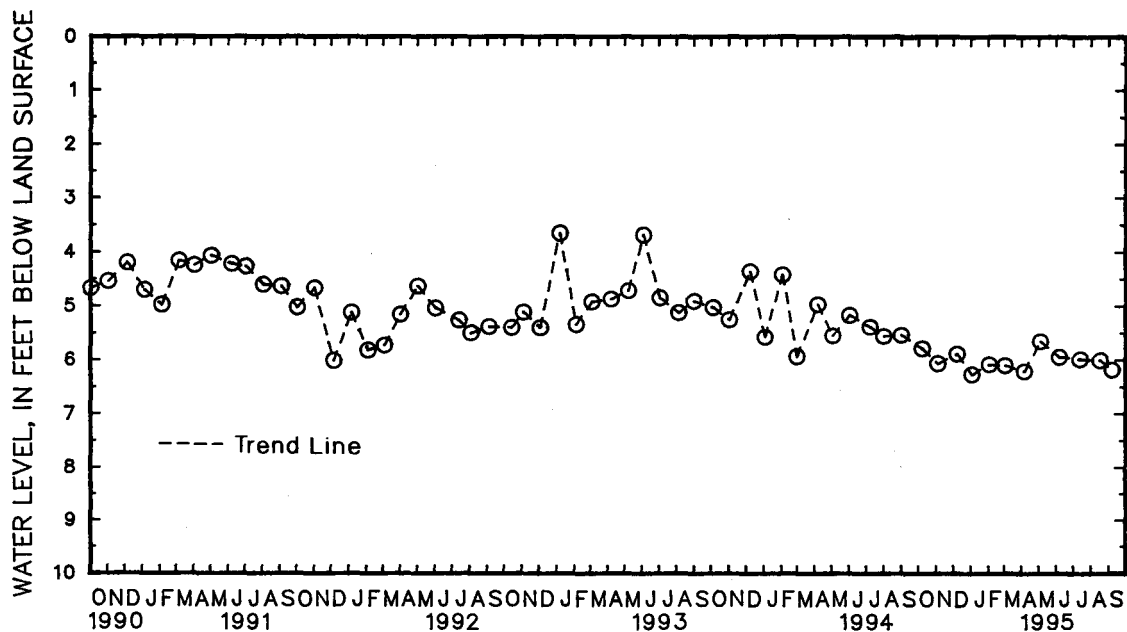
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--October 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.32 ft below land surface, April 6, 1984; lowest measured, 61.97 ft below land surface, Dec. 2, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 7	5.83	DEC 7	5.93	FEB 3	6.12	APR 6	6.25	JUN 7	5.98	AUG 17	6.04
NOV 4	6.11	JAN 3	6.31	MAR 3	6.14	MAY 4	5.68	JUL 13	6.02	SEP 7	6.22
WATER YEAR 1995		HIGHEST	5.68	MAY 4, 1995		LOWEST	6.31	JAN 3, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

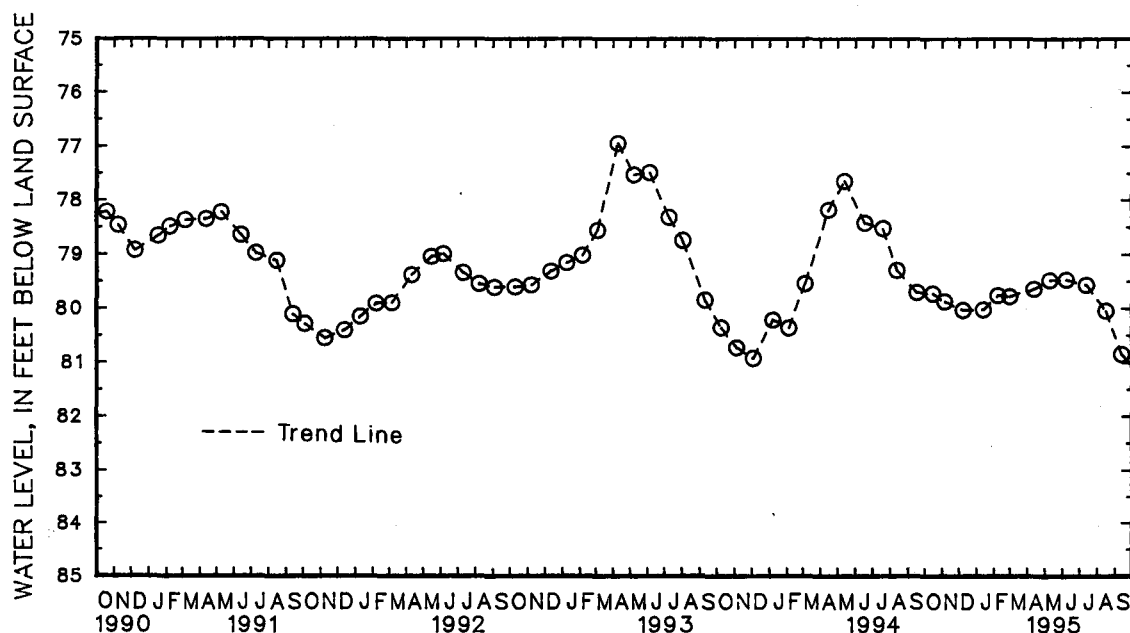
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 138.67 ft above National Geodetic Vertical Datum of 1929.
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, 76.95 ft below land surface, April 9, 1993; lowest measured, 81.18 ft below land surface, Jan. 5, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

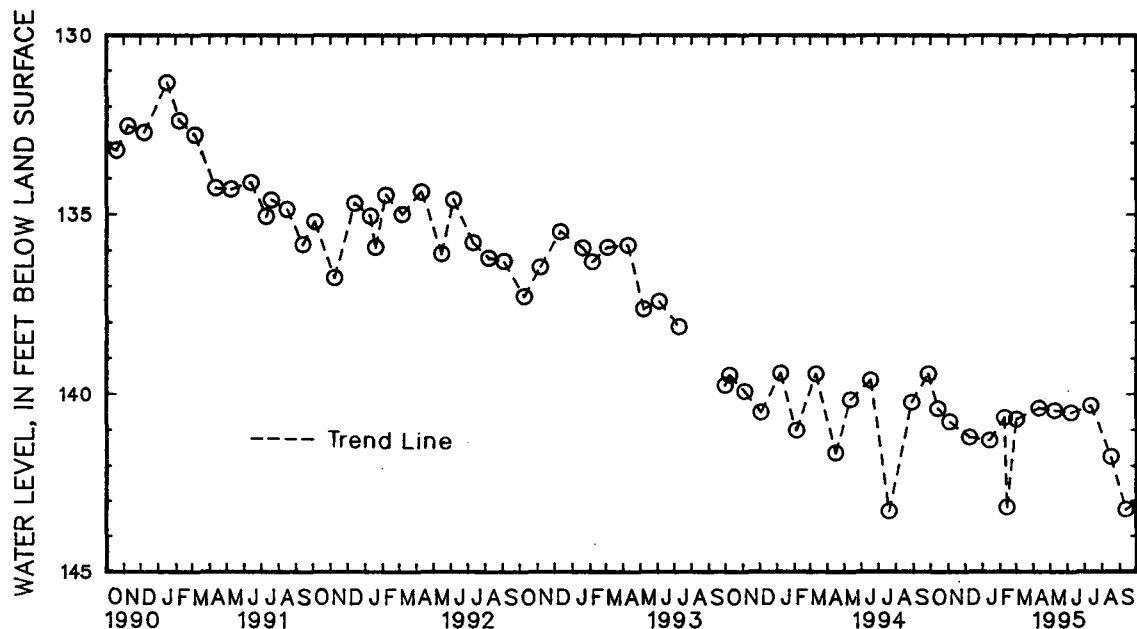
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	79.76	DEC 8	80.07	FEB 8	79.79	APR 11	79.66	JUN 7	79.49	AUG 16	80.08
NOV 4	79.91	JAN 13	80.06	MAR 1	79.81	MAY 9	79.50	JUL 12	79.59	SEP 12	80.90
WATER YEAR 1995		HIGHEST	79.49	JUN 7, 1995		LOWEST	80.90	SEP 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

WATER LEVEL. IN FEET BELOW LAND SURFACE. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 14	140.44	DEC 8	141.25	FEB 8	140.68	APR 11	140.40	JUN 7	140.53	AUG 16	141.78	OCT 14	140.44	DEC 8	141.25
NOV 4	140.81	JAN 13	141.33	MAR 1	140.71	MAY 9	140.47	JUL 12	140.33	SEP 12	143.26	NOV 4	140.81	JAN 13	141.33
WATER YEAR 1995		HIGHEST 140.33		JUL 12, 1995		LOWEST 143.26		SEP 12, 1995							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

197

MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Co 39. SITE ID.--383934076320202. PERMIT NUMBER.--CA-01-2070.
 LOCATION.--Lat 38°39'34", long 76°32'02", 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 540 ft; casing diameter 8 in., to 520 ft;
 screen diameter 8 in. from 520 to 540 ft.
 INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with graphic water-level recorder from Dec. 6, 1977 to Jan. 2, 1980. Equipped with digital
 water-level recorder--60-minute recorder interval from Feb. 8, 1980 to June 28, 1995.
 DATUM.--Elevation of land surface is 93.74 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 1.70 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--December 1977 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.72 ft below sea level, Jan. 26, 1978;
 lowest measured, 46.15 ft below sea level, Feb. 2, 1980.

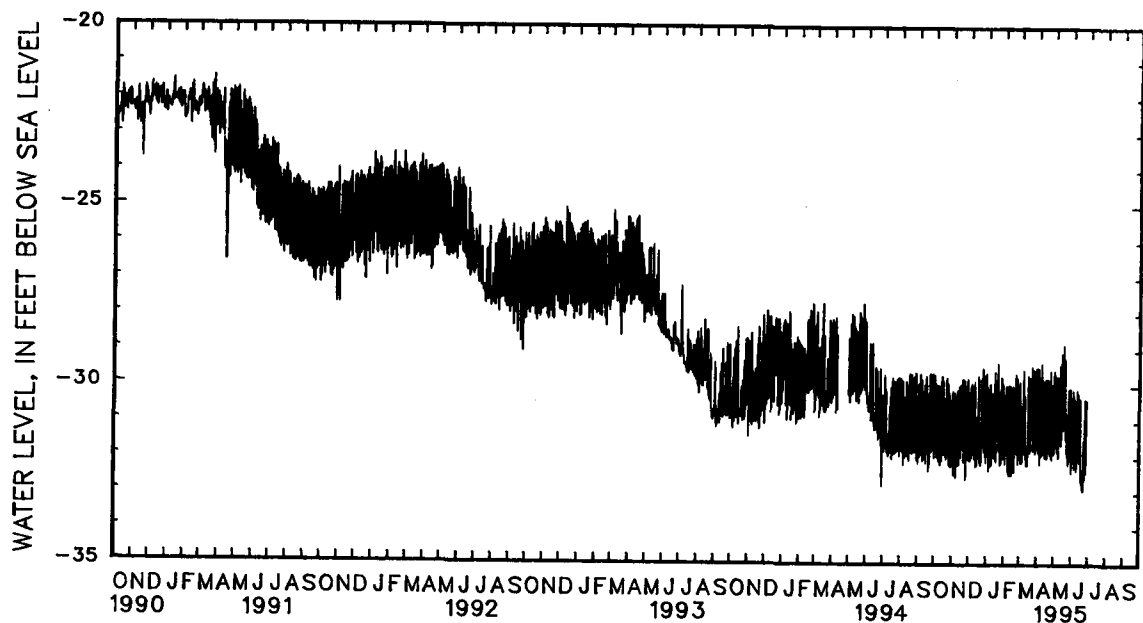
 WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-29.62	-30.05	-29.53	-31.79	-29.82	-30.21	-29.31	-29.63	-29.52	-30.42	-29.63	-29.85
2	-29.55	-29.70	-29.88	-30.12	-29.67	-32.10	-29.39	-31.79	-29.49	-32.18	-29.55	-32.15
3	-29.44	-31.84	-30.02	-32.50	-29.95	-31.06	-29.71	-30.03	-29.55	-30.22	-29.72	-30.57
4	-29.65	-29.95	-29.92	-30.44	-29.78	-30.03	-29.61	-32.38	-29.06	-31.59	-29.56	-32.14
5	-29.63	-32.02	-29.82	-32.23	-29.59	-32.00	-30.10	-30.54	-29.84	-29.99	-29.59	-30.56
6	-29.88	-30.72	-29.69	-30.18	-29.63	-29.92	-29.80	-32.24	-29.91	-30.01	-29.33	-31.81
7	-29.77	-29.98	-29.75	-32.58	-29.50	-31.86	-29.74	-30.39	-29.93	-32.38	-29.54	-30.90
8	-29.83	-32.11	-29.91	-30.59	-30.00	-30.54	-29.68	-29.84	-29.82	-30.08	-29.08	-29.54
9	-29.64	-30.00	-29.86	-32.23	-29.64	-30.00	-29.60	-32.22	-29.92	-32.52	-29.14	-31.90
10	-29.66	-32.19	-30.11	-31.86	-29.64	-32.06	-29.78	-30.24	-29.75	-29.96	-29.79	-30.26
11	-30.02	-32.19	-29.88	-30.11	-29.58	-29.84	-29.75	-31.89	-29.78	-32.19	-29.55	-32.02
12	-29.73	-30.02	-29.82	-32.22	-29.84	-32.26	-29.56	-30.17	-29.81	-30.00	-29.81	-32.02
13	-29.71	-32.10	-29.97	-30.73	-29.97	-31.86	-29.52	-31.99	-29.88	-32.50	-29.57	-32.22
14	-29.71	-29.88	-29.81	-29.99	-29.69	-32.21	-29.70	-30.26	-30.18	-31.02	-29.83	-32.21
15	-29.59	-29.72	-29.67	-32.01	-29.80	-30.83	-29.52	-32.01	-29.79	-32.31	-29.69	-31.75
16	-29.59	-31.89	-29.95	-30.47	-29.54	-31.94	-29.38	-29.56	-29.88	-31.01	-29.39	-29.69
17	-29.70	-29.86	-29.44	-29.97	-29.63	-31.94	-29.52	-32.13	-29.84	-30.00	-29.27	-31.87
18	-29.52	-31.93	-29.44	-31.78	-29.32	-29.63	-29.61	-30.24	-29.92	-32.41	-29.55	-29.88
19	-29.56	-30.34	-29.61	-29.79	-29.39	-32.13	-29.15	-31.41	-29.64	-30.07	-29.59	-31.82
20	-29.59	-31.87	-29.72	-29.88	-29.81	-32.13	-29.01	-31.52	-29.43	-31.87	-29.24	-29.75
21	-29.64	-32.04	-29.58	-32.12	-29.69	-32.23	-29.07	-29.34	-29.49	-30.18	-28.98	-31.47
22	-29.71	-31.13	-29.70	-29.82	-29.82	-32.03	-29.33	-31.81	-29.47	-29.65	-29.40	-30.56
23	-29.46	-29.72	-29.76	-29.86	-29.31	-29.82	-29.49	-30.15	-29.47	-31.90	-29.23	-29.45
24	-29.55	-31.99	-29.82	-32.64	-29.13	-31.69	-29.50	-32.22	-29.52	-29.76	-29.25	-31.82
25	-29.70	-29.93	-29.90	-30.50	-29.36	-29.78	-29.75	-30.41	-29.68	-32.19	-29.50	-30.01
26	-29.72	-32.21	-29.90	-30.02	-29.36	-29.49	-29.70	-32.17	-29.87	-30.40	-29.37	-29.55
27	-29.89	-30.19	-29.75	-32.05	-29.41	-31.84	-29.74	-30.32	-29.64	-29.98	-29.30	-31.71
28	-29.82	-32.25	-29.48	-30.53	-29.37	-29.70	-29.53	-29.74	-29.44	-32.03	-29.32	-31.88
29	-29.91	-30.50	-29.49	-29.76	-29.40	-31.65	-29.56	-32.03	---	---	-29.50	-30.37
30	-29.87	-32.26	-29.71	-32.07	-30.04	-32.15	-29.44	-29.93	---	---	-29.22	-29.50
31	-29.76	-30.40	---	---	-29.63	-30.04	-29.34	-31.76	---	---	-29.19	-31.76
MONTH	-29.44	-32.26	-29.44	-32.64	-29.13	-32.26	-29.01	-32.38	-29.06	-32.52	-28.98	-32.22

GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued
CA Cc 39--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-29.43	-29.80	-29.57	-29.89	-30.05	-30.74	---	---	---	---	---	---
2	-29.30	-29.50	-29.14	-29.57	-29.89	-32.13	---	---	---	---	---	---
3	-29.44	-31.88	-29.27	-31.71	-29.99	-31.08	---	---	---	---	---	---
4	-29.18	-29.52	-29.42	-29.77	-29.96	-30.10	---	---	---	---	---	---
5	-29.52	-32.20	-29.21	-29.75	-29.93	-32.32	---	---	---	---	---	---
6	-29.52	-30.02	-29.73	-31.85	-29.73	-30.34	---	---	---	---	---	---
7	-29.47	-31.96	-29.39	-29.73	-29.73	-32.16	---	---	---	---	---	---
8	-29.37	-30.94	-29.40	-32.01	-29.98	-30.97	---	---	---	---	---	---
9	-29.23	-29.37	-29.40	-30.10	-29.95	-32.38	---	---	---	---	---	---
10	-29.25	-31.91	-29.11	-31.64	-30.10	-30.97	---	---	---	---	---	---
11	-29.57	-29.83	-29.41	-31.31	-29.82	-30.10	---	---	---	---	---	---
12	-29.42	-31.71	-29.20	-29.41	-29.98	-32.08	---	---	---	---	---	---
13	-29.42	-30.01	-29.13	-31.66	-30.03	-30.22	---	---	---	---	---	---
14	-29.45	-32.00	-29.08	-30.69	-29.82	-32.14	---	---	---	---	---	---
15	-29.79	-31.11	-28.85	-29.08	-30.27	-30.77	---	---	---	---	---	---
16	-29.50	-29.81	-28.76	-31.21	-30.20	-30.35	---	---	---	---	---	---
17	-29.60	-32.02	-28.76	-31.21	-30.24	-32.52	---	---	---	---	---	---
18	-29.47	-29.82	-28.70	-28.84	-30.33	-32.73	---	---	---	---	---	---
19	-29.26	-31.85	-28.73	-31.04	-30.38	-32.41	---	---	---	---	---	---
20	-29.54	-29.81	-28.97	-29.23	-30.32	-32.88	---	---	---	---	---	---
21	-29.32	-31.84	-28.97	-31.48	-30.56	-32.93	---	---	---	---	---	---
22	-29.52	-29.99	-29.60	-30.76	-30.43	-31.52	---	---	---	---	---	---
23	-29.52	-31.92	-29.59	-31.97	-30.30	-32.64	---	---	---	---	---	---
24	-29.52	-31.92	-29.78	-31.47	-30.35	-31.31	---	---	---	---	---	---
25	-29.47	-29.57	-29.68	-32.23	-30.19	-30.35	---	---	---	---	---	---
26	-29.47	-32.07	-30.08	-31.00	-30.14	-32.44	---	---	---	---	---	---
27	-29.55	-29.98	-29.77	-30.09	-30.39	-31.09	---	---	---	---	---	---
28	-29.55	-31.89	-29.68	-32.08	-30.10	-30.41	---	---	---	---	---	---
29	-29.64	-29.96	-29.73	-30.43	---	---	---	---	---	---	---	---
30	-29.48	-31.90	-29.72	-30.05	---	---	---	---	---	---	---	---
31	---	---	-29.94	-32.45	---	---	---	---	---	---	---	---
MONTH	-29.18	-32.20	-28.70	-32.45	-29.73	-32.93	---	---	---	---	---	---
YEAR	-28.70	-32.93										

Daily Low Water Levels



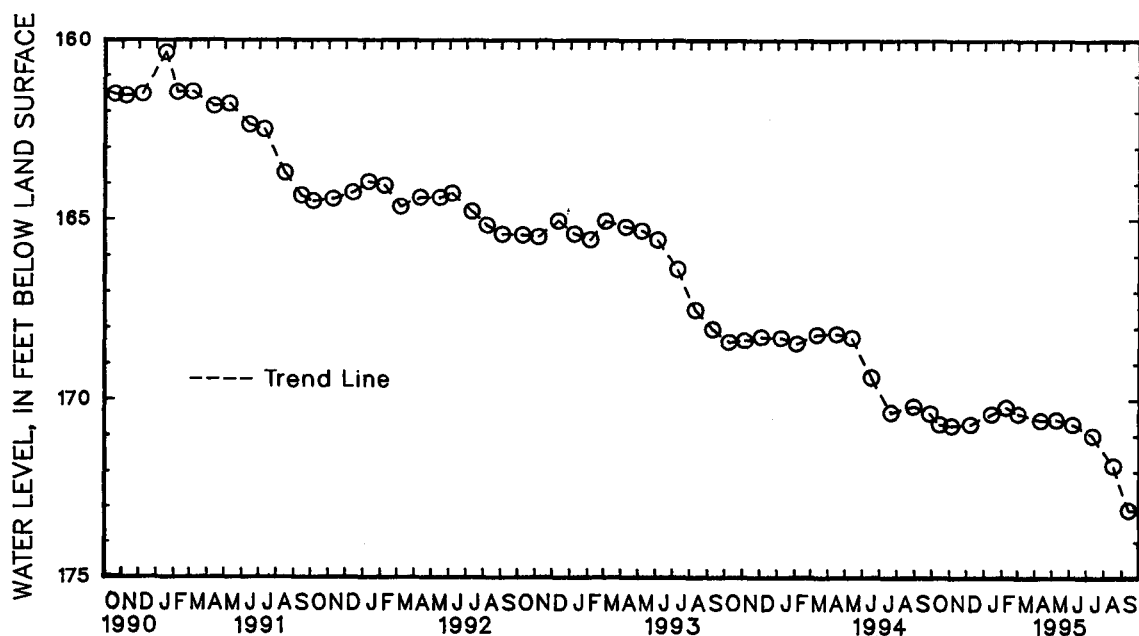
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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. nr 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 138.6 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 1.66 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 173.12 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	170.73	DEC 8	170.73	FEB 8	170.25	APR 11	170.62	JUN 7	170.73	AUG 16	171.88
NOV 4	170.77	JAN 13	170.44	MAR 1	170.45	MAY 9	170.60	JUL 12	171.05	SEP 12	173.12
WATER YEAR 1995		HIGHEST 170.25		FEB 8, 1995		LOWEST 173.12		SEP 12, 1995			

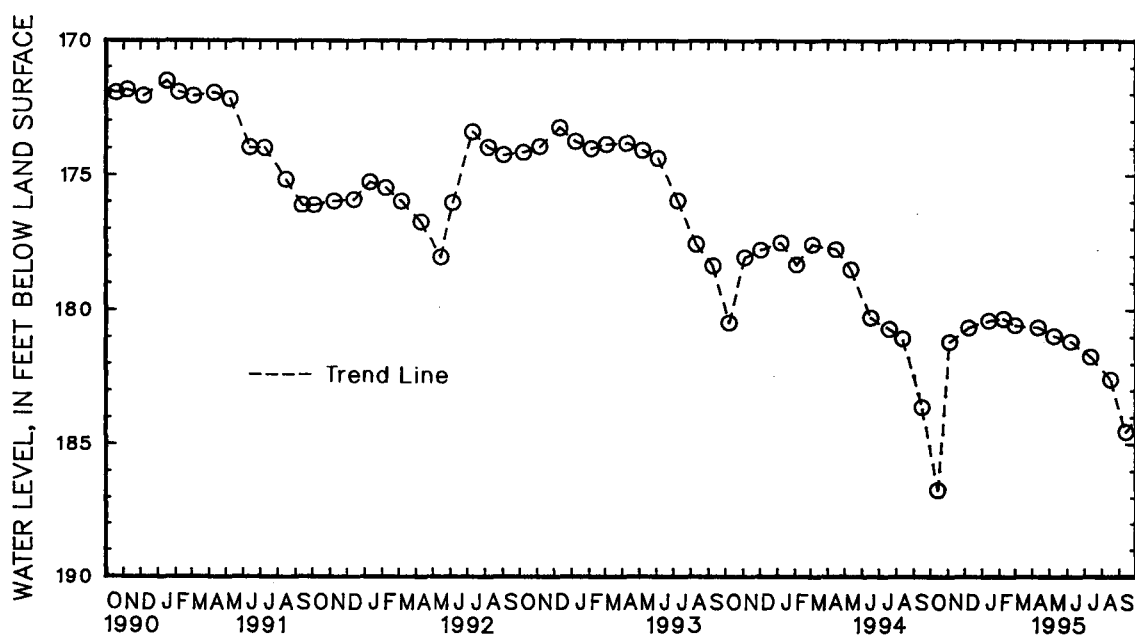


GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued

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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 140 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 1.20 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 186.78 ft below land surface, Oct. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	186.78	DEC 8	180.66	FEB 8	180.33	APR 11	180.66	JUN 7	181.20	AUG 16	182.65
NOV 4	181.19	JAN 13	180.40	MAR 1	180.56	MAY 9	180.99	JUL 12	181.78	SEP 12	184.60
WATER YEAR 1995		HIGHEST 180.33		FEB 8, 1995		LOWEST 186.78		OCT 14, 1994			



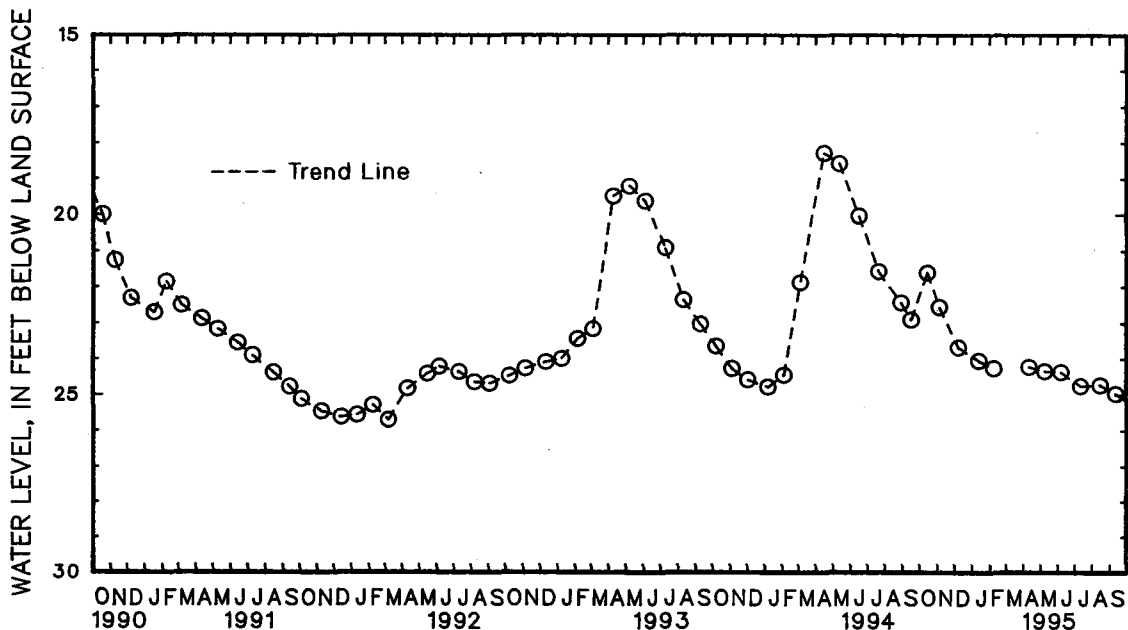
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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. Pauls Episcopal Church parking lot, Prince Frederick.
Owner: U.S. Geological Survey.
AQUIFER.--Upland Deposit of Pleistocene age. Aquifer code: 112UPLD.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 159.33 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of protective casing, 2.56 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	21.63	DEC 8	23.76	FEB 8	24.33	MAY 9	24.42	JUL 12	24.83	SEP 12	25.04
NOV 4	22.61	JAN 13	24.13	APR 11	24.30	JUN 7	24.44	AUG 16	24.80		
WATER YEAR 1995		HIGHEST	21.63	OCT 14, 1994		LOWEST	25.04	SEP 12, 1995			

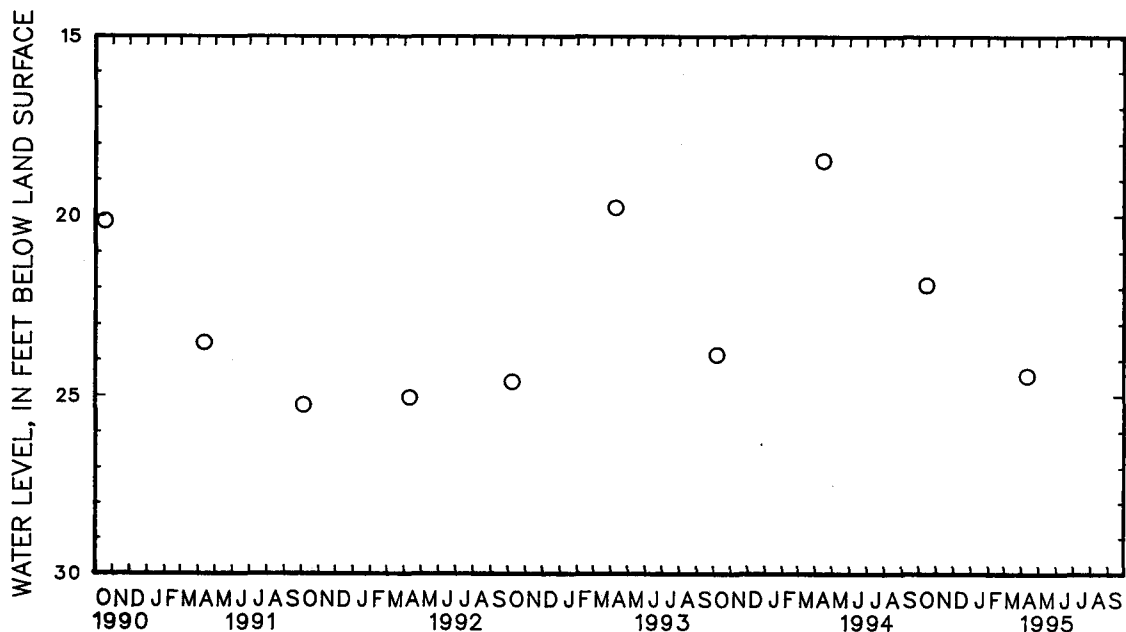


GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued

WELL NUMBER.--CA Db 66. SITE ID.--383216076351402. PERMIT NUMBER.--CA-81-2415.
LOCATION.--Lat 38°32'16", long 76°35'14", Hydrologic Unit 02060006, at St. Pauls Episcopal Church parking lot, Prince Frederick.
Owner: U.S. Geological Survey.
AQUIFER.--Upland Deposit of Pleistocene age. Aquifer code: 112UPLD.
WELL CHARACTERISTICS.--Drilled, water-table, observation well, depth 34 ft; casing diameter 3 in., to 21 ft, and 31 to 34 ft; screen diameter 3 in. from 21 to 31 ft.
INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 159.59 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of protective casing, 2.64 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--July 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.01 ft below land surface, April 9, 1990; lowest measured, 26.89 ft below land surface, Feb. 14, 1989 and March 14, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	21.96	APR 11	24.50
WATER YEAR 1995 HIGHEST 21.96 OCT 14, 1994 LOWEST 24.50 APR 11, 1995			



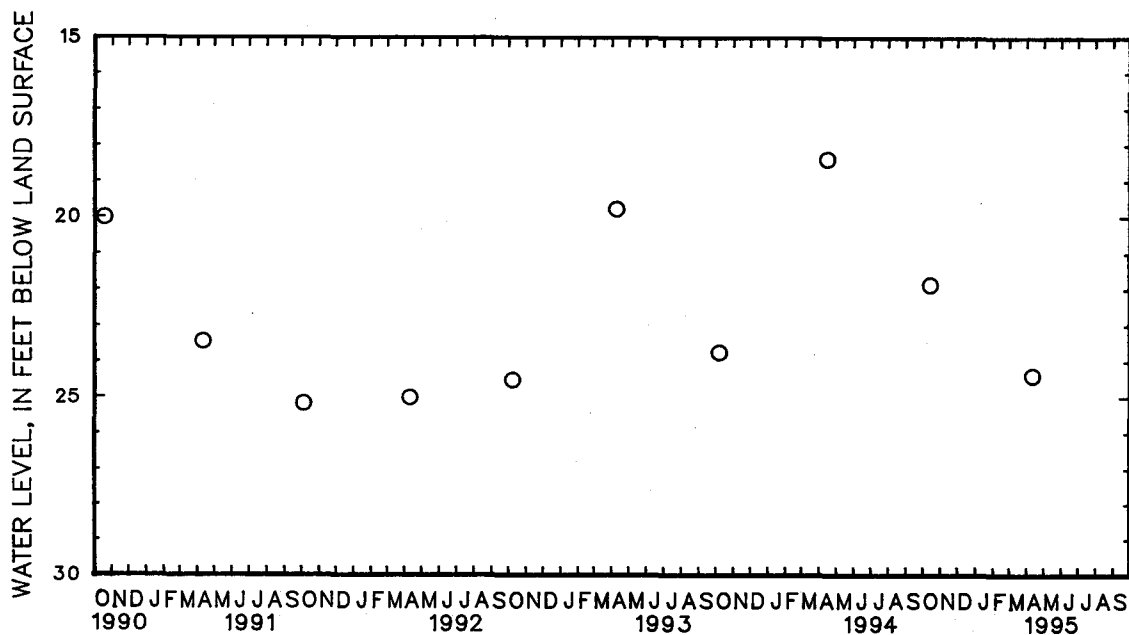
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued

WELL NUMBER.--CA Db 67. SITE ID.--383216076351403. PERMIT NUMBER.--CA-81-2415.
LOCATION.--Lat 38°32'16", long 76°35'14", Hydrologic Unit 02060006, at St. Pauls Episcopal Church parking lot,
Prince Frederick.
Owner: U.S. Geological Survey.
AQUIFER.--Upland Deposit of Pleistocene age. Aquifer code: 112UPLD.
WELL CHARACTERISTICS.--Drilled, water-table, observation well, depth 31 ft; casing diameter 3 in., to 18 ft,
and 28 to 31 ft; screen diameter 3 in. from 18 to 28 ft.
INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 159.59 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of protective casing, 2.70 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--July 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.37 ft below land surface, April 9, 1990;
lowest measured, 26.79 ft below land surface, Feb. 14, 1989 and March 14, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	21.92	APR 11	24.46
WATER YEAR 1995 HIGHEST 21.92 OCT 14, 1994 LOWEST 24.46 APR 11, 1995			



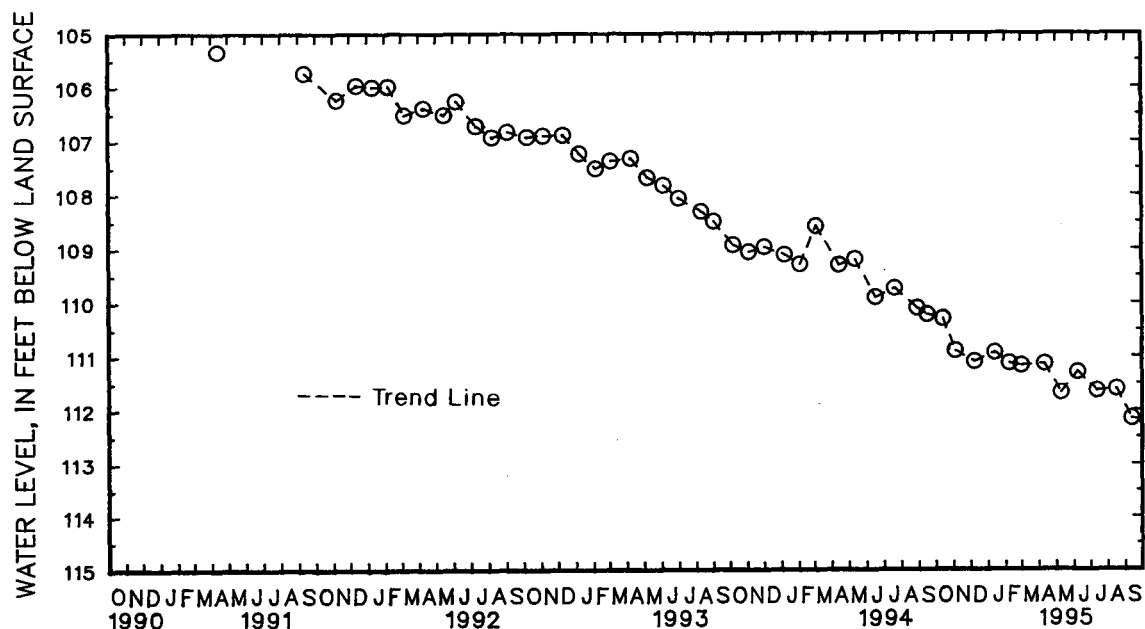
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 1.9 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well,
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, 112.20 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	110.33	DEC 8	111.15	FEB 8	111.18	APR 11	111.19	JUN 7	111.33	AUG 16	111.65
NOV 4	110.95	JAN 13	110.98	MAR 1	111.22	MAY 9	111.72	JUL 12	111.69	SEP 12	112.20
WATER YEAR 1995		HIGHEST	110.33	OCT 14, 1994		LOWEST	112.20	SEP 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

205

MARYLAND--Continued

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.--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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval from Oct. 2, 1986 to current year.
 DATUM.--Elevation of land surface is 47.44 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.10 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well, Maryland Water Quality Network observation well and
 Best Management Practices Project observation well. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.59 ft below land surface, April 3, 1994;
 lowest measured, 30.69 ft below land surface, Feb. 27, and 28, 1989.

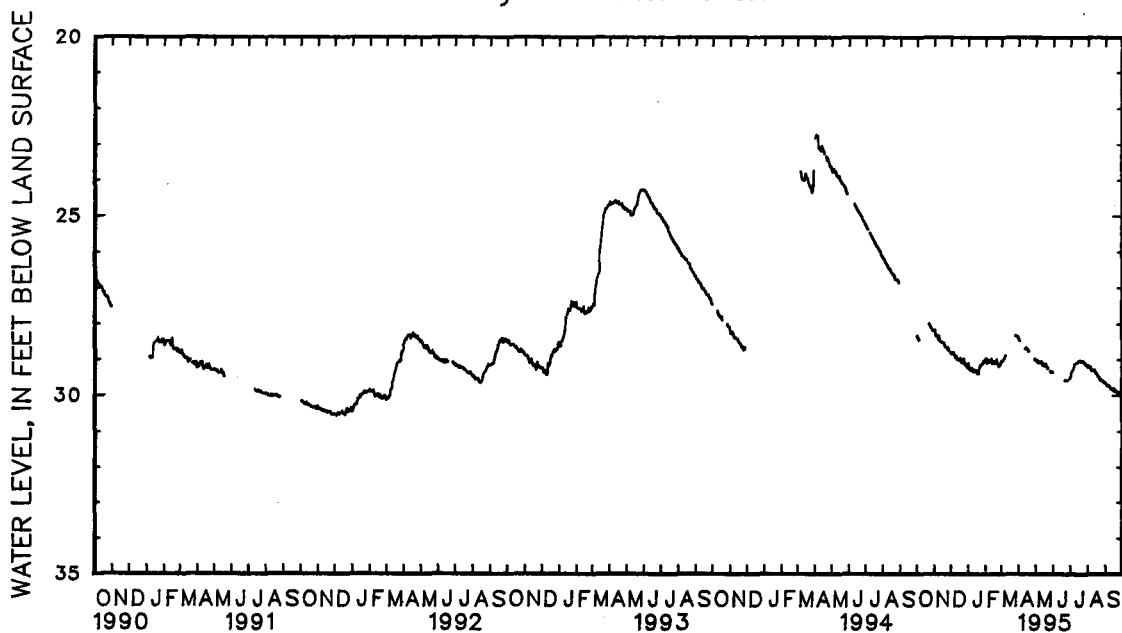
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.34	28.29	28.17	28.06	28.85	28.82	29.12	29.09	28.97	28.86	29.05	29.02
2	28.38	28.33	28.32	28.17	28.84	28.79	29.26	29.09	29.05	28.97	29.05	29.03
3	28.40	28.38	28.33	28.32	28.83	28.81	29.28	29.22	29.11	29.00	29.03	29.01
4	28.43	28.40	28.33	28.32	28.85	28.82	29.27	29.21	29.00	28.84	29.01	28.98
5	28.46	28.42	28.32	28.32	28.82	28.75	29.31	29.27	29.06	28.94	28.98	28.95
6	---	---	28.35	28.30	28.86	28.82	29.28	29.08	29.06	29.01	28.95	28.91
7	---	---	28.44	28.35	28.90	28.79	29.25	29.03	29.05	29.00	28.92	28.88
8	---	---	28.44	28.36	28.96	28.90	29.32	29.25	29.06	28.99	28.88	28.57
9	---	---	28.36	28.35	28.85	28.88	29.32	29.30	29.07	29.01	---	---
10	---	---	28.48	28.35	28.91	28.78	29.35	29.32	29.01	28.94	---	---
11	---	---	28.50	28.48	28.99	28.78	29.34	29.30	28.98	28.95	---	---
12	---	---	28.51	28.50	29.02	28.99	29.30	29.27	29.11	28.98	---	---
13	---	---	28.50	28.49	29.00	28.97	29.34	29.30	29.12	29.08	---	---
14	---	---	28.52	28.50	29.00	28.98	29.34	29.31	29.10	29.08	---	---
15	---	---	28.53	28.52	29.02	29.00	29.31	29.24	29.09	28.96	---	---
16	---	---	28.55	28.53	29.03	28.97	29.35	29.27	29.05	28.95	---	---
17	---	---	28.55	28.55	28.97	28.93	29.39	29.35	29.11	29.05	---	---
18	---	---	28.56	28.55	29.00	28.93	29.41	29.39	29.11	29.08	---	---
19	---	---	28.64	28.56	29.07	29.00	29.41	29.25	29.08	29.00	---	---
20	---	---	28.66	28.64	29.10	29.07	29.25	29.06	29.01	28.92	---	---
21	28.00	27.95	28.66	28.46	29.10	29.08	29.17	29.11	29.06	28.92	---	---
22	28.02	28.00	28.67	28.50	29.08	28.98	29.19	29.17	29.12	29.06	---	---
23	28.05	28.01	28.67	28.63	28.98	28.94	29.17	29.11	29.14	29.07	---	---
24	28.09	28.05	28.71	28.67	29.01	28.92	29.15	29.11	29.19	29.06	---	---
25	28.11	28.08	28.69	28.67	29.14	29.01	29.15	29.11	29.19	29.13	---	---
26	28.14	28.11	28.75	28.68	29.17	29.14	29.11	29.08	29.15	29.12	28.32	28.30
27	28.17	28.14	28.76	28.66	29.17	29.13	29.09	29.05	29.15	29.07	28.32	28.32
28	28.19	28.17	---	---	29.13	29.09	29.05	29.02	29.07	29.00	28.32	28.32
29	28.20	28.19	---	---	29.22	29.13	29.07	29.03	---	---	28.34	28.32
30	28.20	28.19	28.82	28.78	29.24	29.22	29.05	28.97	---	---	28.34	28.34
31	28.20	28.14	---	---	29.23	29.12	29.01	28.97	---	---	28.36	28.34
MONTH	28.46	27.95	28.82	28.06	29.24	28.75	29.41	28.97	29.19	28.84	29.05	28.30

GROUND-WATER LEVELS
 MARYLAND--Continued
 CALVERT COUNTY--Continued
 CA Fc 13--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	28.38	28.36	29.03	28.99	---	---	29.51	29.39	29.18	29.16	29.66	29.62
2	28.44	28.38	29.03	28.97	---	---	29.39	29.34	29.22	29.18	29.69	29.66
3	28.48	28.44	29.08	29.03	---	---	29.34	29.32	29.23	29.21	29.72	29.69
4	28.48	28.45	29.08	29.04	---	---	29.32	29.30	29.22	29.19	29.73	29.72
5	---	---	29.05	29.01	---	---	29.30	29.26	29.20	29.18	29.74	29.73
6	---	---	29.09	29.05	---	---	29.26	29.19	29.26	29.19	29.74	29.73
7	---	---	29.10	29.06	---	---	29.19	29.14	29.32	29.26	29.73	29.71
8	---	---	29.11	29.08	---	---	29.14	29.12	29.32	29.31	29.75	29.71
9	---	---	29.11	29.06	---	---	29.14	29.12	---	---	29.76	29.74
10	---	---	29.06	29.02	---	---	29.12	29.09	29.31	29.30	29.81	29.76
11	28.70	28.68	29.06	29.02	---	---	29.10	29.08	29.31	29.31	29.83	29.81
12	28.70	28.67	29.11	29.06	---	---	29.10	29.09	29.31	29.31	29.82	29.81
13	28.67	28.67	29.16	29.11	---	---	29.10	29.07	29.34	29.31	29.81	29.77
14	28.69	28.67	29.18	29.10	---	---	29.08	29.04	29.37	29.34	29.83	29.78
15	28.70	28.69	29.14	29.10	---	---	29.05	29.02	29.39	29.37	29.87	29.83
16	28.72	28.70	29.17	29.13	29.58	29.56	29.05	29.03	29.39	29.39	29.87	29.80
17	28.76	28.72	29.13	29.08	---	---	29.04	29.00	29.42	29.39	29.82	29.75
18	28.78	28.76	29.13	29.10	---	---	29.03	29.00	29.45	29.42	29.89	29.82
19	28.78	28.78	29.19	29.10	---	---	29.06	29.03	29.49	29.45	29.90	29.89
20	---	---	29.21	29.19	---	---	29.07	29.05	29.49	29.49	29.89	29.89
21	---	---	29.22	29.21	29.58	29.55	29.05	29.03	29.52	29.49	29.90	29.89
22	---	---	29.26	29.22	29.58	29.58	29.06	29.04	29.56	29.52	29.92	29.87
23	---	---	---	---	29.59	29.58	29.05	29.03	29.59	29.56	29.96	29.92
24	28.90	28.87	---	---	29.59	29.58	29.07	29.05	29.57	29.54	29.96	29.93
25	---	---	---	---	29.58	29.58	29.09	29.07	29.60	29.55	29.93	29.91
26	---	---	29.33	29.32	29.60	29.58	29.09	29.08	29.60	29.59	29.93	29.91
27	---	---	29.37	29.33	---	---	29.13	29.09	29.60	29.59	29.97	29.93
28	28.99	28.93	29.37	29.37	---	---	29.15	29.13	29.62	29.60	29.99	29.97
29	29.02	28.99	29.37	29.35	29.54	29.53	29.15	29.13	29.63	29.62	30.01	29.99
30	29.01	28.95	29.35	29.35	29.53	29.51	29.16	29.15	29.65	29.63	30.01	30.00
31	---	---	29.37	29.35	---	---	29.18	29.16	29.65	29.61	---	---
MONTH	29.02	28.36	29.37	28.97	29.60	29.51	29.51	29.00	29.65	29.16	30.01	29.62
YEAR	30.01	27.95										

Daily Low Water Levels



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

207

MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fc 16. SITE ID.--382340076303002. PERMIT NUMBER.--CA-81-2392.
 LOCATION.--Lat 38°23'40", long 76°30'35", Hydrologic Unit 02060006, Jefferson Patterson Park and Museum.
 Owner: U. S. Geological Survey.
 AQUIFER.--Chesapeake Group of Miocene age. Aquifer code: 122CSFK.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 23 ft; casing diameter 3.5 in., to 18 ft; screen diameter 3.5 in. from 18 to 23 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--30-minute recorder interval from Dec. 24, 1986 to Sept. 3, 1987, and Jan. 11, 1989 to current year.
 DATUM.--Elevation of land surface is 30.75 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 1.72 ft above land surface.
 REMARKS.--Best Management Practices Project observation well. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.66 ft below land surface, March 29, 1994; lowest measured, 19.34 ft below land surface, Jan. 27, 1989.

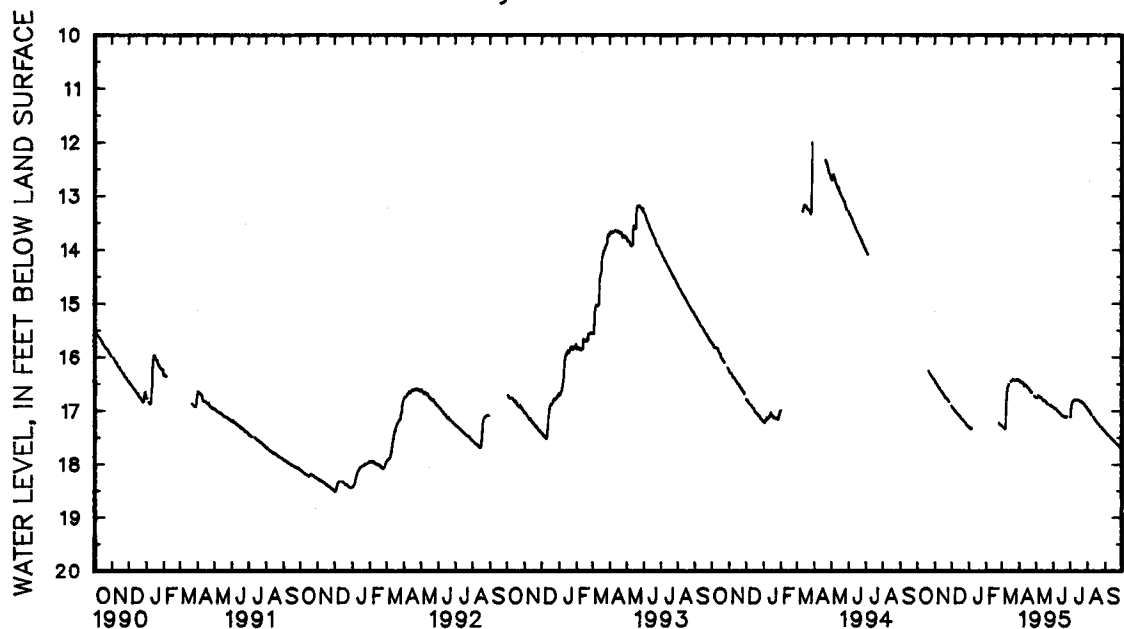
WATER LEVEL, IN FEET BELOW LAND SURFACE, YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	16.44	16.41	16.92	16.91	17.31	17.30	---	---	17.28	17.27
2	---	---	16.48	16.44	16.94	16.92	17.32	17.31	---	---	17.30	17.28
3	---	---	16.49	16.48	16.95	16.92	17.33	17.32	---	---	17.31	17.30
4	---	---	16.50	16.49	16.96	16.95	17.34	17.31	---	---	17.32	17.31
5	---	---	16.51	16.50	16.98	16.95	17.33	17.24	---	---	17.33	17.32
6	---	---	16.54	16.51	16.99	16.98	17.34	17.33	---	---	17.34	17.32
7	---	---	16.56	16.54	17.00	16.99	17.34	17.34	---	---	17.34	17.33
8	---	---	16.56	16.54	17.01	16.98	---	---	---	---	17.34	16.83
9	---	---	16.57	16.56	17.04	16.98	---	---	---	---	17.07	16.79
10	---	---	16.61	16.57	17.04	17.04	---	---	---	---	16.79	16.64
11	---	---	16.62	16.61	17.05	17.04	---	---	---	---	16.64	16.57
12	---	---	16.63	16.62	17.07	17.05	---	---	---	---	16.57	16.54
13	---	---	16.65	16.63	17.08	17.07	---	---	---	---	16.54	16.51
14	---	---	16.66	16.65	17.09	17.08	---	---	---	---	16.51	16.49
15	---	---	16.68	16.66	17.10	17.08	---	---	---	---	---	---
16	---	---	16.69	16.68	17.11	17.10	---	---	---	---	---	---
17	---	---	16.70	16.69	17.13	17.11	---	---	---	---	16.45	16.43
18	---	---	16.72	16.70	17.15	17.13	---	---	---	---	16.45	16.43
19	---	---	16.75	16.72	17.15	17.15	---	---	---	---	16.43	16.43
20	---	---	16.76	16.75	17.16	17.15	---	---	---	---	16.43	16.40
21	16.27	16.24	16.76	16.55	17.16	17.16	---	---	---	---	16.41	16.39
22	16.28	16.27	16.78	16.73	17.18	17.16	---	---	---	---	16.42	16.40
23	16.31	16.28	16.79	16.76	17.20	17.18	---	---	---	---	16.42	16.40
24	16.32	16.31	16.80	16.79	17.21	17.20	---	---	17.24	17.19	16.43	16.41
25	16.35	16.32	16.81	16.79	17.22	17.21	---	---	17.25	17.24	16.43	16.41
26	16.36	16.35	16.83	16.81	17.23	17.22	---	---	17.27	17.24	16.43	16.41
27	16.38	16.36	16.84	16.81	17.25	17.23	---	---	17.27	17.26	16.42	16.41
28	16.39	16.38	---	---	17.27	17.25	---	---	17.27	17.25	16.42	16.41
29	16.41	16.39	---	---	17.27	17.27	---	---	---	---	16.43	16.42
30	16.42	16.41	---	---	17.28	17.26	---	---	---	---	16.42	16.41
31	16.42	16.41	---	---	17.30	17.28	---	---	---	---	16.43	16.42
MONTH	16.42	16.24	16.84	16.41	17.30	16.91	17.34	17.24	17.27	17.19	17.34	16.39

GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued
CA Fc 16--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.43	16.42	16.76	16.75	16.94	16.93	---	---	16.96	16.95	17.40	17.38
2	16.45	16.43	16.76	16.75	16.94	16.94	17.12	16.97	16.99	16.96	17.41	17.40
3	16.46	16.43	16.76	16.74	16.95	16.94	16.97	16.89	17.00	16.99	17.43	17.41
4	16.46	16.41	16.74	16.72	16.96	16.95	16.89	16.86	17.00	17.00	17.44	17.43
5	16.48	16.46	16.72	16.70	16.96	16.96	16.86	16.83	17.02	17.00	17.45	17.44
6	16.47	16.45	16.73	16.71	16.96	16.95	16.83	16.81	17.05	17.02	17.45	17.45
7	16.48	16.45	16.73	16.72	16.98	16.95	16.81	16.80	17.07	17.05	17.46	17.45
8	16.48	16.45	16.75	16.73	17.00	16.98	16.80	16.80	17.08	17.07	17.47	17.46
9	16.50	16.46	16.75	16.74	17.01	17.00	16.80	16.80	---	---	17.48	17.47
10	16.54	16.50	16.75	16.73	17.02	17.01	16.80	16.80	---	---	17.50	17.48
11	16.53	16.52	16.76	16.74	17.03	17.01	16.80	16.77	17.12	17.10	17.51	17.50
12	16.52	16.49	16.78	16.76	17.03	17.01	16.80	16.80	17.13	17.12	17.52	17.51
13	16.52	16.49	16.80	16.78	17.04	17.03	16.80	16.80	17.16	17.13	17.53	17.52
14	16.54	16.52	16.81	16.77	17.06	17.04	16.80	16.80	17.17	17.16	17.54	17.53
15	16.55	16.53	16.81	16.79	17.08	17.06	16.80	16.80	17.19	17.17	17.55	17.54
16	16.56	16.54	16.82	16.81	17.09	17.08	16.80	16.80	17.20	17.19	17.56	17.55
17	16.58	16.56	16.81	16.80	17.09	17.09	16.80	16.80	17.21	17.20	17.57	17.55
18	16.59	16.58	16.82	16.81	17.10	17.09	16.81	16.80	17.23	17.21	17.59	17.57
19	16.59	16.57	16.84	16.81	17.10	17.10	16.82	16.81	17.24	17.23	17.60	17.59
20	16.62	16.59	16.85	16.84	17.11	17.10	16.82	16.82	17.25	17.24	17.61	17.60
21	16.62	16.60	16.86	16.85	17.11	17.11	16.84	16.82	17.26	17.25	17.62	17.61
22	16.65	16.62	16.88	16.86	17.12	17.11	16.84	16.83	17.28	17.26	17.63	17.62
23	16.66	16.64	---	---	17.13	17.12	16.84	16.84	17.29	17.28	17.64	17.63
24	16.66	16.63	---	---	17.13	17.06	16.86	16.84	17.30	17.29	17.65	17.64
25	---	---	---	---	17.12	17.11	16.87	16.86	17.31	17.30	17.66	17.65
26	---	---	16.90	16.89	17.12	17.11	16.88	16.87	17.32	17.31	17.67	17.66
27	---	---	16.91	16.90	---	---	16.90	16.88	17.34	17.32	17.68	17.67
28	16.73	16.70	16.92	16.90	---	---	16.91	16.90	17.35	17.34	17.70	17.68
29	16.74	16.73	16.90	16.89	---	---	16.92	16.91	17.36	17.35	17.71	17.70
30	16.75	16.73	16.92	16.90	---	---	16.94	16.92	17.38	17.36	17.71	17.71
31	---	---	16.93	16.92	---	---	16.95	16.94	17.38	17.38	---	---
MONTH	16.75	16.41	16.93	16.70	17.13	16.93	17.12	16.77	17.38	16.95	17.71	17.38
YEAR	17.71	16.24										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

209

MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fc 18. SITE ID.--382340076303801. PERMIT NUMBER.--CA-81-2387.
 LOCATION.--Lat 38°23'39", long 76°30'39", Hydrologic Unit 02060006, Jefferson Patterson Park and Museum.
 Owner: U.S. Geological Survey.
 AQUIFER.--Chesapeake Group of Miocene age. Aquifer code: 122CSPK.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 23 ft; casing diameter 3.5 in., to 18 ft; screen diameter 3.5 in. from 18 to 23 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--15-minute recorder interval from Oct. 2, 1986 to current year.
 DATUM.--Elevation of land surface is 15.56 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.81 ft above land surface.
 REMARKS.--Best Management Practices Project observation well. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.53 ft below land surface, March 2, 1994; lowest measured, 9.67 ft below land surface, Dec. 2, 1991.

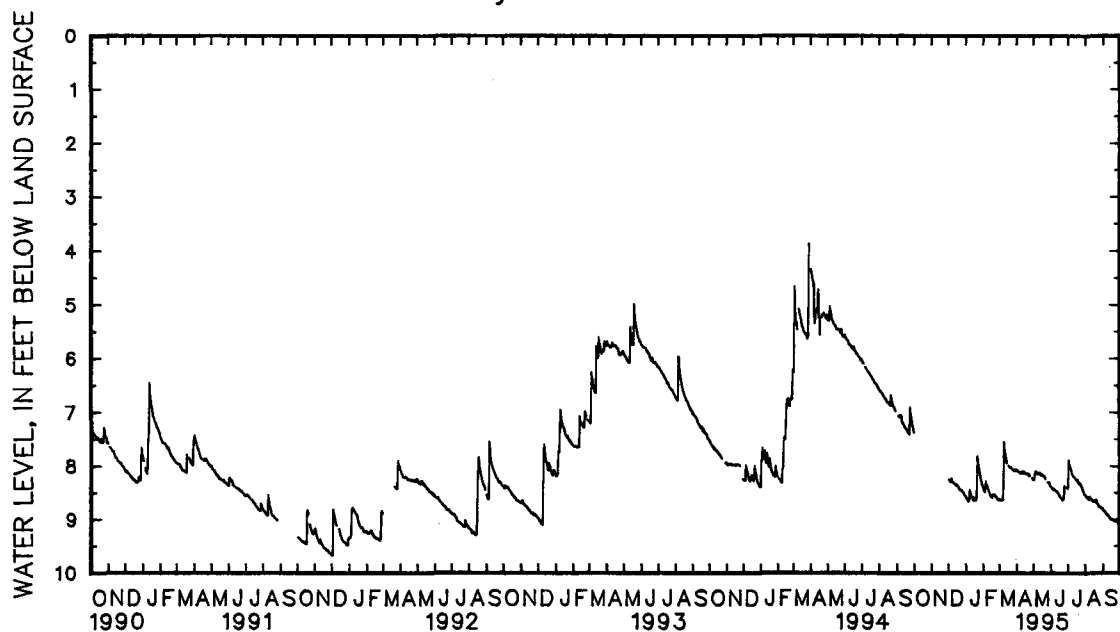
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	8.26	8.24	8.58	8.57	8.43	8.39	8.63	8.61
2	---	---	---	---	8.27	8.25	8.61	8.58	8.47	8.43	8.63	8.63
3	---	---	---	---	8.29	8.27	8.62	8.61	8.49	8.47	8.64	8.63
4	---	---	---	---	8.30	8.29	8.64	8.62	8.49	8.19	8.64	8.63
5	---	---	---	---	8.30	8.19	8.66	8.64	8.29	8.23	8.64	8.63
6	---	---	---	---	8.24	8.21	8.66	8.65	8.35	8.29	8.63	8.61
7	---	---	---	---	8.28	8.24	8.65	8.32	8.37	8.35	8.62	8.62
8	---	---	---	---	8.31	8.28	8.46	8.41	8.41	8.37	8.63	8.23
9	---	---	---	---	8.31	8.31	8.50	8.46	8.43	8.41	7.56	6.47
10	---	---	---	---	8.32	8.30	8.54	8.50	8.46	8.43	7.69	7.56
11	---	---	---	---	8.33	8.30	8.57	8.54	8.49	8.46	7.77	7.69
12	---	---	---	---	8.35	8.33	8.59	8.57	8.52	8.49	7.84	7.77
13	7.68	7.66	---	---	8.36	8.35	8.62	8.59	8.55	8.52	7.89	7.84
14	---	---	---	---	8.37	8.36	8.65	8.62	8.58	8.55	7.94	7.89
15	---	---	---	---	8.36	8.35	8.65	8.60	8.59	8.58	---	---
16	---	---	---	---	8.37	8.36	8.60	8.59	8.59	8.55	---	---
17	---	---	---	---	8.37	8.36	8.64	8.60	8.55	8.53	8.00	7.98
18	---	---	---	---	8.39	8.37	8.65	8.64	8.54	8.54	8.02	8.00
19	---	---	---	---	8.41	8.39	8.64	8.60	8.55	8.54	8.03	8.02
20	---	---	---	---	8.43	8.41	8.60	7.74	8.55	8.54	8.03	8.02
21	---	---	---	---	8.45	8.43	7.82	7.74	8.54	8.54	8.02	8.00
22	---	---	---	---	8.46	8.45	7.90	7.82	8.57	8.54	8.04	8.02
23	---	---	---	---	8.46	8.46	7.98	7.90	8.57	8.54	8.05	8.04
24	---	---	---	---	8.46	8.46	8.07	7.98	8.58	8.54	8.06	8.05
25	---	---	---	---	8.47	8.46	8.13	8.07	8.60	8.58	8.08	8.06
26	---	---	---	---	8.49	8.47	8.19	8.13	8.63	8.60	8.09	8.08
27	---	---	---	---	8.50	8.49	8.24	8.19	8.64	8.63	8.09	8.07
28	---	---	---	---	8.51	8.50	8.29	8.24	8.64	8.61	8.08	8.06
29	---	---	---	---	8.54	8.51	8.34	8.29	---	---	8.08	8.06
30	---	---	---	---	8.56	8.54	8.36	8.34	---	---	8.07	8.05
31	---	---	---	---	8.57	8.56	8.39	8.36	---	---	8.07	8.06
MONTH	7.68	7.66	---	---	8.57	8.19	8.66	7.74	8.64	8.19	8.64	6.23

GROUND-WATER LEVELS
 MARYLAND--Continued
 CALVERT COUNTY--Continued
 CA Fc 18--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.09	8.07	8.26	8.24	8.40	8.38	8.42	7.14	8.55	8.54	8.83	8.80
2	8.09	8.07	8.26	8.15	8.41	8.39	7.89	7.63	8.56	8.55	8.84	8.83
3	8.08	8.07	8.15	8.11	8.41	8.40	7.98	7.89	8.58	8.56	8.85	8.84
4	8.10	8.05	8.11	8.10	8.44	8.41	7.99	7.96	8.59	8.58	8.86	8.85
5	8.12	8.10	8.10	8.09	8.45	8.44	8.02	7.99	8.61	8.59	8.88	8.86
6	8.12	8.11	8.13	8.10	8.44	8.42	8.07	8.02	8.62	8.61	8.89	8.88
7	8.13	8.12	8.13	8.13	8.44	8.42	8.09	8.05	8.62	8.59	8.91	8.89
8	8.14	8.11	8.14	8.13	8.45	8.43	8.13	8.09	8.59	8.56	8.91	8.90
9	8.11	8.10	8.15	8.13	8.47	8.45	8.16	8.13	---	---	8.92	8.91
10	8.14	8.10	8.13	8.11	8.47	8.46	8.19	8.16	---	---	8.93	8.91
11	8.14	8.12	8.12	8.11	8.48	8.45	8.19	8.15	8.62	8.60	8.95	8.93
12	8.13	8.10	8.14	8.12	8.48	8.46	8.20	8.18	8.64	8.62	8.96	8.95
13	8.10	8.07	8.16	8.13	8.51	8.48	8.22	8.19	8.66	8.63	8.97	8.96
14	8.11	8.09	8.17	8.14	8.51	8.49	8.23	8.20	8.66	8.65	8.99	8.97
15	8.13	8.11	8.15	8.13	8.54	8.50	8.26	8.23	8.67	8.66	9.00	8.99
16	8.14	8.12	8.17	8.15	8.56	8.54	8.27	8.26	8.67	8.66	9.00	9.00
17	8.15	8.13	8.17	8.15	8.58	8.56	8.27	8.26	8.67	8.66	9.00	8.98
18	8.15	8.13	8.18	8.15	8.59	8.58	8.27	8.26	8.68	8.67	9.01	8.98
19	8.14	8.12	8.19	8.16	8.60	8.59	8.30	8.27	8.68	8.64	9.02	9.01
20	8.15	8.14	8.19	8.19	8.61	8.60	8.32	8.30	8.64	8.62	9.02	9.02
21	8.15	8.14	8.21	8.19	8.64	8.61	8.33	8.31	8.66	8.63	9.02	9.02
22	8.15	8.15	8.24	8.21	8.63	8.61	8.33	8.31	8.71	8.66	9.02	9.01
23	8.18	8.15	---	---	8.62	8.61	8.34	8.32	8.73	8.71	9.04	9.01
24	8.18	8.13	---	---	8.61	8.38	8.36	8.33	8.75	8.73	9.04	9.04
25	---	---	---	---	8.38	8.37	8.38	8.35	8.77	8.75	9.04	9.01
26	---	---	8.31	8.29	8.40	8.37	8.41	8.38	8.77	8.75	9.01	9.01
27	---	---	8.31	8.30	---	---	8.44	8.41	8.78	8.76	9.03	9.01
28	8.23	8.20	8.31	8.30	---	---	8.47	8.44	8.79	8.78	9.05	9.03
29	8.25	8.23	8.31	8.29	8.40	8.37	8.49	8.46	8.79	8.77	9.06	9.05
30	8.25	8.23	8.36	8.31	8.42	8.40	8.53	8.49	8.80	8.78	9.06	9.06
31	---	---	8.38	8.36	---	---	8.54	8.53	8.80	8.80	---	---
MONTH	8.25	8.05	8.38	8.09	8.64	8.37	8.54	7.14	8.80	8.54	9.06	8.80
YEAR	9.06	6.23										

Daily Low Water Levels



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

211

MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fc 34. SITE ID.--382339076304202.

LOCATION.--Lat 38°23'39", long 76°30'41", Hydrologic Unit 02060006, Jefferson Patterson State Park and Museum.

Owner: U. S. Geological Survey.

AQUIFER.--Lowland deposits of Pleistocene age. Aquifer code: 111LLND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 17.8 ft; casing diameter 2 in., to 15.8 ft; screen diameter 2 in. from 15.8 to 17.8 ft.

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

Equipped with digital water-level recorder--1-hour recorder interval from September 1990 to current year.

DATUM.--Elevation of land surface is 12.01 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder platform, 3.54 ft above land surface.

REMARKS.--Best Management Practices Project observation well. Missing data due to recorder malfunction.

PERIOD OF RECORD.--May 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.99 ft below land surface, March 3, 1994; lowest measured, 9.25 ft below land surface, Nov. 27, 1991.

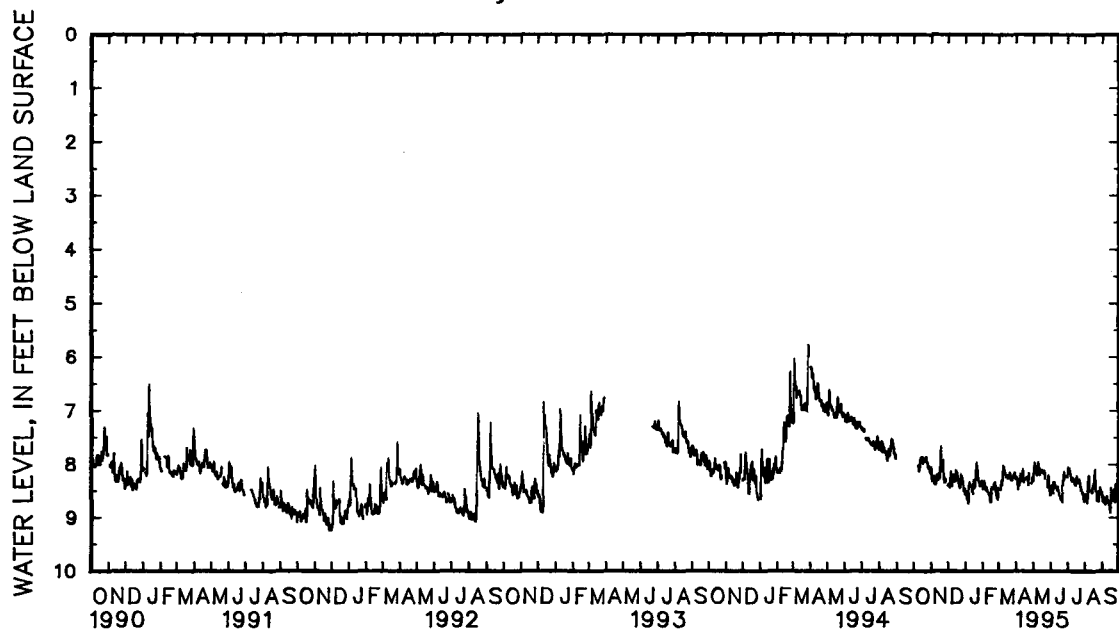
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	8.07	7.65	8.41	8.14	8.47	8.16	8.43	8.04	8.44	8.14
2	---	---	8.26	7.78	8.38	8.04	8.61	8.22	8.47	8.24	8.46	8.19
3	---	---	8.33	8.11	8.40	8.08	8.65	8.40	8.46	8.20	8.46	8.17
4	---	---	8.32	8.01	8.45	8.16	8.63	8.38	8.31	7.60	8.48	8.14
5	---	---	8.23	7.92	8.25	7.65	8.74	8.63	8.38	8.04	8.48	8.14
6	---	---	8.22	7.90	8.14	7.81	8.71	8.46	8.46	8.38	8.31	8.00
7	---	---	8.37	8.08	8.21	7.94	8.46	7.72	8.49	8.36	8.35	8.09
8	8.04	7.71	8.33	8.10	8.41	8.21	8.37	8.22	8.43	8.30	8.39	7.00
9	8.03	7.71	8.39	8.20	8.31	8.10	8.34	8.19	8.51	8.30	8.02	7.00
10	8.14	7.90	8.35	8.11	8.28	7.90	8.41	8.26	8.50	8.30	8.08	8.00
11	8.09	7.78	8.20	8.00	8.19	7.84	8.43	8.23	8.56	8.36	8.05	7.89
12	7.93	7.64	8.27	8.06	8.33	8.17	8.40	8.17	8.58	8.35	8.14	7.93
13	7.89	7.61	8.24	8.01	8.29	8.09	8.47	8.17	8.65	8.50	8.15	7.96
14	7.93	7.62	8.30	7.99	8.32	7.92	8.57	8.33	8.71	8.53	8.24	7.98
15	7.88	7.46	8.18	7.90	8.11	7.88	8.42	7.89	8.71	8.48	---	---
16	7.87	7.40	8.27	8.01	8.16	7.91	8.30	7.82	8.53	8.19	---	---
17	8.00	7.64	8.04	7.41	8.15	7.88	8.45	8.25	8.43	8.15	8.20	7.91
18	7.90	7.51	7.66	7.33	8.19	7.92	8.43	8.10	8.45	8.23	8.27	7.93
19	---	---	8.04	7.50	8.31	7.97	8.29	7.91	8.47	8.24	8.22	7.91
20	---	---	8.14	7.90	8.33	8.06	8.08	6.98	8.47	8.16	8.22	7.90
21	7.96	7.62	8.12	7.03	8.42	8.14	7.97	7.33	8.36	8.07	8.15	7.73
22	7.91	7.58	7.92	7.33	8.45	8.26	8.05	7.86	8.45	8.25	8.20	7.92
23	7.87	7.52	8.17	7.92	8.44	8.09	8.11	7.93	8.33	7.99	8.26	8.02
24	7.96	7.70	8.35	8.17	8.18	8.00	8.24	8.03	8.51	8.15	8.29	8.12
25	7.98	7.67	8.26	8.06	8.25	7.90	8.34	8.14	8.63	8.38	8.28	8.09
26	8.05	7.88	8.35	8.20	8.23	7.93	8.33	8.14	8.65	8.37	8.26	8.06
27	8.09	7.92	8.28	7.69	8.29	8.05	8.42	8.20	8.67	8.38	8.25	7.96
28	8.05	7.86	---	---	8.32	8.04	8.38	8.17	8.45	8.09	8.19	7.89
29	8.09	7.85	---	---	8.47	8.12	8.40	8.21	---	---	8.19	7.92
30	8.17	7.91	---	---	8.56	8.36	8.33	8.05	---	---	8.16	7.86
31	8.18	7.85	---	---	8.57	8.27	8.31	8.03	---	---	8.23	7.91
MONTH	8.18	7.40	8.39	7.03	8.57	7.65	8.74	6.98	8.71	7.60	8.48	7.00

GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued
CA Fc 34--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.28	7.97	8.32	8.13	8.52	8.23	8.24	7.44	8.57	8.28	8.66	8.20
2	8.25	8.00	8.16	7.33	8.43	8.18	8.05	7.50	8.56	8.22	8.72	8.36
3	8.25	8.03	7.95	7.60	8.40	8.17	8.07	7.82	8.62	8.28	8.62	8.15
4	8.34	7.84	7.98	7.73	8.53	8.27	8.07	7.78	8.61	8.26	8.62	8.17
5	8.48	8.34	8.04	7.69	8.55	8.20	8.12	7.82	8.73	8.36	8.69	8.23
6	8.37	8.17	8.15	7.99	8.33	8.06	8.17	7.86	8.55	8.18	8.76	8.29
7	8.40	8.25	8.17	7.91	8.42	8.10	8.22	7.92	8.47	7.88	8.69	8.30
8	8.33	7.91	8.20	7.99	8.34	8.01	8.29	7.93	8.21	7.78	8.69	8.25
9	8.18	7.97	8.15	7.80	8.45	8.06	8.33	7.97	8.21	7.78	8.60	8.24
10	8.32	8.01	7.98	7.58	8.43	8.06	8.32	7.95	8.47	7.83	8.72	8.13
11	8.22	7.97	8.04	7.74	8.42	8.04	8.25	7.81	8.50	8.09	8.73	8.38
12	8.26	7.89	8.11	7.73	8.44	8.05	8.28	7.93	8.50	8.09	8.69	8.34
13	8.09	7.54	8.20	7.83	8.50	8.20	8.29	7.89	8.54	8.13	8.72	8.39
14	8.28	7.97	8.10	7.64	8.43	8.06	8.34	7.92	8.54	8.17	8.81	8.51
15	8.34	8.13	8.12	7.57	8.57	8.01	8.39	8.06	8.48	8.14	8.91	8.57
16	8.29	8.04	8.13	7.80	8.60	8.26	8.40	8.07	8.40	8.09	8.62	8.32
17	8.27	7.98	8.11	7.71	8.62	8.29	8.27	7.94	8.45	8.06	8.44	8.13
18	8.27	7.92	8.16	7.81	8.66	8.37	8.22	7.87	8.39	8.02	8.69	8.42
19	8.25	7.88	8.17	7.80	8.68	8.39	8.35	8.06	8.12	7.71	8.68	8.33
20	8.27	7.95	8.12	7.84	8.68	8.39	8.33	8.05	8.09	7.68	8.52	8.20
21	8.26	7.95	8.13	7.84	8.71	8.32	8.32	7.88	8.36	7.80	8.61	8.20
22	8.24	7.99	8.27	7.99	8.40	8.15	8.32	7.88	8.70	8.09	8.48	8.15
23	8.40	8.07	---	---	8.38	8.10	8.29	8.02	8.65	8.31	8.73	8.23
24	8.17	7.67	---	---	8.21	7.73	8.37	8.01	8.64	8.26	8.55	8.20
25	---	---	---	---	8.14	7.82	8.43	8.10	8.70	8.35	8.40	8.04
26	---	---	8.43	8.17	8.28	7.91	8.50	8.13	8.52	8.17	8.37	7.99
27	---	---	8.24	8.02	---	---	8.55	8.24	8.56	8.17	8.44	8.11
28	8.36	8.02	8.20	7.94	---	---	8.52	8.25	8.52	8.22	8.62	8.18
29	8.34	8.16	8.30	7.95	8.22	7.76	8.58	8.23	8.43	8.05	8.62	8.26
30	8.24	7.98	8.58	8.11	8.24	7.99	8.70	8.36	8.50	8.05	8.54	8.17
31	---	---	8.58	8.38	---	---	8.70	8.36	8.51	8.15	---	---
MONTH	8.48	7.54	8.58	7.33	8.71	7.73	8.70	7.44	8.73	7.68	8.91	7.99
YEAR	8.91	6.98										

Daily Low Water Levels



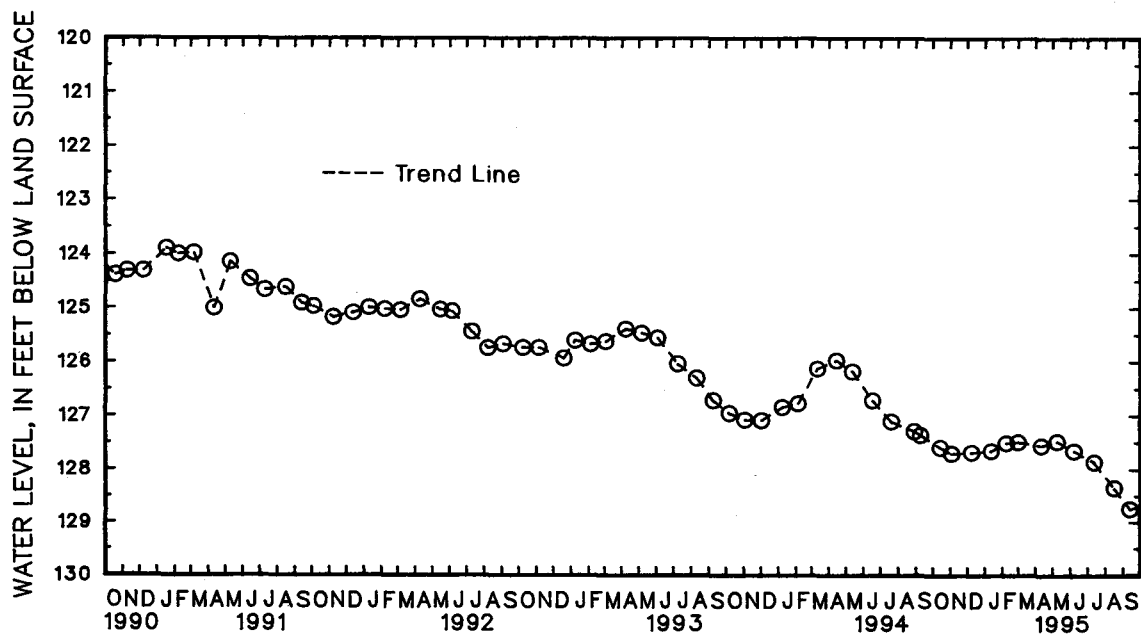
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CALVERT COUNTY--Continued

WELL NUMBER.--CA Fd 51. SITE ID.--382408076260401. PERMIT NUMBER.--CA-73-1449.
LOCATION.--Lat 38°24'08", long 78°28'04", 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 129.4 ft above National Geodetic Vertical Datum of 1929.
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, 128.77 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	127.63	DEC 8	127.72	FEB 8	127.54	APR 11	127.59	JUN 7	127.69	AUG 16	128.38
NOV 3	127.74	JAN 12	127.69	MAR 1	127.52	MAY 9	127.51	JUL 12	127.90	SEP 12	128.77
WATER YEAR 1995		HIGHEST 127.51		MAY 9, 1995		LOWEST 128.77		SEP 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 2 in. from 641 to 651 ft.

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

DATUM.--Elevation of land surface is 129.4 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.92 ft above land surface.

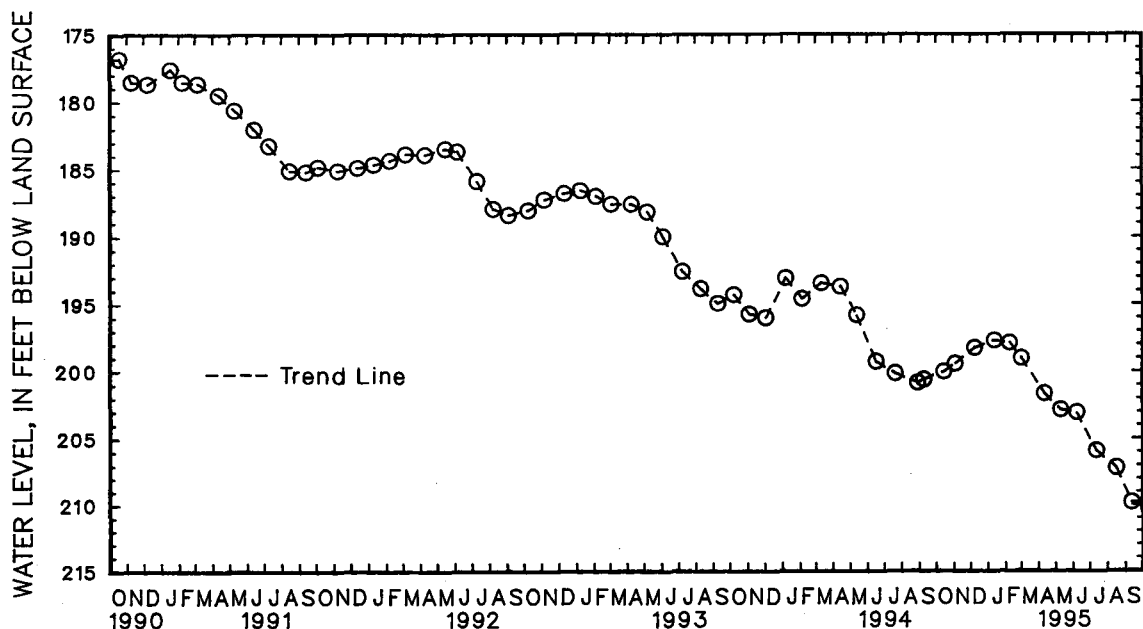
REMARKS.--Maryland Water-Level Network observation well. Water levels affected by nearby pumping.

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, 209.91 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	200.17	DEC 8	198.38	FEB 8	198.01	APR 11	201.83	JUN 7	203.23	AUG 16	207.36
NOV 3	199.58	JAN 12	197.86	MAR 1	199.17	MAY 9	203.03	JUL 12	206.07	SEP 12	209.91
WATER YEAR 1995		HIGHEST	197.86	JAN 12, 1995		LOWEST	209.91	SEP 12, 1995			



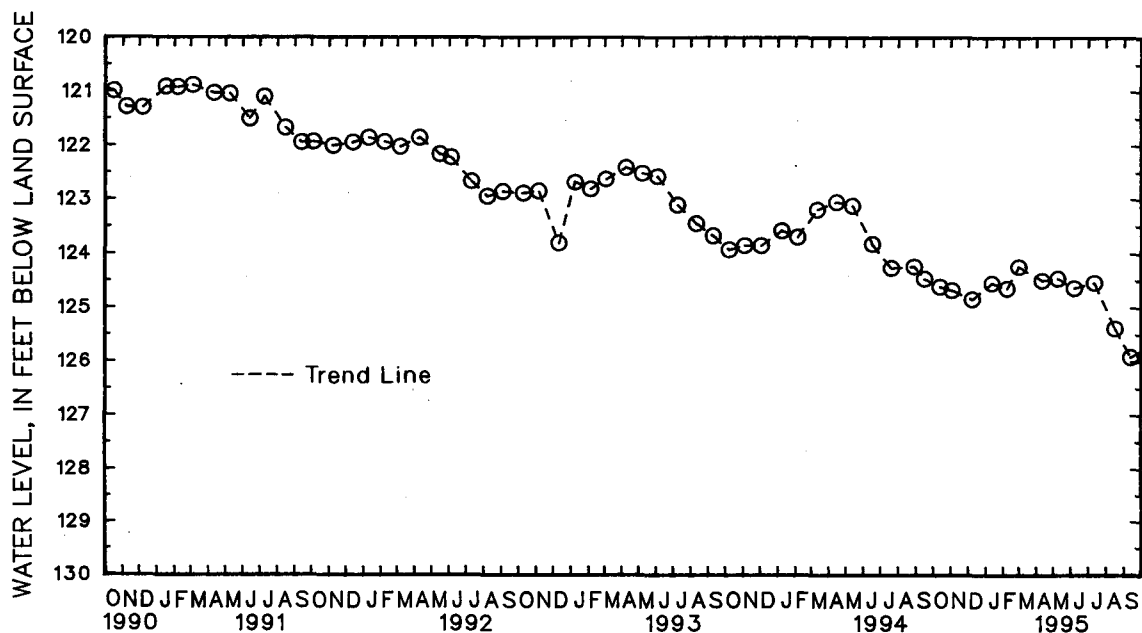
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Columbia 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 113.9 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 2.82 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 125.97 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	124.66	DEC 8	124.88	FEB 8	124.68	APR 11	124.53	JUN 7	124.67	AUG 16	125.43
NOV 3	124.72	JAN 12	124.58	MAR 1	124.27	MAY 9	124.49	JUL 12	124.57	SEP 12	125.97
WATER YEAR 1995		HIGHEST 124.27 MAR 1, 1995		LOWEST 125.97 SEP 12, 1995							



GROUND-WATER LEVELS
MARYLAND--Continued
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 469 to 493 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of sanitary seal, 1.59 ft above land surface.

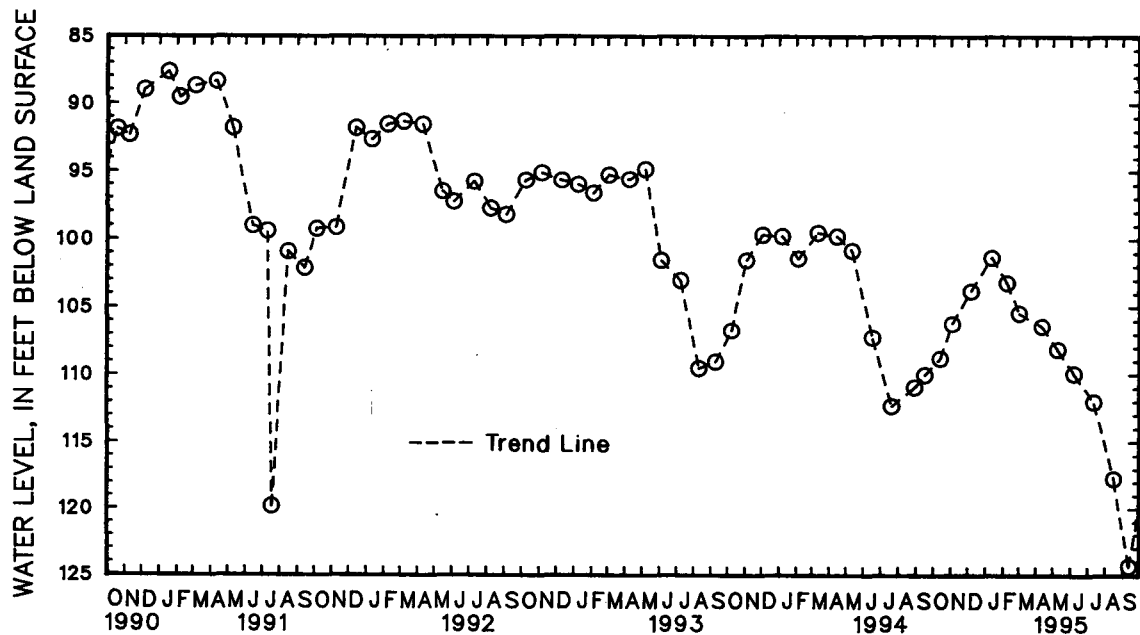
REMARKS.--Maryland Water-Level Network observation well. Water level reported at land surface 1942; water-level measured 58.9 ft below land surface, Jan. 13, 1944. Well not measured from April through July 1988 during building construction at well site. On July 18, 1991 the water-level measured, 119.93 ft below land surface during an extended pumping period. Water levels are affected by pumping.

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, 124.35 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	108.90	DEC 7	103.84	FEB 8	103.30	APR 11	106.56	JUN 7	110.11	AUG 16	117.87
NOV 3	106.27	JAN 12	101.37	MAR 1	105.59	MAY 9	108.31	JUL 12	112.20	SEP 12	124.35
WATER YEAR 1995		HIGHEST	101.37	JAN 12, 1995	LOWEST	124.35	SEP 12, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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.--Pleistocene Series of Pleistocene age. Aquifer code: 112PLSC.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.1 ft above land surface.

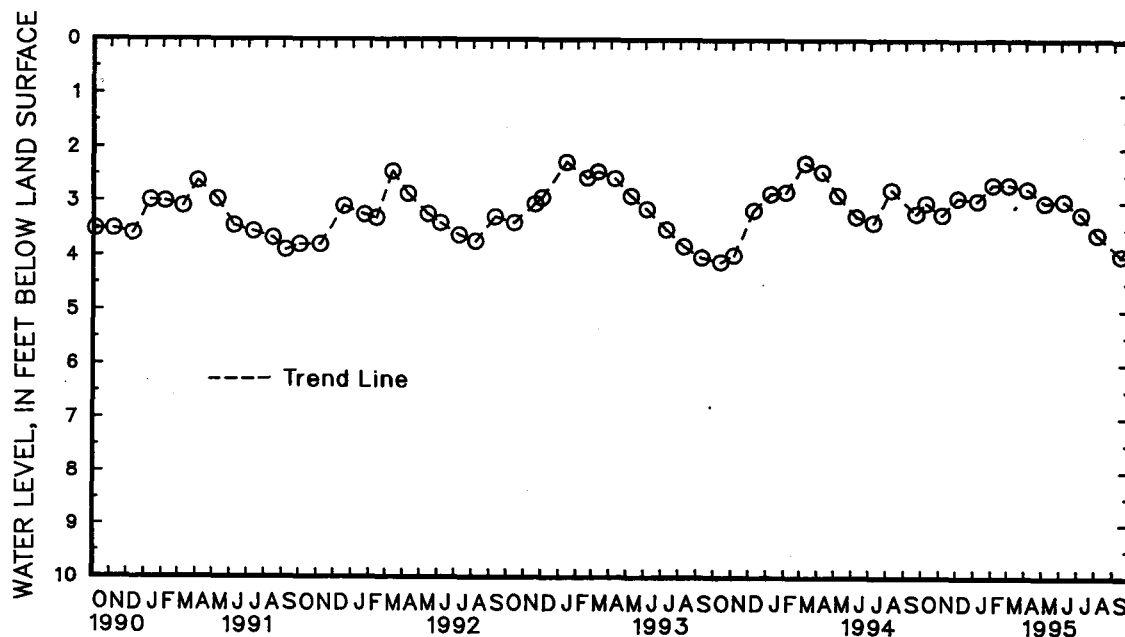
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft above land surface, Nov. 27, 1951;
lowest measured, 4.37 ft below land surface, Oct. 11, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995.

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 7	3.04	DEC 2	2.94	FEB 2	2.69	APR 4	2.77	JUN 6	3.00	AUG 3	3.63				
NOV 4	3.26	JAN 6	2.99	MAR 2	2.69	MAY 4	3.03	JUL 6	3.25	SEP 14	4.02				
WATER YEAR 1995		HIGHEST		2.69		FEB 2, 1995		MAR 2, 1995		LOWEST		4.02		SEP 14, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.45 ft above land surface.

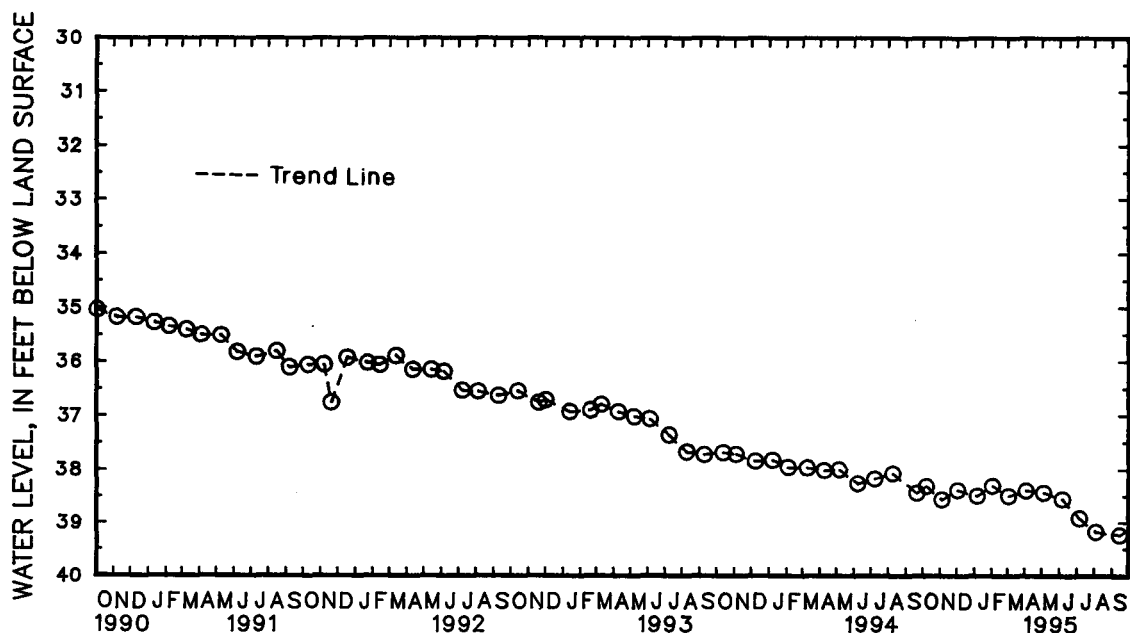
REMARKS.--Maryland Water-Level Network observation well.

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, 39.25 ft below land surface, Sept. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	38.34	DEC 2	38.41	FEB 2	38.33	APR 3	38.42	JUN 6	38.58	AUG 3	39.19
NOV 4	38.59	JAN 6	38.52	MAR 3	38.52	MAY 4	38.46	JUL 6	38.94	SEP 14	39.25
WATER YEAR 1995		HIGHEST	38.33	FEB 2, 1995	LOWEST	39.25	SEP 14, 1995				



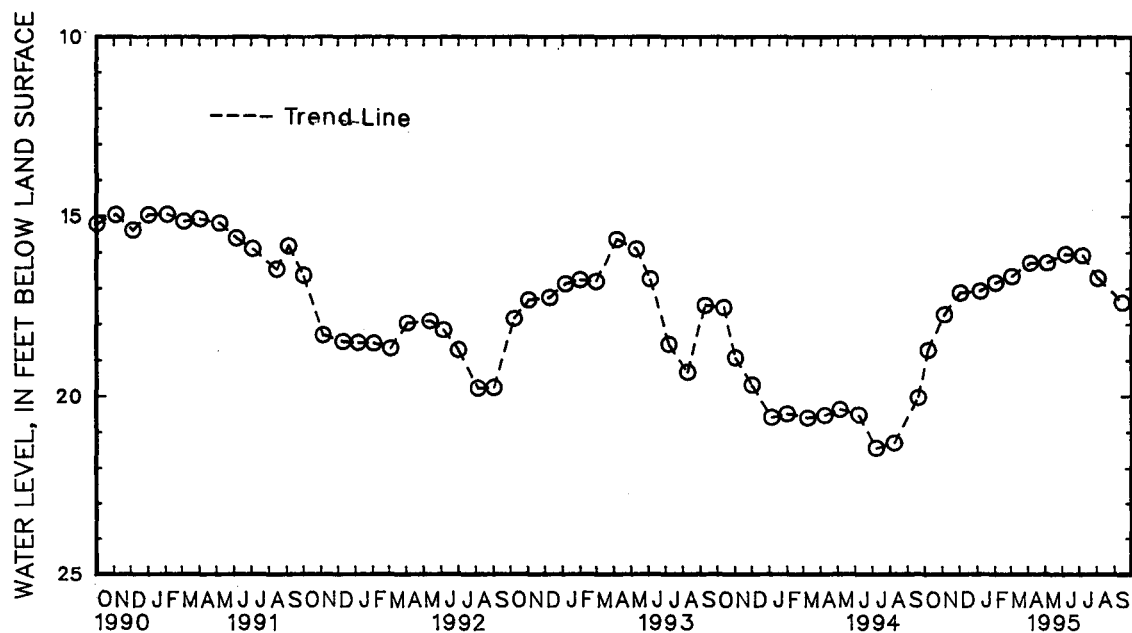
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CAROLINE COUNTY--Continued

WELL NUMBER.--CO Dc 129. SITE ID.--385310075503601. PERMIT NUMBER.--CO-02-3881.
LOCATION.--Lat 38°53'10", long 75°50'36", Hydrologic Unit 02060005, at West Denton.
Owner: Wilson Laurel Farms, Inc.
AQUIFER.--Choptank Formation of Middle Miocene age. Aquifer code: 122CFNK.
WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 229 ft; casing diameter 4 in., to 137.5 ft; open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
Equipped with water level recorder from Aug. 1, 1956 to June 8, 1957.
DATUM.--Elevation of land surface is 20 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 0.4 ft below land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--August 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.63 ft below land surface, April 5, 1973;
lowest measured, 56.09 ft below land surface, Nov. 5, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	18.73	DEC 2	17.13	FEB 2	16.85	APR 4	16.30	JUN 6	16.05	AUG 3	16.74
NOV 4	17.73	JAN 6	17.08	MAR 3	16.67	MAY 4	16.29	JUL 6	16.09	SEP 14	17.43
WATER YEAR 1995		HIGHEST	16.05	JUN 6, 1995		LOWEST	18.73	OCT 7, 1994			



GROUND-WATER LEVELS

MARYLAND--Continued

CAROLINE COUNTY--Continued

WELL NUMBER.--CO Dd 47. SITE ID.--385217075490601. PERMIT NUMBER.--CO-73-0486.

LOCATION.--Lat 38°52'17", long 75°49'06", Hydrologic Unit 02060005, at Denton Sewage Lagoon.

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 4 in., to 100 ft; casing diameter 2 in. from 100 to 370 ft; screen diameter 2 in. from 370 to 380 ft.

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

DATUM.--Elevation of land surface is 46 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.4 ft above land surface.

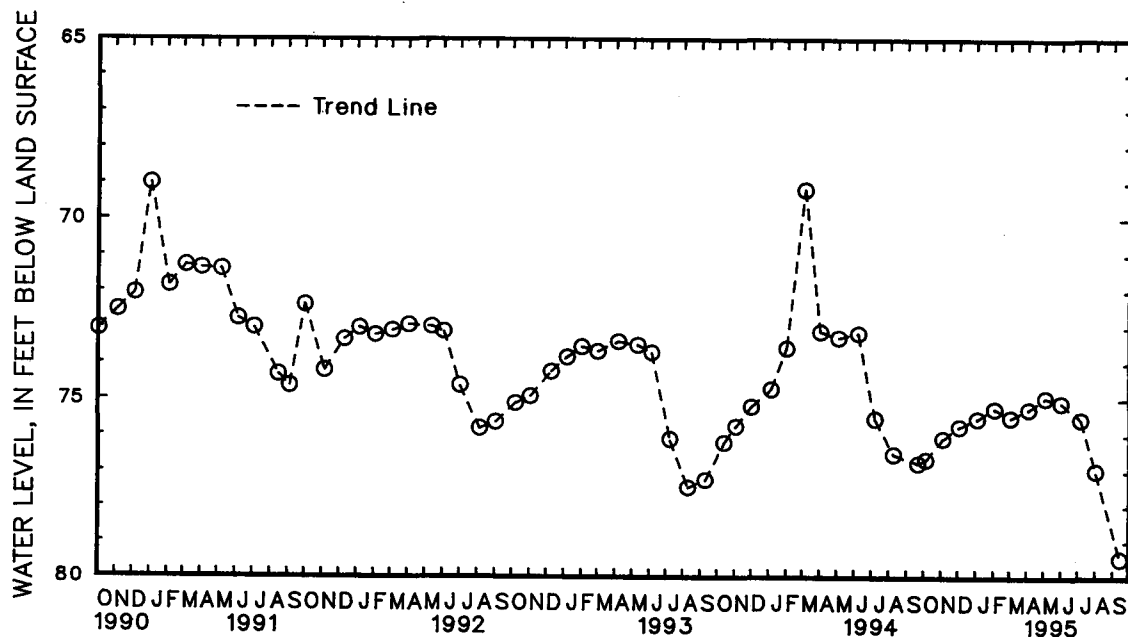
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.78 ft below land surface, May 27, 1976; lowest measured, 77.51 Ft below land surface, Aug. 9, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	76.72	DEC 2	75.78	FEB 2	75.27	APR 3	75.28	JUN 1	75.10	AUG 1	77.03
NOV 3	76.12	JAN 3	75.55	MAR 2	75.52	MAY 4	74.96	JUL 5	75.58	SEP 14	79.47
WATER YEAR 1995		HIGHEST	74.96	MAY 4, 1995		LOWEST	79.47	SEP 14, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 540 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing 2.97 ft above land surface.

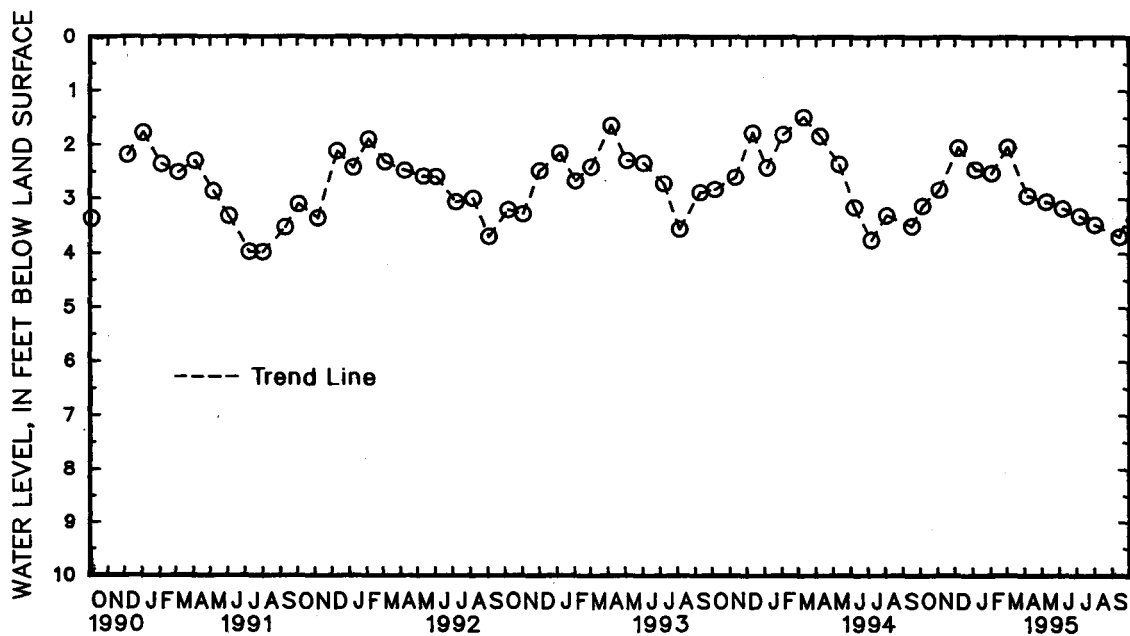
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.49 ft below land surface, March 10, 1994; lowest measured, 4.17 ft below land surface, July 3, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL			
OCT	5	3.15	DEC	7	2.05	FEB	2	2.53	APR	5	2.96	JUN	6	3.20	AUG	1	3.50
NOV	3	2.84	JAN	5	2.46	MAR	2	2.04	MAY	8	3.07	JUL	6	3.34	SEP	13	3.73
WATER YEAR 1995			HIGHEST		2.04		MAR 2, 1995		LOWEST		3.73		SEP 13, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 340 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 785 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.81 ft above land surface.

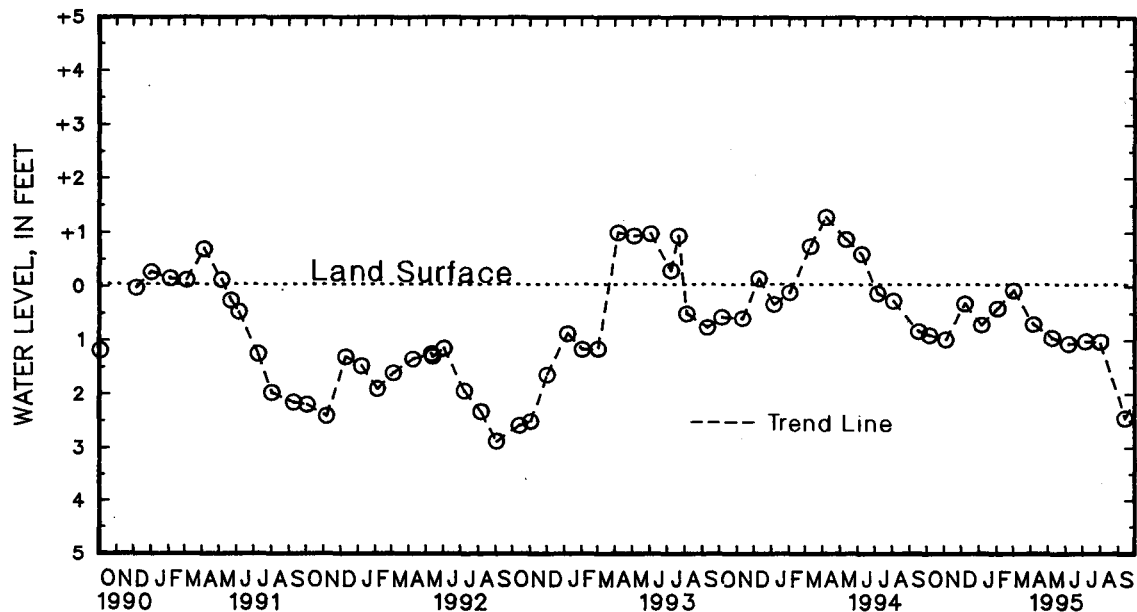
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.28 ft above land surface, April 7, 1994;
lowest measured, 3.24 ft below land surface, Oct. 3, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	.95	DEC 7	.34	FEB 2	.43	APR 5	.74	JUN 6	1.11	AUG 1	1.07
NOV 3	1.03	JAN 5	.75	MAR 2	.09	MAY 8	1.00	JUL 6	1.06	SEP 13	2.49
WATER YEAR 1995		HIGHEST	.09	MAR 2, 1995		LOWEST	2.49	SEP 13, 1995			



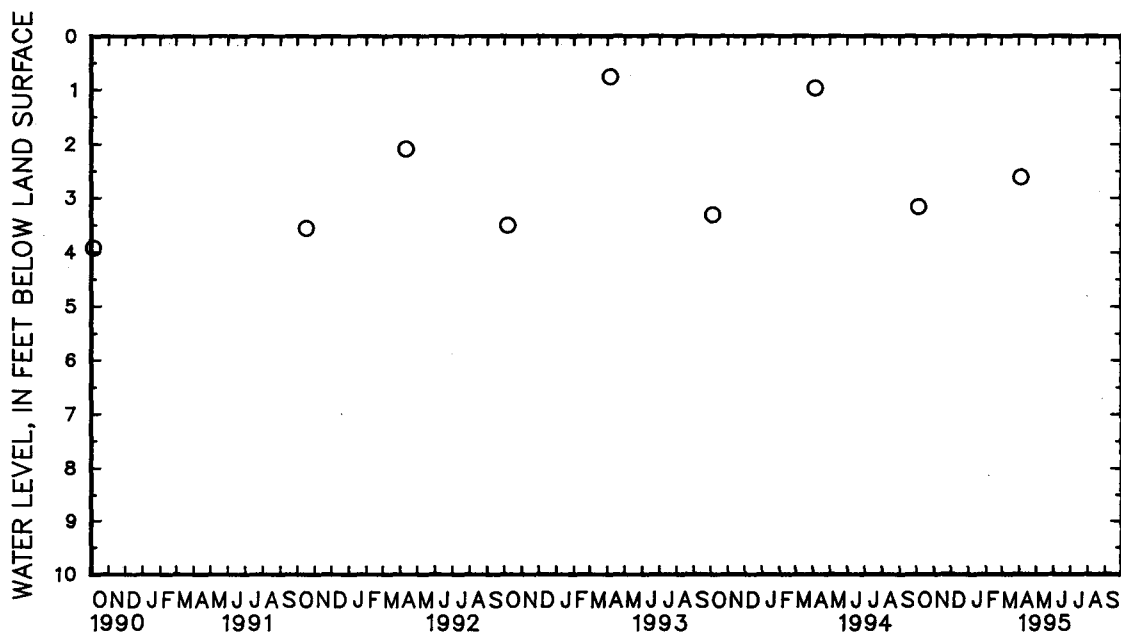
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.
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.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with graphic recorder December 26, 1974 to July 19, 1980.
DATUM.--Elevation of land surface is 550 ft above National Geodetic Vertical Datum of 1929. 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	3.19	APR 4	2.63
WATER YEAR 1995 HIGHEST 2.63 APR 4, 1995 LOWEST 3.19 OCT 4, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

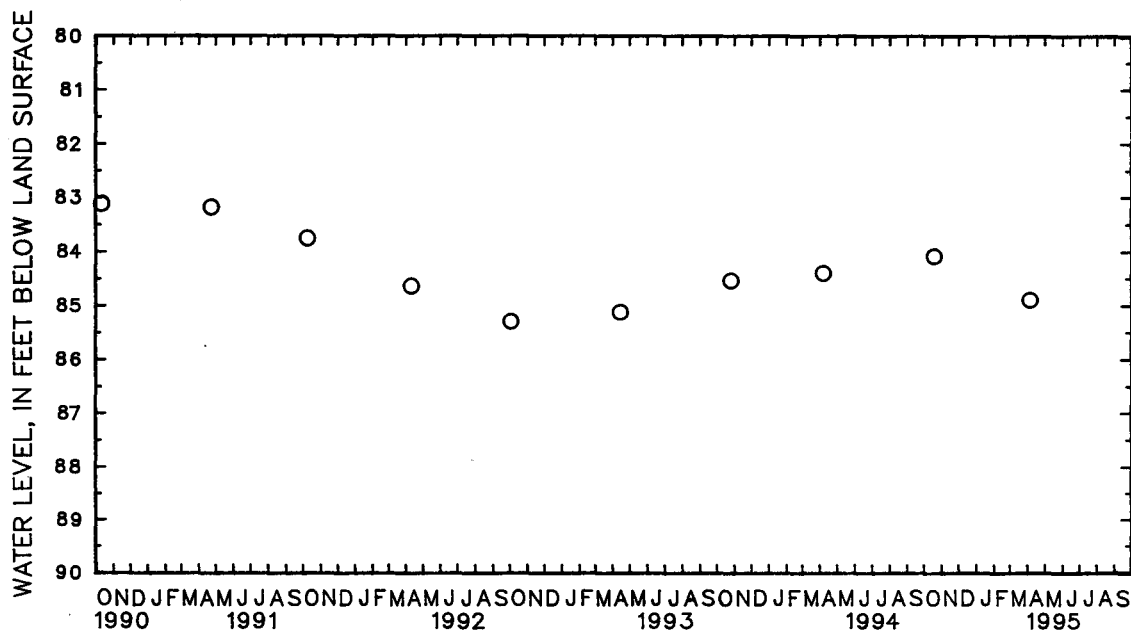
MARYLAND--Continued

CECIL COUNTY

WELL NUMBER.--CE Bc 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 nr US Rt. 40.
 Owner: U.S. Geological Survey.
 AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 162 ft above National Geodetic Vertical Datum of 1929, 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, 86.06 ft below land surface, April 29, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR, OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	84.10	APR 5	84.93
WATER YEAR 1995 HIGHEST 84.10 OCT 18, 1994 LOWEST 84.93 APR 5, 1995			



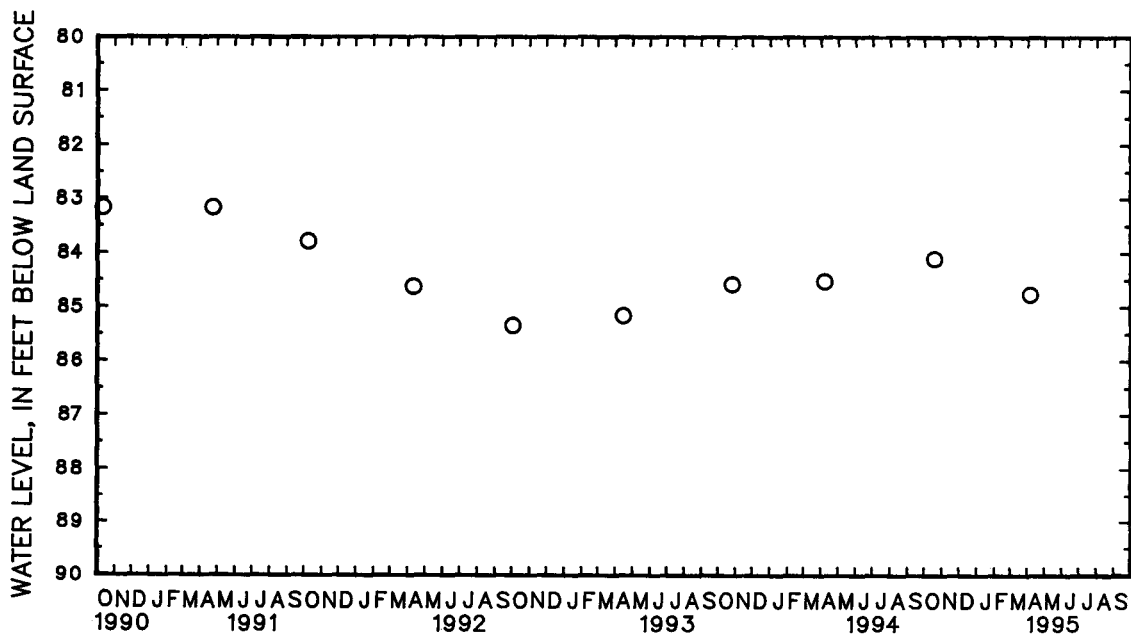
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CECIL COUNTY--Continued

WELL NUMBER.--CE Bc 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 nr US Rt. 40.
Owner: U.S. Geological Survey.
AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 162 ft above National Geodetic Vertical Datum of 1929, 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, 86.10 ft below land surface, April 29, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	84.12	APR 5	84.80
WATER YEAR 1995 HIGHEST 84.12 OCT 18, 1994 LOWEST 84.80 APR 5, 1995			



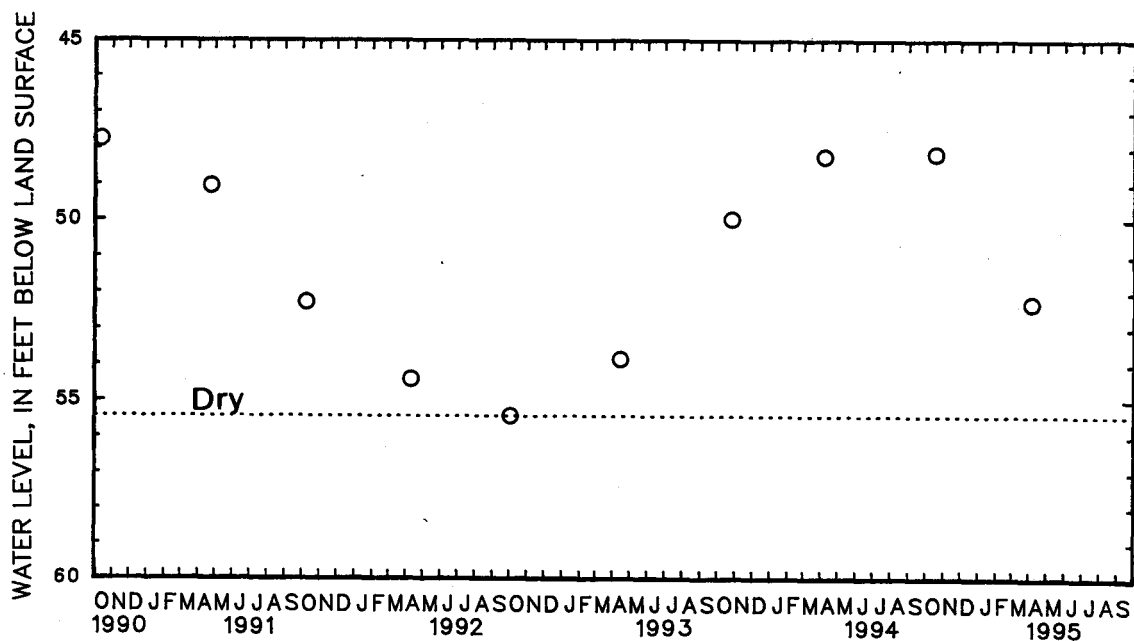
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 90 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of casing, 2.0 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly starting October 1988.
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, May 12, 1986, May 10, 1988, June 21, 1988, Oct. 6, 1988 and Oct. 2, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	48.14	APR 5	52.35
WATER YEAR 1995 HIGHEST 48.14 OCT 18, 1994 LOWEST 52.35 APR 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

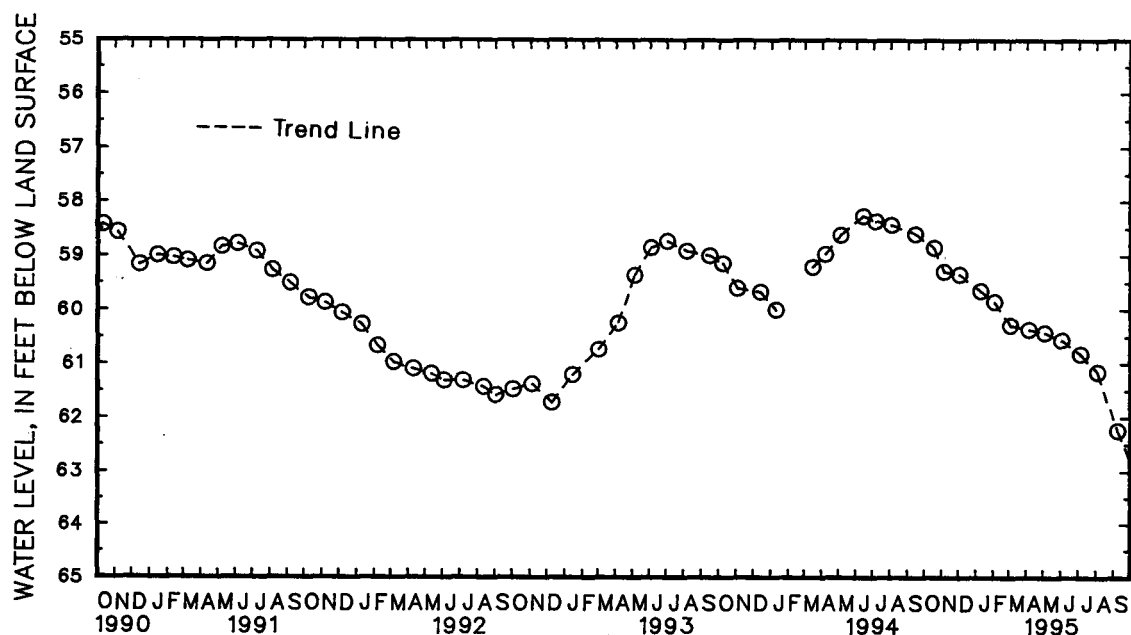
MARYLAND--Continued

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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 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, 62.34 ft below land surface, Feb. 8, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	58.87	DEC 2	59.37	FEB 3	59.88	APR 5	60.40	JUN 2	60.60	AUG 3	61.20
NOV 4	59.32	JAN 9	59.68	MAR 3	60.32	MAY 3	60.46	JUL 5	60.87	SEP 8	62.28
WATER YEAR 1995		HIGHEST	58.87	OCT 18, 1994		LOWEST	62.28	SEP 8, 1995			



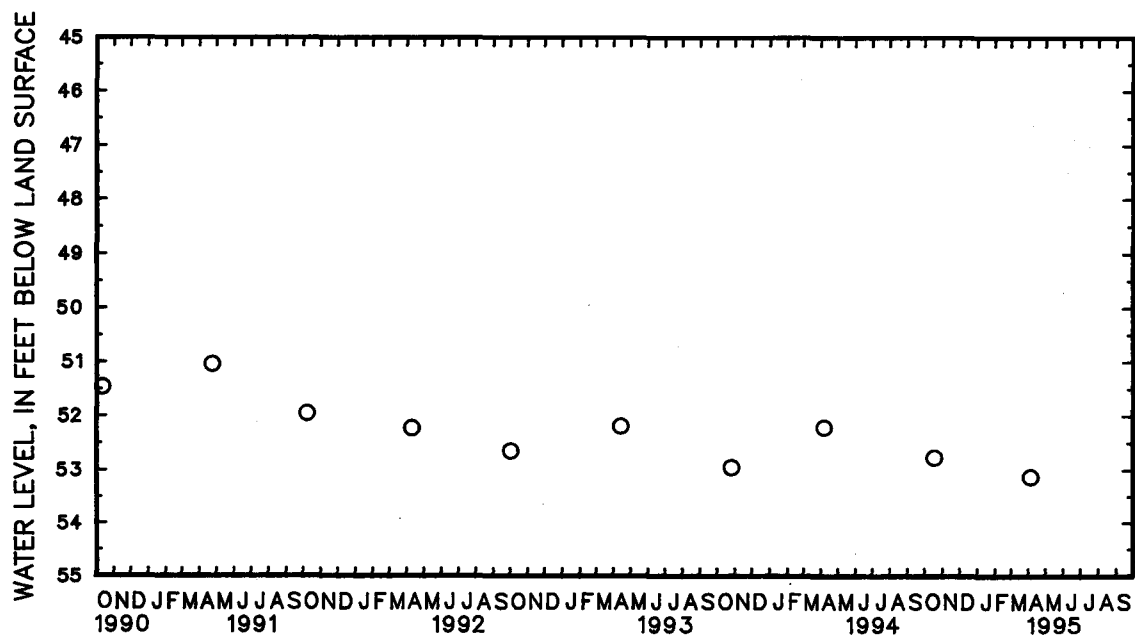
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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°59'38", Hydrologic Unit 02060002, nr intersection of
MD Rts. 7 and 267, 1 mi west of Charlestown.
Owner: U.S. Geological Survey.
AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 70 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of casing, 3.12 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, 50.80 ft below land surface, April 6, 1984;
lowest measured, 53.17 ft below land surface, Dec. 8, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	52.80	APR 5	53.16
WATER YEAR 1995 HIGHEST 52.80 OCT 18, 1994 LOWEST 53.16 APR 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, nr intersection of
 MD Rts. 7 and 267, 1 mi west of Charlestown.
 Owner: U.S. Geological Survey.

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

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 70 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring Point: Top of casing, 3.18 ft above land surface.

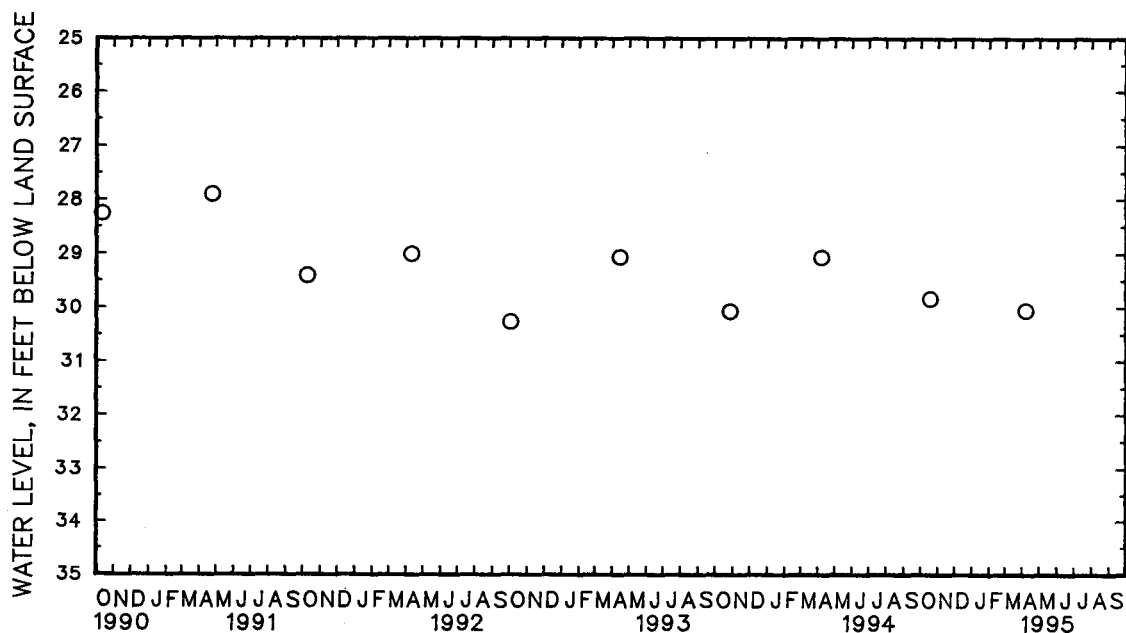
REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly starting April 1988.

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, 30.60 ft below land surface, Oct. 6, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	29.87	APR 6	30.09
WATER YEAR 1995 HIGHEST 29.87 OCT 18, 1994 LOWEST 30.09 APR 6, 1995			



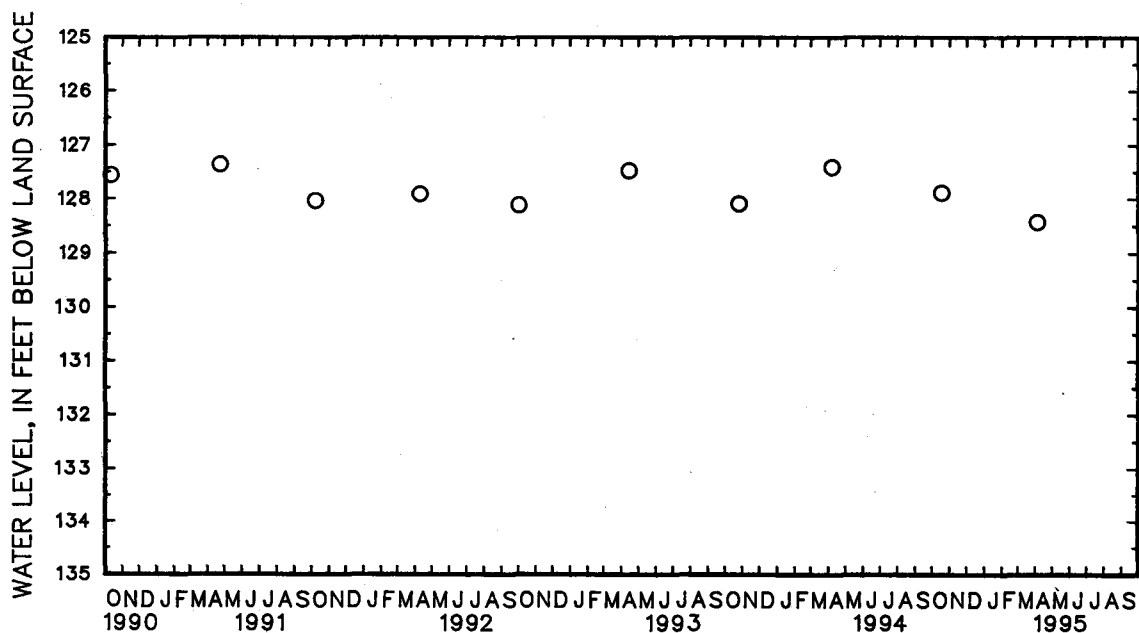
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.--Potomac Group of Lower Cretaceous age. Aquifer code 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of casing, 2.0 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since October 1988.
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, 128.46 ft below land surface, April 5, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	127.91	APR 5	128.46
WATER YEAR 1995 HIGHEST 127.91 OCT 18, 1994 LOWEST 128.46 APR 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 Rd.

Owner: U.S. Geological Survey.

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

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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.0 ft above land surface.

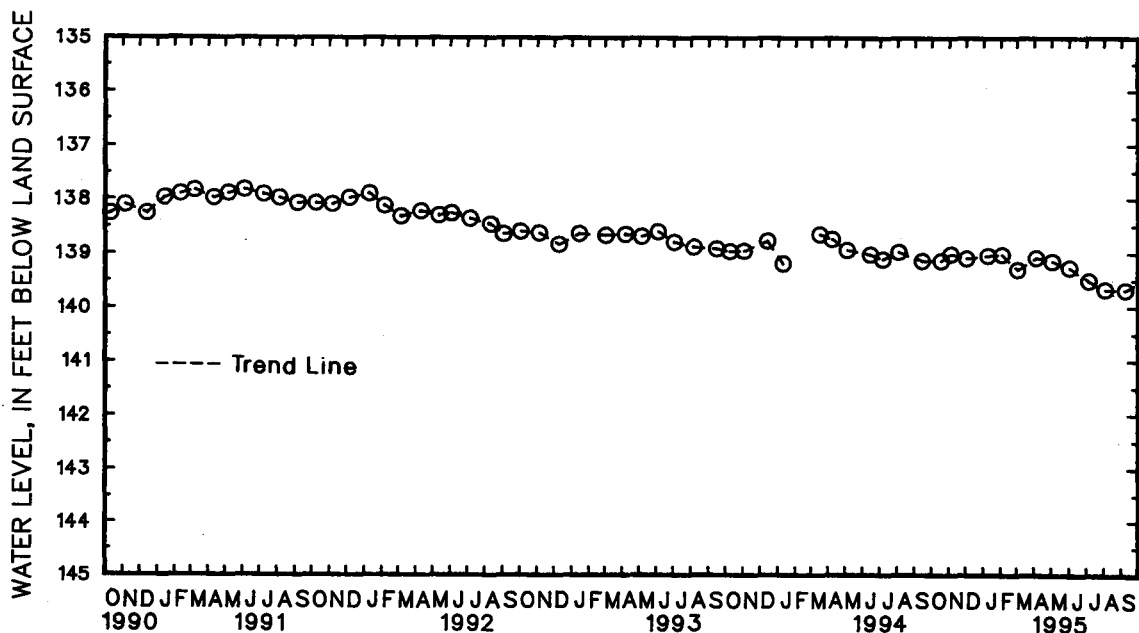
REMARKS.--Maryland Water-Level Network observation well.

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, 139.72 ft below land surface, Sept. 8, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	139.17	DEC 2	139.11	FEB 3	139.05	APR 5	139.11	JUN 2	139.30	AUG 3	139.71
NOV 4	139.04	JAN 9	139.07	MAR 3	139.33	MAY 3	139.18	JUL 5	139.55	SEP 8	139.72
WATER YEAR 1995		HIGHEST 139.04		NOV 4, 1994		LOWEST 139.72		SEP 8, 1995			



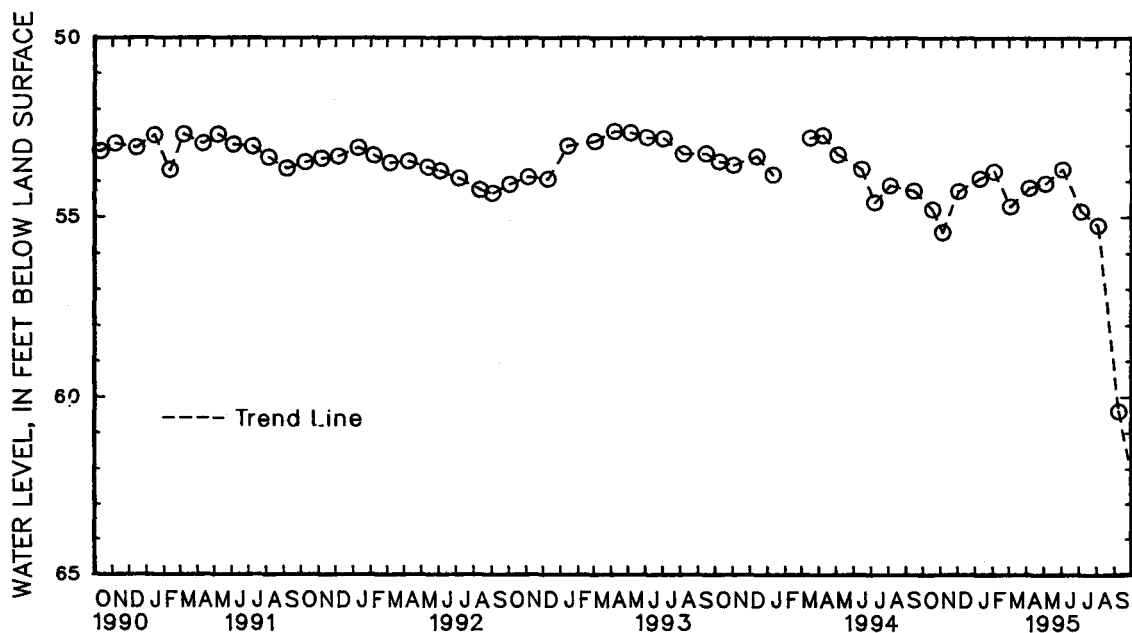
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CECIL COUNTY--Continued

WELL NUMBER.--CE C_o 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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing 2.40 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 60.46 ft below land surface, Sept. 8, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	54.83	DEC 2	54.30	FEB 3	53.74	APR 5	54.19	JUN 2	53.68	AUG 3	55.28
NOV 4	55.47	JAN 9	53.94	MAR 3	54.74	MAY 3	54.08	JUL 5	54.89	SEP 8	60.46
WATER YEAR 1995		HIGHEST	53.68	JUN 2, 1995		LOWEST	60.46	SEP 8, 1995			



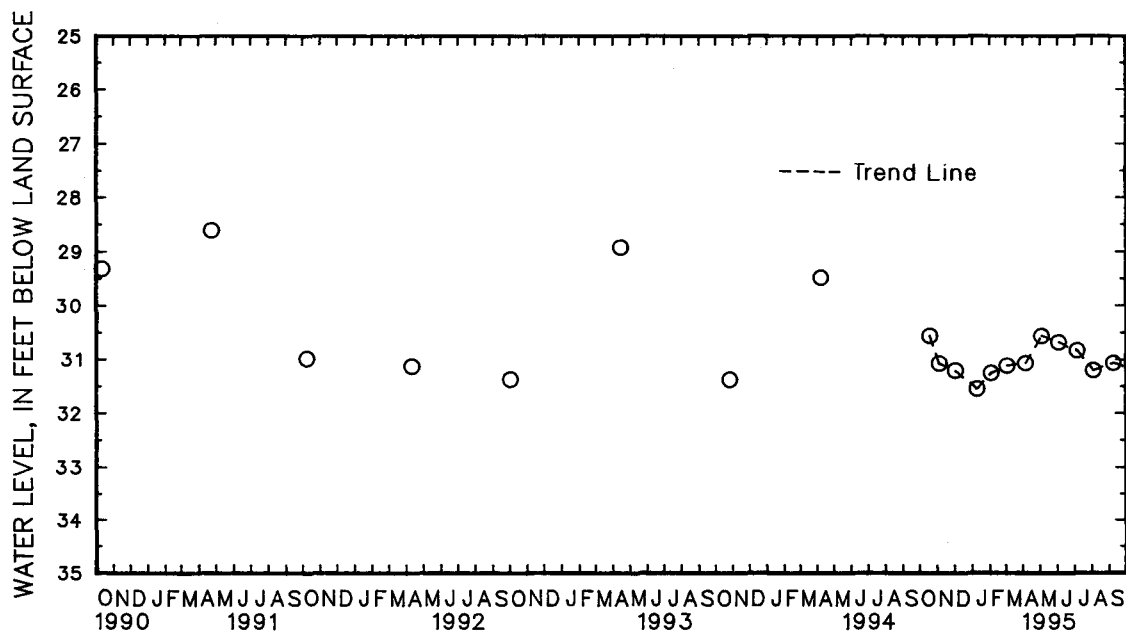
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring Point: Top of casing, 2.0 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--April 1983 to September 1984, April 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.16 ft below land surface, Nov. 2, 1989; lowest measured, 34.48 ft below land surface, Nov. 19, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	30.60	DEC 2	31.25	FEB 3	31.29	APR 5	31.10	JUN 2	30.70	AUG 3	31.24
NOV 4	31.12	JAN 9	31.59	MAR 3	31.15	MAY 3	30.58	JUL 5	30.86	SEP 8	31.10
WATER YEAR 1995		HIGHEST	30.58	MAY 3, 1995	LOWEST	31.59	JAN 9, 1995				



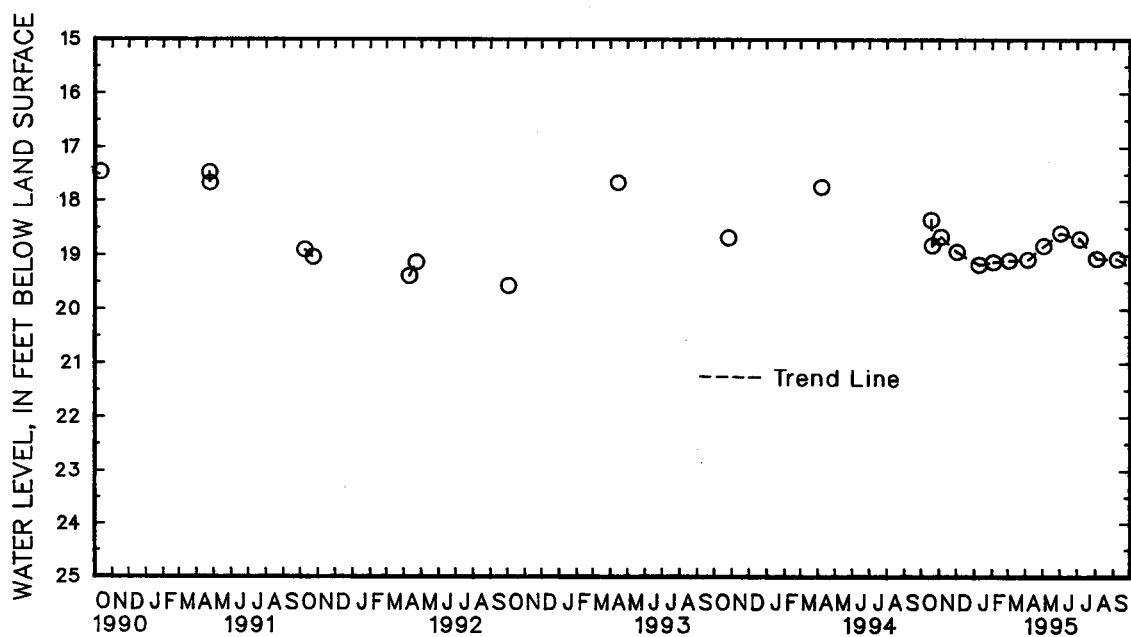
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of casing, 1.8 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	18.37	DEC 2	18.97	MAR 3	19.13	JUN 2	18.61	SEP 8	19.10
20	18.85	JAN 9	19.21	APR 5	19.11	JUL 5	18.72		
NOV 4	18.69	FEB 3	19.16	MAY 3	18.85	AUG 3	19.09		
WATER YEAR 1995		HIGHEST	18.37	OCT 18, 1994	LOWEST	19.21	JAN 9, 1995		



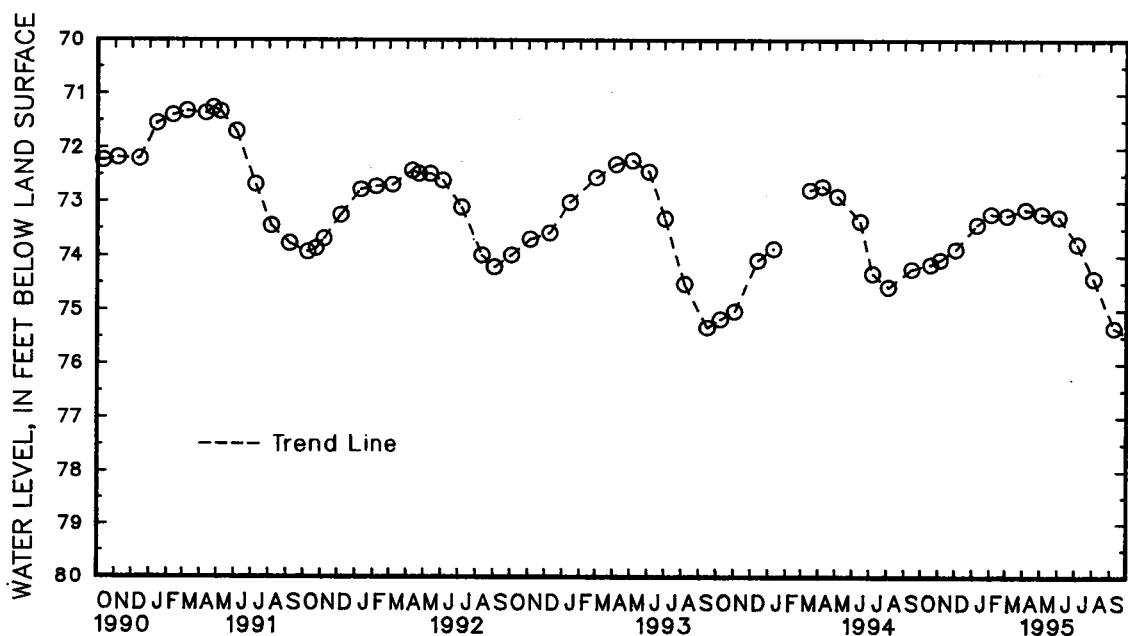
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 2.35 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 75.37 ft below land surface, Sept. 15, 1993 and Sept. 8, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	74.18	DEC 2	73.89	FEB 3	73.23	APR 5	73.15	JUN 2	73.29	AUG 3	74.45
NOV 4	74.09	JAN 9	73.43	MAR 3	73.26	MAY 3	73.23	JUL 5	73.80	SEP 8	75.37
WATER YEAR 1995		HIGHEST	73.15	APR 5, 1995		LOWEST	75.37	SEP 8, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

237

MARYLAND--Continued

CHARLES COUNTY

WELL NUMBER.--CH Bb 17. SITE ID.--383524077111802.

LOCATION.--Lat 38°35'24", long 77°11'18", Hydrologic Unit 02070011, at Farnum Rd.;

U.S. Naval Ordnance Station, Indian Head.

Owner: U.S. Navy.

AQUIFER.--Lower Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 294 ft; casing diameter 16 in., to 230 ft; casing diameter 10 in. to 240 ft; screen diameter 10 in. from 240 to 294 ft.

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

Equipped with digital water-level recorder--60-minute recorder interval, May 29, 1988 to current year.

DATUM.--Elevation of land surface is 52 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder shelf, 3.0 ft above land surface.

REMARKS.--Indian Head Project observation well. Water levels are affected by nearby pumping.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 109.55 ft below land surface, April 29, 1992; lowest measured, 121.22 ft below land surface, Dec. 22, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	115.30	114.72	114.71	113.87	113.30	112.75	111.02	110.05	---	---	113.44	112.93
2	115.07	114.51	115.27	114.35	113.14	112.48	110.66	110.08	111.48	110.81	113.55	112.97
3	114.82	113.90	115.52	114.99	112.96	112.51	110.79	110.20	111.17	110.56	113.33	112.82
4	114.98	114.23	115.87	115.26	113.07	112.48	110.68	110.18	111.10	110.15	113.17	112.76
5	115.12	114.64	115.74	115.09	112.72	111.68	111.18	110.51	111.74	111.10	113.21	112.61
6	115.28	114.73	115.56	115.07	112.08	111.51	110.73	110.12	112.12	111.74	112.78	112.00
7	115.37	114.85	116.03	115.18	112.00	111.51	110.57	110.00	112.02	111.66	112.44	111.94
8	115.33	114.41	116.04	115.29	112.19	111.52	110.90	110.42	112.42	111.72	112.31	111.78
9	115.01	114.48	115.73	115.29	111.81	111.31	110.75	110.18	112.42	111.94	113.28	112.19
10	115.21	114.50	115.69	115.25	111.92	111.38	110.78	110.30	112.37	111.93	113.20	112.74
11	114.99	114.22	115.38	114.90	112.07	111.45	110.74	110.40	112.71	112.18	112.74	112.29
12	114.38	113.75	115.18	114.78	111.99	111.43	110.72	110.22	113.00	112.51	112.78	112.40
13	114.13	113.58	115.10	114.63	112.02	111.50	110.76	110.34	113.30	112.82	112.79	112.48
14	114.06	113.51	115.15	114.61	112.08	111.51	110.72	110.19	113.35	113.00	112.84	112.51
15	113.83	113.16	114.96	114.34	111.92	111.37	110.58	109.94	113.45	113.02	112.84	112.07
16	113.39	112.79	114.86	114.34	112.05	111.69	111.22	110.36	113.43	112.98	112.58	111.83
17	113.77	113.26	114.71	113.60	112.23	111.81	111.22	110.82	114.02	113.43	112.15	111.66
18	113.80	113.07	113.96	113.52	112.30	111.77	111.09	110.55	114.21	113.68	112.19	111.68
19	113.59	113.17	114.51	113.96	112.66	112.07	110.93	110.49	114.39	113.60	111.98	111.31
20	114.00	113.45	114.56	114.13	112.95	112.59	110.83	110.19	113.96	113.11	111.74	111.19
21	114.08	113.50	114.55	113.62	113.10	112.72	111.20	110.62	113.32	112.80	111.76	111.12
22	113.84	113.05	114.54	113.87	113.18	112.63	111.20	110.71	113.61	112.96	112.11	111.37
23	113.61	113.15	115.04	114.49	112.79	111.78	111.02	110.53	113.19	112.62	112.72	111.92
24	114.01	113.41	115.14	114.53	112.06	111.56	112.21	111.01	113.95	113.05	113.21	112.51
25	114.17	113.59	114.60	113.87	111.91	111.32	112.53	112.07	113.92	113.31	113.36	112.80
26	114.71	114.01	114.03	113.52	111.68	111.19	112.81	112.41	113.82	113.31	113.28	112.91
27	115.13	114.48	113.54	112.70	111.56	110.94	112.92	112.24	113.83	113.16	113.13	112.59
28	115.15	114.75	112.92	112.36	111.42	110.94	112.64	111.93	113.41	112.82	112.85	112.46
29	115.14	114.67	113.13	112.73	111.47	111.06	112.13	111.52	---	---	112.76	112.29
30	115.20	114.83	113.22	112.75	111.47	110.98	111.81	111.14	---	---	112.73	112.07
31	115.16	114.41	---	---	111.40	110.56	111.57	110.92	---	---	112.56	111.98
MONTH	115.37	112.79	116.04	112.36	113.30	110.56	112.92	109.94	114.39	110.15	113.55	111.12

GROUND-WATER LEVELS

MARYLAND--Continued

CHARLES COUNTY

CH Bb 17--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	112.57	112.00	113.09	112.58	113.76	113.26	113.75	113.25	---	---	116.35	115.49
2	112.23	111.63	112.94	112.29	113.67	113.24	113.75	113.26	116.61	115.99	116.41	115.95
3	112.03	111.48	113.28	112.66	113.91	113.28	114.14	113.52	116.87	116.22	116.61	115.97
4	112.09	111.26	113.05	112.60	114.14	113.55	113.96	113.50	117.08	116.38	116.55	116.06
5	112.72	112.09	112.98	112.45	113.87	113.03	113.93	113.32	117.25	116.67	116.43	115.93
6	112.60	112.07	113.73	112.93	113.13	112.75	113.98	113.28	117.09	116.60	116.66	116.02
7	112.78	112.47	113.96	113.33	113.29	112.73	113.90	113.44	117.04	116.47	116.63	115.76
8	112.57	111.72	114.13	113.51	113.01	112.64	113.97	113.29	116.82	116.21	116.43	115.85
9	111.81	111.52	113.96	113.47	113.08	112.68	113.84	113.26	116.70	115.79	116.28	115.57
10	111.95	111.49	114.02	113.14	112.84	112.34	113.64	112.93	116.33	115.72	116.31	115.72
11	111.94	111.50	114.47	113.72	113.22	112.54	113.37	112.71	116.99	116.32	116.52	115.85
12	111.95	111.45	114.48	114.02	113.58	112.87	113.47	112.90	116.89	116.21	116.30	115.80
13	---	---	114.58	113.93	113.67	113.08	113.34	112.84	116.67	116.10	116.32	115.78
14	112.43	111.83	114.71	113.86	113.36	112.82	113.29	112.73	116.50	115.68	116.47	115.78
15	112.49	111.79	114.30	113.63	113.22	112.70	113.35	112.89	116.12	115.64	116.52	116.06
16	111.90	111.03	114.30	113.68	113.36	112.92	113.33	112.88	116.08	115.58	116.12	115.45
17	111.47	110.74	114.13	113.27	113.47	112.96	113.16	112.60	115.99	115.48	115.63	115.25
18	111.06	110.45	113.93	113.27	113.48	113.03	113.31	112.60	115.82	115.45	115.97	115.46
19	111.28	110.56	113.79	113.06	113.49	113.07	113.46	112.88	115.49	115.12	115.72	115.41
20	112.34	111.05	113.56	113.05	113.39	113.04	113.32	113.04	115.19	114.82	115.50	115.01
21	112.57	111.96	113.26	112.82	113.69	113.16	113.51	112.81	115.22	114.67	115.52	114.88
22	112.60	111.91	112.97	112.62	113.48	113.07	113.97	113.26	116.01	115.05	115.82	115.29
23	112.66	111.99	113.16	112.66	113.51	113.09	113.93	113.47	116.08	115.63	116.21	115.75
24	112.39	111.74	113.30	112.81	113.90	113.19	114.12	113.44	116.03	115.50	116.10	115.58
25	112.70	111.85	113.66	112.95	113.87	113.24	114.71	113.80	116.12	115.68	116.13	115.44
26	112.82	112.35	113.78	113.26	113.75	113.27	114.83	114.32	115.95	115.30	115.79	115.09
27	112.82	112.38	113.72	113.05	113.51	113.10	115.42	114.65	115.79	115.33	115.57	114.84
28	112.90	112.45	113.25	112.78	113.53	112.96	116.00	115.31	115.86	115.24	115.32	114.85
29	113.05	112.44	112.97	112.62	113.51	112.95	116.23	115.65	115.82	115.28	115.18	114.59
30	112.71	112.13	113.54	112.79	113.58	113.14	116.81	116.11	115.93	115.32	115.00	114.47
31	---	---	113.85	113.31	---	---	116.76	116.09	116.02	115.43	---	---
MONTH	113.05	110.45	114.71	112.29	114.14	112.34	116.81	112.60	117.25	114.67	116.66	114.47
YEAR	117.25	109.94										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

239

MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 5, SITE ID.--383524077094401.

LOCATION.--Lat 38°35'24", long 77°09'44", Hydrologic Unit 02070011, at Benson Rd.; U.S. Naval Ordnance Station, Indian Head.

Owner: U.S. Navy.

AQUIFER.--Lower Patapsco of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 430 ft; casing diameter 8 in. to unknown depth; screen diameter 8 in, depth unknown.

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

Equipped with digital water-level recorder--60-minute recorder interval, April 28, 1988 to current year.

DATUM.--Elevation of land surface is 38.2 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of recorder shelf, 2.5 ft above land surface.

REMARKS.--Indian Head Project observation well. Water levels are affected by nearby pumping.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.80 ft below land surface, Jan. 4, 1994; lowest measured, 126.78 ft below land surface, Jan. 11, 1989.

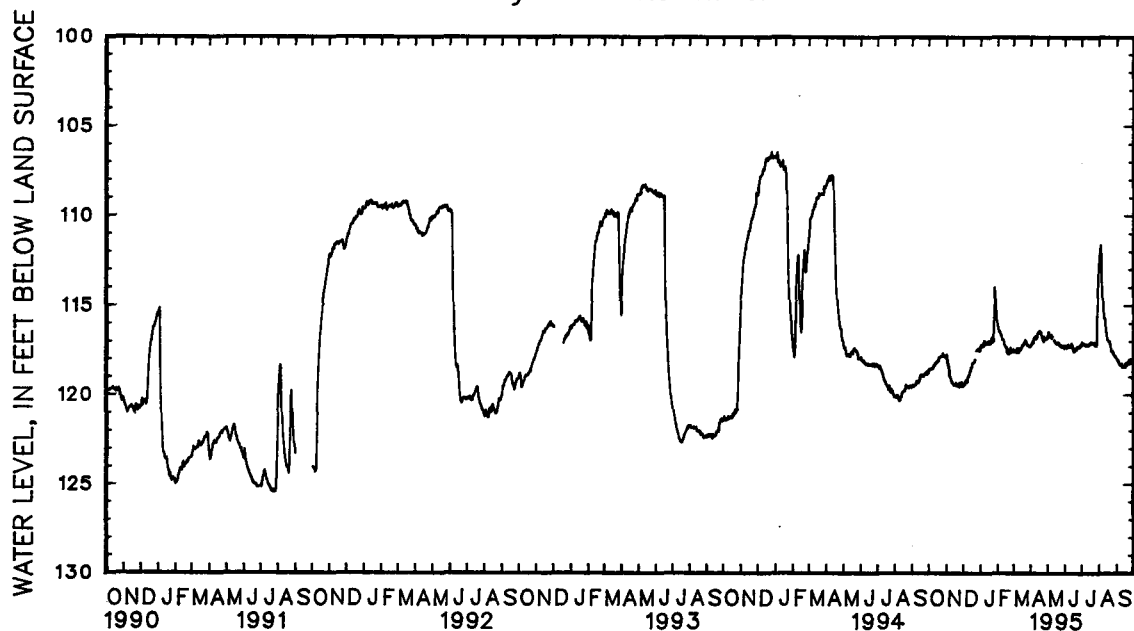
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	118.60	118.19	117.77	117.09	119.52	119.07	117.25	116.69	116.24	115.82	117.57	117.11
2	118.60	118.13	118.08	117.48	119.50	118.91	117.26	116.81	116.41	116.01	117.59	117.23
3	118.54	118.00	118.25	117.85	119.41	118.98	117.28	116.80	116.48	116.03	117.60	117.21
4	118.57	118.13	118.35	117.93	119.42	118.91	117.18	116.82	116.44	115.77	117.58	117.19
5	118.59	118.12	118.51	118.06	119.27	118.68	117.26	116.94	116.59	116.33	117.62	117.13
6	118.54	118.01	118.61	118.17	119.21	118.73	117.14	116.60	116.65	116.54	117.45	117.02
7	118.53	117.98	119.00	118.52	119.15	118.69	116.97	116.51	116.65	116.44	117.50	117.17
8	118.50	117.89	119.02	118.68	119.30	118.85	117.06	116.72	116.89	116.44	117.41	116.97
9	118.38	117.87	119.10	118.68	119.07	118.65	117.03	116.60	116.88	116.60	117.64	117.31
10	118.41	117.92	119.23	118.78	118.97	118.43	117.15	116.75	116.93	116.63	117.61	117.34
11	118.36	117.91	119.32	118.85	118.90	118.39	117.11	116.72	116.97	116.60	117.43	117.11
12	118.25	117.86	119.36	119.01	118.86	118.46	117.04	116.61	117.21	116.79	117.51	117.19
13	118.26	117.81	119.41	118.97	118.68	118.26	117.13	116.71	117.25	116.98	117.48	117.12
14	118.21	117.78	119.47	119.03	118.62	118.12	117.13	116.64	117.34	117.02	117.43	117.10
15	118.13	117.68	119.48	118.98	118.48	118.07	116.98	116.29	117.37	117.00	117.37	116.84
16	118.14	117.57	119.48	119.12	118.48	117.95	117.05	116.53	117.40	116.99	117.25	116.78
17	118.14	117.69	119.47	118.75	118.34	117.78	117.14	116.76	117.65	117.29	117.20	116.72
18	118.08	117.39	119.34	118.79	118.22	117.71	117.11	116.61	117.71	117.33	117.22	116.79
19	117.92	117.39	119.48	119.11	118.23	117.91	117.03	116.46	117.74	117.32	117.13	116.62
20	117.92	117.38	119.52	119.08	118.22	117.69	116.78	116.24	117.63	117.13	117.04	116.50
21	117.89	117.42	119.46	118.70	118.14	117.72	117.02	116.53	117.58	117.05	116.92	116.32
22	117.85	117.26	119.41	119.05	118.05	117.52	117.08	116.74	117.69	117.19	117.01	116.48
23	---	---	119.54	119.29	---	---	117.01	115.95	117.39	116.91	117.01	116.60
24	---	---	119.54	119.18	117.53	117.20	115.97	115.09	117.64	117.14	117.17	116.73
25	117.70	117.34	119.35	119.04	117.49	117.07	115.09	113.99	117.57	117.18	117.25	116.84
26	117.85	117.45	119.49	119.18	117.52	117.10	113.99	113.54	117.58	117.14	117.26	116.89
27	117.87	117.54	119.45	118.90	117.53	117.07	114.53	113.71	117.58	117.16	117.27	116.83
28	117.84	117.52	119.32	118.69	117.42	116.95	115.25	114.37	117.48	116.99	117.29	116.81
29	117.87	117.48	119.52	119.07	---	---	115.75	115.07	---	---	117.32	116.87
30	117.87	117.43	119.53	119.17	117.52	117.14	115.92	115.44	---	---	117.28	116.81
31	117.79	117.28	---	---	117.41	116.93	116.10	115.68	---	---	117.28	116.89
MONTH	118.60	117.26	119.54	117.09	119.52	116.93	117.28	113.54	117.74	115.77	117.64	116.32

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued
CH Bc 5--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	117.23	116.78	116.74	116.27	117.28	116.90	117.07	116.65	112.48	111.67	118.05	117.46
2	117.13	116.68	116.46	115.83	117.32	116.92	117.14	116.68	111.94	111.32	118.13	117.72
3	117.12	116.63	116.71	116.33	117.32	116.95	117.14	116.73	111.63	111.06	118.11	117.71
4	116.98	116.48	116.68	116.30	117.39	117.03	117.14	116.73	112.09	110.96	118.21	117.60
5	117.09	116.73	116.63	116.17	117.33	116.91	117.22	116.75	113.34	111.95	118.29	117.79
6	116.80	116.47	116.73	116.39	117.19	116.85	117.22	116.78	114.22	113.17	118.35	117.87
7	116.86	116.54	116.63	116.29	117.27	116.85	117.18	116.76	114.81	113.99	118.33	117.80
8	116.73	116.32	116.81	116.27	117.31	116.76	117.24	116.69	115.40	114.37	118.30	117.85
9	116.71	116.38	116.73	116.38	117.34	116.94	117.23	116.75	115.71	114.89	118.30	117.79
10	116.84	116.48	116.72	116.18	117.27	116.80	117.19	116.66	115.72	114.92	118.48	117.93
11	116.78	116.38	---	---	117.30	116.76	117.18	116.65	115.93	115.35	118.47	118.03
12	116.73	116.25	116.93	116.33	117.15	116.62	117.22	116.70	116.26	115.70	118.42	117.97
13	116.50	115.89	117.03	116.46	117.27	116.78	117.17	116.62	116.60	116.06	118.42	117.95
14	116.47	116.10	117.05	116.42	117.30	116.71	117.15	116.65	116.80	116.29	118.39	118.08
15	116.48	116.15	117.11	116.46	117.50	116.95	117.13	116.70	116.94	116.32	118.47	117.98
16	116.40	115.89	117.15	116.65	117.59	117.14	117.14	116.68	116.94	116.48	118.26	117.89
17	116.43	115.92	117.08	116.49	117.59	117.17	117.05	116.59	117.03	116.51	118.23	117.91
18	116.56	116.06	117.12	116.61	117.56	117.18	117.10	116.57	117.03	116.67	118.36	118.01
19	116.50	115.95	117.16	116.47	117.50	117.16	117.14	116.70	116.99	116.57	118.30	117.86
20	116.74	116.15	117.10	116.69	117.42	117.10	117.12	116.71	117.18	116.54	118.15	117.79
21	116.73	116.23	117.13	116.63	117.47	117.12	117.08	116.67	117.35	116.80	118.15	117.58
22	116.92	116.37	117.26	116.75	117.35	117.00	117.16	116.71	117.58	117.06	118.14	117.52
23	117.02	116.61	117.26	116.88	117.32	116.99	117.15	116.74	117.58	117.24	118.26	117.93
24	116.74	116.31	117.21	116.80	117.31	116.87	117.22	116.74	117.55	117.13	118.15	117.72
25	116.84	116.41	117.32	116.85	117.30	116.82	117.19	116.74	117.72	117.34	118.14	117.60
26	116.91	116.46	117.33	116.94	117.36	116.95	117.25	116.84	117.69	117.20	118.15	117.66
27	116.83	116.40	117.27	116.84	117.31	116.89	117.05	115.54	117.80	117.36	118.21	117.70
28	116.83	116.37	117.28	116.85	117.20	116.78	115.63	114.65	117.87	117.37	118.24	117.84
29	116.83	116.41	117.24	116.87	117.23	116.77	114.73	113.70	117.86	117.36	118.25	117.69
30	116.71	116.25	117.39	116.98	117.21	116.76	113.87	113.00	117.92	117.39	118.16	117.27
31	---	---	117.34	117.01	---	---	113.13	112.20	117.98	117.46	---	---
MONTH	117.23	115.89	117.39	115.83	117.59	116.82	117.25	112.20	117.98	110.96	118.48	117.27
YEAR	119.54	110.96										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

241

MARYLAND--Continued

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 of Lower Cretaceous age. Aquifer code: 217PFSC.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval, April 30, 1988 to current year.
 DATUM.--Elevation of land surface is 72 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder shelf, 1.6 ft above land surface.
 REMARKS.--Indian Head Project observation well. Water levels are affected by nearby pumping.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--May 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.26 ft below land surface, April 30, 1988; lowest measured, 185.48 ft below land surface, September 15, 1995.

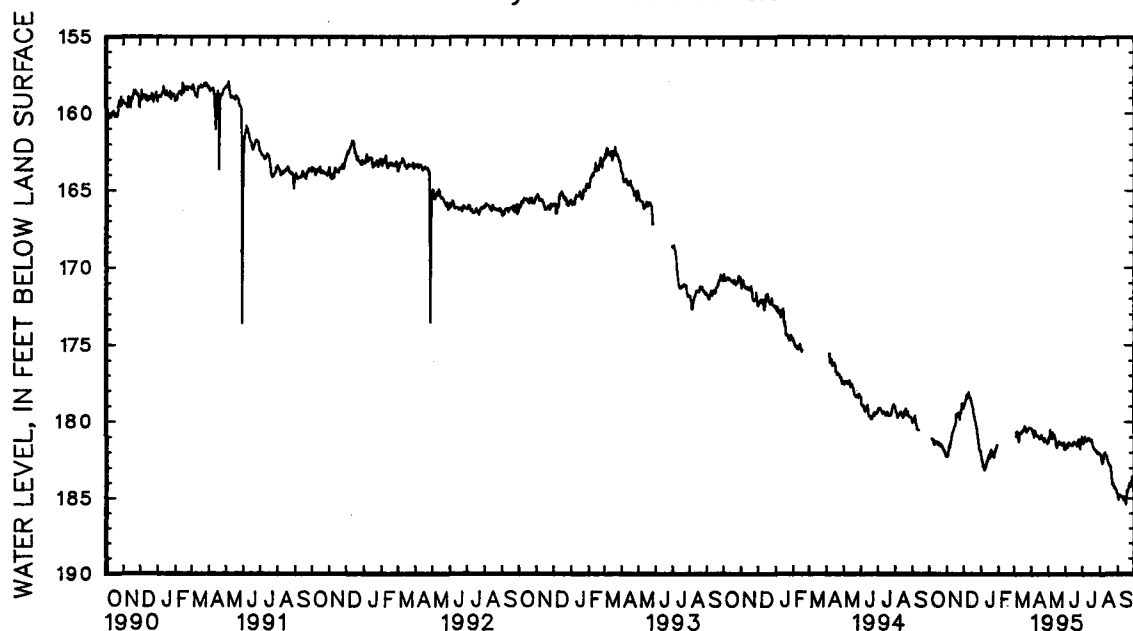
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	182.24	181.52	179.18	178.60	182.02	181.54	---	---	---	---
2	---	---	182.40	181.88	179.02	178.36	182.35	181.79	---	---	---	---
3	---	---	182.40	181.80	178.82	178.36	182.60	182.16	---	---	---	---
4	---	---	182.22	181.44	178.85	178.26	182.71	182.26	---	---	181.00	180.56
5	---	---	181.88	181.18	178.61	177.90	183.03	182.50	---	---	181.03	180.47
6	181.27	180.78	181.64	181.10	178.36	177.88	182.90	182.39	---	---	180.76	180.32
7	181.33	180.82	181.80	181.19	178.29	177.83	182.99	182.38	---	---	180.77	180.39
8	181.33	180.81	181.63	180.98	178.50	177.90	183.27	182.88	---	---	180.71	180.23
9	181.30	180.86	181.36	180.91	178.25	177.78	183.16	182.72	---	---	181.38	180.56
10	181.62	180.87	181.19	180.75	178.11	177.59	183.14	182.73	---	---	181.29	180.81
11	181.60	181.19	180.84	180.40	178.29	177.62	183.02	182.53	---	---	180.83	180.36
12	181.42	181.01	180.80	180.41	178.43	178.06	182.81	182.25	---	---	180.78	180.41
13	181.38	180.97	180.67	180.16	178.53	178.06	182.62	182.21	---	---	180.78	180.39
14	181.45	181.01	180.56	180.07	178.62	178.21	182.65	182.11	---	---	180.81	180.43
15	181.43	181.01	180.40	179.87	178.78	178.24	182.44	181.71	---	---	180.82	180.26
16	181.44	180.91	180.33	179.92	178.95	178.59	182.26	181.89	---	---	180.68	180.23
17	181.60	181.20	180.21	179.30	179.04	178.66	182.48	182.08	---	---	180.64	180.16
18	181.64	181.02	179.57	179.12	179.15	178.80	182.42	181.84	---	---	180.67	180.23
19	181.48	181.05	179.74	179.36	179.52	179.09	182.19	181.60	---	---	180.63	180.11
20	181.57	181.13	179.77	179.26	179.68	179.30	181.91	181.36	---	---	180.49	180.01
21	181.71	181.28	179.64	178.82	179.90	179.43	182.11	181.50	---	---	180.34	179.83
22	181.66	181.16	179.48	178.92	180.04	179.65	182.25	181.87	---	---	180.47	179.97
23	181.59	181.20	179.73	179.36	180.12	179.72	182.12	181.74	---	---	180.48	180.08
24	181.74	181.28	179.90	179.38	180.38	179.72	182.33	181.75	---	---	180.74	180.19
25	181.73	181.34	179.47	179.07	180.55	180.14	182.41	181.93	---	---	180.68	180.30
26	181.91	181.47	179.49	179.14	180.90	180.24	182.12	181.77	---	---	180.60	180.24
27	181.99	181.64	179.27	178.72	181.15	180.70	182.09	181.55	---	---	180.55	180.09
28	181.95	181.64	178.85	178.27	181.39	180.86	181.90	181.29	---	---	180.47	180.06
29	182.11	181.64	179.13	178.64	181.83	181.19	181.79	181.32	---	---	180.50	180.04
30	182.31	181.85	179.20	178.78	181.99	181.54	181.76	181.14	---	---	180.43	179.99
31	182.36	181.87	---	---	182.04	181.54	181.63	181.07	---	---	180.47	180.07
MONTH	182.36	180.78	182.40	178.27	182.04	177.59	183.27	181.07	---	---	181.38	179.83

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued
CH Bc 24--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	180.50	180.03	181.41	180.94	181.65	181.25	181.33	180.87	182.17	181.74	185.04	184.38
2	180.51	180.08	181.08	180.42	181.67	181.26	181.48	180.98	182.22	181.78	185.18	184.72
3	180.59	180.18	181.11	180.75	181.62	181.23	181.48	181.03	182.47	181.89	185.03	184.57
4	180.69	180.07	181.06	180.50	181.78	181.30	181.33	180.86	182.66	182.13	184.86	184.37
5	181.08	180.65	180.59	180.01	181.71	181.27	181.05	180.59	182.82	182.30	184.96	184.47
6	180.66	180.28	181.15	180.53	181.42	181.05	181.27	180.73	182.74	182.28	184.99	184.53
7	180.81	180.43	181.02	180.65	181.44	181.01	181.32	180.88	182.50	181.96	184.98	184.45
8	180.67	180.25	181.15	180.60	181.47	180.93	181.33	180.84	182.22	181.63	184.97	184.50
9	180.73	180.31	181.03	180.69	181.59	181.13	181.33	180.82	182.09	181.56	185.01	184.53
10	180.99	180.55	180.77	180.34	181.58	181.07	181.23	180.70	182.21	181.73	185.10	184.72
11	180.96	180.55	---	---	181.58	181.08	181.10	180.63	182.28	181.82	185.21	184.68
12	180.97	180.52	180.91	180.24	181.60	181.10	181.24	180.75	182.33	181.89	185.00	184.53
13	181.01	180.43	181.19	180.56	181.66	181.18	181.13	180.64	182.51	181.99	185.09	184.54
14	181.14	180.69	181.33	180.82	181.51	180.92	181.19	180.71	182.64	182.14	185.27	184.70
15	181.20	180.80	181.62	180.98	181.41	180.91	181.29	180.83	182.77	182.18	185.48	184.97
16	181.11	180.57	181.76	181.25	181.47	180.98	181.38	180.93	182.81	182.37	185.03	184.57
17	181.03	180.54	181.64	181.06	181.39	180.96	181.23	180.87	182.94	182.41	184.57	184.27
18	180.99	180.50	181.51	181.04	181.42	181.02	181.40	180.87	183.01	182.66	184.65	184.26
19	180.93	180.41	181.44	180.82	181.42	181.03	181.66	181.10	182.97	182.64	184.49	184.11
20	181.20	180.57	181.36	180.96	181.50	181.06	181.72	181.29	183.28	182.65	184.28	183.77
21	181.14	180.63	181.37	180.93	181.66	181.20	181.82	181.38	183.69	183.03	184.10	183.72
22	181.20	180.67	181.54	181.02	181.59	181.14	181.90	181.51	184.18	183.47	184.12	183.62
23	181.38	180.94	181.54	181.15	181.42	181.08	181.89	181.51	184.21	183.85	184.30	183.90
24	181.14	180.68	181.46	181.07	181.42	180.93	181.97	181.51	184.12	183.73	184.14	183.39
25	181.20	180.76	181.54	181.02	181.20	180.75	182.04	181.69	184.40	184.03	183.86	183.23
26	181.31	180.85	181.60	181.17	181.73	180.95	181.99	181.64	184.34	183.85	183.64	183.03
27	181.31	180.88	181.53	181.08	181.85	181.03	182.13	181.76	184.37	183.99	183.65	183.08
28	181.44	180.90	181.48	181.08	181.24	180.67	182.18	181.83	184.52	184.13	183.61	183.08
29	181.51	181.08	181.44	181.08	181.21	180.82	182.09	181.72	184.56	184.15	183.72	183.19
30	181.39	180.92	181.86	181.27	181.04	180.55	182.14	181.74	184.71	184.15	183.76	183.30
31	---	---	181.91	181.39	---	---	182.13	181.74	184.80	184.30	---	---
MONTH	181.51	180.03	181.91	180.01	181.85	180.55	182.18	180.59	184.80	181.56	185.48	183.03
YEAR	185.48	177.59										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

243

MARYLAND--Continued

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 Sun Valley housing development, 1.5 mi. northwest of 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 8 in., to 428 ft; screen diameter 5 in. from 433 to 459 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. 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 current year.

DATUM.--Elevation of land surface is 216.79 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.0 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.

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, 56.42 ft below sea level, Sept. 11, 1995.

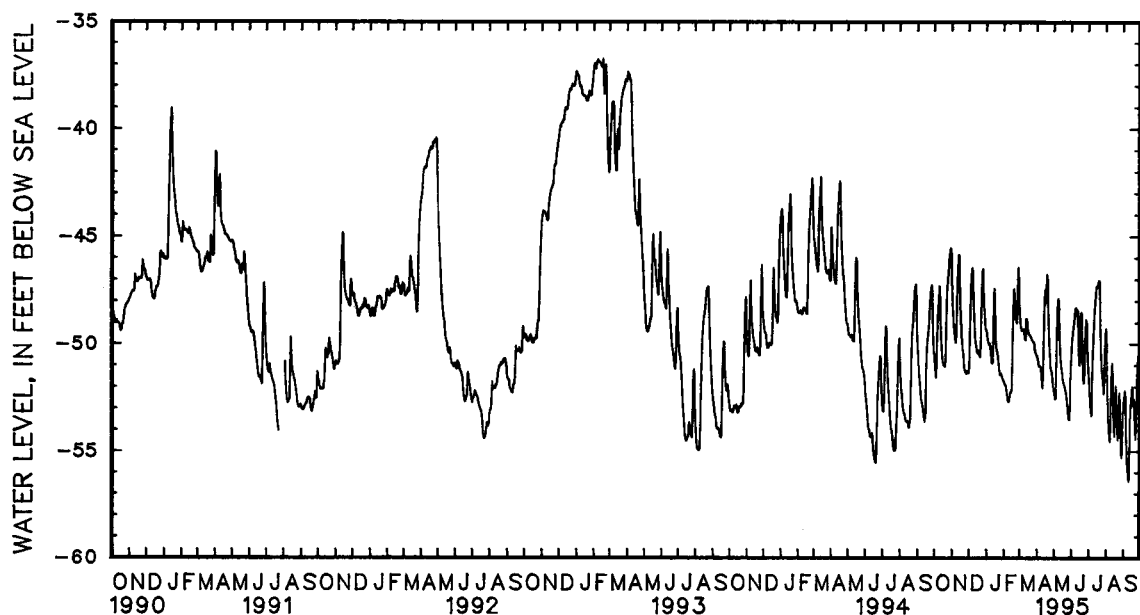
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-50.37	-50.65	-45.78	-47.19	-50.82	-51.36	-49.32	-49.34	-51.74	-51.75	-47.66	-48.38
2	-50.65	-51.06	-47.19	-48.11	-48.96	-50.62	-49.33	-49.62	-51.75	-51.84	-48.38	-48.84
3	-51.06	-51.41	-48.11	-48.66	-47.97	-48.96	-49.62	-49.78	-51.84	-51.93	-48.84	-49.14
4	-50.85	-51.60	-48.66	-49.10	-47.19	-47.97	-49.78	-49.93	-51.78	-51.93	-49.14	-49.33
5	-49.59	-50.85	-49.10	-49.39	-46.74	-47.19	-49.93	-50.04	-51.89	-52.09	-49.33	-49.37
6	-48.82	-49.59	-49.39	-49.61	-46.42	-46.74	-49.87	-50.05	-52.09	-52.29	-49.37	-49.37
7	-48.30	-48.82	-49.61	-49.92	-45.94	-46.42	-49.82	-50.00	-52.29	-52.43	-49.30	-49.37
8	-47.82	-48.30	-49.53	-49.95	-45.88	-46.63	-50.00	-50.15	-52.43	-52.67	-49.16	-49.30
9	-47.29	-47.82	-47.83	-49.53	-46.63	-47.93	-50.15	-50.46	-52.67	-52.70	-49.16	-49.38
10	-47.17	-47.29	-46.96	-47.83	-47.93	-48.56	-50.46	-50.88	-52.47	-52.68	-49.38	-49.62
11	-47.12	-47.99	-46.41	-46.96	-48.56	-49.26	-50.88	-50.91	-52.30	-52.47	-49.62	-49.75
12	-47.99	-49.21	-45.84	-46.41	-49.26	-49.74	-49.96	-50.91	-52.29	-52.30	-48.83	-49.83
13	-49.21	-49.83	-45.49	-45.84	-49.74	-50.00	-48.27	-49.96	-52.22	-52.29	-47.79	-48.83
14	-49.83	-50.30	-45.31	-45.84	-50.00	-50.16	-47.20	-48.27	-52.15	-52.22	-47.99	-48.82
15	-50.30	-50.74	-45.84	-47.40	-50.16	-50.37	-46.77	-47.39	-51.13	-52.15	-48.82	-49.14
16	-50.74	-50.88	-47.40	-48.39	-50.37	-50.43	-47.39	-48.67	-49.46	-51.13	-49.14	-49.37
17	-50.88	-51.00	-48.39	-49.05	-50.32	-50.43	-48.67	-49.56	-48.26	-49.46	-49.37	-49.47
18	-51.00	-51.01	-49.05	-49.55	-50.25	-50.32	-49.56	-50.10	-47.39	-48.26	-49.47	-49.57
19	-50.97	-51.00	-49.55	-49.98	-50.30	-50.50	-50.10	-50.31	-46.83	-47.39	-49.57	-49.60
20	-50.68	-51.06	-49.98	-50.32	-50.50	-50.58	-50.22	-50.37	-47.14	-47.97	-49.60	-49.61
21	-49.03	-50.68	-50.32	-50.45	-50.06	-50.62	-50.37	-50.56	-47.97	-48.55	-49.61	-49.69
22	-47.95	-49.03	-50.45	-50.95	-48.30	-50.06	-50.56	-50.88	-48.55	-48.82	-49.69	-49.74
23	-47.30	-47.95	-50.95	-51.22	-47.23	-48.30	-50.88	-51.07	-48.82	-48.88	-49.74	-49.83
24	-46.95	-47.30	-51.22	-51.31	-46.62	-47.23	-51.07	-51.41	-48.34	-49.01	-49.83	-49.86
25	-46.64	-46.95	-51.31	-51.31	-46.32	-46.62	-51.41	-51.45	-46.97	-48.34	-49.84	-49.91
26	-46.25	-46.64	-51.31	-51.39	-46.06	-46.48	-51.38	-51.44	-46.33	-46.97	-49.91	-49.94
27	-45.89	-46.25	-51.28	-51.39	-46.48	-47.67	-51.38	-51.39	-45.95	-46.43	-49.94	-50.00
28	-45.69	-45.89	-51.11	-51.28	-47.67	-48.26	-51.39	-51.47	-46.43	-47.66	-50.00	-50.25
29	-45.54	-45.69	-51.16	-51.31	-48.26	-48.80	-51.47	-51.58	---	---	-50.25	-50.41
30	-45.34	-45.54	-51.31	-51.34	-48.80	-49.21	-51.58	-51.66	---	---	-50.41	-50.45
31	-45.17	-45.78	---	---	-49.21	-49.34	-51.66	-51.74	---	---	-50.45	-50.54
MONTH	-45.17	-51.60	-45.31	-51.39	-45.88	-51.36	-46.77	-51.74	-45.95	-52.70	-47.66	-50.54

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued
CH Be 43--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-50.50	-50.57	-52.09	-52.20	-50.10	-50.68	-50.91	-51.35	-49.14	-49.29	-52.68	-53.03
2	-50.50	-50.69	-52.20	-52.37	-49.71	-50.10	-51.35	-51.75	-49.14	-49.97	-52.48	-52.68
3	-50.69	-50.82	-52.37	-52.57	-49.42	-49.71	-51.75	-52.35	-49.97	-51.69	-52.17	-52.48
4	-50.82	-51.01	-51.52	-52.58	-49.18	-49.42	-52.35	-52.95	-51.69	-52.78	-51.89	-52.17
5	-51.01	-51.06	-49.85	-51.52	-48.95	-49.18	-52.95	-53.20	-52.78	-53.58	-51.76	-52.53
6	-50.99	-51.06	-48.90	-49.85	-48.73	-48.95	-52.99	-53.36	-53.58	-54.05	-52.53	-54.06
7	-50.98	-51.06	-48.23	-48.90	-48.35	-48.73	-51.42	-52.99	-54.05	-54.47	-54.06	-54.98
8	-51.06	-51.18	-47.89	-48.23	-48.25	-48.35	-50.45	-51.42	-53.59	-54.58	-54.98	-55.55
9	-51.18	-51.49	-47.67	-47.89	-48.25	-48.31	-49.72	-50.45	-52.18	-53.59	-55.55	-55.87
10	-51.49	-51.98	-47.48	-48.08	-48.31	-48.37	-49.06	-49.72	-51.38	-52.18	-55.87	-56.29
11	-51.13	-52.08	-48.08	-49.45	-48.36	-48.39	-48.41	-49.06	-50.92	-51.38	-55.52	-56.42
12	-49.34	-51.13	-49.45	-50.26	-48.34	-48.40	-48.02	-48.41	-50.61	-50.92	-54.05	-55.52
13	-48.23	-49.34	-50.26	-50.78	-48.40	-49.03	-47.62	-48.02	-50.54	-51.60	-53.11	-54.05
14	-47.66	-48.23	-50.78	-51.02	-49.03	-50.51	-47.27	-47.62	-51.60	-53.02	-52.63	-53.11
15	-47.05	-47.66	-51.02	-51.25	-50.38	-50.98	-47.21	-47.34	-53.02	-54.04	-52.48	-52.63
16	-46.84	-47.45	-51.25	-51.38	-49.20	-50.38	-47.30	-47.35	-53.45	-54.33	-51.99	-52.48
17	-47.45	-48.09	-51.38	-51.67	-48.57	-49.20	-47.17	-47.30	-52.28	-53.45	-51.52	-51.99
18	-46.75	-47.58	-51.67	-51.83	-48.13	-48.57	-47.06	-47.17	-51.76	-52.28	-51.38	-52.06
19	-46.27	-46.75	-51.83	-51.89	-47.96	-48.53	-47.04	-47.06	-51.45	-51.97	-52.06	-52.91
20	-46.18	-47.00	-51.89	-52.00	-48.53	-49.84	-46.97	-47.04	-51.97	-53.25	-51.77	-52.59
21	-47.00	-48.45	-52.00	-52.12	-49.84	-50.88	-46.96	-47.88	-53.25	-54.11	-52.04	-53.27
22	-48.45	-49.32	-52.12	-52.21	-50.88	-51.65	-47.88	-49.53	-53.99	-54.50	-53.27	-54.10
23	-49.32	-50.01	-52.21	-52.40	-51.42	-51.85	-49.53	-50.39	-52.86	-53.99	-53.82	-54.48
24	-50.01	-50.53	-52.40	-52.73	-50.20	-51.42	-50.39	-51.08	-52.29	-52.86	-52.42	-53.82
25	-50.53	-51.04	-52.73	-52.90	-49.44	-50.20	-51.08	-51.59	-52.05	-52.29	-51.45	-52.42
26	-51.04	-51.26	-52.90	-53.29	-48.86	-49.44	-50.55	-51.28	-51.88	-52.75	-50.96	-51.45
27	-51.26	-51.28	-53.29	-53.48	-48.39	-48.86	-50.94	-51.92	-52.75	-54.12	-50.56	-50.96
28	-51.28	-51.53	-53.48	-53.55	-48.28	-49.09	-51.79	-52.34	-54.12	-55.03	-50.07	-50.56
29	-51.53	-51.92	-52.77	-53.55	-49.09	-50.33	-50.49	-51.79	-54.73	-55.33	-49.91	-50.72
30	-51.92	-52.09	-51.28	-52.77	-50.33	-50.91	-49.76	-50.49	-53.69	-54.73	-50.72	-52.09
31	---	---	-50.68	-51.28	---	---	-49.29	-49.76	-53.03	-53.69	---	---
MONTH	-46.18	-52.09	-47.48	-53.55	-47.96	-51.85	-46.96	-53.36	-49.14	-55.33	-49.91	-56.42
YEAR	-45.17	-56.42										

Daily Low Water Levels



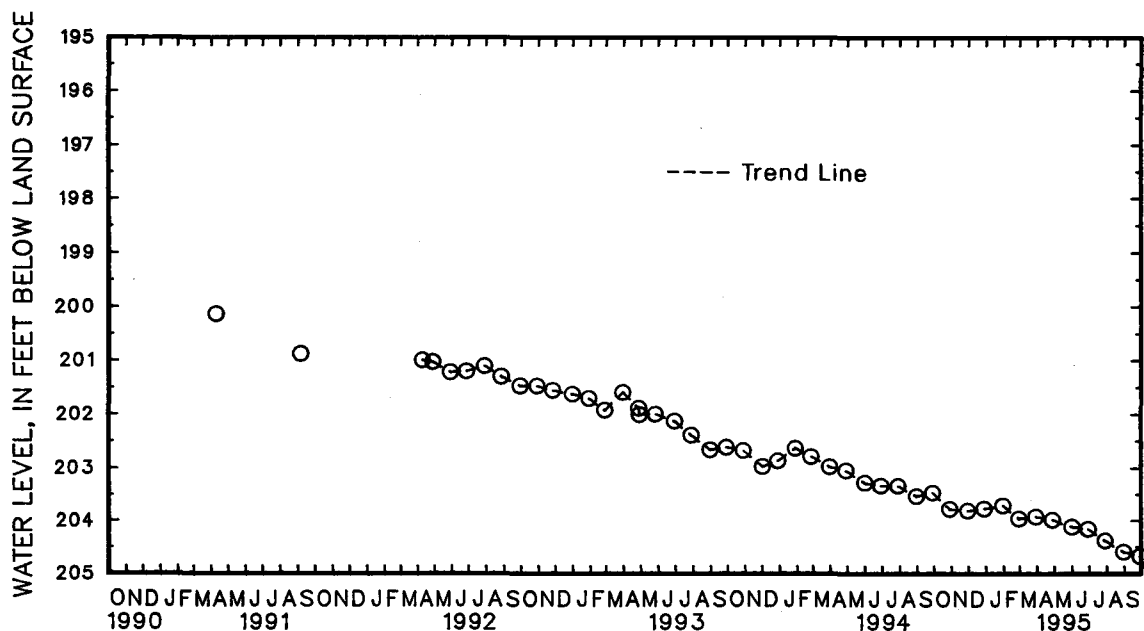
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 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.--Patuxant Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
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 chalked steel tape by U.S. Geological Survey personnel from April 1992 to current year.
DATUM.--Elevation of land surface is 213.0 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of recorder platform, 2.0 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--April 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 196.10 ft below land surface, April 3, 1986; lowest measured, 204.68 ft below land surface, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	203.80	DEC 28	203.79	FEB 27	203.98	APR 27	204.00	JUN 28	204.17	AUG 30	204.60
NOV 29	203.83	JAN 30	203.73	MAR 29	203.94	MAY 31	204.13	JUL 28	204.39	SEP 28	204.68
WATER YEAR 1995		HIGHEST	203.73	JAN 30, 1995		LOWEST	204.68	SEP 28, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

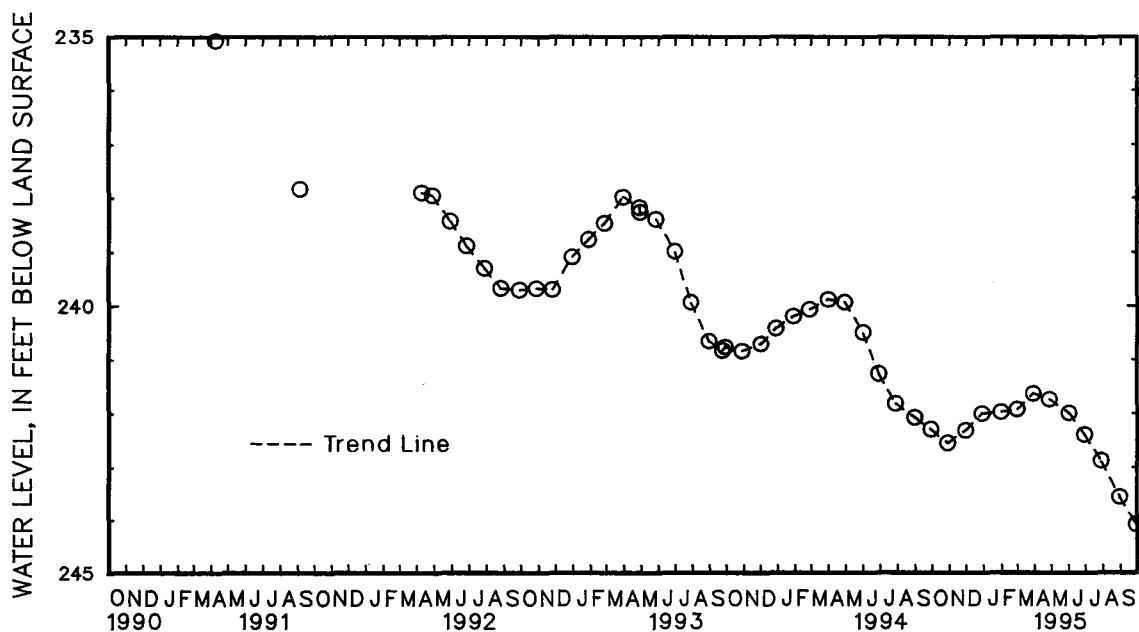
MARYLAND--Continued

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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 chalked steel tape by U.S. Geological Survey personnel from April 1992 to current year.
 DATUM.--Elevation of land surface is 212.8 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.2 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well,
 PERIOD OF RECORD.--November 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 227.10 ft below land surface, April 10, 1987; lowest measured, 244.10 ft below land surface, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	242.59	DEC 28	242.04	FEB 27	241.95	APR 27	241.76	JUN 28	242.43	AUG 30	243.59
NOV 29	242.35	JAN 30	242.00	MAR 29	241.65	MAY 31	242.02	JUL 28	242.92	SEP 28	244.10
WATER YEAR 1995		HIGHEST	241.65	MAR 29, 1995		LOWEST	244.10	SEP 28, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

247

MARYLAND--Continued

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 chalked steel tape by U.S. 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 current year. 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 1.18 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.
 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, 54.47 ft below sea level, Sept. 10, 1995.

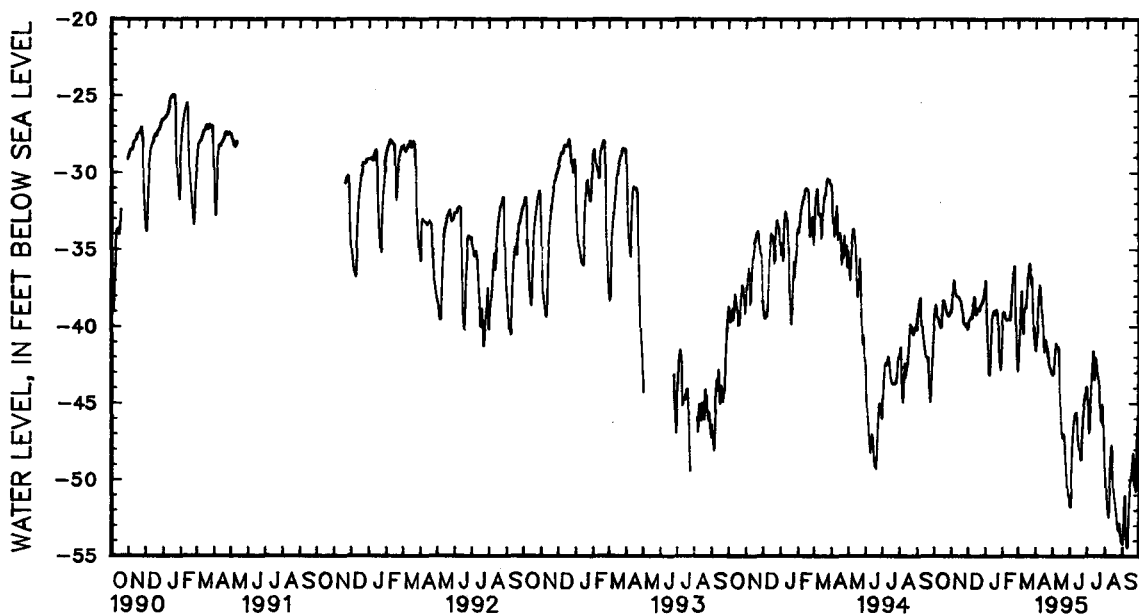
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-38.97	-39.57	-38.40	-39.02	-39.89	-40.02	-36.89	-37.03	-38.98	-39.24	-41.28	-42.55
2	-38.80	-38.97	-37.97	-38.40	-39.61	-39.89	-37.03	-37.49	-38.98	-39.06	-40.55	-41.28
3	-38.59	-38.80	-37.36	-37.97	-39.57	-39.61	-37.49	-38.94	-39.06	-39.14	-40.10	-40.55
4	-38.38	-38.59	-36.99	-37.36	-39.51	-39.58	-38.94	-40.99	-38.91	-39.10	-39.18	-40.10
5	-38.41	-38.79	-36.86	-36.99	-39.39	-39.51	-40.55	-41.16	-38.96	-39.14	-38.29	-39.18
6	-38.79	-39.29	-36.84	-37.05	-39.34	-39.46	-41.16	-42.21	-39.14	-39.43	-37.69	-38.29
7	-39.29	-39.41	-37.05	-37.48	-39.24	-39.36	-42.21	-43.11	-39.43	-39.51	-37.36	-37.71
8	-39.40	-39.42	-37.48	-37.73	-39.36	-39.47	-43.11	-43.20	-39.50	-39.61	-37.71	-39.19
9	-39.41	-39.50	-37.73	-37.91	-38.79	-39.43	-42.63	-43.18	-39.59	-39.62	-39.19	-40.20
10	-39.50	-39.86	-37.91	-38.01	-38.16	-38.79	-40.77	-42.63	-39.51	-39.59	-39.74	-40.46
11	-39.86	-40.03	-38.01	-38.06	-38.01	-38.16	-39.97	-40.77	-39.42	-39.52	-38.96	-39.74
12	-40.03	-40.08	-37.97	-38.06	-37.97	-38.05	-39.56	-39.97	-39.44	-39.51	-38.82	-38.96
13	-39.95	-40.05	-37.95	-38.03	-38.00	-38.24	-39.25	-39.56	-39.50	-39.55	-38.80	-38.83
14	-39.35	-39.95	-38.03	-38.11	-38.24	-39.15	-39.10	-39.25	-39.53	-39.58	-38.78	-38.83
15	-38.77	-39.35	-38.10	-38.11	-39.15	-39.25	-38.94	-39.10	-39.17	-39.54	-38.14	-38.79
16	-38.37	-38.77	-38.11	-38.28	-39.03	-39.23	-38.93	-38.96	-38.54	-39.17	-37.39	-38.14
17	-38.18	-38.37	-38.28	-38.30	-38.82	-39.03	-38.95	-39.16	-37.73	-38.54	-36.82	-37.39
18	-38.03	-38.29	-38.30	-38.36	-38.70	-38.82	-39.16	-39.22	-37.14	-37.73	-36.38	-36.82
19	-38.26	-38.30	-38.36	-38.56	-38.74	-38.93	-39.00	-39.22	-36.62	-37.14	-36.20	-36.38
20	-38.30	-38.48	-38.56	-38.88	-38.93	-38.96	-38.81	-39.00	-36.14	-36.62	-35.90	-36.20
21	-38.48	-38.65	-38.88	-39.01	-38.90	-38.96	-38.82	-38.89	-36.09	-36.14	-35.70	-35.90
22	-38.65	-38.84	-39.01	-39.44	-38.72	-38.90	-38.89	-39.09	-35.81	-36.09	-35.59	-36.20
23	-38.84	-38.97	-39.44	-39.70	-38.63	-38.72	-39.09	-39.14	-35.58	-36.34	-36.20	-37.25
24	-38.97	-39.06	-39.70	-39.83	-38.44	-38.63	-39.14	-40.15	-36.34	-38.77	-36.45	-37.11
25	-39.06	-39.21	-39.80	-39.91	-38.43	-38.49	-40.15	-41.61	-38.77	-40.43	-36.29	-36.80
26	-39.21	-39.32	-39.91	-40.00	-38.44	-38.49	-41.61	-42.16	-40.43	-41.82	-36.80	-38.51
27	-39.21	-39.32	-39.77	-40.00	-38.23	-38.44	-42.16	-42.41	-41.82	-42.55	-38.51	-39.49
28	-39.23	-39.31	-39.56	-39.77	-38.17	-38.23	-42.41	-42.64	-42.55	-42.96	-39.49	-40.13
29	-39.02	-39.23	-39.64	-40.18	-37.74	-38.19	-42.34	-42.82	---	---	-40.13	-40.62
30	-38.99	-39.06	-40.01	-40.18	-37.36	-37.74	-40.35	-42.34	---	---	-40.62	-41.17
31	-39.02	-39.09	---	---	-36.97	-37.36	-39.24	-40.35	---	---	-41.17	-41.48
MONTH	-38.03	-40.08	-36.84	-40.18	-36.97	-40.02	-36.89	-43.20	-35.58	-42.96	-35.59	-42.55

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued
CH Bf 101--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-41.17	-41.82	-43.16	-43.21	-51.55	-51.76	-43.91	-43.95	-48.47	-49.38	-53.63	-54.25
2	-39.88	-41.17	-43.09	-43.17	-51.08	-51.82	-43.73	-44.30	-49.38	-50.26	-51.97	-53.63
3	-40.05	-40.64	-42.44	-43.09	-49.04	-51.08	-44.30	-46.09	-50.26	-51.06	-51.11	-51.97
4	-38.94	-40.27	-41.80	-42.44	-47.56	-49.04	-46.09	-46.99	-51.06	-51.48	-50.60	-51.11
5	-38.15	-38.94	-41.36	-41.80	-46.85	-47.56	-45.61	-46.76	-51.48	-51.89	-50.36	-51.05
6	-37.59	-38.15	-40.99	-41.36	-46.36	-46.85	-45.01	-45.61	-51.89	-52.29	-51.05	-52.84
7	-37.30	-37.59	-40.98	-41.11	-46.02	-46.36	-44.56	-45.01	-51.98	-52.49	-52.84	-53.63
8	-37.18	-37.30	---	---	-45.70	-46.02	-43.63	-44.56	-50.10	-51.98	-53.63	-54.15
9	-37.24	-37.53	---	---	-45.63	-45.70	-42.83	-43.63	-49.01	-50.10	-54.15	-54.46
10	-37.53	-38.11	-41.34	-41.37	-45.62	-45.65	-42.17	-42.83	-48.24	-49.01	-53.14	-54.47
11	-38.11	-38.90	-41.33	-41.37	-45.60	-45.68	-41.47	-42.17	-47.75	-48.24	-51.91	-53.14
12	-38.90	-39.05	-41.37	-41.57	-45.49	-45.60	-41.18	-41.63	-47.25	-47.75	-51.02	-51.91
13	-39.05	-39.38	-41.57	-42.40	-45.48	-46.00	-41.63	-43.08	-47.17	-48.08	-50.35	-51.02
14	-39.38	-40.77	-42.40	-44.27	-46.00	-47.18	-43.02	-43.49	-48.08	-49.70	-50.14	-50.35
15	-40.77	-41.73	-44.27	-45.46	-47.18	-47.58	-41.90	-43.02	-49.70	-50.70	-50.03	-50.14
16	-40.91	-41.53	-45.46	-46.32	-47.58	-47.88	-41.88	-42.02	-50.70	-51.04	-49.83	-50.03
17	-40.81	-40.91	-46.32	-46.97	-47.88	-47.97	-42.02	-42.38	-51.04	-51.27	-49.38	-49.83
18	-40.81	-40.89	-46.97	-47.29	-47.97	-48.08	-42.38	-42.77	-51.27	-51.50	-48.59	-49.38
19	-40.87	-41.01	-47.26	-47.30	-48.08	-48.20	-42.77	-43.09	-51.50	-51.84	-47.83	-48.59
20	-41.01	-41.31	-47.03	-47.26	-48.20	-48.69	-43.09	-43.31	-51.84	-52.14	-47.54	-48.25
21	-41.31	-41.43	-46.96	-47.03	-47.18	-48.64	-43.31	-43.50	-52.14	-52.47	-48.25	-49.50
22	-41.43	-41.62	-46.98	-47.51	-46.53	-47.18	-43.42	-43.82	-52.47	-52.97	-49.50	-50.26
23	-41.62	-41.92	-47.51	-48.19	-45.81	-46.53	-43.82	-45.29	-52.97	-53.24	-50.26	-50.67
24	-41.92	-42.26	-48.19	-48.89	-45.36	-45.81	-45.29	-46.00	-53.24	-53.27	-48.92	-50.76
25	-42.26	-42.58	-48.89	-49.37	-45.04	-45.36	-45.67	-46.25	-52.52	-53.36	-47.86	-49.92
26	-42.58	-42.70	-49.37	-49.99	-44.85	-45.04	-44.56	-45.67	-52.50	-52.87	-46.62	-47.86
27	-42.70	-42.78	-49.99	-50.49	-44.62	-44.85	-44.30	-45.08	-52.87	-53.27	-45.90	-46.62
28	-42.78	-42.91	-50.49	-50.90	-44.32	-44.62	-45.08	-46.40	-53.27	-53.65	-45.22	-45.90
29	-42.91	-43.03	-50.90	-50.98	-43.96	-44.32	-45.86	-46.51	-53.65	-53.95	-44.68	-45.22
30	-43.03	-43.16	-50.98	-51.20	-43.88	-43.96	-46.51	-47.57	-53.95	-54.06	-44.27	-44.68
31	---	---	-51.20	-51.55	---	---	-47.57	-48.47	-54.06	-54.21	---	---
MONTH	-37.18	-43.16	-40.98	-51.55	-43.88	-51.82	-41.18	-48.47	-47.17	-54.21	-44.27	-54.47
YEAR	-35.58	-54.47										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

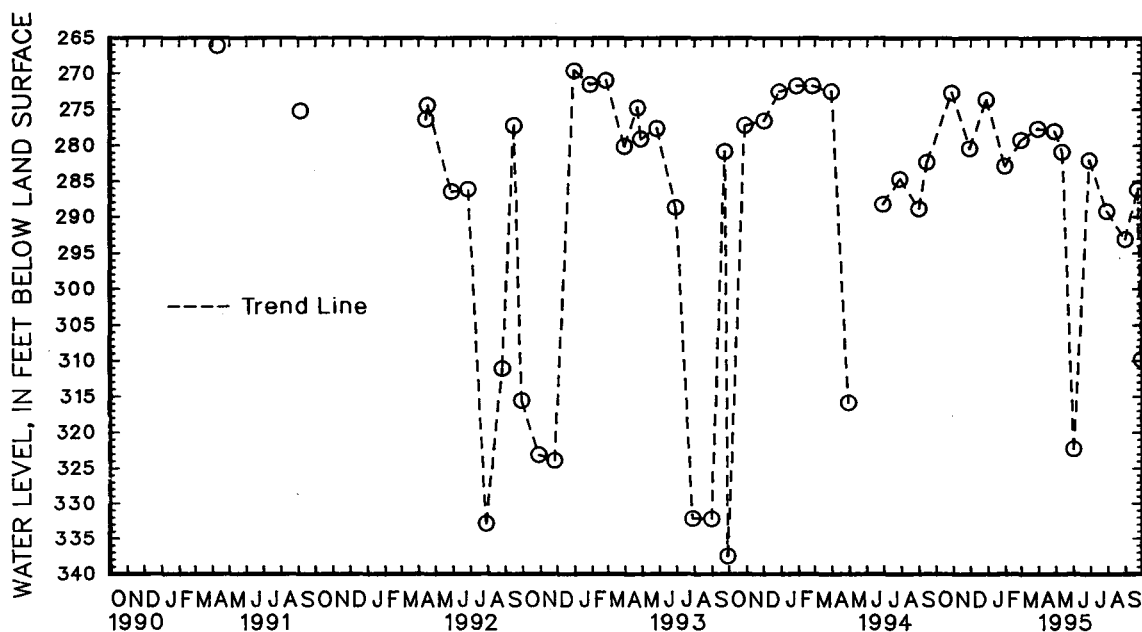
GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 133. SITE ID.--383640076545901. PERMIT NUMBER.--CH-70-0069.
LOCATION.--Lat 38°36'40", long 76°54'58", 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 77 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 0.82 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.
PERIOD OF RECORD.--April 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 211.68 ft below land surface, April 26, 1974;
lowest measured, 337.54 ft below land surface, Sept. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	272.69	JAN 30	283.06	APR 27	278.18	JUN 28	282.09	SEP 21	280.26
NOV 29	280.54	FEB 27	279.36	MAY 11	281.08	JUL 28	289.34	28	310.22
DEC 28	273.75	MAR 29	277.83	31	322.56	AUG 30	293.33		

WATER YEAR 1995 HIGHEST 272.69 OCT 28, 1994 LOWEST 322.56 MAY 31, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 202.09 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 1.51 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by nearby pumping.
PERIOD OF RECORD.--April 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 188.87 ft below land surface, April 26, 1974; lowest measured, 285.59 ft below land surface, Aug. 30, 1995.

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 28	275.78	JAN 30	249.19	APR 27	278.42	JUL 28	279.26	SEP 28	251.84		
NOV 29	276.01	FEB 27	274.09	MAY 31	278.63	AUG 30	285.59				
DEC 28	268.54	MAR 29	244.15	JUN 28	279.39	SEP 21	259.79				
WATER YEAR 1995		HIGHEST	244.15	MAR 29, 1995		LOWEST	285.59	AUG 30, 1995			

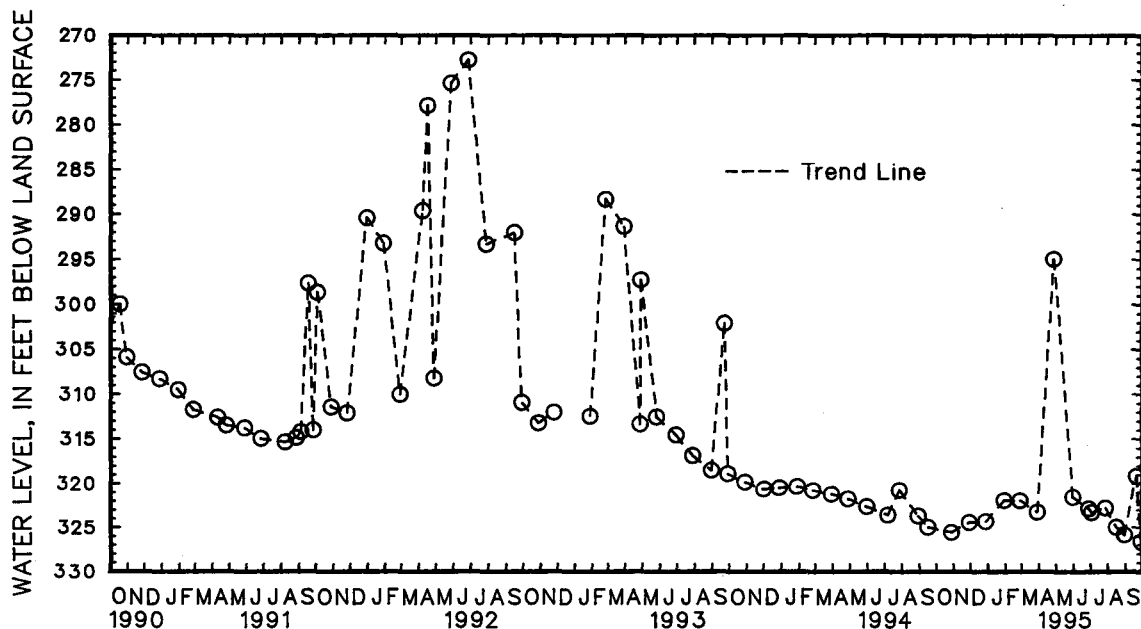


GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

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: U.S. Geological Survey.
AQUIFER.--La Plata aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217LPLT.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 192.8 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 2.10 ft above land surface.
REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.
PERIOD OF RECORD.--April 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 195.70 ft below land surface, April 4, 1985; lowest measured, 326.64 ft below land surface, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	325.65	JAN 30	321.98	APR 27	294.95	JUL 3	323.41	AUG 30	325.91
NOV 29	324.46	FEB 27	322.00	MAY 31	321.70	28	322.89	SEP 20	319.19
DEC 28	324.38	MAR 29	323.33	JUN 28	323.00	AUG 16	325.06	28	326.64
WATER YEAR 1995		HIGHEST	294.95	APR 27, 1995		LOWEST	326.64	SEP 28, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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.--St. Charles aquifer of the Upper Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

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.--Measurements with chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.20 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.

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, 57.79 ft below sea level, Sept. 11, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(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	-47.88	-48.11	-45.70	-45.87	-44.52	-44.57	-43.42	-43.59	-44.71	-44.75	-43.41	-43.53
2	-47.81	-47.90	-45.78	-45.87	-44.34	-44.52	-43.36	-43.48	-44.67	-44.71	-43.28	-43.41
3	-47.74	-47.82	-45.81	-45.87	-44.30	-44.36	-43.33	-43.50	-44.52	-44.68	-43.14	-43.28
4	-47.68	-47.76	-45.75	-45.82	-44.23	-44.31	-43.23	-43.33	-44.19	-44.52	-43.03	-43.14
5	-47.65	-47.70	-45.67	-45.77	-44.07	-44.23	-43.17	-43.28	-44.22	-44.27	-42.90	-43.03
6	-47.62	-47.67	-45.49	-45.67	-44.14	-44.18	-42.82	-43.17	-44.24	-44.28	-42.90	-43.01
7	-47.55	-47.64	-45.52	-45.64	-44.08	-44.18	-42.70	-42.82	-44.21	-44.26	-43.01	-43.09
8	-47.43	-47.55	-45.26	-45.56	-44.17	-44.27	-42.78	-42.81	-44.20	-44.28	-42.88	-43.05
9	-47.29	-47.43	-45.12	-45.26	-44.19	-44.26	-42.76	-42.81	-44.23	-44.29	-42.88	-42.93
10	-47.29	-47.34	-45.11	-45.16	-44.07	-44.22	-42.81	-42.91	-44.08	-44.23	-42.91	-42.94
11	-47.34	-47.37	-45.12	-45.15	-44.04	-44.26	-42.88	-42.91	-43.96	-44.08	-42.83	-42.91
12	-47.25	-47.35	-45.06	-45.13	-44.26	-44.40	-42.77	-42.88	-43.97	-44.01	-42.78	-42.83
13	-47.06	-47.25	-44.98	-45.06	-44.34	-44.40	-42.71	-42.79	-43.89	-44.00	-42.71	-42.79
14	-46.89	-47.06	-44.95	-45.01	-44.26	-44.35	-42.62	-42.72	-43.81	-43.89	-42.64	-42.72
15	-46.87	-46.89	-44.97	-45.04	-44.22	-44.28	-42.47	-42.63	-43.59	-43.81	-42.53	-42.66
16	-46.81	-46.89	-45.04	-45.07	-44.06	-44.23	-42.52	-42.64	-43.58	-43.74	-42.47	-42.55
17	-46.82	-46.94	-45.02	-45.07	-43.87	-44.06	-42.64	-42.79	-43.74	-43.97	-42.43	-42.50
18	-46.94	-47.08	-44.92	-45.02	-43.74	-43.87	-42.79	-42.88	-43.97	-44.16	-42.44	-42.50
19	-47.08	-47.18	-44.94	-45.02	-43.76	-43.79	-42.79	-42.89	-44.16	-44.25	-42.39	-42.45
20	-46.95	-47.15	-45.02	-45.05	-43.75	-43.79	-42.59	-42.79	-44.25	-44.25	-42.26	-42.40
21	-46.78	-46.95	-44.91	-45.06	-43.66	-43.75	-42.65	-42.76	-44.25	-44.49	-42.20	-42.26
22	-46.63	-46.78	-44.94	-45.14	-43.50	-43.66	-42.76	-42.85	-44.49	-44.60	-42.22	-42.28
23	-46.44	-46.63	-45.11	-45.16	-43.29	-43.50	-42.85	-42.90	-44.30	-44.60	-42.23	-42.28
24	-46.41	-46.47	-45.12	-45.19	-43.21	-43.29	-42.90	-43.08	-44.23	-44.30	-42.24	-42.28
25	-46.39	-46.41	-45.06	-45.12	-43.28	-43.52	-43.08	-43.38	-44.04	-44.25	-42.24	-42.29
26	-46.34	-46.40	-45.03	-45.06	-43.52	-43.60	-43.38	-43.68	-43.95	-44.04	-42.20	-42.27
27	-46.25	-46.34	-44.76	-45.03	-43.54	-43.60	-43.68	-43.90	-43.70	-43.97	-42.10	-42.20
28	-46.13	-46.25	-44.50	-44.76	-43.47	-43.55	-43.90	-44.12	-43.52	-43.70	-42.08	-42.13
29	-46.04	-46.13	-44.55	-44.65	-43.53	-43.61	-44.12	-44.41	---	---	-42.11	-42.14
30	-46.00	-46.05	-44.55	-44.63	-43.60	-43.64	-44.41	-44.58	---	---	-42.05	-42.13
31	-45.87	-46.01	---	---	-43.59	-43.64	-44.58	-44.74	---	---	-42.01	-42.08
MONTH	-45.87	-48.11	-44.50	-45.87	-43.21	-44.57	-42.47	-44.74	-43.52	-44.75	-42.01	-43.53

GROUND-WATER LEVELS

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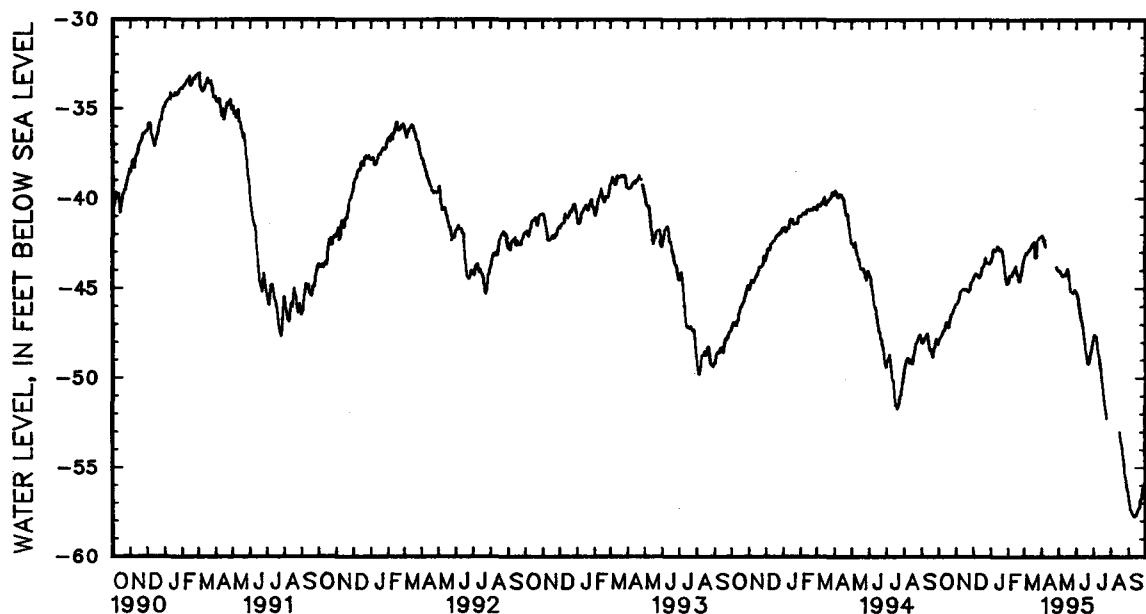
MARYLAND--Continued

CHARLES COUNTY--Continued

CH Bf 151--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-41.98	-42.04	-43.93	-44.00	-45.13	-45.20	-47.70	-47.87	---	---	-56.37	-56.60
2	-41.98	-42.04	-43.79	-43.99	-45.20	-45.24	-47.57	-47.70	---	---	-56.60	-56.82
3	-42.02	-42.09	-43.81	-43.99	-45.23	-45.28	-47.56	-47.57	---	---	-56.82	-57.04
4	-41.98	-42.17	-43.99	-44.07	-45.28	-45.39	-47.56	-47.65	---	---	-57.04	-57.30
5	-42.17	-42.35	-44.01	-44.06	-45.39	-45.53	-47.65	-47.66	---	---	-57.30	-57.40
6	-42.26	-42.36	-44.03	-44.14	-45.53	-45.83	-47.65	-47.67	---	---	-57.34	-57.40
7	-42.24	-42.30	-44.14	-44.20	-45.83	-46.03	-47.67	-47.88	---	---	-57.38	-57.50
8	-42.27	-42.53	-44.20	-44.29	-46.03	-46.28	-47.88	-48.19	---	---	-57.50	-57.62
9	-42.52	-42.66	-44.29	-44.33	-46.28	-46.49	-48.19	-48.45	---	---	-57.62	-57.64
10	---	---	-44.23	-44.32	-46.49	-46.68	-48.45	-48.67	---	---	-57.64	-57.75
11	---	---	-44.18	-44.23	-46.68	-46.85	-48.64	-48.81	---	---	-57.75	-57.79
12	---	---	-44.22	-44.25	-46.83	-46.95	-48.81	-49.01	---	---	-57.75	-57.78
13	---	---	-44.25	-44.28	-46.95	-47.16	-49.01	-49.19	---	---	-57.70	-57.75
14	---	---	-44.16	-44.28	-47.16	-47.50	-49.19	-49.43	---	---	-57.59	-57.70
15	---	---	-44.11	-44.16	-47.50	-47.82	-49.43	-49.82	---	---	-57.54	-57.59
16	---	---	-44.00	-44.11	-47.82	-48.08	-49.82	-50.12	---	---	-57.42	-57.54
17	---	---	-43.91	-44.00	-48.08	-48.44	-50.12	-50.34	-52.96	-53.02	-57.25	-57.42
18	---	---	-43.88	-43.91	-48.44	-48.58	-50.34	-50.68	-53.02	-53.29	-57.26	-57.35
19	---	---	-43.88	-44.05	-48.58	-48.72	-50.68	-51.00	-53.29	-53.59	-57.18	-57.34
20	---	---	-44.05	-44.36	-48.72	-48.93	-51.00	-51.28	-53.59	-53.73	-57.12	-57.22
21	---	---	-44.36	-44.72	-48.93	-49.10	-51.28	-51.59	-53.73	-53.90	-56.80	-57.19
22	---	---	-44.72	-44.99	-49.10	-49.23	-51.59	-51.80	-53.90	-54.26	-56.75	-56.80
23	---	---	-44.99	-45.17	-49.16	-49.23	-51.80	-52.01	-54.26	-54.51	-56.69	-56.79
24	---	---	-45.16	-45.19	-48.93	-49.16	-52.01	-52.25	-54.51	-54.77	-56.48	-56.69
25	---	---	-45.17	-45.19	-48.74	-48.93	---	---	-54.77	-55.24	-56.23	-56.48
26	---	---	-45.19	-45.24	-48.58	-48.74	---	---	-55.24	-55.43	-56.07	-56.23
27	---	---	-45.24	-45.27	-48.43	-48.58	---	---	-55.43	-55.59	-56.00	-56.07
28	-43.74	-43.81	-45.18	-45.26	-48.26	-48.43	---	---	-55.59	-55.80	-55.94	-56.00
29	-43.81	-43.91	-45.04	-45.18	-48.09	-48.26	---	---	-55.80	-55.96	-55.82	-55.85
30	-43.90	-43.93	-45.04	-45.07	-47.87	-48.09	---	---	-55.96	-56.21	-55.57	-55.82
31	---	---	-45.07	-45.13	---	---	---	---	-56.21	-56.37	---	---
MONTH	-41.98	-43.93	-43.79	-45.27	-45.13	-49.23	-47.56	-52.25	-52.96	-56.37	-55.57	-57.79
YEAR	-41.98	-57.79										

Daily Low Water Levels



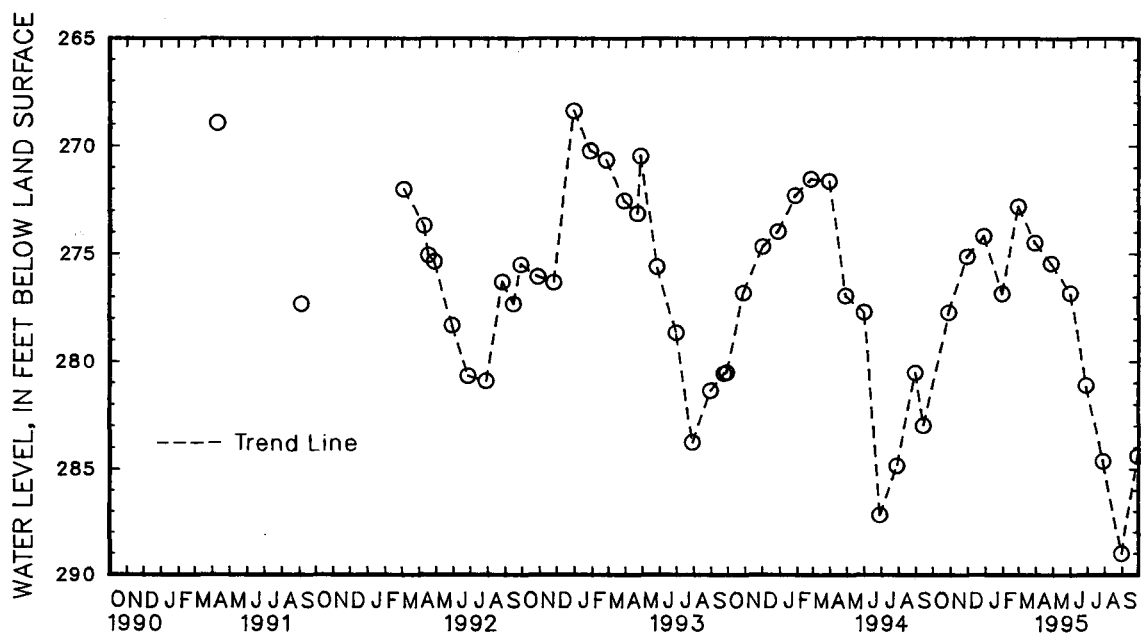
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 225.0 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 1.7 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well,
PERIOD OF RECORD.--November 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 262.27 ft below land surface, April 5, 1988; lowest measured, 289.02 ft below land surface, Aug. 30, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	277.72	DEC 28	274.19	FEB 27	272.82	APR 27	275.52	JUN 28	281.22	AUG 30	289.02
NOV 29	275.12	JAN 30	276.92	MAR 29	274.52	MAY 31	276.90	JUL 28	284.73	SEP 28	284.40
WATER YEAR 1995		HIGHEST 272.82 FEB 27, 1995		LOWEST 289.02 AUG 30, 1995							



GROUND-WATER LEVELS

MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 158. SITE ID.--383732076531902. PERMIT NUMBER.--CH-81-1847.
LOCATION.--Lat 38°37'32", long 76°53'19", Hydrologic Unit 02070011, at John Hansen Middle School
pumping station, Waldorf.

Owner: U.S. Geological Survey.

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 645 ft; casing diameter 6 in., to 398 ft; casing diameter 4 in. from 398 to 630 ft; screen diameter 4 in. from 630 to 645 ft.

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

DATUM.--Elevation of land surface is 193 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.0 ft above land surface.

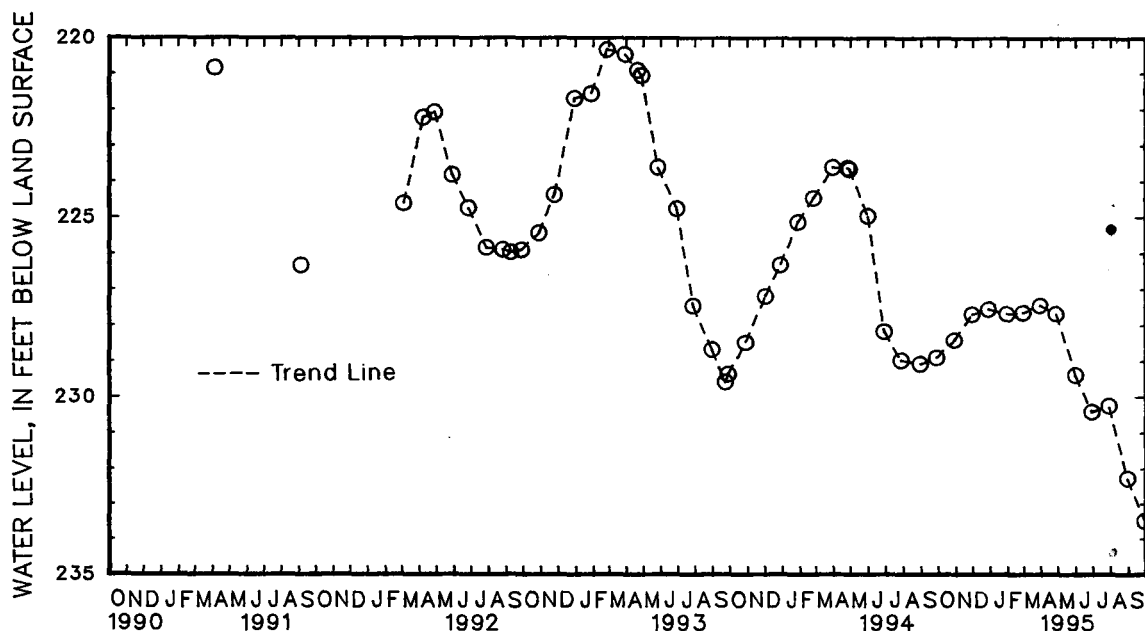
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 216.70 ft below land surface, April 10, 1987;
lowest measured, 233.51 ft below land surface, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	228.47	DEC 28	227.59	FEB 27	227.69	APR 27	227.72	JUN 28	230.48	AUG 30	232.33
NOV 29	227.73	JAN 30	227.72	MAR 29	227.48	MAY 31	229.46	JUL 28	230.31	SEP 28	233.51
WATER YEAR 1995		HIGHEST	227.48	MAR 29, 1995		LOWEST	233.51	SEP 28, 1995			



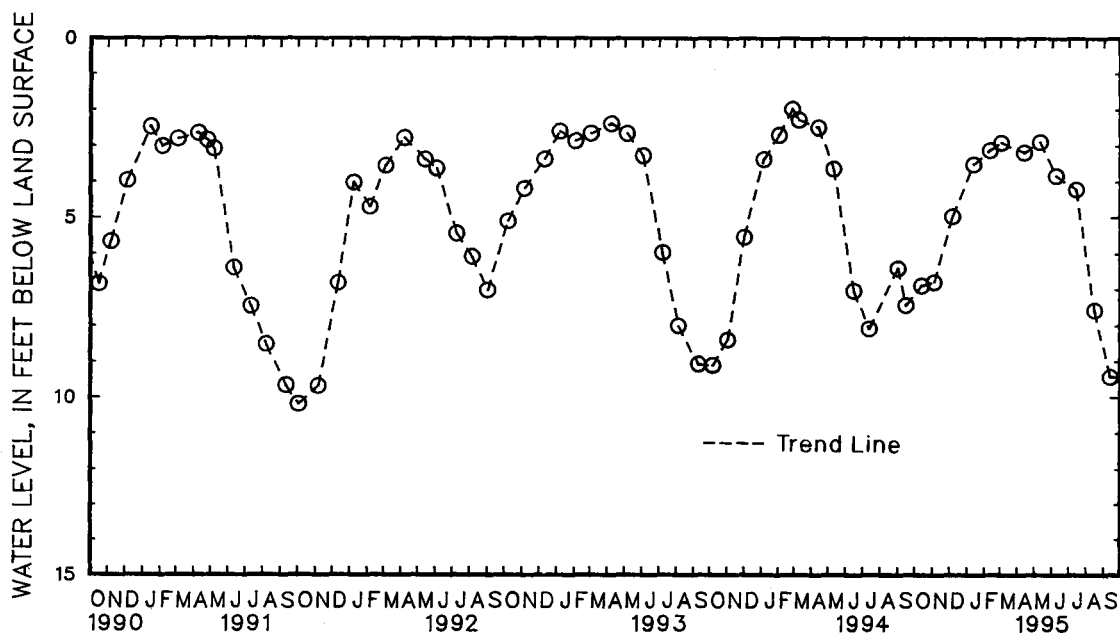
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Miocene age. Aquifer code: 122CLVR.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 24.5 ft; casing diameter 4 in., to 13.5 ft; perforated casing diameter 2 in. from 13.5 to 18.5 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 149.69 ft above National Geodetic Vertical Datum of 1929.
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, 1.99 ft below land surface, May 10, 1989 and Feb. 25, 1994; lowest measured, 10.26 ft below land surface, Oct. 2, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	6.93	DEC 6	4.98	FEB 10	3.13	APR 12	3.20	JUN 8	3.85
NOV 3	6.83	JAN 12	3.52	MAR 2	2.92	MAY 10	2.90	JUL 13	4.24
WATER YEAR 1995		HIGHEST	2.90	MAY 10, 1995	LOWEST	9.50	SEP 13, 1995		



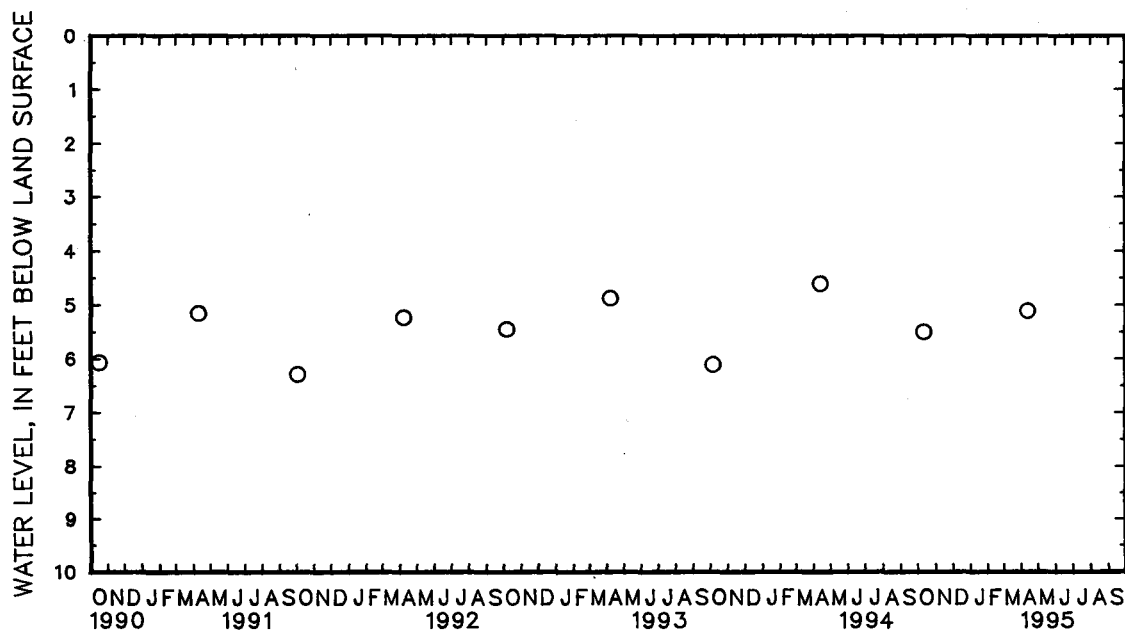
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH Bg 13. SITE ID.--383652076495701. PERMIT NUMBER.--CH-81-0601.
LOCATION.--Lat 38°36'52", long 76°49'57", Hydrologic Unit 02070011, southside of MD Rt. 382,
4.1 mi east of Waldorf at Zekiah Swamp.
Owner: U.S. Geological Survey.
AQUIFER.--Calvert Formation of Miocene age. Aquifer code: 122CLVR.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 22.6 ft; casing diameter 4 in.,
to 12.6 ft; casing diameter 2 in. from 17.6 to 22.6 ft; screen diameter 2 in. from 12.6 to 17.6.
INSTRUMENTATION.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 128.27 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 2.07 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, 3.64 ft below land surface, Dec. 13, 1984;
lowest measured, 7.53 ft below land surface, April 23, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	5.54	APR 12	5.14
WATER YEAR 1995		HIGHEST	5.14
		APR 12, 1995	LOWEST
		5.54	OCT 12, 1994



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

CHARLES COUNTY--Continued

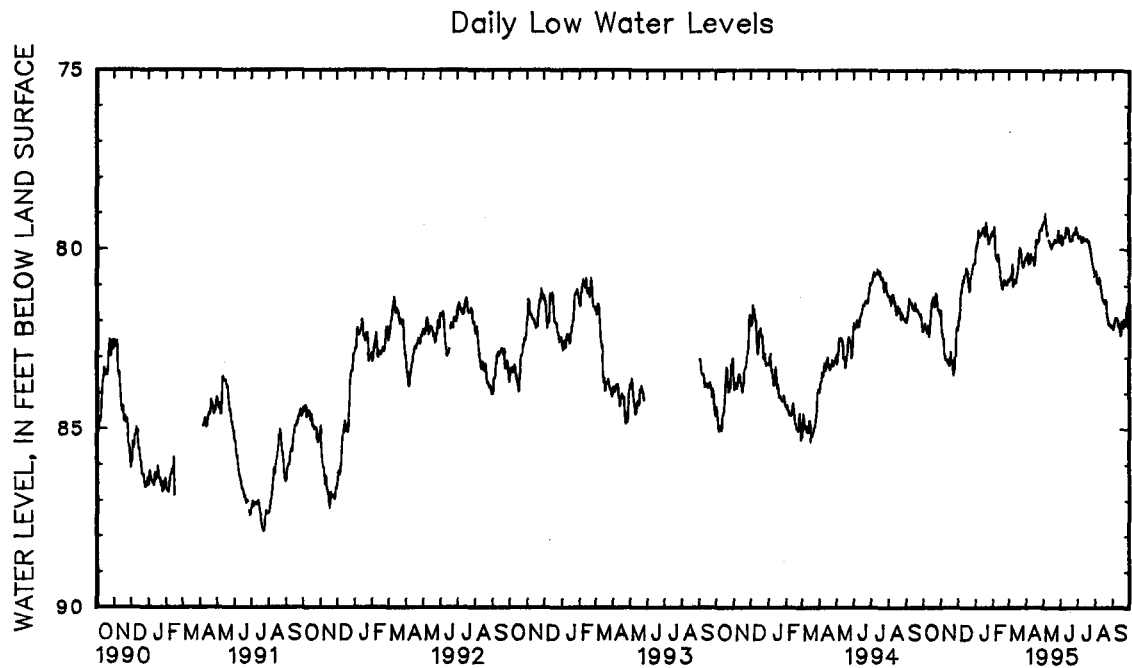
WELL NUMBER.--CH Cb 7. SITE ID.--383422077114601. PERMIT NUMBER.--CH-01-1908.
 LOCATION.--Lat 38°34'22", long 77°11'46", Hydrologic Unit 02070011, at Caffee and Greenslade Rds.,
 U.S. Naval Ordnance Station, about 2.5 mi southwest of Indian Head.
 Owner: U.S. Navy.
 AQUIFER.--Lower Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 167 ft; casing diameter 8 in., to 154 ft;
 screen diameter 6 in. from 154 to 167 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel 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 current year.
 DATUM.--Elevation of land surface is 36.0 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of recorder shelf, 1.1 ft above land surface.
 REMARKS.--Maryland Water-Level Network and Indian Head Project observation well.
 Water levels are affected by nearby pumping. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--March and April 1952, August 1953 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.35 ft below land surface, April 18, 1952;
 lowest measured, 89.33 ft below land surface, Aug. 12 and 14, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	82.27	82.03	81.72	81.54	82.25	82.10	80.12	79.79	79.50	79.39	80.84	80.66
2	82.14	82.04	82.16	81.66	82.14	81.85	79.92	79.77	79.60	79.46	80.90	80.79
3	82.13	81.87	82.32	82.16	81.90	81.77	79.95	79.77	79.56	79.35	80.88	80.78
4	82.06	81.91	82.45	82.32	81.94	81.78	79.81	79.64	79.38	79.10	80.80	80.72
5	82.16	82.03	82.49	82.38	81.78	81.35	79.80	79.64	79.85	79.38	80.84	80.67
6	82.23	82.11	82.50	82.40	81.38	81.11	79.64	79.28	80.23	79.85	80.70	80.47
7	82.31	82.16	82.92	82.48	81.17	81.01	79.46	79.26	80.23	80.11	80.52	80.39
8	82.31	82.05	82.95	82.84	81.19	81.01	79.65	79.46	80.27	80.05	80.42	80.23
9	82.12	82.03	82.98	82.83	81.04	80.84	79.64	79.48	80.32	80.13	80.97	80.33
10	82.36	82.03	83.08	82.91	80.86	80.66	79.62	79.51	80.13	79.98	81.04	80.89
11	82.42	82.30	83.06	82.90	80.87	80.63	79.60	79.48	80.15	80.06	80.89	80.70
12	82.30	82.09	83.06	82.97	80.90	80.70	79.54	79.41	80.44	80.14	80.85	80.73
13	82.09	81.88	83.10	82.99	80.71	80.56	79.50	79.41	80.58	80.44	80.88	80.79
14	81.88	81.71	83.16	83.07	80.69	80.51	79.51	79.36	80.76	80.58	80.93	80.81
15	81.71	81.43	83.14	83.03	80.52	80.36	79.40	79.07	80.83	80.72	80.93	80.71
16	81.44	81.21	83.21	83.12	80.53	80.44	79.39	79.11	80.81	80.71	80.76	80.54
17	81.47	81.32	83.22	82.85	80.60	80.49	79.57	79.39	81.01	80.79	80.58	80.38
18	81.50	81.28	82.85	82.71	80.60	80.51	79.63	79.47	81.08	81.00	80.47	80.23
19	81.33	81.23	83.04	82.78	80.76	80.56	79.50	79.22	81.11	80.95	80.25	79.98
20	81.40	81.25	83.14	83.04	80.90	80.76	79.22	79.04	81.02	80.79	80.04	79.90
21	81.59	81.39	83.13	82.82	81.04	80.81	79.43	79.07	80.86	80.70	79.96	79.81
22	81.60	81.30	83.11	82.83	81.17	81.02	79.58	79.43	80.98	80.86	80.00	79.85
23	81.32	81.12	83.37	83.11	81.12	80.81	79.59	79.49	80.86	80.54	80.14	79.96
24	81.23	81.13	83.49	83.37	80.82	80.67	79.73	79.47	80.96	80.62	80.34	80.10
25	81.26	81.14	83.38	83.09	80.70	80.52	79.83	79.73	80.98	80.87	80.46	80.28
26	81.50	81.26	83.09	82.93	80.54	80.44	79.74	79.66	80.95	80.83	80.50	80.39
27	81.69	81.48	82.93	82.34	80.53	80.36	79.73	79.60	80.99	80.85	80.50	80.37
28	81.69	81.61	82.34	81.99	80.39	80.25	79.65	79.50	80.87	80.60	80.40	80.26
29	81.69	81.57	82.19	82.07	80.40	80.28	79.83	79.50	---	---	80.34	80.21
30	81.79	81.65	82.22	82.09	80.40	80.28	79.56	79.42	---	---	80.29	80.15
31	81.84	81.65	---	---	80.37	80.06	79.54	79.41	---	---	80.23	80.12
MONTH	82.42	81.12	83.49	81.54	82.25	80.06	80.12	79.04	81.11	79.10	81.04	79.81

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued
CH Cb 7--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	80.28	80.16	79.29	79.12	79.76	79.65	79.53	79.44	80.66	80.54	82.14	81.99
2	80.25	80.08	79.22	78.96	79.68	79.51	79.61	79.50	80.61	80.52	82.23	82.09
3	80.16	79.99	79.21	79.00	79.60	79.50	79.69	79.60	80.69	80.53	82.17	82.04
4	80.11	79.86	79.19	78.99	79.66	79.57	79.66	79.57	80.71	80.58	82.06	81.88
5	80.41	80.11	78.99	78.82	79.86	79.65	79.65	79.58	80.91	80.64	81.97	81.80
6	80.34	80.12	79.24	78.91	79.65	79.53	79.63	79.55	80.93	80.82	81.92	81.77
7	80.39	80.18	79.35	79.21	79.67	79.47	79.65	79.58	80.95	80.82	81.94	81.76
8	80.37	80.08	79.57	79.29	79.67	79.48	79.80	79.61	80.89	80.69	81.92	81.78
9	80.12	80.01	79.60	79.52	79.65	79.52	79.80	79.71	80.79	80.62	81.92	81.78
10	80.26	80.07	79.54	79.35	79.65	79.36	79.79	79.64	80.85	80.71	81.97	81.80
11	80.24	80.13	---	---	79.40	79.26	79.67	79.58	81.00	80.79	82.14	81.97
12	80.27	80.15	79.76	79.60	79.39	79.21	79.75	79.67	81.11	80.94	82.10	82.01
13	80.24	80.07	79.83	79.69	79.52	79.39	79.75	79.66	81.27	81.07	82.16	82.01
14	80.40	80.22	79.88	79.71	79.45	79.31	79.74	79.58	81.38	81.23	82.28	82.08
15	80.45	80.37	79.87	79.71	79.41	79.29	79.71	79.58	81.42	81.26	82.39	82.21
16	80.40	80.06	79.97	79.87	79.57	79.41	79.74	79.65	81.41	81.29	82.34	82.01
17	80.12	79.91	79.95	79.76	79.66	79.51	79.71	79.56	81.48	81.31	82.01	81.86
18	79.94	79.69	79.87	79.74	79.72	79.59	79.71	79.54	81.51	81.43	82.17	81.98
19	79.74	79.62	79.84	79.70	79.77	79.65	79.78	79.65	81.49	81.35	82.19	82.08
20	79.83	79.68	79.83	79.75	79.75	79.63	79.79	79.72	81.40	81.25	82.13	81.93
21	79.83	79.71	79.76	79.68	79.75	79.66	79.78	79.68	81.45	81.30	81.96	81.86
22	79.78	79.65	79.72	79.60	79.74	79.52	79.89	79.73	81.80	81.43	81.97	81.87
23	79.78	79.68	79.73	79.59	79.60	79.52	79.97	79.81	81.91	81.79	82.11	81.93
24	79.71	79.44	79.78	79.65	79.57	79.42	80.08	79.88	81.98	81.84	82.12	81.78
25	79.50	79.39	79.78	79.69	79.53	79.41	80.20	80.02	82.11	81.98	81.84	81.59
26	79.48	79.33	79.78	79.71	79.57	79.46	80.29	80.17	82.10	81.90	81.63	81.43
27	79.48	79.34	79.75	79.57	79.57	79.45	80.40	80.28	82.07	81.91	81.57	81.43
28	79.42	79.27	79.58	79.44	79.47	79.27	80.47	80.30	82.15	82.04	81.60	81.43
29	79.44	79.30	79.46	79.33	79.38	79.22	80.52	80.42	82.12	82.00	81.60	81.44
30	79.32	79.09	79.71	79.35	79.49	79.38	80.61	80.44	82.15	82.00	81.50	81.35
31	---	---	79.80	79.71	---	---	80.76	80.60	82.17	82.02	---	---
MONTH	80.45	79.09	79.97	78.82	79.86	79.21	80.76	79.44	82.17	80.52	82.39	81.35
YEAR	83.49	78.82										



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Co 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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

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 chalked steel tape by U.S. 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 current year.

DATUM.--Elevation of land surface is 184.95 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 3.62 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--November 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.44 ft below sea level, Sept. 8, 1976; lowest measured, 116.45 ft below sea level, Sept. 29, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(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	-93.23	-109.39	-90.51	-106.64	-87.60	-90.58	-78.30	-78.71	-85.55	-104.90	-81.16	-82.33
2	-94.37	-110.00	-91.04	-107.26	-85.88	-87.60	-78.19	-78.30	-87.44	-106.06	-80.44	-81.16
3	-94.28	-110.43	-90.89	-107.61	-84.73	-85.88	-78.09	-87.43	-87.98	-106.61	-79.87	-80.44
4	-93.63	-110.38	-90.72	-107.60	-83.81	-84.73	-77.97	-94.93	-86.73	-106.61	-79.42	-79.87
5	-94.27	-110.90	-90.79	-107.78	-83.03	-83.81	-78.26	-78.98	-87.74	-106.92	-78.96	-79.42
6	-95.03	-111.13	-90.34	-107.38	-82.49	-83.03	-77.75	-78.26	-89.95	-107.17	-78.84	-99.17
7	-95.98	-111.50	-87.47	-106.38	-81.99	-82.49	-77.62	-77.75	-88.96	-107.74	-83.89	-101.70
8	-95.89	-111.54	-84.90	-88.33	-81.72	-82.00	-77.60	-77.62	-89.75	-107.86	-85.52	-102.78
9	-96.70	-111.65	-84.25	-102.86	-81.25	-81.72	-77.51	-77.60	-85.98	-107.94	-86.25	-103.69
10	-96.34	-111.97	-84.27	-102.53	-80.77	-81.25	-77.43	-77.51	-84.08	-104.27	-88.66	-104.66
11	-96.90	-111.97	-83.18	-85.13	-80.72	-82.98	-77.39	-100.07	-86.35	-106.34	-89.05	-105.12
12	-101.30	-112.17	-82.67	-103.97	-80.54	-95.56	-87.19	-103.53	-89.16	-107.03	-84.95	-105.36
13	-97.71	-112.43	-88.14	-106.98	-79.86	-80.54	-93.72	-105.67	-85.27	-104.11	-82.71	-84.95
14	-97.36	-112.25	-93.04	-108.76	-79.54	-79.86	-90.45	-106.55	-82.86	-85.27	-81.54	-82.71
15	-96.28	-112.19	-92.98	-109.61	-79.35	-83.47	-84.31	-106.78	-81.38	-82.86	-80.66	-81.54
16	-96.11	-112.34	-93.15	-110.02	-79.05	-79.35	-81.94	-84.31	-80.59	-81.38	-80.07	-80.66
17	-91.78	-111.37	-93.74	-110.48	-78.74	-79.05	-80.80	-81.99	-80.02	-80.59	-79.67	-80.07
18	-88.23	-100.48	-94.11	-110.71	-78.60	-100.38	-80.10	-84.34	-79.47	-80.02	-79.33	-79.67
19	-86.26	-98.55	-95.09	-111.36	-80.08	-84.17	-79.33	-80.10	-78.91	-79.47	-79.04	-79.33
20	-85.36	-97.36	-97.72	-111.90	-79.38	-80.08	-78.92	-96.81	-78.57	-98.21	-78.66	-79.04
21	-84.70	-99.05	-97.70	-112.05	-78.96	-79.38	-79.40	-98.80	-80.05	-100.53	-78.48	-84.05
22	-84.68	-98.28	-94.94	-112.25	-78.60	-82.42	-79.45	-81.35	-83.52	-102.03	-78.31	-78.48
23	-84.11	-98.11	-95.38	-112.34	-78.47	-95.73	-79.18	-97.73	-86.36	-103.11	-78.18	-78.31
24	-83.78	-104.12	-96.10	-112.40	-78.50	-79.26	-79.63	-96.61	-86.83	-103.87	-78.08	-78.18
25	-88.05	-105.38	-102.38	-112.06	-78.31	-78.50	-79.47	-101.15	-86.98	-104.09	-78.00	-78.08
26	-89.85	-106.11	-101.10	-112.16	-78.28	-101.16	-83.01	-101.82	-87.91	-104.69	-77.90	-78.00
27	-90.09	-107.00	-95.49	-112.40	-81.84	-102.77	-81.44	-99.62	-84.67	-104.83	-77.78	-77.90
28	-90.56	-107.15	-95.88	-112.89	-80.01	-81.84	-79.81	-81.87	-82.33	-84.67	-77.72	-77.78
29	-90.73	-107.52	-109.29	-113.11	-79.73	-94.60	-78.99	-79.81	---	---	-77.71	-85.67
30	-89.99	-107.53	-90.58	-110.42	-79.35	-80.32	-78.68	-101.24	---	---	-78.36	-79.76
31	-90.87	-106.71	---	---	-78.71	-79.35	-83.30	-103.54	---	---	-77.99	-78.36
MONTH	-83.78	-112.43	-82.67	-113.11	-78.28	-102.77	-77.39	-106.78	-78.57	-107.94	-77.71	-105.36

GROUND-WATER LEVELS

261

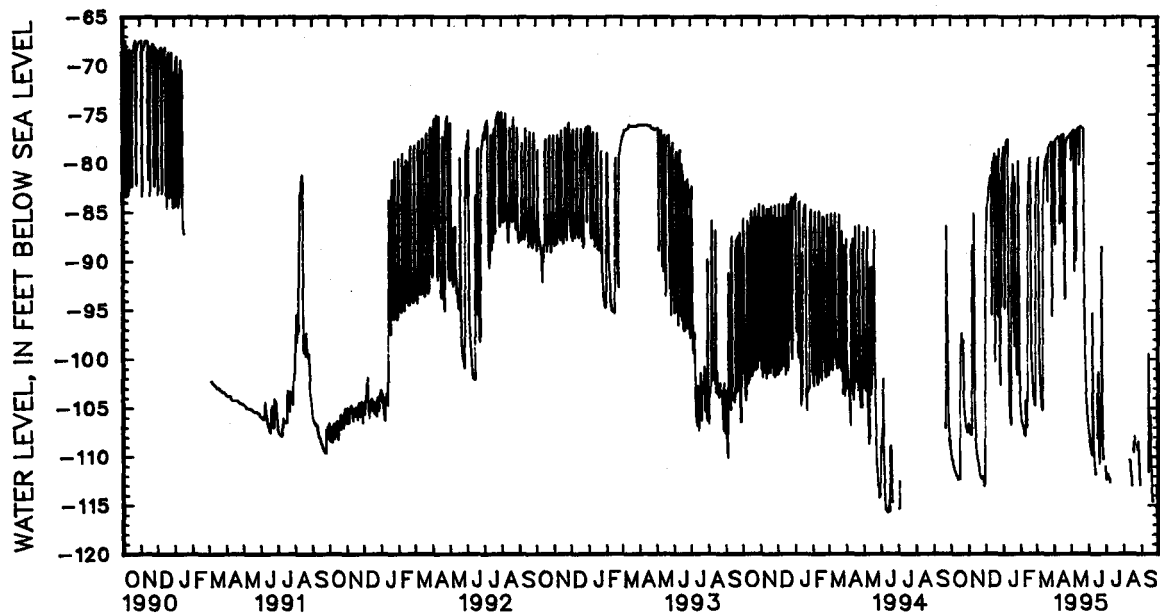
MARYLAND--Continued

CHARLES COUNTY--Continued

CH Ce 37--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-77.79	-77.99	-76.93	-76.96	-106.43	-107.15	-93.10	-112.26	---	---	---	---
2	-77.69	-77.79	-76.83	-76.80	-107.15	-107.73	-93.40	-112.46	---	---	---	---
3	-77.67	-88.37	-76.80	-76.88	-107.73	-108.25	-93.73	-112.04	---	---	---	---
4	-77.47	-77.69	-76.68	-76.80	-108.25	-108.82	-93.57	-111.81	---	---	---	---
5	-77.47	-77.47	-76.58	-76.68	-108.82	-109.24	-92.81	-112.04	---	---	---	---
6	-77.37	-77.47	-76.55	-76.58	-109.24	-109.53	-93.02	-112.35	---	---	---	---
7	-77.33	-77.37	-76.48	-76.55	-95.24	-109.84	-92.94	-112.31	---	---	---	---
8	-77.22	-77.33	-76.48	-91.08	-88.06	-95.24	-93.02	-112.68	---	---	---	---
9	-77.19	-77.22	-76.68	-77.25	-88.97	-106.67	---	---	---	---	---	---
10	-77.19	-77.34	-76.42	-76.68	-106.67	-109.40	---	---	---	---	---	---
11	-77.34	-77.39	-76.38	-90.00	-109.40	-110.60	---	---	-90.85	-110.37	---	---
12	-77.31	-86.27	-76.62	-76.99	-110.59	-111.38	---	---	-92.89	-110.45	---	---
13	-77.15	-77.31	-76.52	-76.62	-100.32	-111.82	---	---	-92.97	-111.53	-93.94	-111.56
14	-77.10	-77.15	-76.38	-76.52	---	---	---	---	-93.52	-112.05	-91.66	-99.45
15	-77.04	-77.10	-76.36	-76.38	---	---	---	---	-95.08	-113.05	-90.66	-111.10
16	-77.00	-77.04	-76.30	-76.36	-89.99	-108.13	---	---	---	---	-92.01	-109.78
17	-77.00	-86.09	-76.28	-80.28	-88.04	-104.51	---	---	---	---	-89.70	-105.75
18	-76.98	-77.09	-76.18	-76.30	-86.60	-101.33	---	---	-91.14	-109.25	-89.83	-110.87
19	-76.91	-76.98	-76.12	-76.19	-86.12	-107.09	---	---	-90.79	-109.55	-93.70	-113.05
20	-76.91	-93.50	-76.18	-76.23	-90.71	-110.76	---	---	-89.63	-107.94	-95.64	-114.08
21	-77.86	-93.87	-76.23	-76.27	-89.08	-109.00	---	---	-90.26	-108.59	-96.18	-114.64
22	-77.89	-78.60	-76.27	-76.36	-88.33	-108.73	---	---	-90.64	-108.77	---	---
23	-77.59	-77.89	-76.36	-76.41	-87.96	-107.94	---	---	-90.74	-108.79	---	---
24	-77.40	-77.59	-76.37	-76.40	-85.90	-88.55	---	---	-90.63	-108.80	-95.86	-114.91
25	-77.38	-77.40	-76.38	-93.49	-85.45	-106.05	---	---	-90.93	-109.16	---	---
26	-77.33	-77.38	-77.52	-97.97	-86.32	-109.22	---	---	-90.59	-109.32	---	---
27	-77.17	-77.33	-97.97	-101.40	-93.68	-110.24	---	---	-89.85	-108.46	-97.07	-115.04
28	-77.14	-77.17	-101.40	-103.22	---	---	---	---	-90.65	-110.73	-114.66	-116.31
29	-77.09	-77.14	-103.22	-104.37	---	---	---	---	-95.01	-112.95	-99.16	-116.45
30	-76.96	-77.09	-104.37	-105.52	-91.27	-111.05	---	---	---	---	-97.67	-116.35
31	---	---	-105.52	-106.43	---	---	---	---	---	---	---	---
MONTH	-76.91	-93.87	-76.12	-106.43	-85.45	-111.82	-92.81	-112.68	-89.63	-113.05	-89.70	-116.45
YEAR	-76.12	-116.45										

Daily Low Water Levels



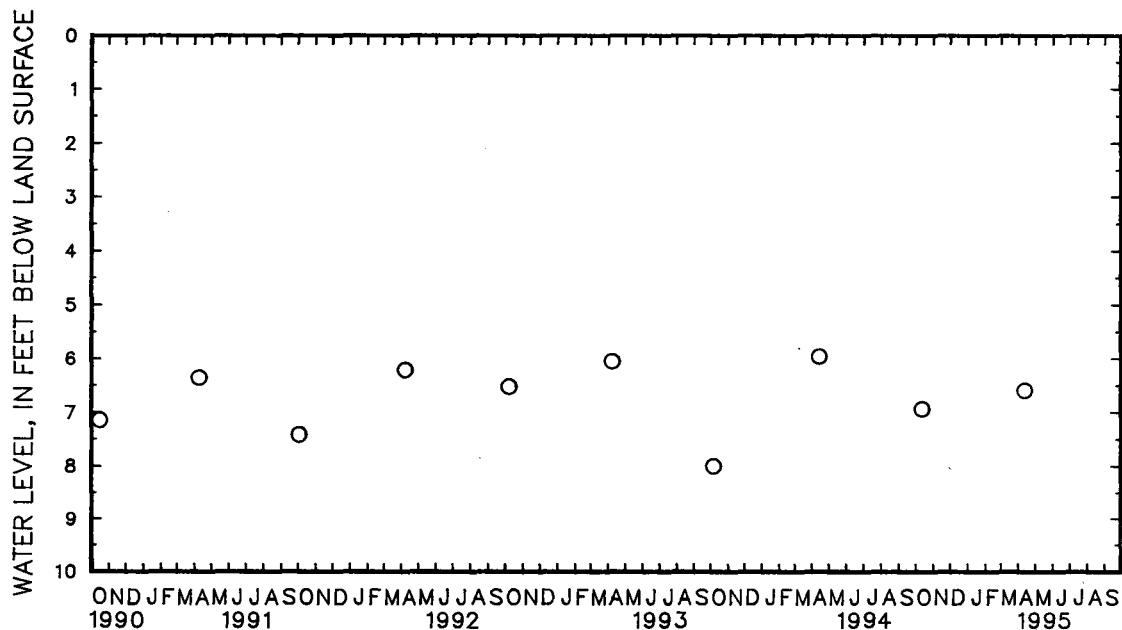
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH Cf 33. SITE ID.--383340076511601. PERMIT NUMBER.--CH-81-0602.
LOCATION.--Lat 38°33'40", long 76°51'16", Hydrologic Unit 02070011, north side of MD Rt. 5,
5.5 mi southeast of Waldorf at Zekiah Swamp.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age. Aquifer code: 110ALVM.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 22.2 ft; casing diameter 4 in.,
to 14.7 ft; casing diameter 2 in. from 19.7 to 22.2 ft; screen diameter 2 in. from 14.7 to 19.7 ft.
INSTRUMENTATION.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 89.88 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 2.51 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, 5.00 ft below land surface, Dec. 29, 1983;
lowest measured, 8.13 ft below land surface, April 23, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	6.97	APR 12	8.62
WATER YEAR 1995 HIGHEST 6.62 APR 12, 1995 LOWEST 6.97 OCT 12, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Dd 33. SITE ID.--382607077002601. PERMIT NUMBER.--CH-02-6769.

LOCATION.--Lat 38°26'07", long 77°00'26", Hydrologic Unit 02070011, 1.8 mi southwest of Faulkner off Popes Creek Rd.

Owner: Jesuit Order (Loyola Retreat House).

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

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 personnel.

DATUM.--Elevation of land surface is 99.8 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.0 ft above land surface.

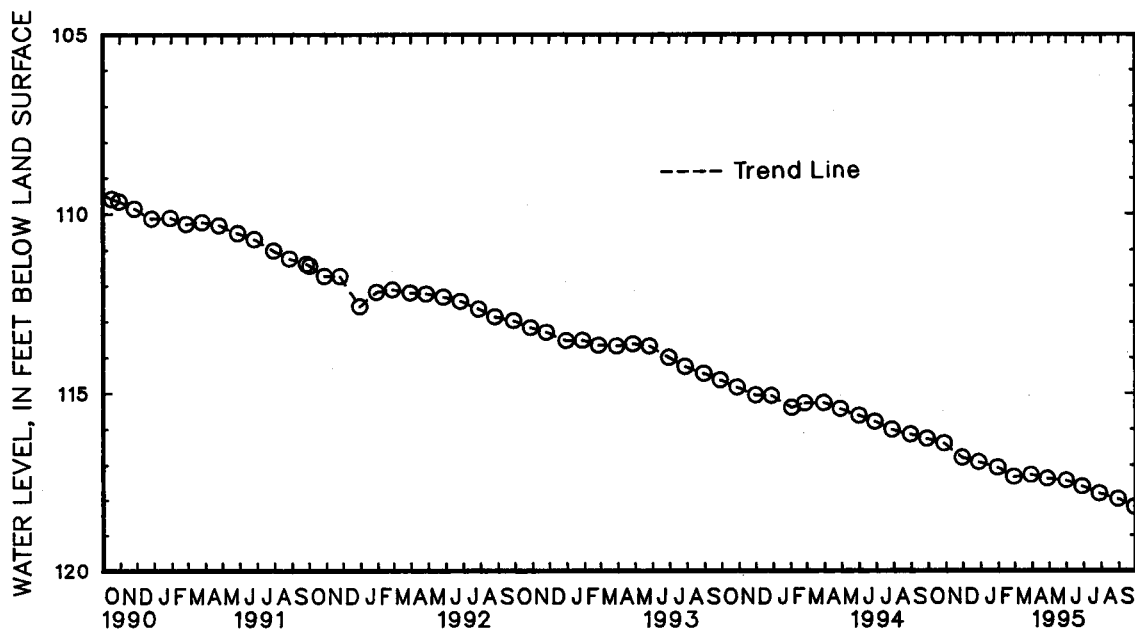
REMARKS.--Maryland Water-Level Network observation well. Water level reported 104 ft below land surface, June 27, 1957. Water levels maybe affected by nearby pumping.

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, 118.22 ft below land surface, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	116.45	DEC 28	116.97	FEB 27	117.38	APR 27	117.43	JUN 28	117.65	AUG 30	118.00
NOV 29	116.85	JAN 30	117.12	MAR 29	117.32	MAY 31	117.48	JUL 28	117.85	SEP 28	118.22
WATER YEAR 1995		HIGHEST	116.45	OCT 28, 1994	LOWEST	118.22	SEP 28, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

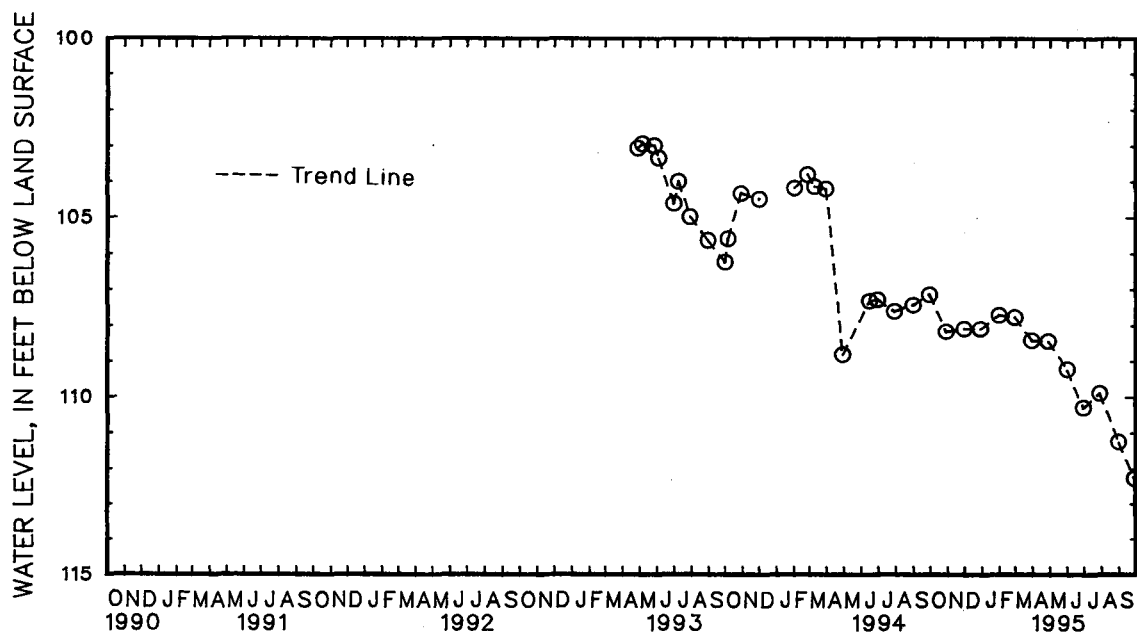
MARYLAND--Continued

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: Darrell DeHanas.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 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 with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 60 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 1.0 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--April 1993 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.97 ft below land surface, May 5, 1993; lowest measured, 112.32 ft below land surface, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	108.22	DEC 28	108.14	FEB 27	107.81	APR 27	108.50	JUN 28	110.35
NOV 29	108.14	JAN 30	107.75	MAR 29	108.48	MAY 31	109.29	JUL 28	109.94
WATER YEAR 1995		HIGHEST	107.75	JAN 30, 1995	LOWEST	112.32	SEP 28, 1995		



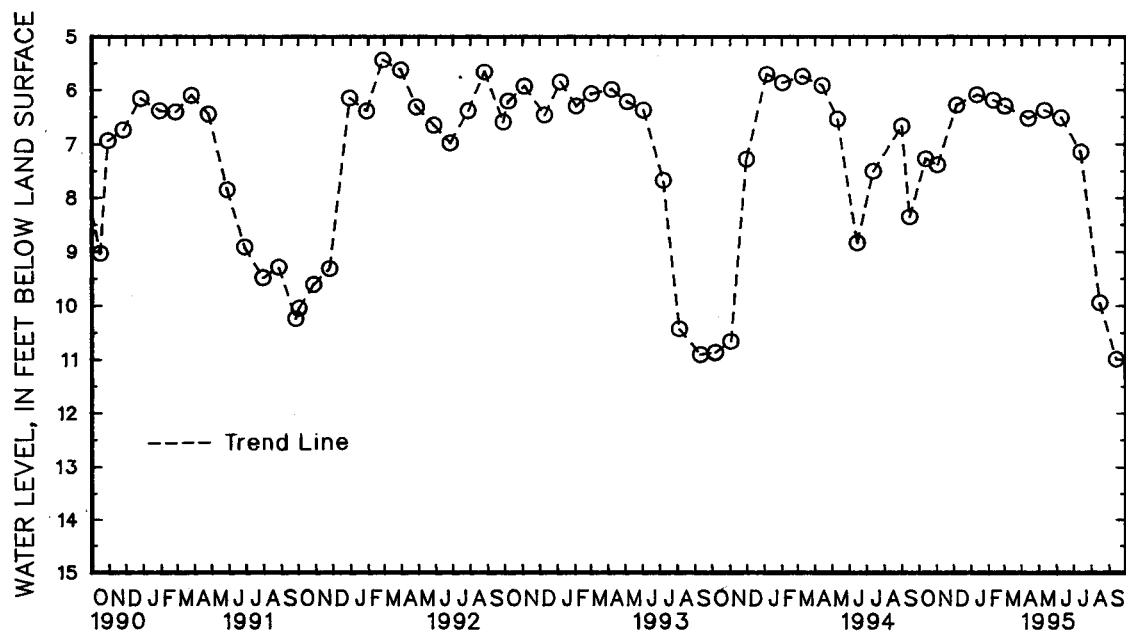
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH De 45. SITE ID.--382927076552301. PERMIT NUMBER.--CH-81-0804.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 44.77 ft above National Geodetic Vertical Datum of 1929.
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;
lowest measured, 11.04 ft below land surface, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	7.28	DEC 6	6.28	FEB 9	6.19	APR 12	6.53	JUN 8	6.52	AUG 15	9.98
NOV 2	7.39	JAN 11	6.09	MAR 2	6.30	MAY 10	6.38	JUL 13	7.16	SEP 13	11.04
WATER YEAR 1995		HIGHEST	6.09	JAN 11, 1995	LOWEST	11.04	SEP 13, 1995				



GROUND-WATER LEVELS

MARYLAND--Continued

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.--Park Hall 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929, 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.

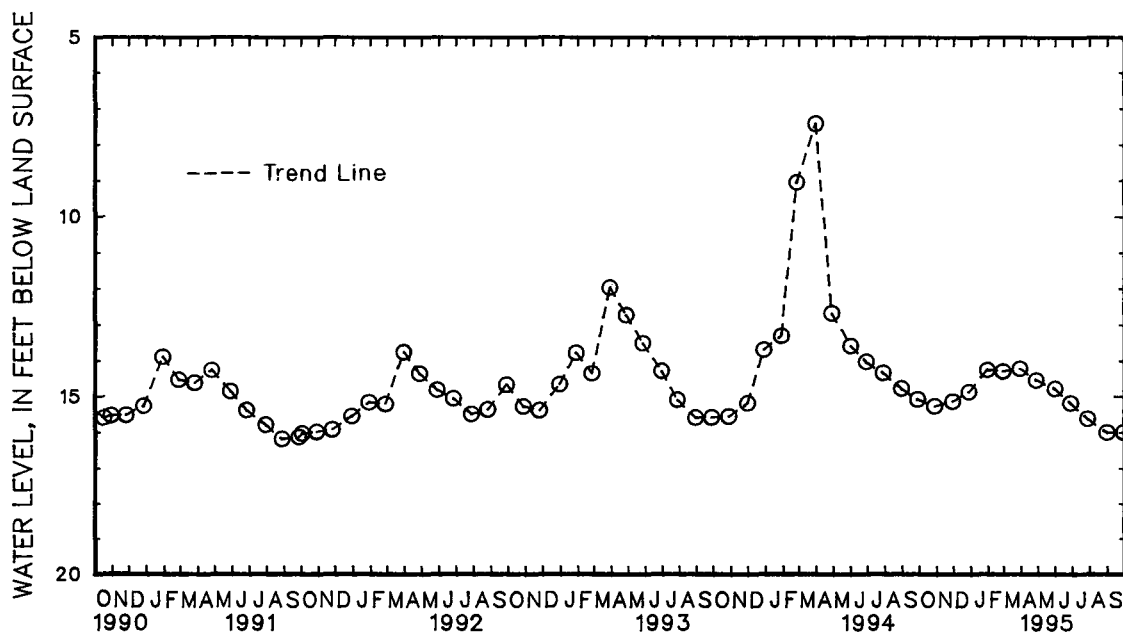
PERIOD OF RECORD.--May 1946, January 1947 to November 1947, March 1948 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 28	15.33	DEC 28	14.92	FEB 27	14.33	APR 27	14.59	JUN 28	15.24	AUG 30	16.06
NOV 29	15.19	JAN 30	14.29	MAR 29	14.25	MAY 31	14.83	JUL 28	15.68	SEP 28	16.05
WATER YEAR 1995		HIGHEST	14.25	MAR 29, 1995		LOWEST	16.06	AUG 30, 1995			



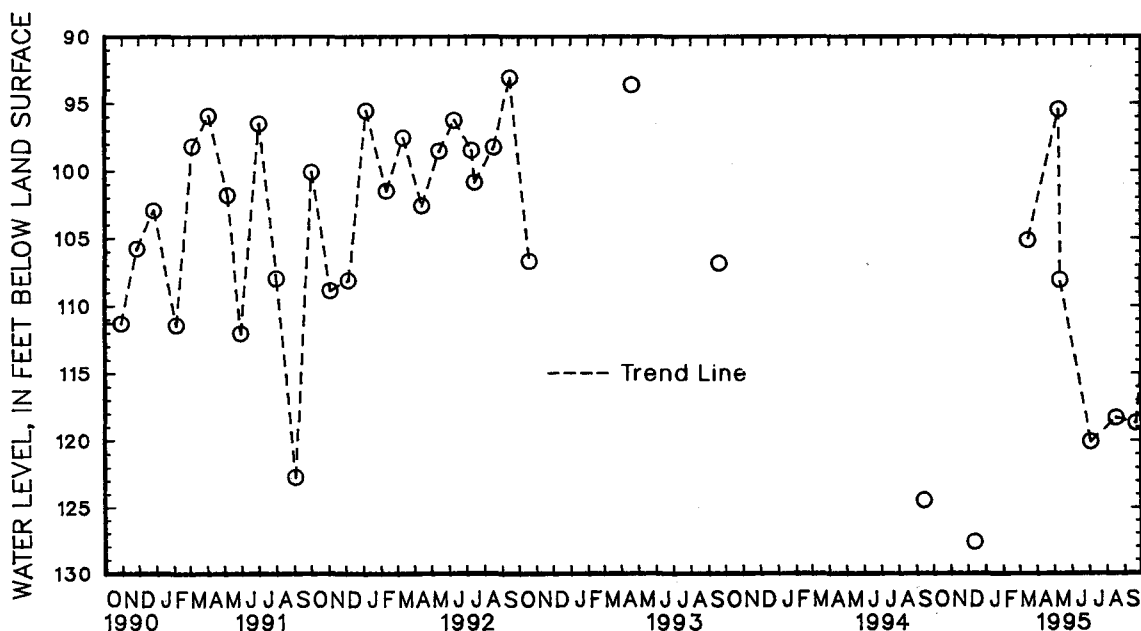
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 70. SITE ID.--382154076574801. PERMIT NUMBER.--CH-67-0081.
LOCATION.--Lat 38°21'54", long 76°57'48", Hydrologic Unit 02070011, at the Morgantown Power Plant,
1.5 mi. north of Morgantown.
Owner: Potomac Edison Power Co.
AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PFSC.
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,132 ft; casing diameter 2 in.,
to 1,090 ft, 1,100 to 1,105 ft, and 1,115 to 1,132 ft; screen diameter 2 in. from 1,090 to 1,100 ft,
and 1,105 to 1,115 ft.
INSTRUMENTATION.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel.
Equipped with graphic water-level recorder from May 12, 1982 to Jan. 6, 1983. Equipped with digital
water-level recorder--15 and 30-minute recorder intervals from June 1, 1978 to October 1986.
Equipped with electronic water level recorder (transducer)--15-minute recorder interval from
October 1986 to October 1992.
DATUM.--Elevation of land surface is 22.83 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 3.43 ft above land surface.
REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.
PERIOD OF RECORD.--October 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.57 ft below land surface, April 14, 1981;
lowest measured, 127.67 ft below sea level, Dec. 12, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	127.67	MAY 9	95.44	JUL 3	120.21	SEP 20	118.79
MAR 15	105.13	11	108.22	AUG 16	118.41		
WATER YEAR 1995		HIGHEST	95.44	MAY 9, 1995	LOWEST	127.67	DEC 12, 1994



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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: Clifton on the Potomac Development.
 AQUIFER.--Lower Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, used, artesian well, depth 1,220 ft; casing diameter 6.6 in., to 1,220 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929, from topographic map.
 Measuring Point: Top of recorder platform, 2.3 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels affected by nearby pumping.
 Missing data due to recorder malfunction.
 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, 9.219 ft below sea level, Feb. 6, 1995.

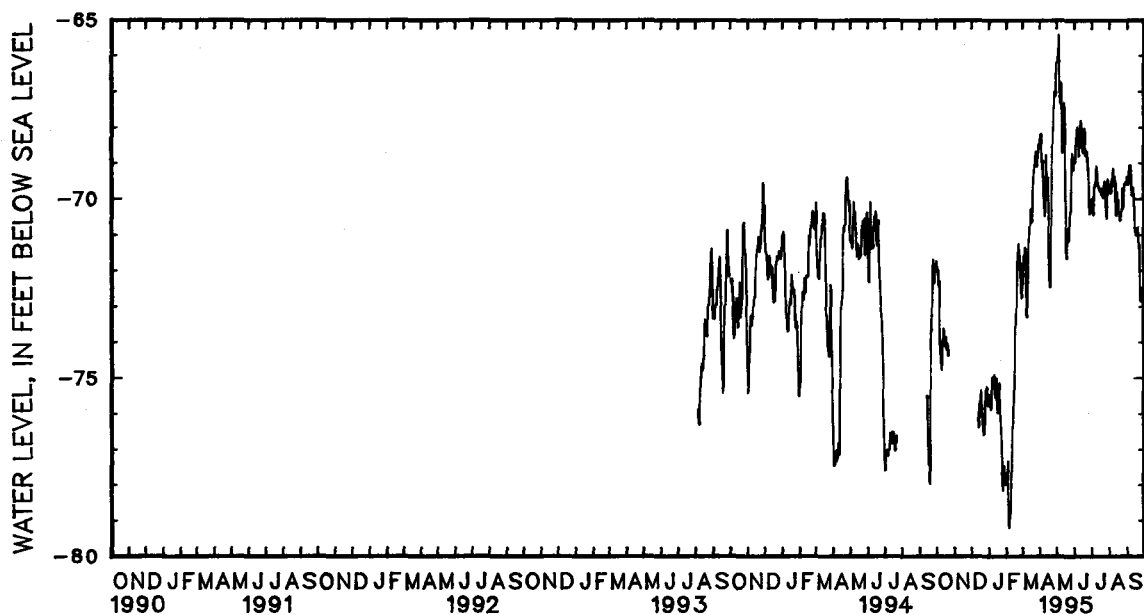
WATER LEVEL, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-71.30	-71.73	---	---	---	---	-75.22	-75.69	-77.59	-77.87	-72.01	-72.36
2	-71.26	-71.93	---	---	---	---	-75.14	-75.49	-77.54	-77.87	-71.88	-72.36
3	-71.83	-71.96	---	---	---	---	-75.49	-75.68	-77.34	-77.63	-71.31	-71.88
4	-71.68	-72.07	---	---	---	---	-75.32	-75.73	-76.39	-77.34	-71.34	-71.58
5	-72.07	-72.41	---	---	---	---	-75.52	-75.89	-77.00	-79.07	-71.35	-71.73
6	-71.88	-72.29	---	---	---	---	-74.77	-75.82	-78.94	-79.21	-70.93	-71.35
7	-72.17	-73.89	---	---	---	---	-74.66	-75.00	-78.13	-78.94	-71.03	-71.39
8	-73.89	-74.31	---	---	---	---	-74.92	-75.30	-78.00	-78.47	-71.39	-72.69
9	-74.24	-74.57	---	---	---	---	-74.61	-74.97	-78.01	-78.80	-72.69	-73.26
10	-74.38	-74.79	---	---	---	---	-74.48	-75.01	-76.95	-78.01	-72.15	-73.30
11	-74.10	-74.38	---	---	---	---	-74.48	-74.92	-76.33	-76.95	-71.54	-72.19
12	-73.72	-74.10	---	---	---	---	-74.92	-75.29	-76.15	-76.41	-70.94	-71.54
13	-73.62	-73.93	---	---	-75.85	-76.15	-75.09	-75.53	-75.82	-76.28	-70.55	-71.18
14	-73.54	-73.62	---	---	-75.88	-76.38	-74.87	-75.53	-75.49	-75.82	-70.67	-70.99
15	-73.53	-74.09	---	---	-75.58	-75.88	-74.75	-75.02	-74.41	-75.57	-69.97	-70.67
16	-73.79	-74.10	---	---	-75.56	-75.68	-75.02	-75.51	-73.29	-74.43	-69.99	-70.28
17	-73.41	-74.09	---	---	-75.57	-75.70	-75.51	-75.98	-73.06	-73.58	-70.19	-70.64
18	-73.11	-73.87	---	---	-75.25	-75.70	-75.73	-75.98	-72.96	-73.52	-70.10	-70.64
19	-73.87	-74.20	---	---	-75.11	-75.35	-74.98	-75.73	-71.93	-73.00	-69.59	-70.23
20	-73.66	-74.06	---	---	-75.21	-75.85	-74.43	-75.14	-71.35	-71.93	-69.10	-69.70
21	-73.87	-74.22	---	---	-75.83	-76.24	-75.14	-75.86	-71.14	-71.50	-69.25	-69.44
22	-73.96	-74.37	---	---	-76.13	-76.44	-75.84	-76.16	-71.12	-71.52	-68.71	-69.26
23	---	---	---	---	-76.44	-76.58	-76.16	-76.44	-70.75	-71.25	-68.62	-69.13
24	---	---	---	---	-76.30	-76.58	-76.44	-77.18	-70.75	-71.59	-68.68	-69.01
25	---	---	---	---	-75.60	-76.30	-77.18	-77.94	-71.59	-71.97	-68.59	-68.83
26	---	---	---	---	-75.57	-75.75	-77.48	-78.16	-71.32	-71.79	-68.34	-68.67
27	---	---	---	---	-75.13	-75.57	-77.02	-77.52	-71.77	-72.77	-68.35	-68.97
28	---	---	---	---	-74.93	-75.26	-77.02	-77.47	-72.07	-72.74	-68.72	-69.09
29	---	---	---	---	-74.99	-75.30	-77.46	-77.79	---	---	-68.59	-68.84
30	---	---	---	---	-75.16	-75.51	-77.53	-77.81	---	---	-68.45	-68.72
31	---	---	---	---	-75.51	-75.79	-77.81	-78.01	---	---	-68.14	-68.45
MONTH	-71.26	-74.79	---	---	-74.93	-76.58	-74.43	-78.16	-70.75	-79.21	-68.14	-73.30

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued
CH Ee 78--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-67.94	-68.43	-65.68	-66.19	-68.77	-68.93	-69.94	-70.17	-69.53	-69.84	-68.99	-69.40
2	-67.55	-68.19	-65.23	-66.17	-68.62	-68.91	-69.41	-70.01	-69.42	-69.60	-69.13	-69.51
3	-67.83	-68.21	-65.48	-66.02	-68.52	-68.99	-69.67	-70.42	-69.51	-69.79	-69.32	-69.61
4	-67.49	-68.17	-65.10	-65.98	-68.15	-68.52	-70.04	-70.46	-69.48	-69.85	-68.69	-69.32
5	-68.17	-68.71	-65.23	-65.40	-67.73	-68.15	-69.47	-70.04	-69.38	-69.64	-68.43	-69.07
6	-68.70	-69.16	-65.38	-66.34	-67.64	-67.99	-69.36	-69.68	-69.17	-69.46	-69.07	-69.46
7	-68.39	-68.94	-66.34	-67.27	-67.76	-68.19	-69.36	-69.68	-69.13	-69.63	-68.66	-69.17
8	-68.45	-69.54	-67.20	-67.34	-67.89	-68.20	-69.25	-69.55	-68.93	-69.15	-68.31	-69.07
9	-69.54	-70.24	-66.59	-67.20	-68.19	-68.80	-69.09	-69.52	-69.14	-69.48	-69.07	-69.91
10	-70.07	-70.48	-66.31	-66.75	-67.96	-68.54	-68.65	-69.09	-69.10	-69.38	-69.24	-69.92
11	-69.66	-70.12	-66.75	-68.44	-67.50	-67.96	-68.97	-69.21	-69.21	-69.58	-69.29	-69.68
12	-68.76	-69.90	-68.39	-68.73	-67.33	-67.81	-68.83	-69.56	-69.58	-70.47	-69.28	-69.85
13	-68.29	-68.76	-67.93	-68.39	-67.73	-68.01	-69.11	-69.67	-69.80	-70.48	-69.85	-70.21
14	-68.63	-69.47	-66.99	-67.93	-67.47	-68.23	-69.33	-69.72	-69.19	-69.80	-70.21	-70.81
15	-69.05	-69.49	-66.75	-67.31	-68.16	-68.59	-69.26	-69.76	-69.49	-70.13	-70.54	-70.85
16	-68.64	-69.41	-67.31	-67.78	-68.39	-68.67	-69.40	-69.80	-69.82	-70.04	-70.64	-71.02
17	-69.41	-70.56	-67.78	-69.54	-68.50	-68.72	-69.24	-69.73	-70.04	-70.42	-70.43	-70.84
18	-70.56	-71.92	-69.54	-71.42	-67.85	-68.51	-69.53	-69.89	-70.18	-70.40	-70.46	-71.02
19	-71.92	-72.48	-71.26	-71.68	-67.66	-68.03	-69.17	-69.73	-70.31	-70.61	-70.54	-70.91
20	-71.68	-72.48	-70.61	-71.26	-67.75	-68.61	-69.46	-69.76	-70.33	-70.62	-70.61	-70.80
21	-70.72	-71.74	-70.43	-71.00	-68.56	-68.80	-69.76	-69.93	-70.05	-70.46	-70.65	-71.20
22	-69.69	-70.72	-70.49	-70.83	-68.27	-68.67	-69.41	-69.97	-69.77	-70.35	-71.04	-71.30
23	-68.56	-69.69	-70.54	-71.21	-68.38	-68.69	-69.26	-69.65	-69.71	-70.27	-71.30	-72.84
24	-67.56	-68.56	-70.11	-70.54	-68.47	-68.91	-69.07	-69.52	-69.33	-69.71	-72.49	-72.87
25	-67.59	-68.04	-70.18	-70.42	-68.68	-69.15	-69.50	-69.82	-69.57	-70.28	-72.53	-72.81
26	-67.13	-67.59	-69.82	-70.36	-69.02	-69.26	-69.82	-70.45	-69.14	-69.99	-72.49	-72.88
27	-66.45	-67.25	-69.16	-69.84	-69.20	-70.43	-70.07	-70.57	-69.26	-69.59	-71.95	-72.49
28	-66.36	-67.01	-68.72	-69.28	-69.34	-70.43	-69.76	-70.25	-69.11	-69.61	-72.45	-72.99
29	-67.01	-67.12	-68.12	-68.72	-69.35	-70.04	-69.26	-69.77	-69.08	-69.61	-72.58	-72.77
30	-66.00	-67.06	-68.17	-68.85	-69.91	-70.20	-69.26	-69.46	-69.08	-69.53	-72.70	-73.05
31	---	---	-68.85	-69.20	---	---	-69.34	-69.69	-68.94	-69.59	---	---
MONTH	-68.00	-72.48	-65.10	-71.68	-67.33	-70.43	-68.65	-70.57	-68.93	-70.62	-68.31	-73.05
YEAR	-65.10	-79.21										

Daily Low Water Levels



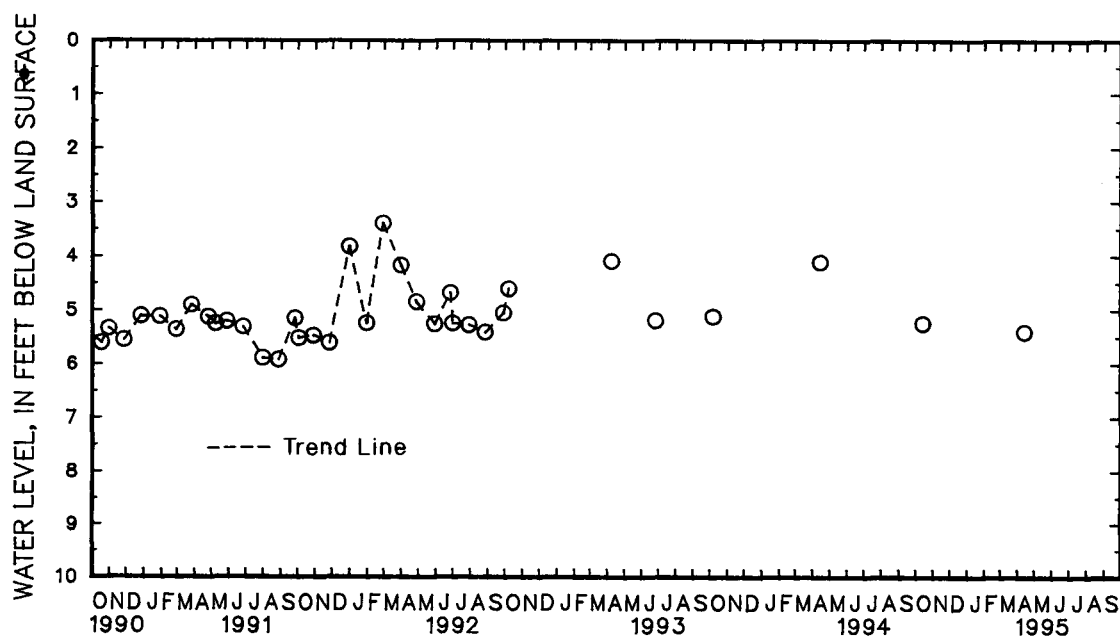
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 90. SITE ID.--382456076562201. PERMIT NUMBER.--CH-81-0606.
LOCATION.--Lat 38°24'56", long 76°56'22", Hydrologic Unit 02070011, at Allens Fresh.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium deposit of Quaternary age. Aquifer code: 110ALVM.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 21 ft; casing diameter 4 in., to 11 ft; casing diameter 2 in from 16 to 21 ft; screen diameter 2 in. from 11 to 16 ft.
INSTRUMENTATION.--Twice yearly measurements starting October 1993 with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 6.81 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 2.44 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--August 1983 to January 1985, April 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.29 ft below land surface, May 30, 1990; lowest measured, 7.58 ft below land surface, April 23, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	5.28	APR 12	5.44
WATER YEAR 1995 HIGHEST 5.28 OCT 12, 1994 LOWEST 5.44 APR 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 25 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.60 ft above land surface.

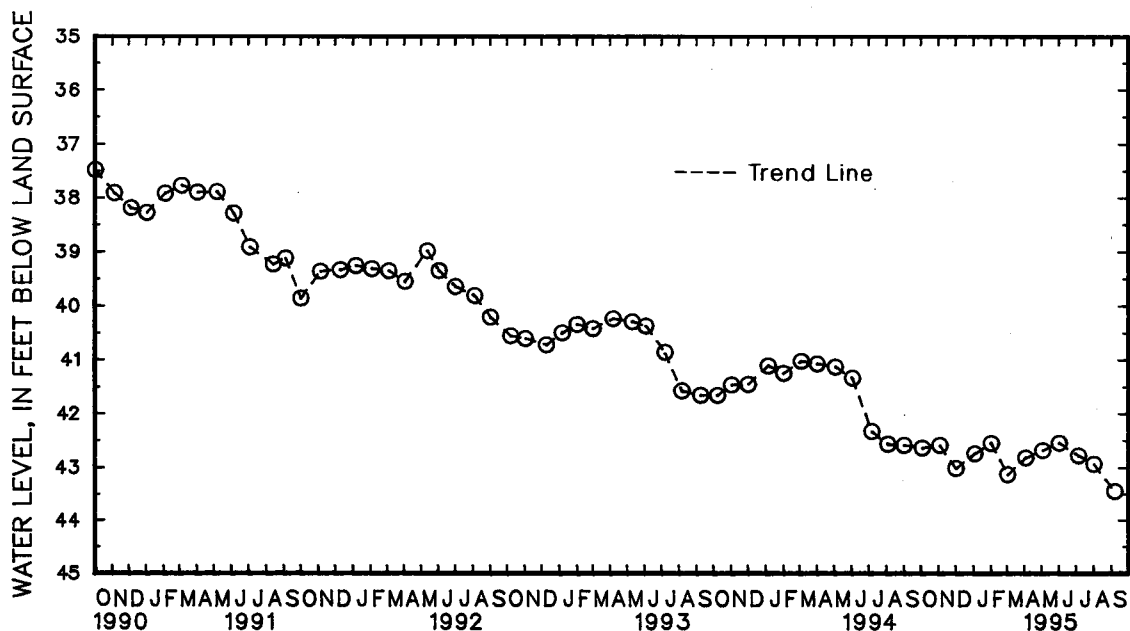
REMARKS.--Maryland Water-Level Network observation well.

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, 43.47 ft below land surface, Sept. 6, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	42.67	DEC 1	43.05	FEB 1	42.57	APR 3	42.84	JUN 1	42.56	AUG 1	42.86
NOV 3	42.62	JAN 3	42.77	MAR 2	43.16	MAY 3	42.70	JUL 5	42.80	SEP 6	43.47
WATER YEAR 1995		HIGHEST	42.56	JUN 1, 1995	LOWEST	43.47	SEP 6, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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.

Owner: Harold E. Fee.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.50 ft above land surface.

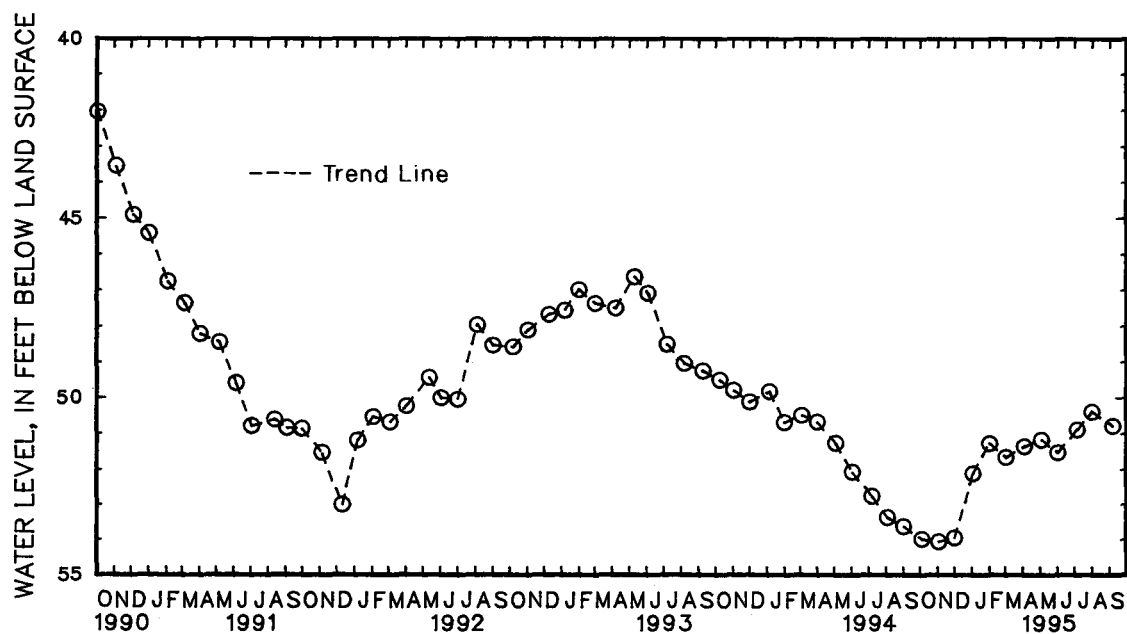
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	54.02	DEC 1	53.96	FEB 1	51.29	APR 3	51.37	JUN 1	51.55	AUG 1	50.40
NOV 3	54.08	JAN 3	52.12	MAR 2	51.68	MAY 3	51.18	JUL 5	50.90	SEP 6	50.80
WATER YEAR 1995		HIGHEST	50.40	AUG 1, 1995		LOWEST	54.08	NOV 3, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Co 5. SITE ID.--383340076041601.

LOCATION.--Lat 38°33'40", long 76°04'16", Hydrologic Unit 02060005, at Cambridge Pumping Station.

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 12 in., to 385 ft.

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

DATUM.--Elevation of land surface is 18 ft above National Geodetic Vertical Datum of 1929, from topographic map.

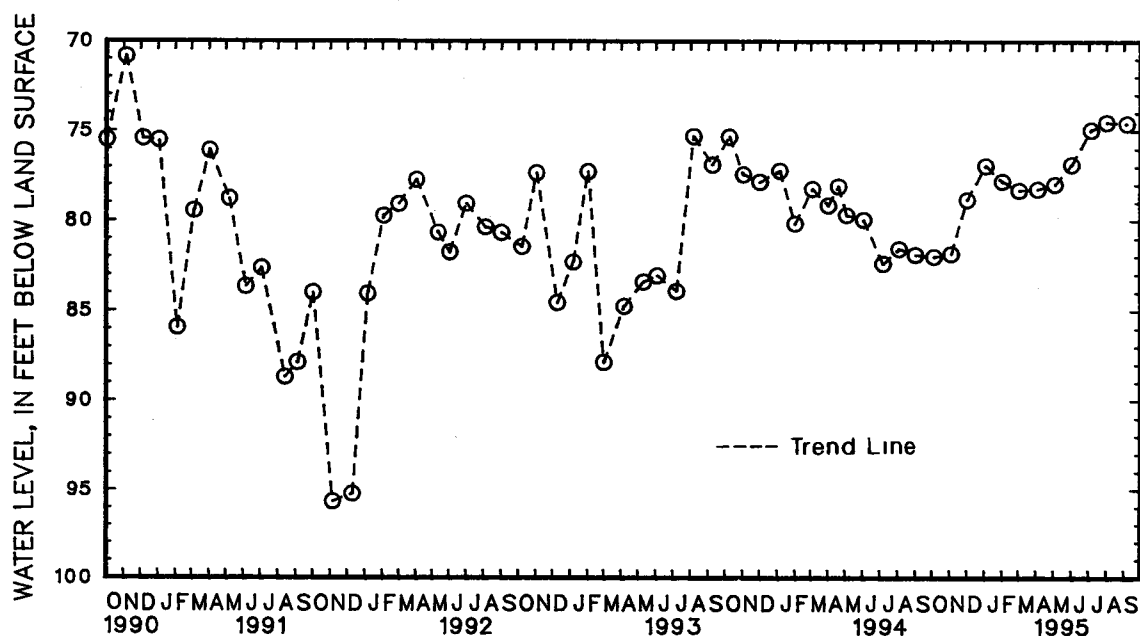
Measuring point: Top of casing, 4.00 ft above land surface.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	82.09	DEC 1	78.86	FEB 1	77.83	APR 3	78.27	JUN 1	76.88	AUG 1	74.53
NOV 3	81.93	JAN 3	76.95	MAR 2	78.34	MAY 3	78.00	JUL 5	74.95	SEP 6	74.60
WATER YEAR 1995		HIGHEST	74.53	AUG 1, 1995		LOWEST	82.09	OCT 4, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL LOCATION.--DO Co 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 902.5 to 950.5 ft; screen diameter 3 in. (?) from 950.5 to 970.5 ft.

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

DATUM.--Elevation of land surface is 6 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.50 ft above land surface.

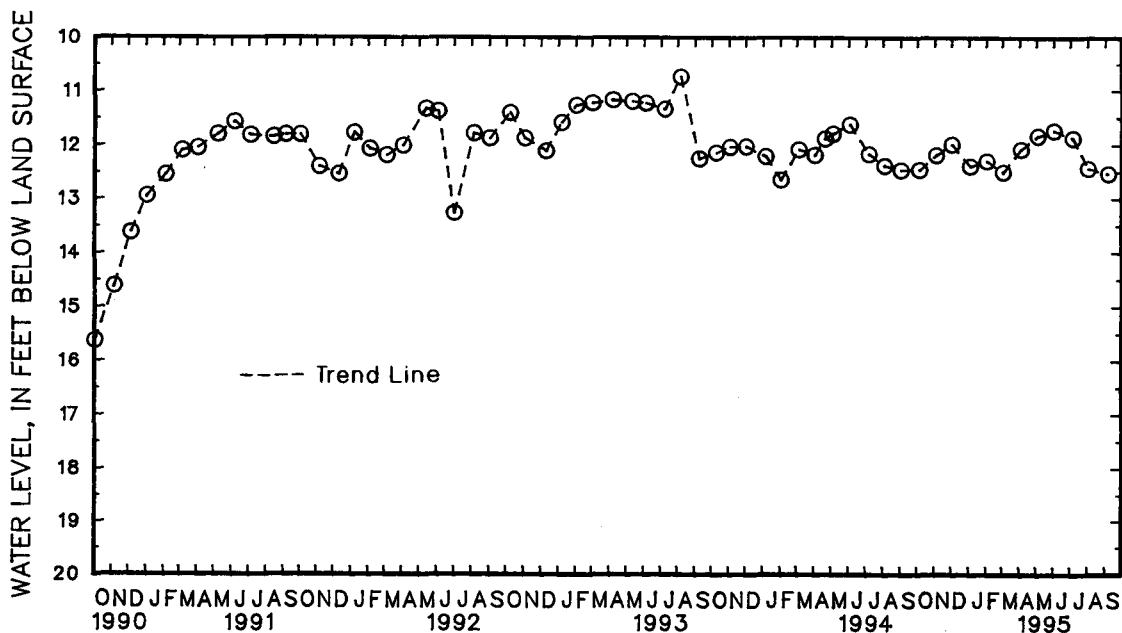
REMARKS.--Maryland Water-Level Network observation well. Water level reported 68 ft below land surface Aug. 30, 1947.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	12.47	DEC 1	12.00	FEB 1	12.31	APR 3	12.09	JUN 1	11.74	AUG 1	12.45
NOV 3	12.20	JAN 3	12.41	MAR 2	12.52	MAY 3	11.84	JUL 5	11.88	SEP 6	12.55
WATER YEAR 1995		HIGHEST	11.74	JUN 1, 1995		LOWEST	12.55	SEP 6, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

275

MARYLAND--Continued

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: 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 chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing at land surface.

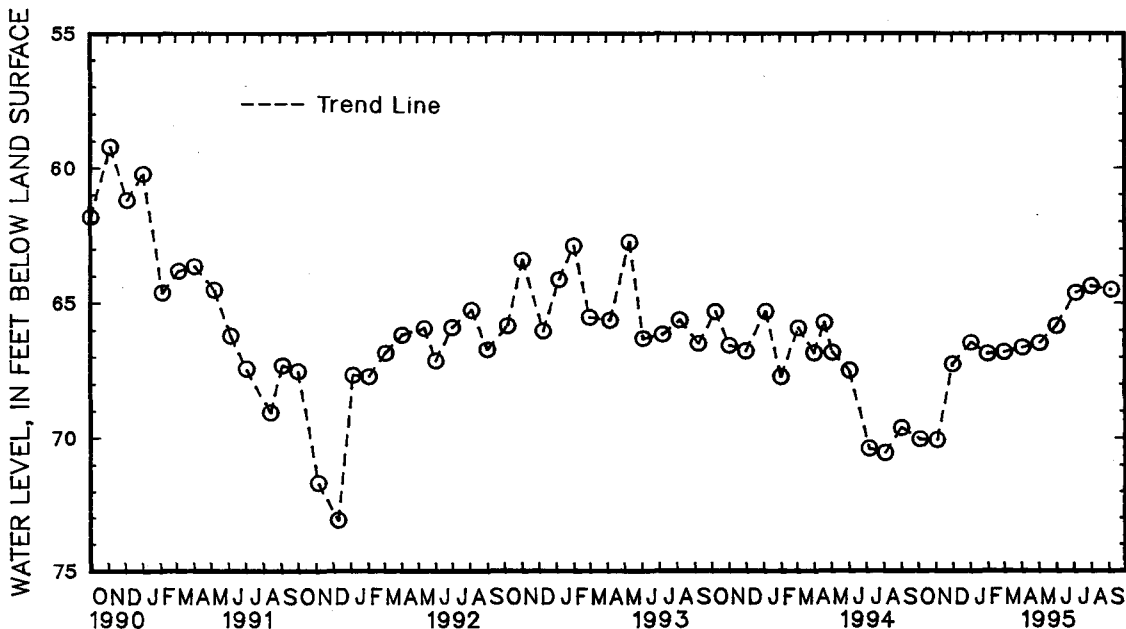
REMARKS.--Maryland Water-Level Network observation well. Water level measured 73.77 ft below land surface, Feb. 14, 1952. Water levels may be affected by nearby pumping. Access to well blocked by construction equipment, from January 1988 through September 1988.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	70.10	DEC 1	67.28	FEB 1	66.90	APR 3	66.67	JUN 1	65.85	AUG 1	64.38
NOV 3	70.13	JAN 3	66.50	MAR 2	66.84	MAY 3	66.50	JUL 5	64.63	SEP 6	64.52
WATER YEAR 1995		HIGHEST	64.38	AUG 1, 1995		LOWEST	70.13	NOV 3, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 78. SITE ID.--383243076042301. PERMIT NUMBER.--DO-66-0026.

LOCATION.--Lat 38°32'43", long 76°04'23", Hydrologic Unit 02060005, at Woods Rd. water tower, Cambridge.
Owner: City of Cambridge.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 503 ft; casing diameter 28 in., to 363 ft; casing diameter 22 in. from 323 to 503 ft; casing diameter 12 in. from 363.7 to 368 ft, 400 to 405 ft, 420 to 425 ft, 440 to 445 ft, 460 to 465 ft, and 480 to 485 ft; screen diameter 12 in. from 360.3 to 363.7 ft, 368 to 380 ft, 385 to 400 ft, 405 to 420 ft, 425 to 440 ft, 445 to 460 ft, 465 to 480 ft, and 485 to 500 ft.

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

DATUM.--Elevation of land surface is 15 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.10 ft above land surface.

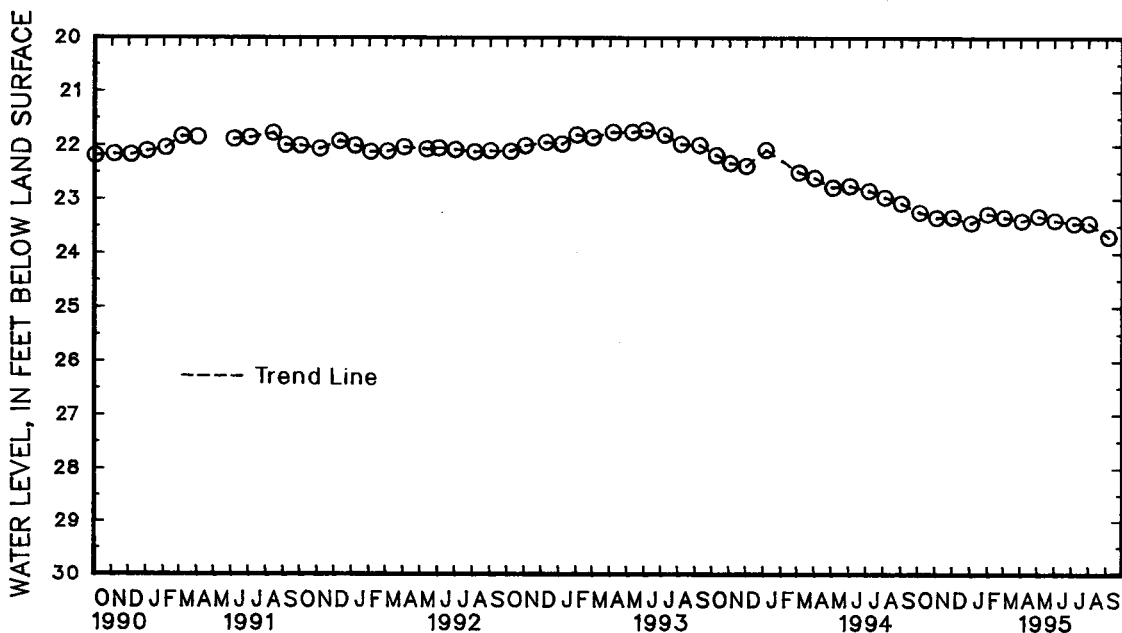
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	23.27	DEC 1	23.36	FEB 1	23.30	APR 3	23.43	JUN 1	23.42	AUG 1	23.47
NOV 3	23.37	JAN 3	23.47	MAR 2	23.36	MAY 3	23.34	JUL 5	23.48	SEP 5	23.73
WATER YEAR 1995		HIGHEST	23.27	OCT 4, 1994	LOWEST	23.73	SEP 5, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, near MD Rt. 16, Taylors 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.65 ft above land surface.

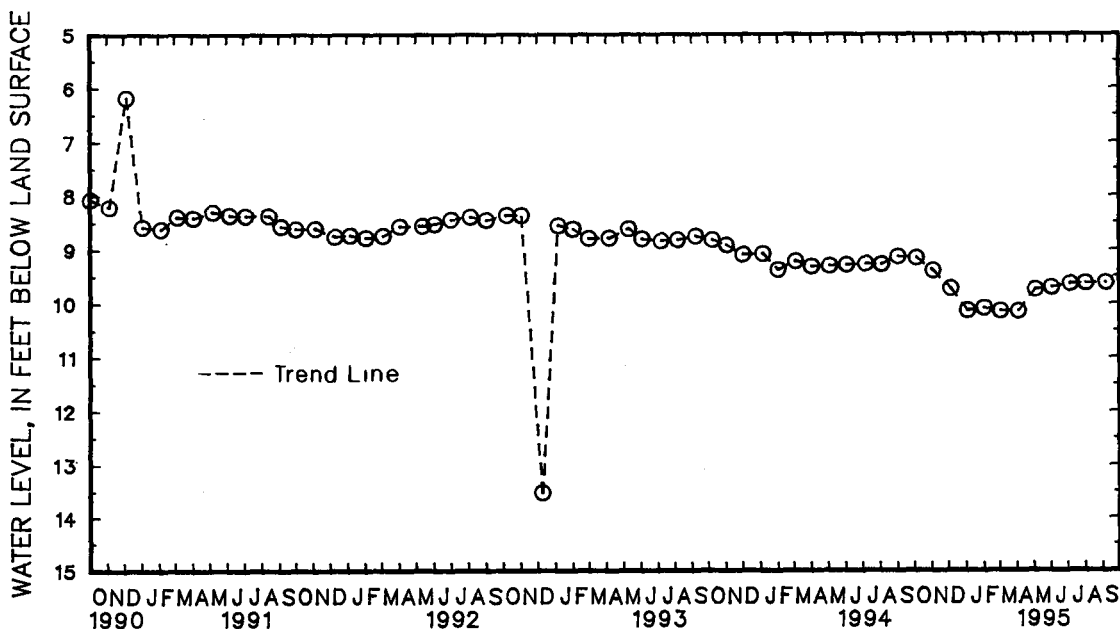
REMARKS.--Maryland Water-Level Network observation well. On Dec. 5, 1990 a northeaster storm caused the rise in water-levels when low lying areas were flooded. The Dec. 9, 1992 water level measurement is affected by recent pumping in the area or by use of the observation well?

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.18 ft below land surface, Dec. 5, 1990; lowest measured, 13.55 ft below land surface, Dec. 9, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

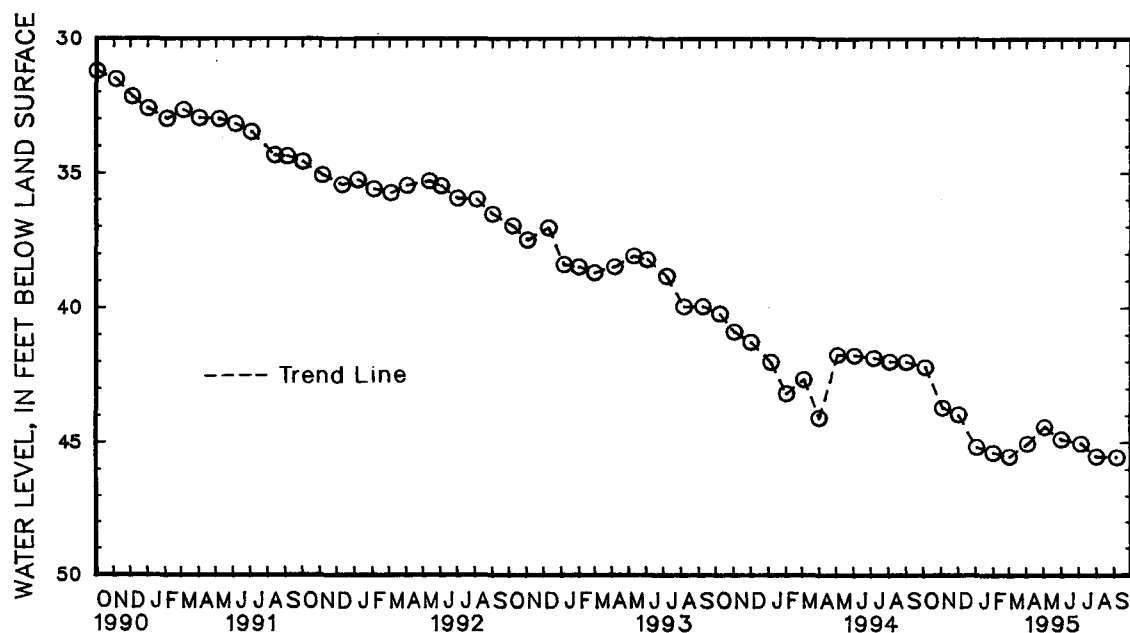
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	9.18	DEC 4	9.76	FEB 1	10.12	APR 3	10.18	JUN 1	9.73	AUG 1	9.65
NOV 3	9.42	JAN 3	10.17	MAR 2	10.18	MAY 3	9.77	JUL 5	9.66	SEP 6	9.64
WATER YEAR 1995		HIGHEST	9.18	OCT 4, 1994	LOWEST	10.18	MAR 2, 1995	APR 3, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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, 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 2 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 1.50 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 45.62 ft below land surface, Sept. 6, 1995.

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL			
OCT	4	42.25	DEC	1	44.04	FEB	1	45.45	APR	3	45.10	JUN	1	44.94	AUG	1	45.59
NOV	3	43.79	JAN	3	45.22	MAR	2	45.59	MAY	3	44.47	JUL	5	45.10	SEP	6	45.62
WATER YEAR 1995			HIGHEST		42.25	OCT 4, 1994		LOWEST		45.62	SEP 6, 1995						



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.50 ft above land surface.

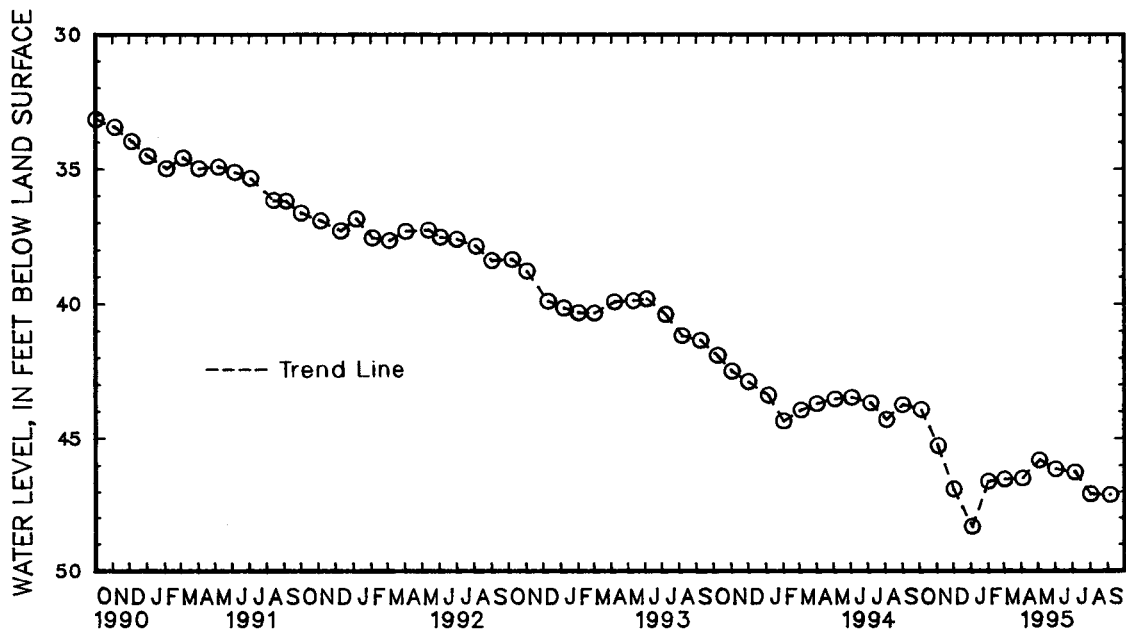
REMARKS.--Maryland Water-Level Network observation well.

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, 48.35 ft below land surface, Jan. 3, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	44.00	DEC 1	46.95	FEB 1	46.62	APR 3	46.50	JUN 1	46.16	AUG 1	47.11
NOV 3	45.35	JAN 3	48.35	MAR 2	46.53	MAY 3	45.82	JUL 5	46.28	SEP 5	47.14
WATER YEAR 1995		HIGHEST	44.00	OCT 4, 1994	LOWEST	48.35	JAN 3, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

281

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: Delmarva Power and Light Co.
 AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 63 ft; casing diameter 12 in., to 20 ft and 8 in., to 33 ft; screen diameter 6 in. from 33 to 63 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.69 ft above land surface.
 REMARKS.--Southern Maryland observation well network. Water levels are affected by nearby pumping at powerplant.
 PERIOD OF RECORD.--April 1990 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.72 ft above sea level, March 3, 1994; lowest measured, 9.11 ft below sea level, Dec. 27, 1990.

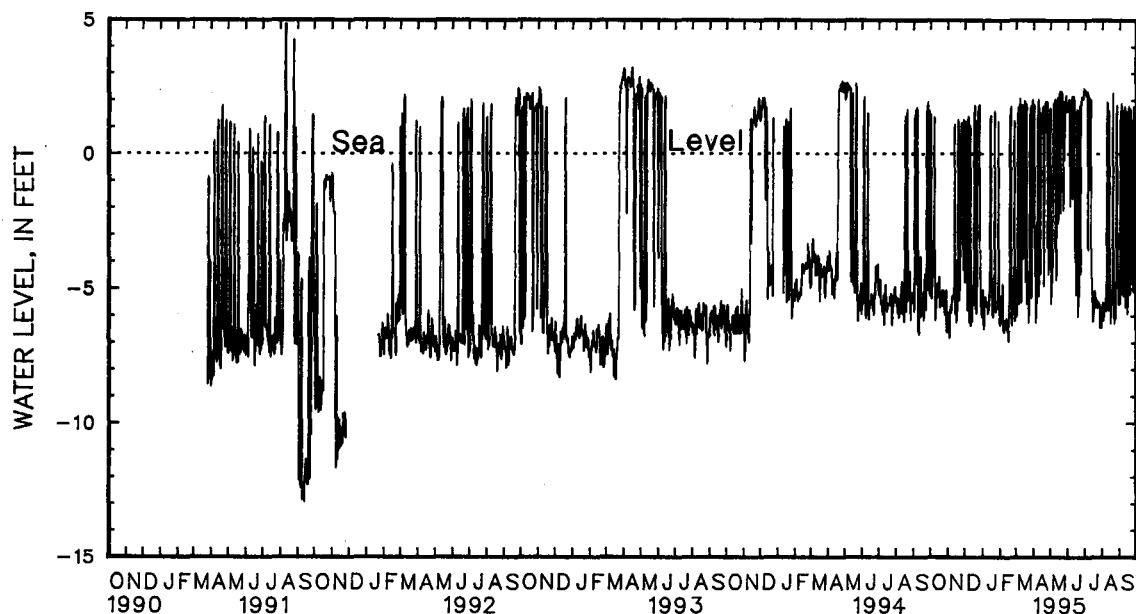
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.93	1.31	1.35	-5.90	1.42	-4.78	1.57	-5.06	1.90	-6.37	2.04	-5.61
2	2.06	1.47	1.66	-6.20	1.78	.90	1.44	-6.21	1.64	-5.82	1.97	-6.03
3	2.13	-5.39	.95	-6.84	1.76	1.20	1.20	-6.51	1.55	-5.29	2.01	-4.50
4	1.97	-4.64	1.03	-6.56	1.69	1.06	1.31	-5.51	1.91	-6.27	2.23	1.73
5	2.01	-4.45	1.38	-5.86	1.78	-5.80	.93	-5.33	1.98	-4.84	2.39	1.75
6	1.95	-3.26	1.63	-5.69	1.89	1.19	.91	-5.35	1.28	-5.60	2.51	-5.58
7	1.95	-4.34	1.42	-5.87	1.99	1.42	1.43	-5.64	.70	-6.65	2.33	1.80
8	2.04	1.39	1.26	-5.61	1.91	-6.26	.97	-5.61	.93	-6.22	2.81	2.07
9	1.98	-5.35	1.22	-5.30	1.21	-6.12	1.20	-5.53	1.04	-6.51	2.58	-3.58
10	1.26	-6.19	1.19	-5.38	1.85	1.06	1.17	-5.93	1.03	-6.44	1.58	-5.53
11	1.52	-5.75	1.27	-5.31	1.92	-6.39	1.15	-5.82	1.22	-6.19	2.15	1.44
12	1.78	-4.86	1.22	-5.09	.72	-5.96	1.48	-5.62	1.50	-6.13	2.25	1.81
13	1.85	-4.86	1.66	1.12	1.01	-6.20	1.73	-4.62	1.04	-6.53	2.22	-3.90
14	1.97	-5.33	1.62	-5.95	1.08	-5.51	1.68	1.23	1.30	-6.66	2.25	1.68
15	1.76	-5.24	1.65	-3.98	1.70	-4.90	2.05	1.44	1.52	-6.96	2.39	1.80
16	2.06	-4.56	1.62	-6.26	1.79	-4.98	2.34	-4.57	1.51	-6.33	2.47	1.98
17	2.05	-4.84	1.29	-6.01	2.22	1.45	1.81	-5.26	1.59	-6.05	2.55	-4.75
18	2.07	-5.69	1.77	-5.74	2.29	1.82	1.63	-5.96	1.82	1.27	2.27	1.70
19	2.16	-5.68	1.77	1.31	2.20	-5.73	1.83	-6.06	2.00	1.51	2.47	1.86
20	1.98	-5.42	1.73	1.10	1.97	1.23	2.33	-5.83	2.23	1.76	2.53	-5.58
21	1.91	-5.38	1.96	-5.44	1.92	-5.93	2.46	-3.38	2.26	-6.12	2.72	-5.29
22	1.95	-5.09	1.97	-4.23	1.46	-3.74	2.16	1.63	1.63	-6.37	2.23	-4.43
23	1.99	-5.63	1.62	-3.33	1.84	1.07	2.12	-5.32	1.98	-5.45	1.93	-6.27
24	1.79	-5.09	1.43	.55	2.11	1.68	1.39	-5.88	1.85	-5.00	1.39	-5.85
25	1.74	-5.14	1.58	1.16	2.23	1.80	1.16	-5.71	1.85	-5.70	2.03	1.28
26	1.55	-5.86	1.56	.96	2.33	1.84	1.33	-5.68	1.94	1.25	2.16	1.72
27	1.39	-5.97	1.84	.93	2.16	-4.42	1.38	-5.68	1.78	-6.21	2.27	1.80
28	1.34	-5.79	1.99	-4.32	2.01	-5.07	1.55	-5.73	1.96	-5.31	2.44	-5.36
29	1.44	-5.08	1.96	1.29	1.77	-5.84	1.78	1.23	---	---	2.27	-2.94
30	1.55	-6.64	1.66	1.00	1.18	-5.99	1.93	-5.14	---	---	2.51	2.03
31	.98	-6.27	---	---	1.22	-6.07	1.62	-6.33	---	---	2.52	-2.69
MONTH	2.16	-6.64	1.99	-6.84	2.33	-6.39	2.46	-6.51	2.26	-6.96	2.81	-6.27

GROUND-WATER LEVELS
MARYLAND--Continued
DORCHESTER COUNTY--Continued
DO Dh 27--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.39	1.83	2.23	1.70	2.27	1.71	2.97	2.37	1.55	-5.90	2.00	-5.55
2	2.39	1.82	2.57	-5.58	2.37	1.89	2.89	2.30	1.67	-5.52	1.93	1.25
3	2.31	-4.55	2.30	-4.76	2.47	2.02	2.68	2.18	1.67	-6.17	2.26	1.57
4	2.62	-2.73	2.46	-4.64	2.36	1.72	2.79	2.31	1.49	-5.79	2.35	1.89
5	1.83	-6.27	2.62	-3.60	2.30	-1.96	2.79	2.31	1.62	-5.57	2.35	-5.21
6	1.57	-5.51	2.36	1.86	2.43	1.98	2.78	-3.58	1.58	-5.70	2.12	1.61
7	1.58	-5.18	2.51	1.91	2.48	1.95	2.67	2.18	1.64	-5.82	2.18	-5.05
8	2.34	1.41	2.52	1.87	2.64	2.14	2.74	2.05	2.16	-4.59	2.09	-5.26
9	2.40	2.04	2.51	2.04	2.56	-1.69	2.58	2.02	2.42	1.94	2.22	1.44
10	2.42	-5.29	2.97	-3.35	2.52	2.01	2.66	-1.30	2.43	1.89	2.34	1.75
11	2.21	1.73	2.69	-4.68	2.63	2.13	2.78	2.04	2.37	-5.80	2.03	-5.70
12	2.21	-4.31	2.54	-4.13	2.74	2.00	2.64	-4.31	2.13	-5.29	1.99	-2.71
13	2.46	-4.46	2.61	2.06	2.38	-4.00	2.38	-4.82	2.21	1.62	2.20	1.61
14	2.12	1.48	2.73	2.10	2.52	-2.83	2.30	-5.35	2.17	-5.81	2.09	-4.74
15	2.02	1.45	2.93	-2.59	2.63	-5.23	2.11	-6.23	1.84	-5.15	1.66	-5.95
16	2.18	1.50	2.74	2.17	2.23	-3.66	1.93	-6.10	2.05	-6.30	1.99	1.26
17	2.27	1.68	2.98	2.30	2.21	1.65	2.15	-5.31	1.89	-5.31	2.37	1.79
18	2.39	1.80	2.90	2.36	2.19	1.65	2.18	-5.08	2.05	-5.37	2.15	-5.23
19	2.46	-4.93	2.84	-2.22	2.17	-6.04	2.18	-5.70	2.27	-5.17	1.74	-5.21
20	2.28	-2.98	2.72	2.16	1.69	-5.31	1.94	-5.35	2.62	2.27	2.13	1.68
21	2.38	1.77	2.77	2.31	1.82	-4.94	2.10	-5.61	2.77	-5.29	2.31	-3.35
22	2.41	1.94	2.72	1.97	2.24	1.82	1.99	-5.69	2.18	-5.93	2.21	-4.81
23	2.28	1.55	2.42	1.93	2.30	-4.46	2.05	-5.70	1.65	-6.30	1.71	1.09
24	2.23	1.70	2.46	-2.09	2.41	1.87	2.13	-5.49	1.91	-5.75	1.97	1.26
25	2.41	1.95	2.58	1.78	2.61	2.13	2.00	-5.60	1.69	-6.11	2.16	-5.13
26	2.43	-3.15	2.33	-.22	2.59	2.07	2.05	-5.57	2.19	1.23	2.41	1.78
27	2.22	-4.47	2.45	1.83	2.56	2.07	1.92	-5.74	2.27	1.82	2.35	-3.75
28	2.35	-4.07	2.62	2.13	2.79	2.07	1.86	-6.45	2.20	-3.80	2.22	1.73
29	2.09	1.43	2.73	2.18	2.93	2.45	1.86	-5.68	2.20	-4.85	2.03	-4.72
30	2.37	1.69	2.60	1.68	2.81	2.33	1.84	-6.05	2.30	-5.61	2.25	1.44
31	---	---	2.09	1.59	---	---	1.29	-6.44	1.97	-5.33	---	---
MONTH	2.62	-6.27	2.98	-5.58	2.93	-6.04	2.97	-6.45	2.77	-6.30	2.41	-5.95
YEAR	2.98	-6.96										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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, water-table well, depth 365 ft; casing diameter 6 in., to 41 ft; open hole.

DATUM.--Elevation of land surface is 385 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.81 ft above land surface.

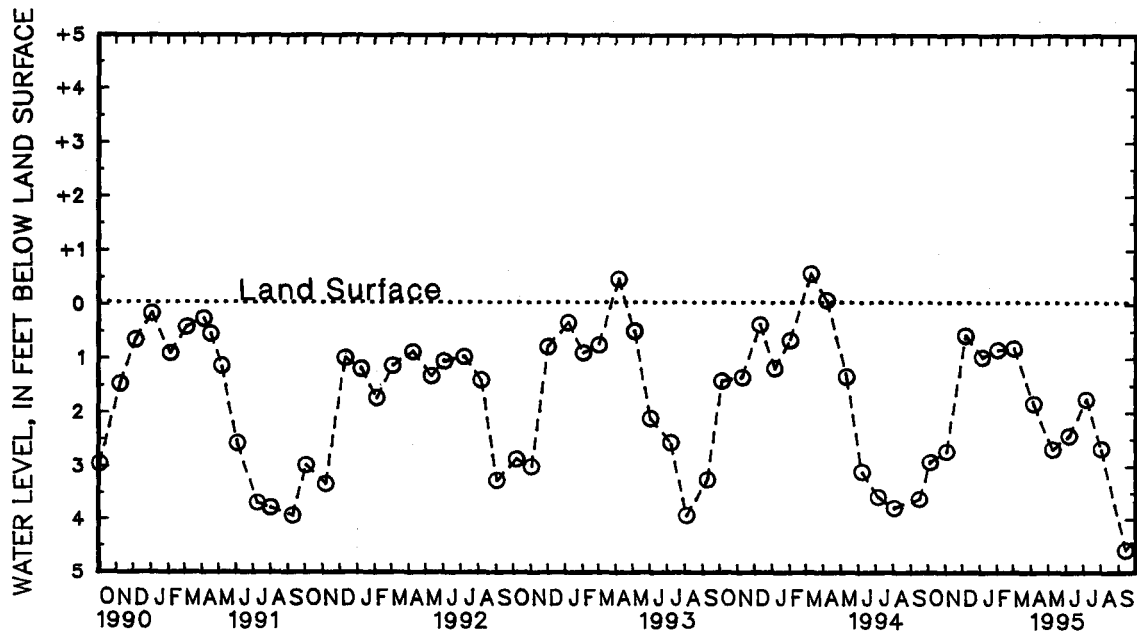
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--April 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.62 ft above land surface, May 23, 1983; lowest measured, 5.43 ft below land surface, June 2, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	2.93	DEC 7	.57	FEB 2	.84	APR 5	1.86	JUN 6	2.45	AUG 1	2.69
NOV 3	2.73	JAN 5	.98	MAR 2	.81	MAY 8	2.71	JUL 6	1.76	SEP 13	4.59
WATER YEAR 1995		HIGHEST .57 DEC 7, 1994		LOWEST 4.59 SEP 13, 1995							



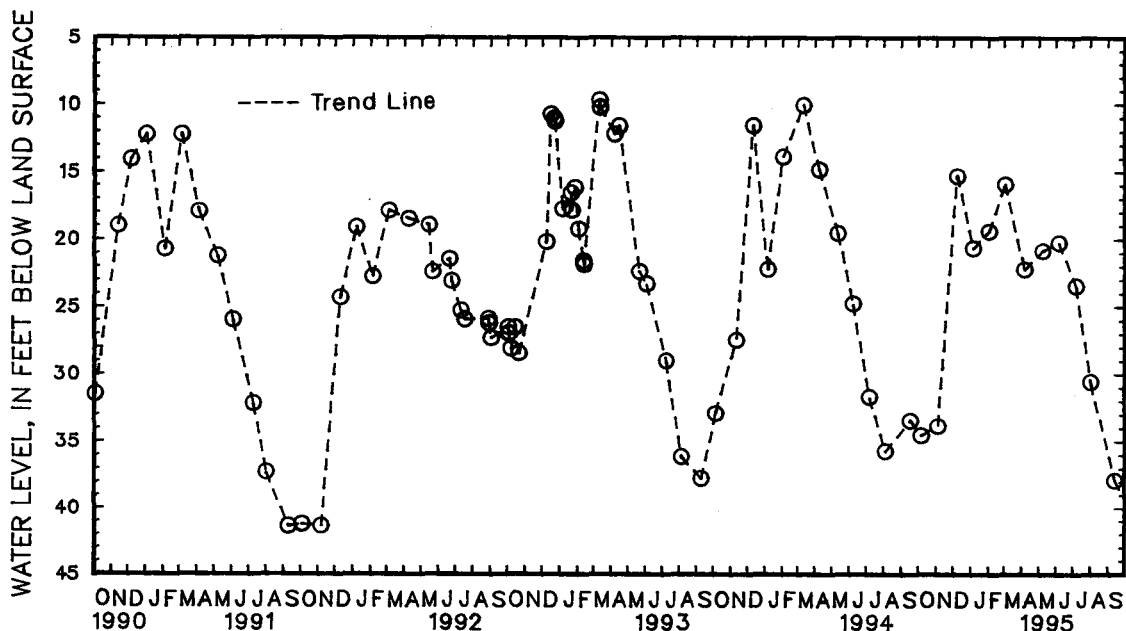
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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: Cunningham Falls State Park.
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 National Geodetic Vertical Datum of 1929, 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, 46.46 ft below land surface, Nov. 3, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT	5	34.67		DEC	7	15.30		FEB	2	18.49		APR	5	22.35	
NOV	3	33.96		JAN	5	20.76		MAR	2	15.94		MAY	8	20.95	
JUN		6	20.33	AUG		1	30.75	SEP		13	38.03				
JUL		6	23.58	SEP		13	38.03								
WATER YEAR 1995		HIGHEST	15.30	DEC 7, 1994		LOWEST	38.03	SEP 13, 1995							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 43 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 National Geodetic Vertical Datum of 1929, 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.

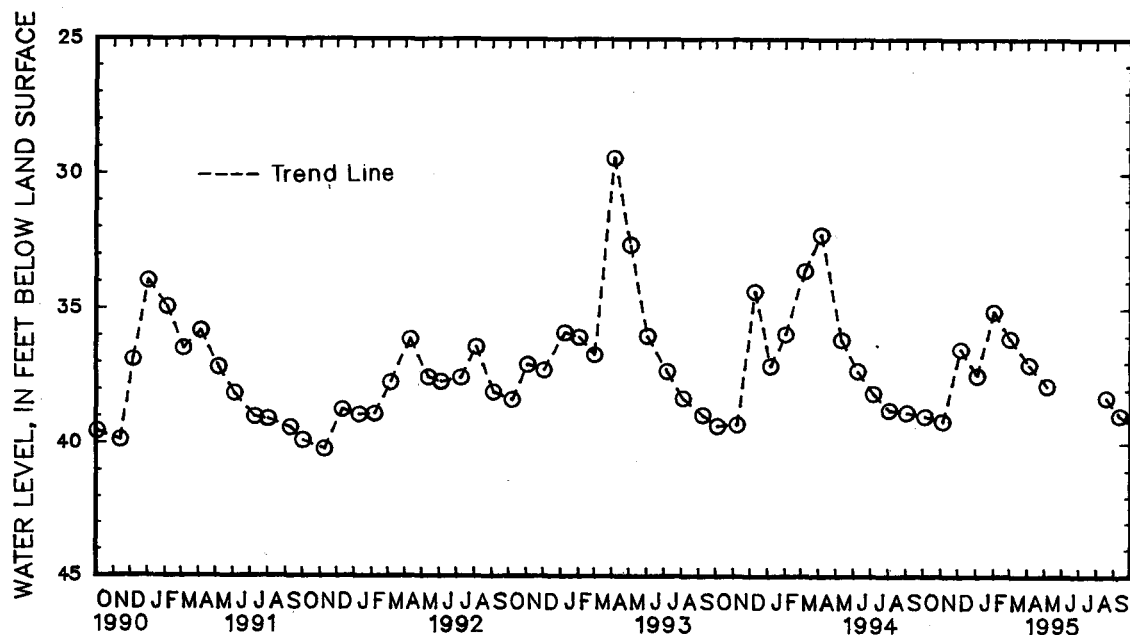
PERIOD OF RECORD.--July 1946 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	39.07	DEC 6	36.52	FEB 1	35.12	APR 4	37.15	AUG 18	38.37
NOV 4	39.26	JAN 3	37.53	MAR 1	36.13	MAY 5	37.93	SEP 11	39.04

WATER YEAR 1995 HIGHEST 35.12 FEB 1, 1995 LOWEST 39.26 NOV 4, 1994

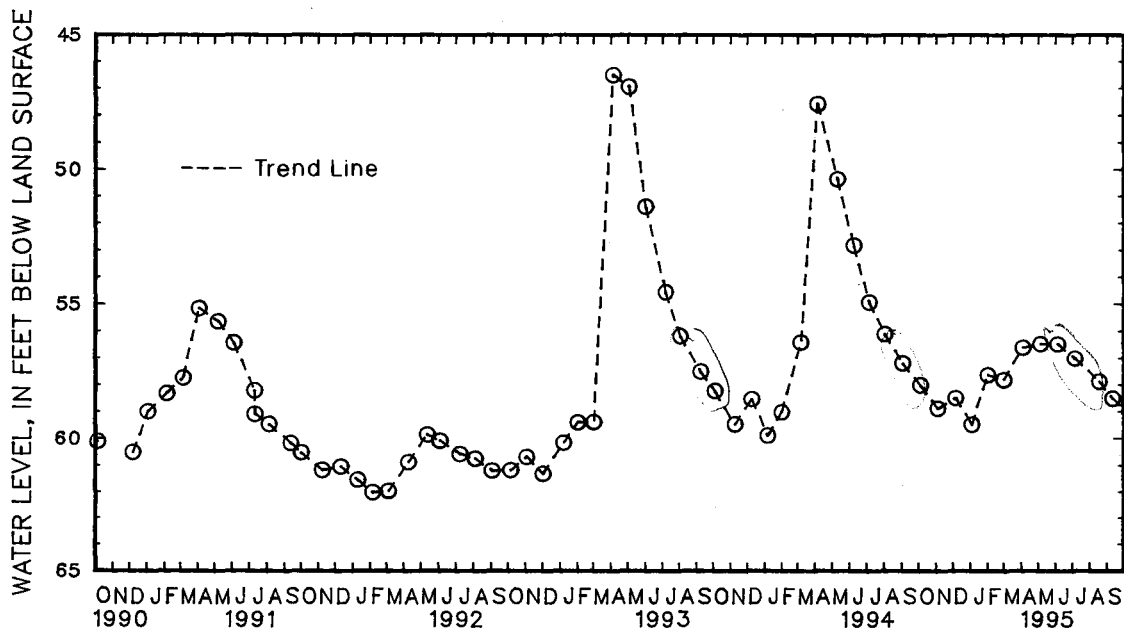


GROUND-WATER LEVELS
MARYLAND--Continued
FREDERICK COUNTY--Continued

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 National Geodetic Vertical Datum of 1929,
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, 44.20 ft below land surface, April 2, 1984;
lowest measured, 62.27 ft below land surface, Feb. 9, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	58.12	DEC 6	58.58	FEB 1	57.69	APR 4	56.65	JUN 5	56.52	AUG 18	57.96
NOV 4	58.98	JAN 3	59.58	MAR 1	57.87	MAY 5	56.52	JUL 5	57.06	SEP 11	58.60
WATER YEAR 1995		HIGHEST	56.52	MAY 5, 1995	JUN 5, 1995	LOWEST	59.58	JAN 3, 1995			

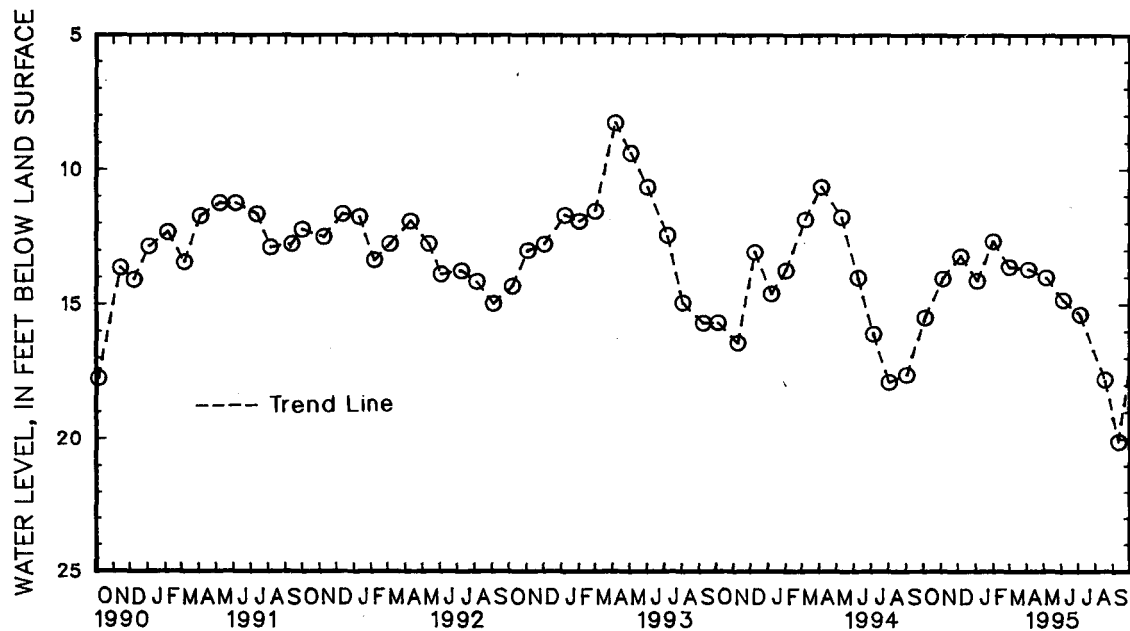


GROUND-WATER LEVELS
MARYLAND--Continued
FREDERICK COUNTY--Continued

WELL NUMBER.--FR Eh 11. SITE ID.--392257077095601. PERMIT NUMBER.--FR-81-0088.
LOCATION.--Lat 39°22'57", long 77°09'56", Hydrologic Unit 02070009. 0.5 mi west of Mount Airy.
Owner: Town of Mount Airy.
AQUIFER.--Marburg Formation of Paleozoic age. Aquifer code: 300MRBG.
WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 103 ft; casing diameter 6 in., to 22 ft; open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.-- Elevation of land surface is 650 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 1.85 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.-- November 1981 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.28 ft below land surface, April 5, 1993;
lowest measured, 20.19 ft below land surface, Sept. 11, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	15.53	DEC 6	13.24	FEB 1	12.69	APR 4	13.76	JUN 5	14.91	AUG 18	17.89
NOV 4	14.08	JAN 3	14.18	MAR 1	13.66	MAY 5	14.06	JUL 5	15.46	SEP 11	20.19
WATER YEAR 1995		HIGHEST 12.69 FEB 1, 1995		LOWEST 20.19 SEP 11, 1995							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of 1 in. board cover, 2.30 ft above land surface.

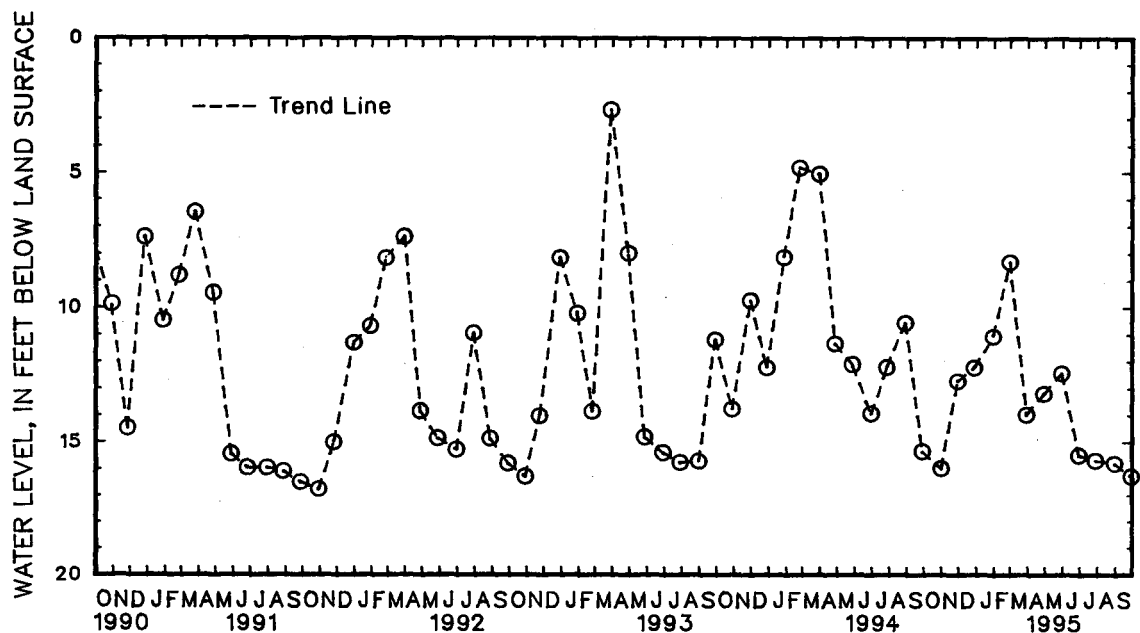
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	16.05	DEC 28	12.25	FEB 28	8.32	APR 28	13.26	JUN 29	15.56	AUG 30	15.86
NOV 29	12.75	JAN 30	11.08	MAR 29	14.06	MAY 30	12.48	JUL 28	15.76	SEP 28	16.34
WATER YEAR 1995		HIGHEST	8.32	FEB 28, 1995	LOWEST	16.34	SEP 28, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

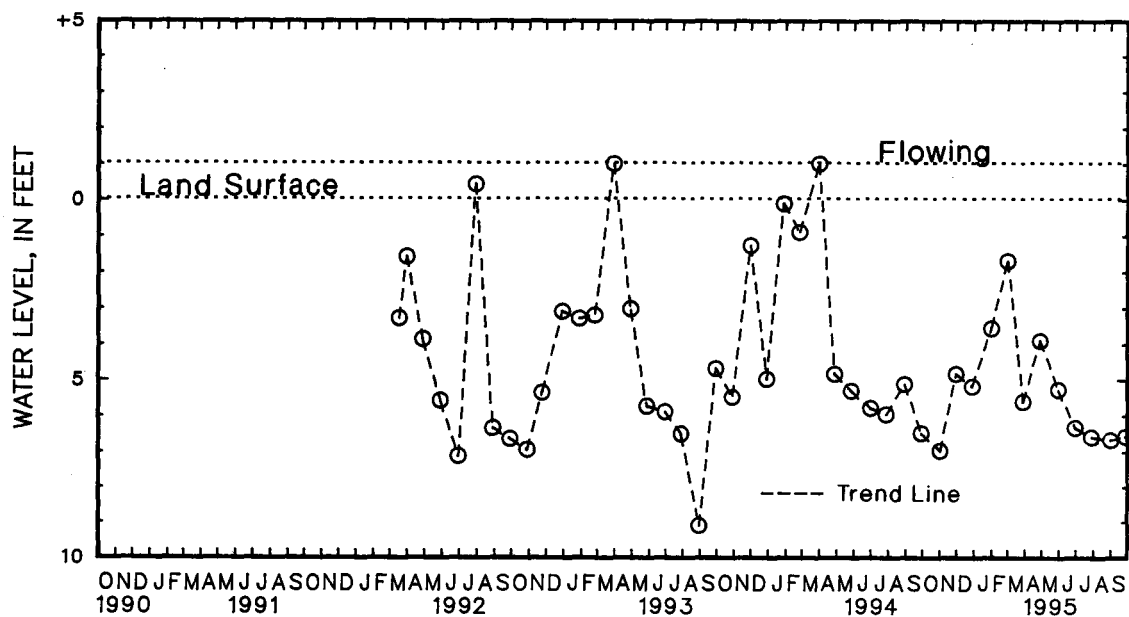
MARYLAND--Continued

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, nr Broadford Rd.
 and Southern Pines Drive, Mountain Lake Park.
 Owner: Jonathan Kessler.
 AQUIFER.--Jennings Formation of Upper Devonian age. Aquifer code: 341JNGS.
 WELL CHARACTERISTICS.--Drilled, observation, water-table 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 National Geodetic Vertical Datum of 1929,
 from topographic map.
 Measuring point: Top of casing 1.0 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	7.02	DEC 28	5.20	FEB 28	1.69	APR 27	3.92	JUN 29	6.38	AUG 31	6.72
NOV 29	4.85	JAN 30	3.57	MAR 28	5.65	MAY 30	5.31	JUL 28	6.64	SEP 27	6.62
WATER YEAR 1995		HIGHEST	1.69	FEB 28, 1995		LOWEST	7.02	OCT 31, 1994			



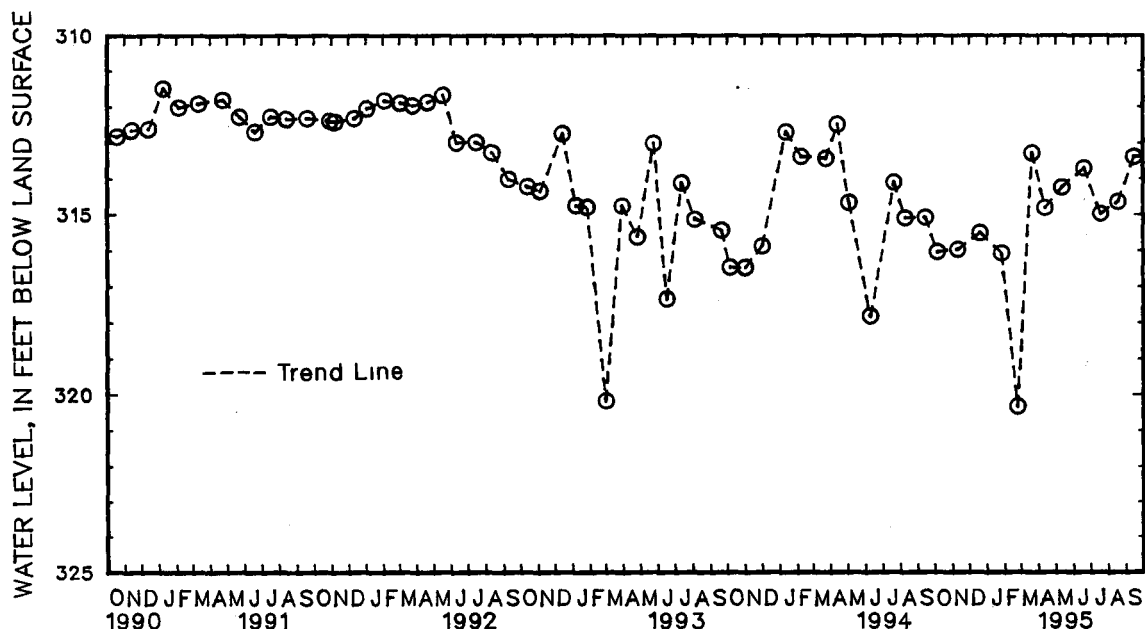
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd.,
0.6 mi west from the intersection with Kempton Rd., 2.6 mi west of Wilson.
Owner: Mettiki Coal Co.
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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring Point: Top of casing, 1.5 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, 100.60 ft below land surface, Dec. 14, 1978;
lowest measured, 332.43 ft below land surface, May 16, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	316.09	DEC 20	315.55	FEB 23	320.40	APR 12	314.84	JUN 19	313.72	AUG 18	314.67
NOV 10	316.02	JAN 26	316.12	MAR 21	313.29	MAY 12	314.27	JUL 18	315.02	SEP 15	313.40
WATER YEAR 1995		HIGHEST	313.29	MAR 21, 1995		LOWEST	320.40	FEB 23, 1995			



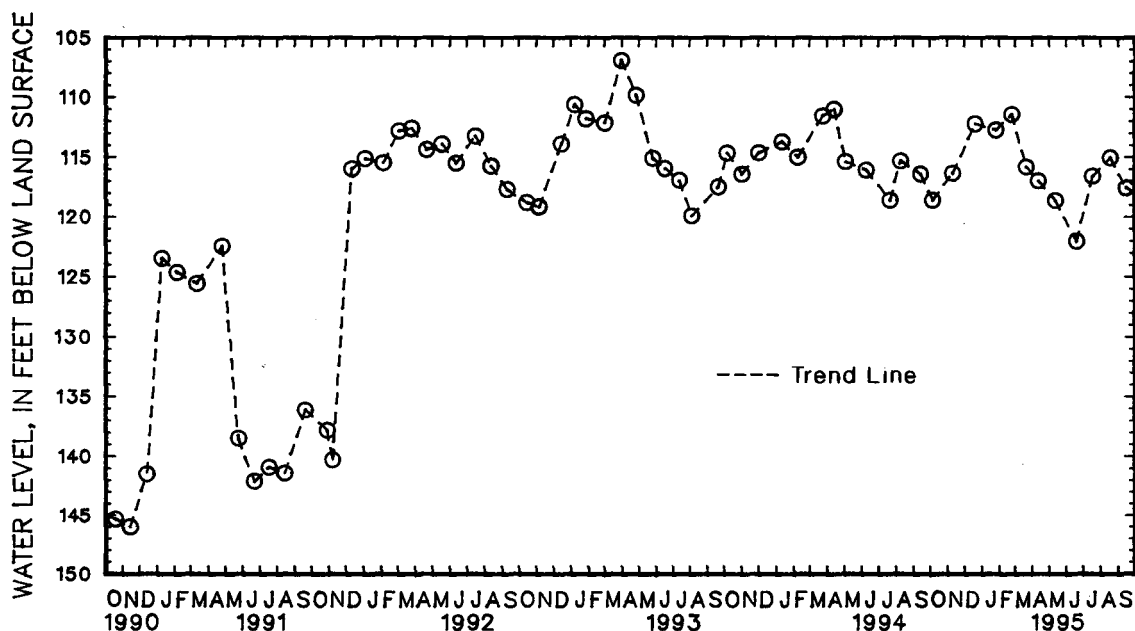
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
GARRETT COUNTY--Continued

WELL NUMBER.--GA Pa 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 Rd.,
0.9 mi west from intersection with Kempton Rd., 2.6 mi west of Wilson.
Owner: Mettiki Coal Co.
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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 2.0 ft above land surface.
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by
coal mining operations.
PERIOD OF RECORD.--June 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 106.95 ft below land surface, March 30, 1993;
lowest water level measured, dry on Nov. 17, and 18, 1982, Dec. 28, 1982 and Feb. 18, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	118.70	DEC 20	112.25	FEB 23	111.48	APR 12	117.10	JUN 19	122.16	AUG 18	115.08
NOV 10	116.43	JAN 26	112.79	MAR 21	115.84	MAY 12	118.75	JUL 18	116.64	SEP 15	117.65
WATER YEAR 1995		HIGHEST	111.48	FEB 23, 1995		LOWEST	122.16	JUN 19, 1995			



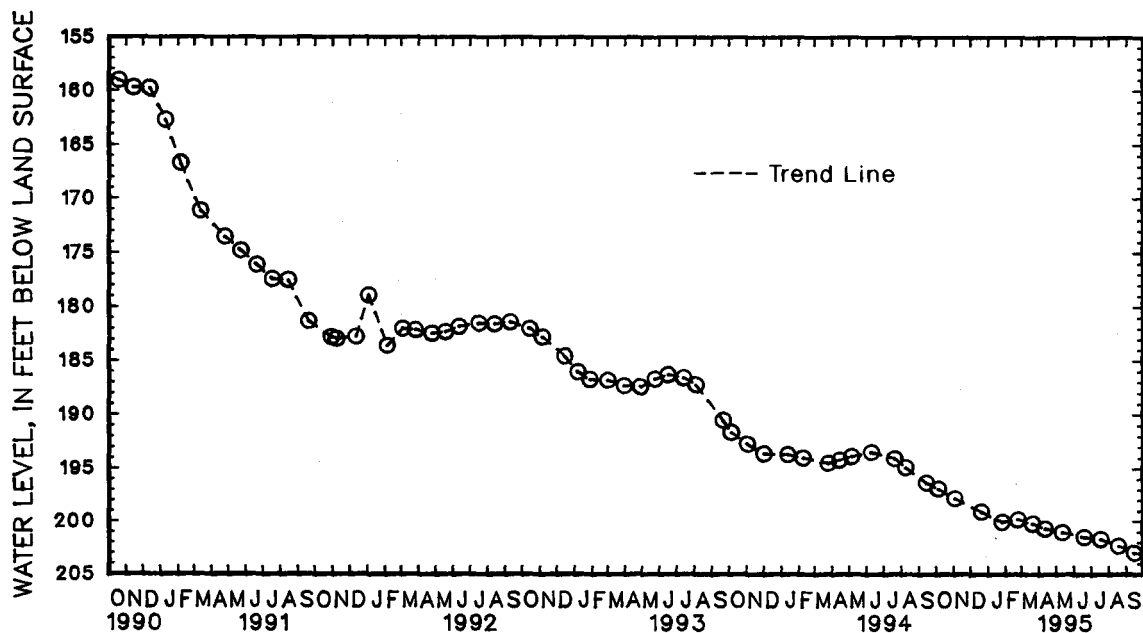
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd., 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 2.6 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, 203.02 ft below land surface, Sept. 15, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5 197.04		DEC 20 199.19		FEB 23 199.92		APR 12 200.76		JUN 19 201.54		AUG 18 202.39	
NOV 3 197.97		JAN 26 200.16		MAR 21 200.28		MAY 12 201.12		JUL 18 201.74		SEP 15 203.02	
WATER YEAR 1995		HIGHEST 197.04	OCT 5, 1994	LOWEST 203.02	SEP 15, 1995						



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

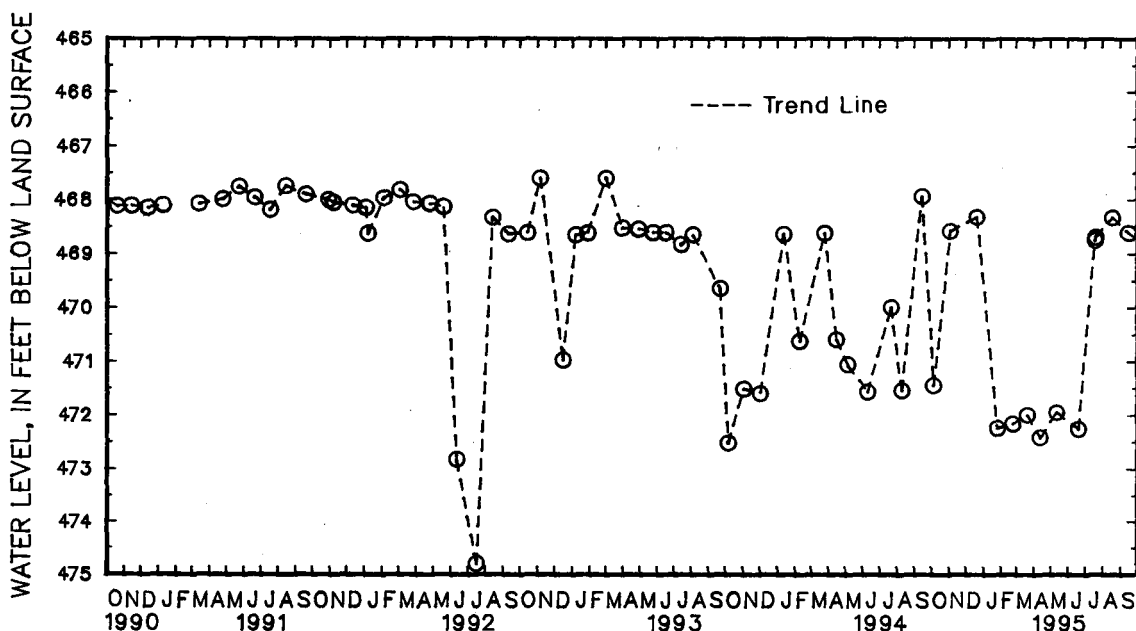
MARYLAND--Continued

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 Rd., 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 National Geodetic Vertical Datum of 1929,
 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	471.49	JAN 26	472.28	APR 12	472.45	JUL 18	468.75	SEP 15	468.62
NOV 3	468.59	FEB 23	472.20	MAY 12	471.98	19	468.69		
DEC 20	468.32	MAR 21	472.03	JUN 19	472.29	AUG 18	468.33		
WATER YEAR 1995		HIGHEST 468.32 DEC 20, 1994		LOWEST 472.45 APR 12, 1995					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

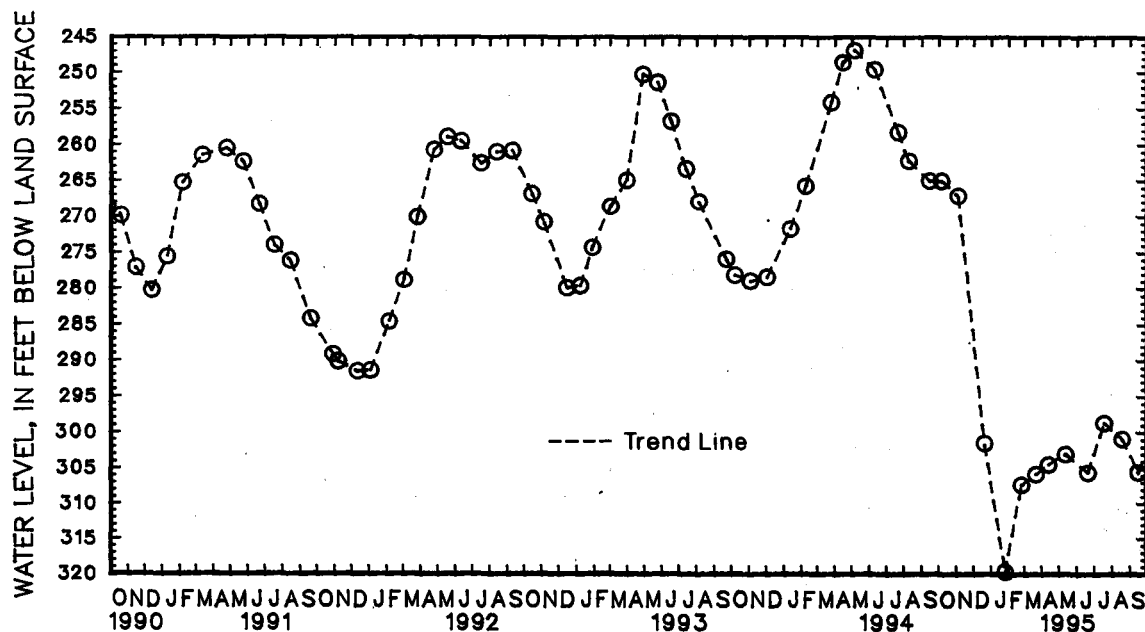
MARYLAND--Continued

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 Rd., 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; 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 2,818 ft above National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of recorder shelf, 3.9 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 current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.31 ft below land surface, Feb. 27, 1978;
lowest measured, 319.70 ft below land surface, Jan. 28, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	265.28	DEC 20	301.78	FEB 23	307.30	APR 12	304.45	JUN 19	305.65	AUG 18	300.96
NOV 3	267.34	JAN 26	319.70	MAR 21	305.79	MAY 12	303.03	JUL 18	298.68	SEP 15	305.66
WATER YEAR 1995		HIGHEST	265.28	OCT 5, 1994		LOWEST	319.70	JAN 26, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 Rd., 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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of recorder shelf, 3.3 ft above land surface.

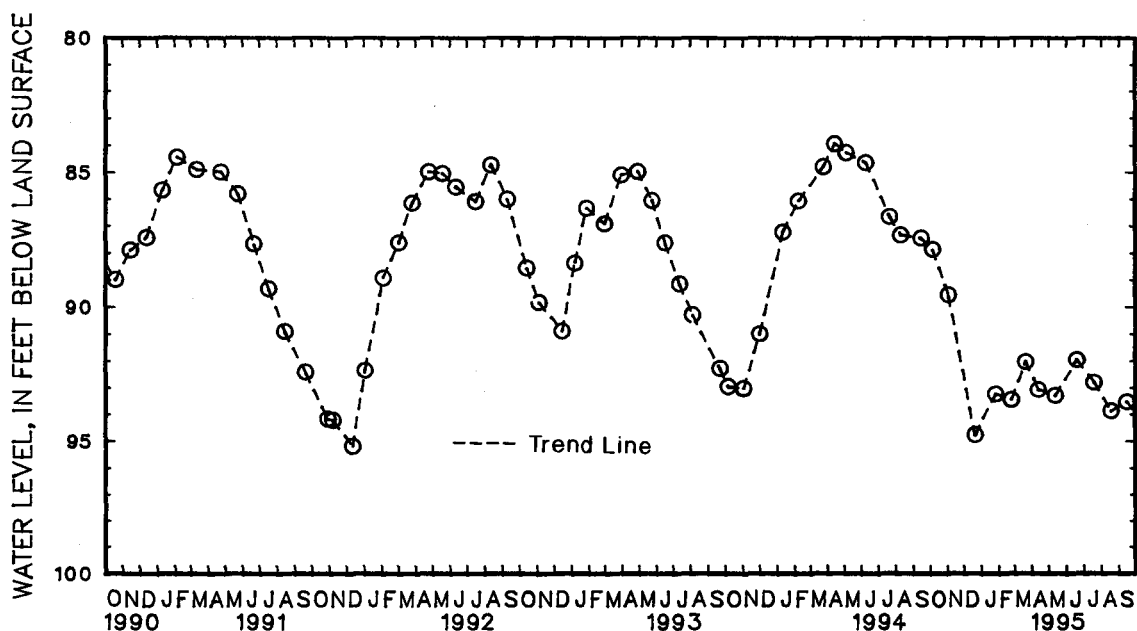
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	87.92	DEC 20	94.84	FEB 23	93.47	APR 12	93.13	JUN 19	91.99	AUG 18	93.94
NOV 3	89.63	JAN 28	93.28	MAR 21	92.05	MAY 12	93.35	JUL 18	92.85	SEP 15	93.59
WATER YEAR 1995		HIGHEST	87.92	OCT 5, 1994	LOWEST	94.84	DEC 20, 1994				



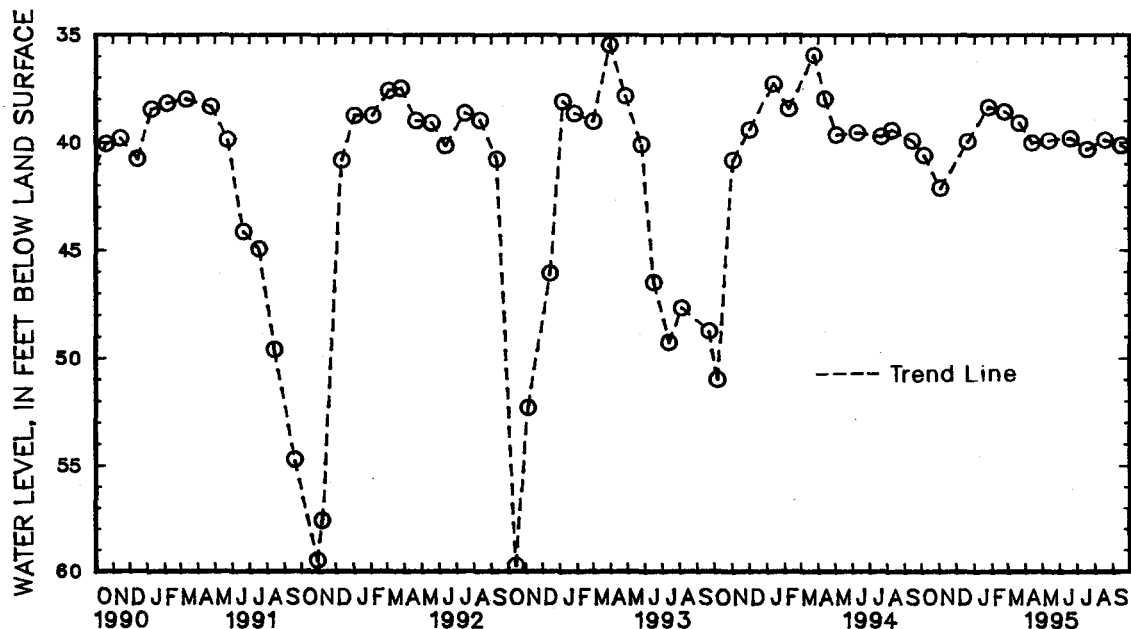
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd.,
and Dobin Rd., 3.6 mi south of Table Rock.
Owner: Curtis Glatfelter.
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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 1.0 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	40.66	DEC 20	39.97	FEB 23	38.59	APR 12	40.06	JUN 19	39.84	AUG 18	39.92
NOV 3	42.19	JAN 26	38.39	MAR 21	39.13	MAY 12	39.97	JUL 18	40.36	SEP 15	40.17
WATER YEAR 1995		HIGHEST	38.39	JAN 26, 1995		LOWEST	42.19	NOV 3, 1994			

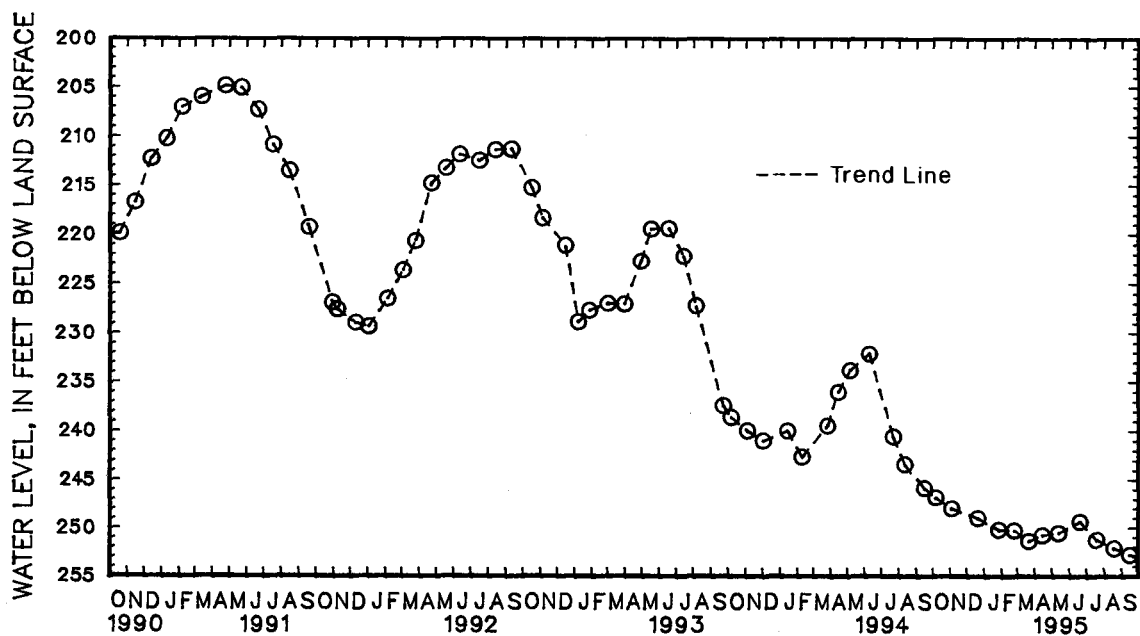


GROUND-WATER LEVELS
MARYLAND--Continued
GARRETT COUNTY--Continued

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 Rd., 500 ft west
of the intersection with Wilson-Coronna Rd., 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 National Geodetic Vertical Datum of 1929,
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, 252.83 ft below land surface, Sept. 15, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 5	246.98	DEC 20	249.08	FEB 23	250.36	APR 14	250.83	JUN 19	249.39	AUG 15	252.17	OCT 5	246.98	DEC 20	249.08
NOV 3	248.10	JAN 26	249.33	MAR 21	251.44	MAY 12	250.59	JUL 18	251.28	SEP 18	252.83	NOV 3	248.10	JAN 26	249.33
WATER YEAR 1995		HIGHEST 246.98		OCT 5, 1994		LOWEST 252.83		SEP 15, 1995							



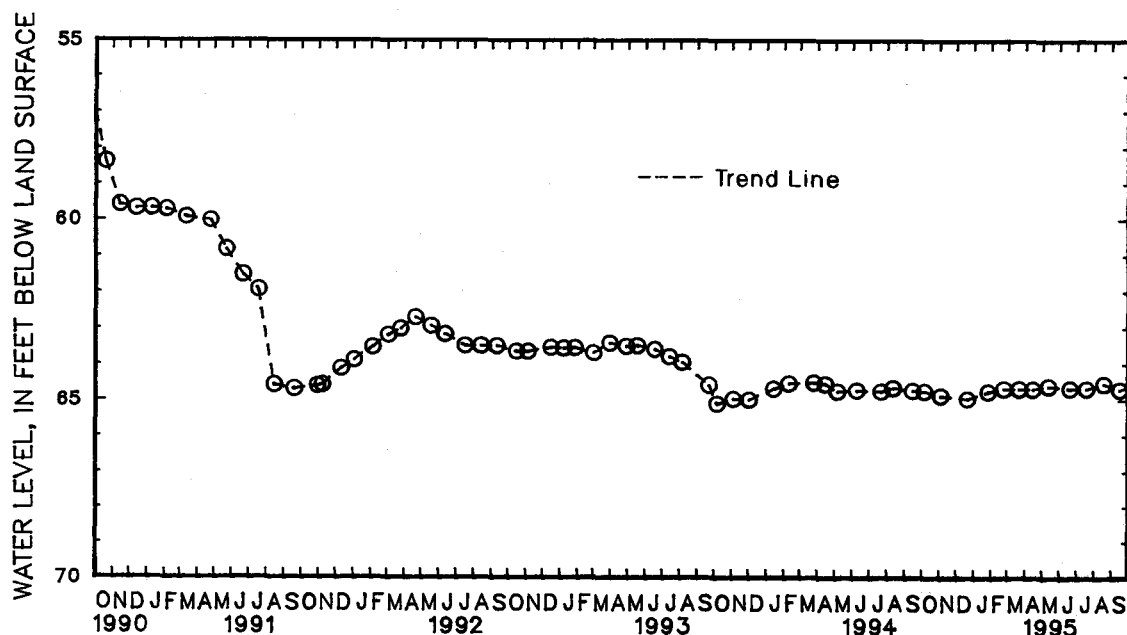
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 24. SITE ID.--381530079244403. PERMIT NUMBER.--GA-73-2177.
LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Rd., 500 ft west of the intersection with Wilson-Coronna Rd., 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 National Geodetic Vertical Datum of 1929, 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, 18.08 ft below land surface, Jan. 12, 1981; lowest measured, 92.29 ft below land surface, April 28, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	64.82	DEC 20	65.02	FEB 23	64.73	APR 14	64.74	JUN 19	64.72	AUG 18	64.59
NOV 3	64.95	JAN 26	64.82	MAR 21	64.73	MAY 12	64.67	JUL 18	64.72	SEP 15	64.75
WATER YEAR 1995		HIGHEST	64.59	AUG 18, 1995		LOWEST	65.02	DEC 20, 1994			



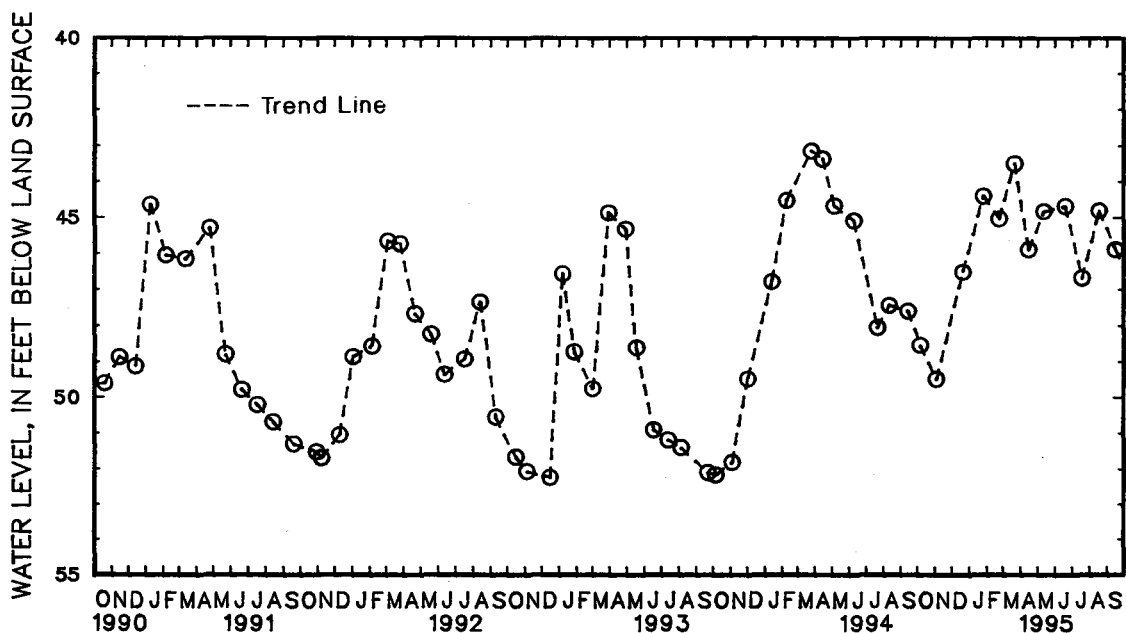
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd., 500 ft west of the intersection with Wilson-Coronna Rd., 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. 1990.
DATUM.--Elevation of land surface is 2,530 ft above National Geodetic Vertical Datum of 1929, 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, 27.89 ft below land surface, May 11, 1981; lowest measured, 54.18 ft below land surface, May 14, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	48.61	DEC 20	46.52	FEB 23	45.05	APR 14	45.93	JUN 19	44.70	AUG 18	44.82
NOV 3	49.55	JAN 26	44.41	MAR 21	43.50	MAY 12	44.85	JUL 18	46.73	SEP 15	45.92
WATER YEAR 1995		HIGHEST	43.50	MAR 21, 1995		LOWEST	49.55	NOV 3, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

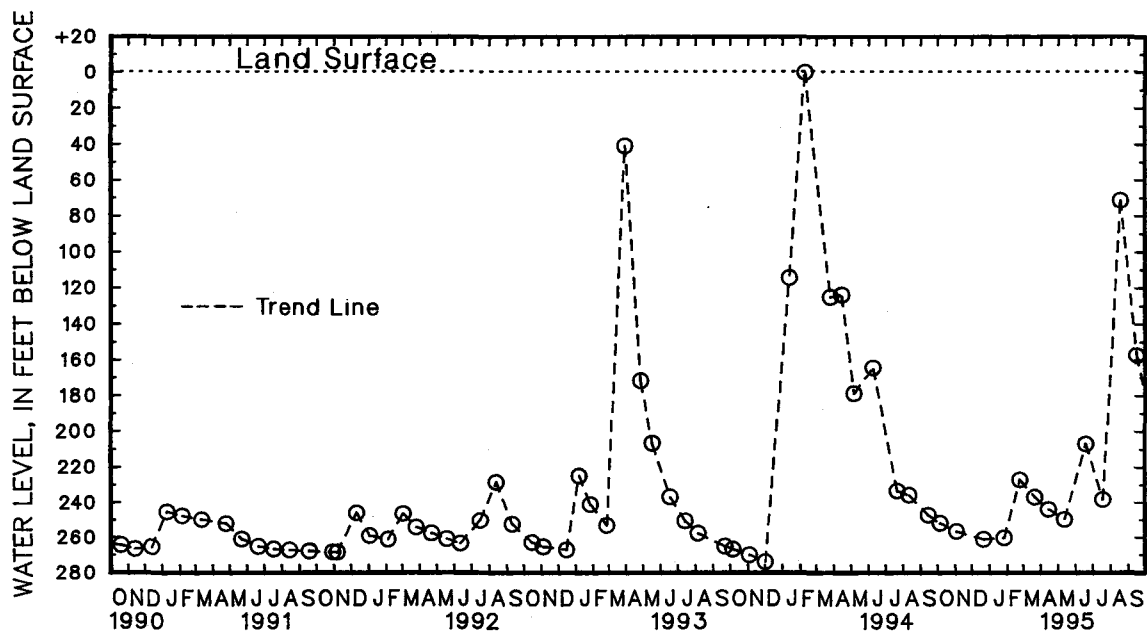
MARYLAND--Continued

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: 321CNMG.
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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 3.0 ft above land surface.
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 5	252.43	DEC 21	261.53	FEB 23	227.39	APR 14	244.22	JUN 19	207.23	AUG 18	71.42
NOV 3	257.03	JAN 26	260.58	MAR 21	237.24	MAY 12	250.04	JUL 18	238.89	SEP 15	158.89
WATER YEAR 1995		HIGHEST	71.42	AUG 18, 1995		LOWEST	261.53	DEC 21, 1994			



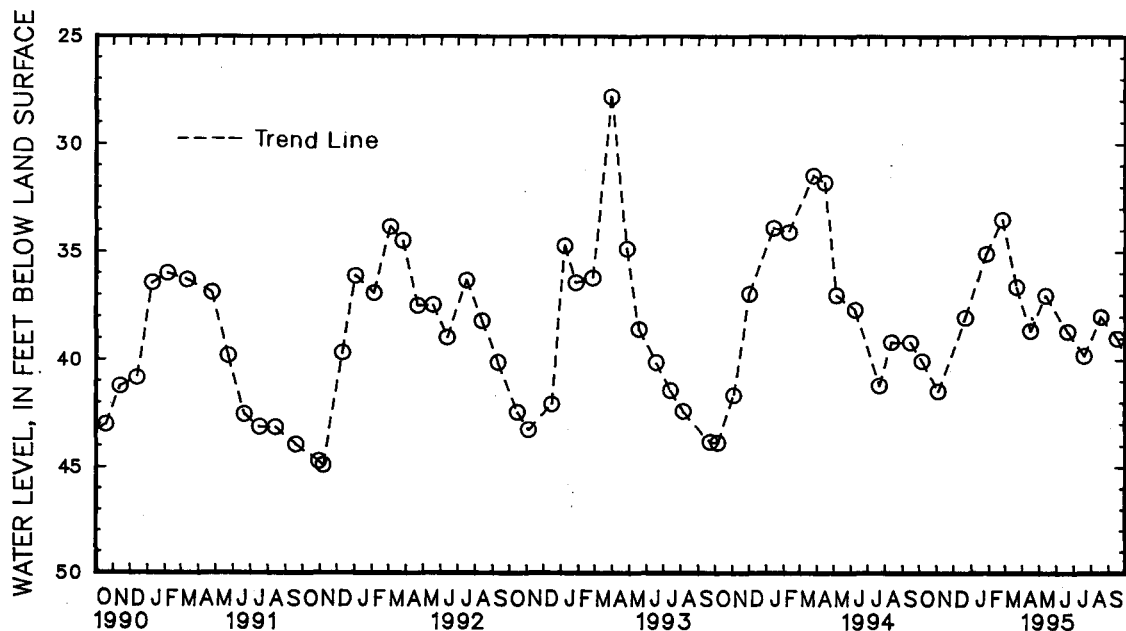
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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.
DATUM.--Elevation of land surface is 2,755 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of shelter floor, 2.0 ft above land surface.
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels affected by coal mining operations.
PERIOD OF RECORD.--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.

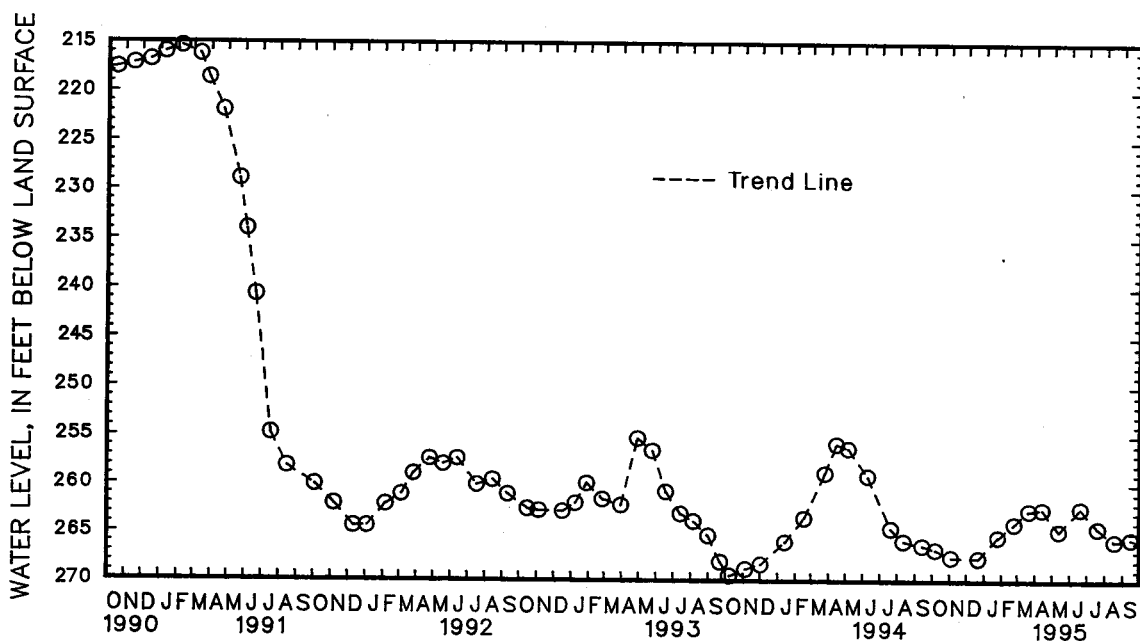
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	40.15	DEC 21	38.06	FEB 23	33.52	APR 14	38.75	JUN 19	38.78	AUG 18	38.07
NOV 3	41.57	JAN 26	35.11	MAR 21	36.70	MAY 12	37.06	JUL 18	39.93	SEP 15	39.10
WATER YEAR 1995		HIGHEST	33.52	FEB 23, 1995		LOWEST	41.57	NOV 3, 1994			



WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 6	266.79	DEC 21	267.65	FEB 23	264.04	APR 13	262.52	JUN 19	262.42	AUG 17	265.83	NOV 3	267.56	JAN 25	265.58
WATER YEAR 1995		HIGHEST 262.42		JUN 19, 1995		LOWEST 267.65		DEC 21, 1994							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

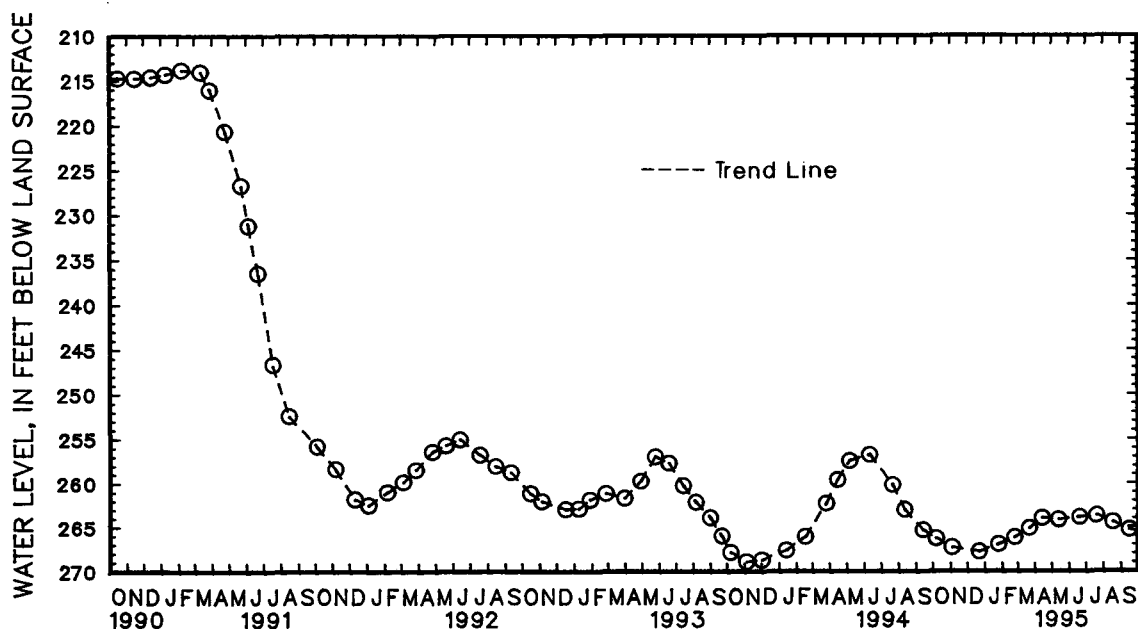
MARYLAND--Continued

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 Rd.,
 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.2 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	266.35	DEC 21	267.84	FEB 23	266.19	APR 13	263.98	JUN 19	263.87	AUG 17	264.45
NOV 3	267.35	JAN 25	266.98	MAR 21	265.14	MAY 12	264.14	JUL 19	263.66	SEP 15	265.29
WATER YEAR 1995		HIGHEST	263.66	JUL 19, 1995		LOWEST	267.84	DEC 21, 1994			



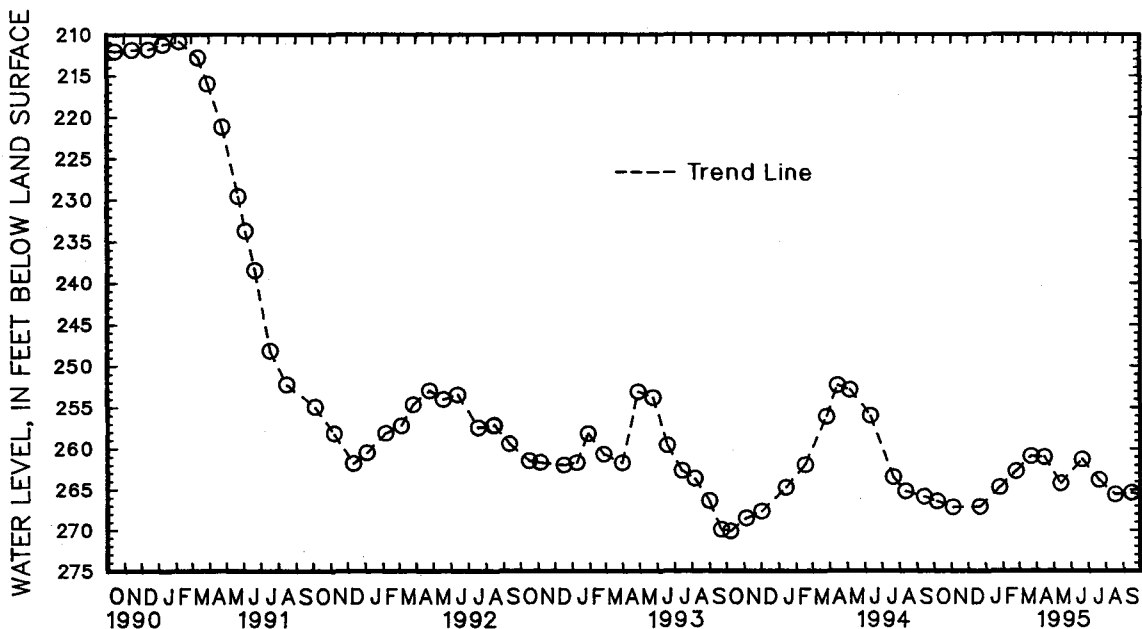
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd., 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 3.2 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	266.55	DEC 21	267.20	FEB 23	262.81	APR 13	261.07	JUN 19	261.38	AUG 17	265.70
NOV 3	267.27	JAN 25	264.81	MAR 21	260.96	MAY 12	264.34	JUL 19	263.92	SEP 15	265.48
WATER YEAR 1995		HIGHEST	260.96	MAR 21, 1995		LOWEST	267.27	NOV 3, 1994			



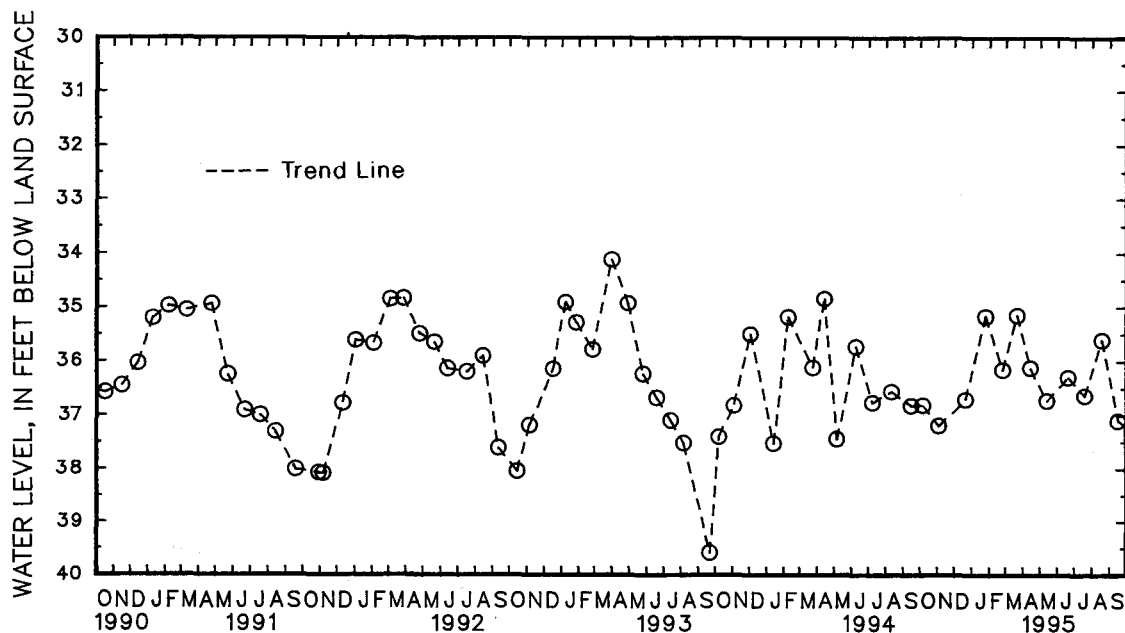
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 39. SITE ID.--391715079223105. PERMIT NUMBER.--GA-81-1344.
LOCATION.--Lat 39°17'15", long 78°22'31", Hydrologic Unit 02070002, east side of Wilson-Coronna Rd.,
0.6 mi. southwest of intersection with U.S. Route 50, 0.6 mi. southwest of Ft. Pendleton.
Owner: Mettiki Coal Corp.
AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 97 ft; casing diameter 6 in., to 42 ft;
open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 2,570 ft above National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 3.2 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 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.12 ft below land surface, March 30, 1993;
lowest measured, 39.59 ft below land surface, Sept. 21, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	36.84	DEC 20	36.72	FEB 23	36.18	APR 13	36.15	JUN 19	36.32	AUG 18	35.61
NOV 3	37.22	JAN 25	35.17	MAR 21	35.15	MAY 12	36.76	JUL 18	36.66	SEP 15	37.13
WATER YEAR 1995		HIGHEST	35.15	MAR 21, 1995		LOWEST	37.22	NOV 3, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

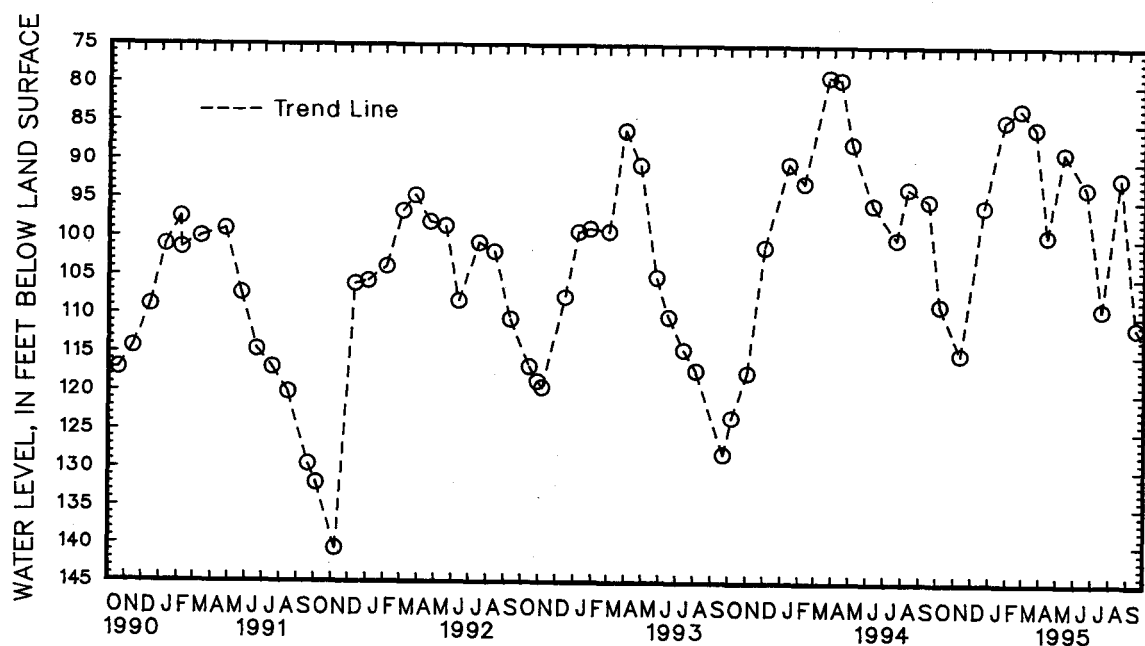
GROUND-WATER LEVELS
MARYLAND--Continued
GARRETT COUNTY--Continued

WELL NUMBER.--GA Ga 16. SITE ID.--391420079264901. PERMIT NUMBER.--GA-81-0853.
LOCATION.--Lat 39°14'20", long 79°26'49", Hydrologic Unit 02070002, east of Kempton Rd.,
100 ft north of Laurel Run, 2.8 mi southwest of Wilson.
Owner: Mettiki Coal Co.
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--80-minute recorder interval.
DATUM.--Elevation of land surface is 2,690 ft above National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of shelter floor, 3.2 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, 79.03 ft below land surface, March 24, 1994;
lowest measured, 145.05 ft below land surface, Sept. 22, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	108.87	DEC 20	95.83	FEB 23	83.12	APR 12	99.73	JUN 19	93.40	AUG 18	92.01
NOV 10	115.28	JAN 26	84.60	MAR 21	85.56	MAY 12	88.76	JUL 17	109.29	SEP 15	111.62

WATER YEAR 1995 HIGHEST 83.12 FEB 23, 1995 LOWEST 115.28 NOV 10, 1994



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of wood floor, 0.10 ft above land surface.

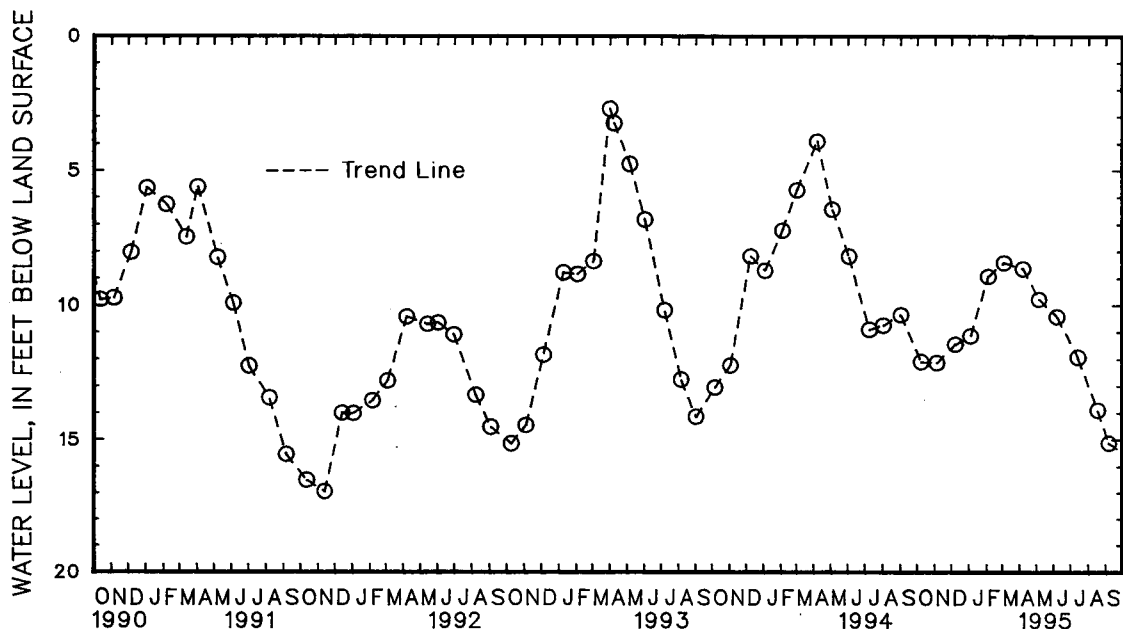
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	12.20	DEC 7	11.53	FEB 3	8.95	APR 6	8.67	JUN 6	10.50	AUG 17	13.98
NOV 4	12.23	JAN 3	11.21	MAR 3	8.44	MAY 5	9.84	JUL 13	12.03	SEP 6	15.21
WATER YEAR 1995		HIGHEST	8.44	MAR 3, 1995	LOWEST	15.21	SEP 6, 1995				



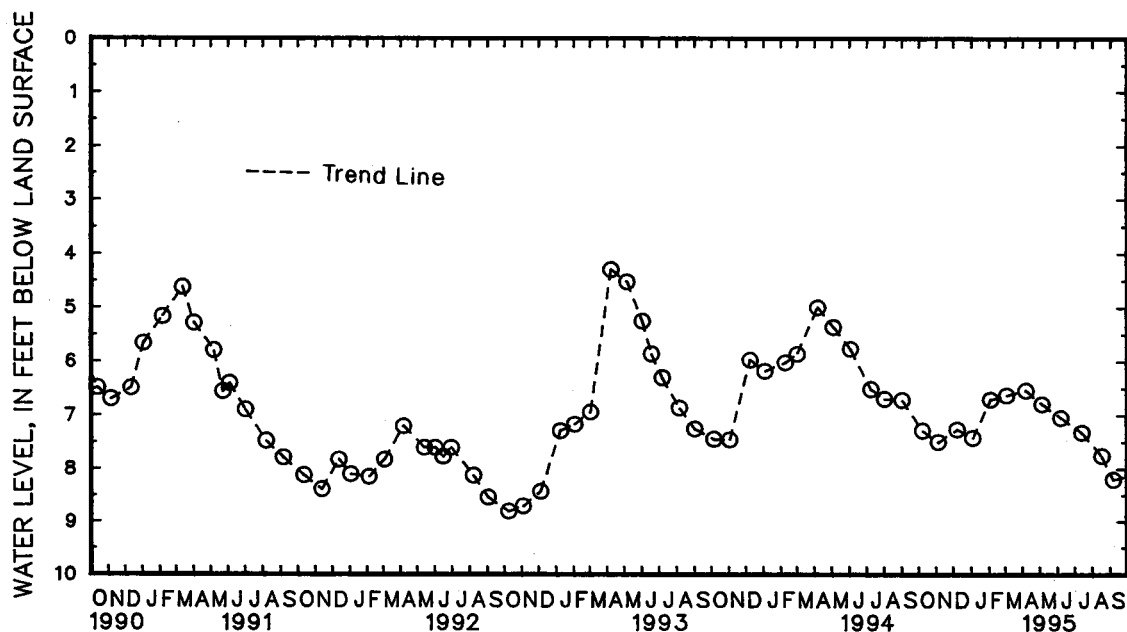
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Schist of Paleozoic age. Aquifer code: 300LCRV.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 200 ft; casing diameter 6 in., to 24 ft; open hole.
INSITUATION.--Monthly measurements with chalked steel 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 National Geodetic Vertical Datum of 1929, 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	7.32	DEC 7	7.29	FEB 3	6.72	APR 6	6.55	JUN 6	7.07	AUG 17	7.79
NOV 4	7.53	JAN 3	7.45	MAR 3	6.64	MAY 4	6.81	JUL 13	7.35	SEP 6	8.23
WATER YEAR 1995		HIGHEST		6.55		APR 6, 1995		LOWEST		8.23	
						SEP 6, 1995					



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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: 271PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 150 ft; casing diameter 4 in., to 96 ft, 106 to 120 ft, and 130 to 150 ft (?); screen diameter 4 in. from 96 to 106 ft, and 120 to 130 ft.

INSTRUMENTATION.--Twice yearly measurements with chalked steel tape 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder platform, 1.80 ft above land surface.

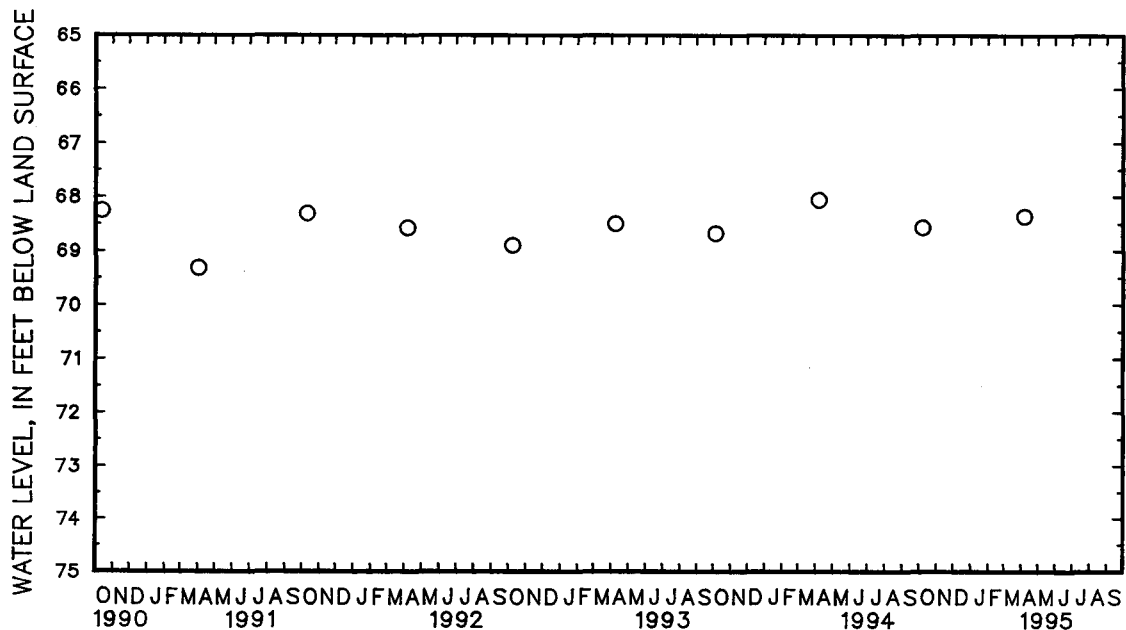
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.07 ft below land surface, April 6, 1994; lowest measured, 69.58 ft below land surface, Feb. 3, 1988

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	68.59	APR 6	68.38
WATER YEAR 1995. HIGHEST 68.38 APR 6, 1995 LOWEST 68.59 OCT 7, 1994			



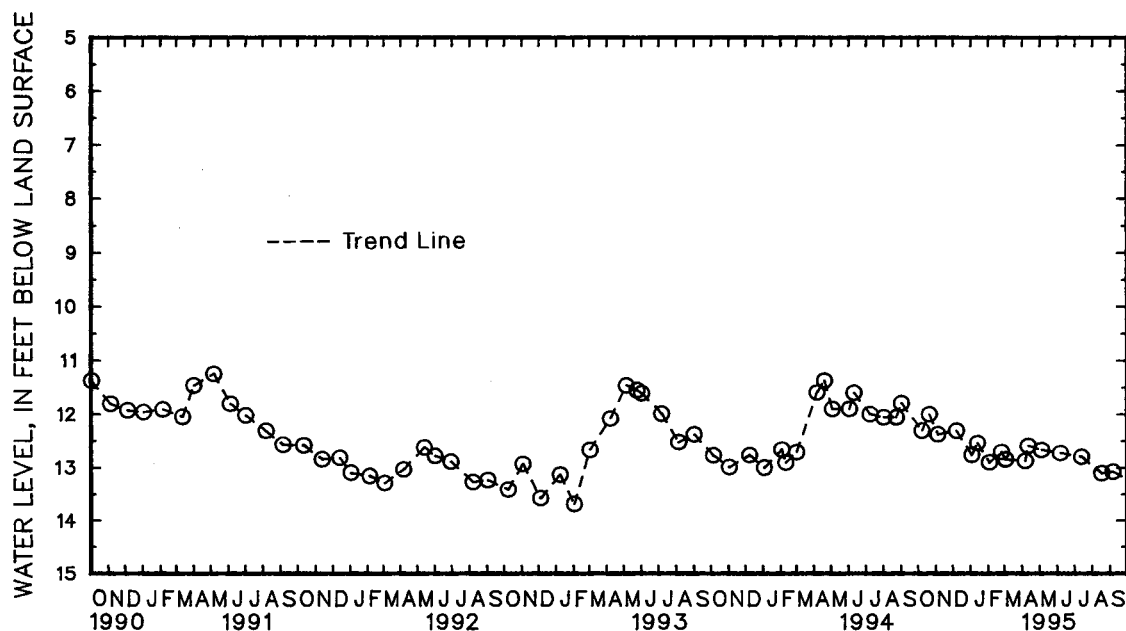
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Rds., 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 19.73 ft above National Geodetic Vertical Datum of 1929.
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, 11.15 ft below land surface, Sept. 10, 1990;
lowest measured, 13.71 ft below land surface, Feb. 2, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	12.33	DEC 7	12.33	FEB 3	12.93	APR 6	12.90	JUN 6	12.75	SEP 6	13.10
20	12.02	JAN 3	12.79	24	12.73	11	12.61	JUL 13	12.82		
NOV 4	12.40	13	12.56	MAR 3	12.87	MAY 4	12.69	AUG 17	13.13		
WATER YEAR 1995		HIGHEST	12.02	OCT 20, 1994		LOWEST	13.13	AUG 17, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 Rds., 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 20.06 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.12 ft above land surface.

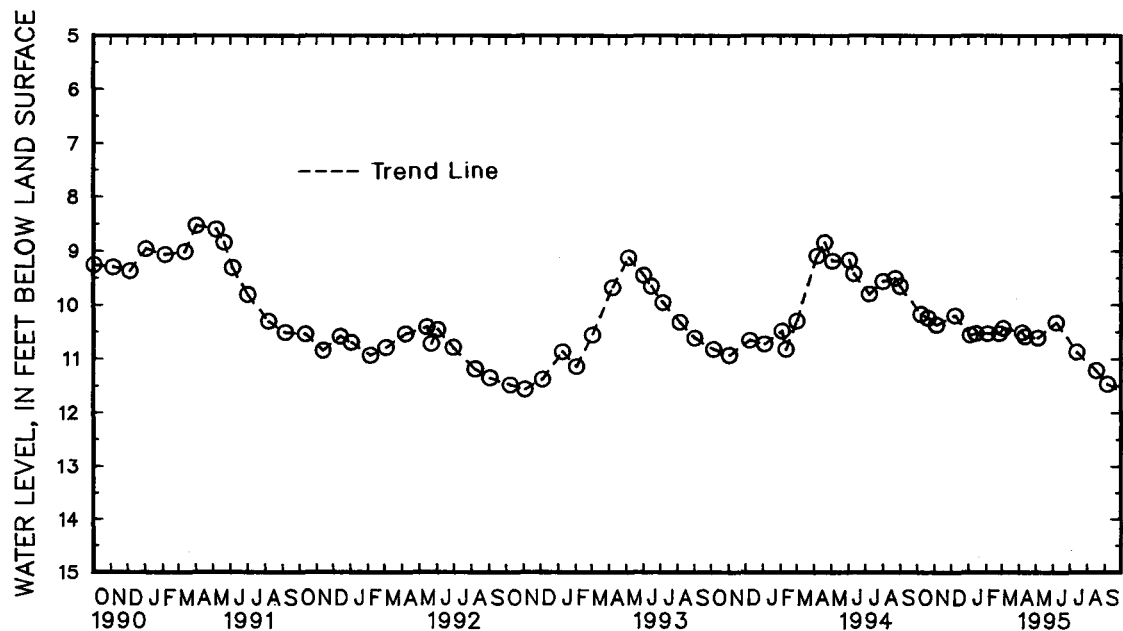
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.55 ft below land surface, April 1, 1991.
lowest measured, 12.31 ft below land surface, Jan. 17, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 7	10.21	DEC 7	10.23	FEB 3	10.57	APR 6	10.55	JUN 6	10.36	SEP 6	11.51
20	10.28	JAN 3	10.60	24	10.57	11	10.63	JUL 13	10.92		
NOV 4	10.41	13	10.57	MAR 3	10.47	MAY 4	10.65	AUG 17	11.26		
WATER YEAR 1995		HIGHEST	10.21	OCT 7, 1994		LOWEST	11.51	SEP 6, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

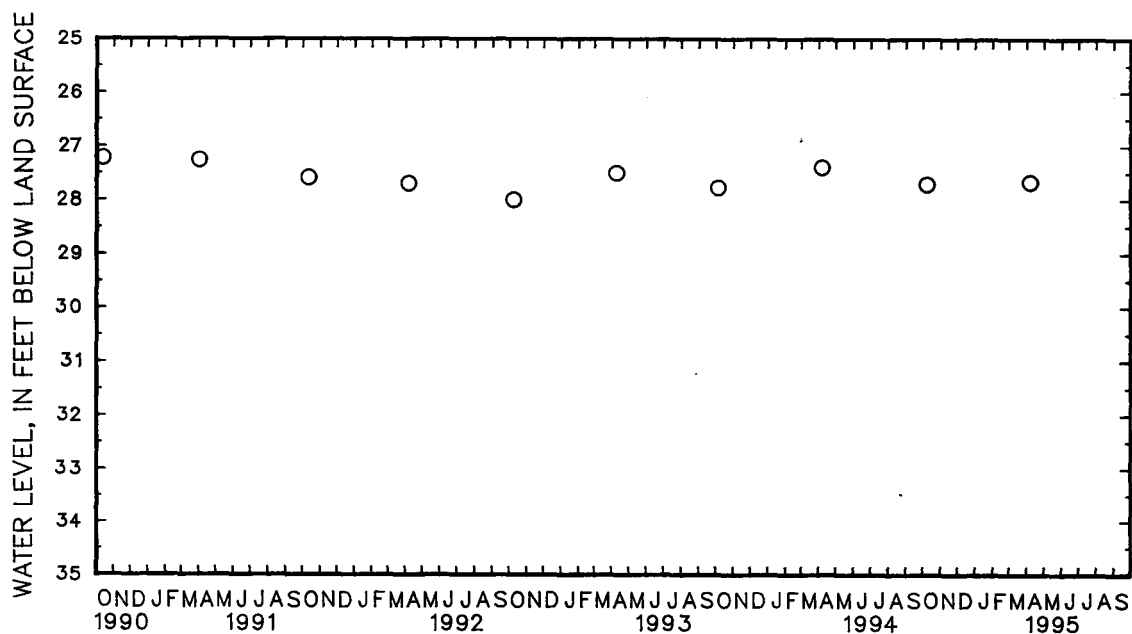
MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 106. SITE ID.--392557076161601. PERMIT NUMBER.--HA-81-4522.
 LOCATION.--Lat 39°25'57", long 76°16'16", Hydrologic Unit 02060003, 0.1 mi southeast from intersection
 with Freys and Willoughby Beach Rds, behind Willoughby Beach Swim Club, Edgewood.
 Owner: U.S. Geological Survey.
 AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation, water-table 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.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
 Measured monthly from May 1988 to July 1989.
 DATUM.--Elevation of land surface is 33.89 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.95 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--July 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.25 ft below land surface, Oct. 12, 1990;
 lowest measured, 28.90 ft below land surface, Sept. 8, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	27.73	APR 6	27.69
WATER YEAR 1995 HIGHEST 27.69 APR 6, 1995 LOWEST 27.73 OCT 7, 1994			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Metropolitan Commission.

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 chalked steel 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.65 ft above land surface.

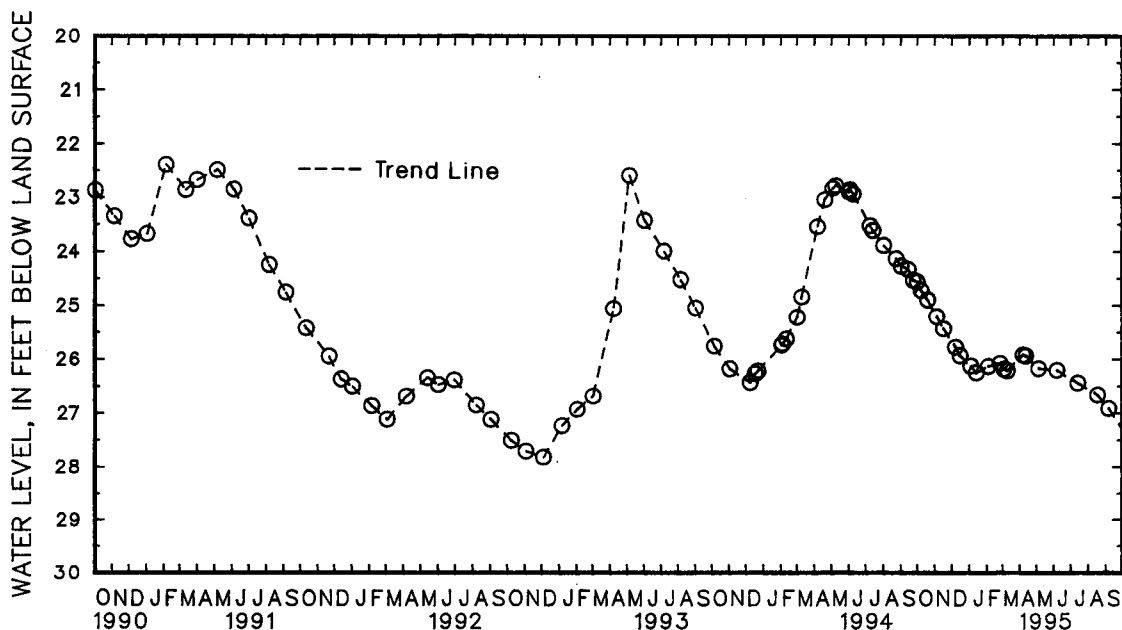
PERIOD OF RECORD.--October 1973 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	24.76	DEC 7	25.83	FEB 3	26.18	APR 6	25.96	JUL 13	26.49
19	24.94	15	25.99	24	26.12	11	25.98	AUG 17	26.71
NOV 4	25.25	JAN 3	26.18	MAR 3	26.23	MAY 4	26.22	SEP 6	26.96
16	25.48	13	26.30	9	26.26	JUN 6	26.25		

WATER YEAR 1995 HIGHEST 24.76 OCT 7, 1994 LOWEST 26.96 SEP 6, 1995



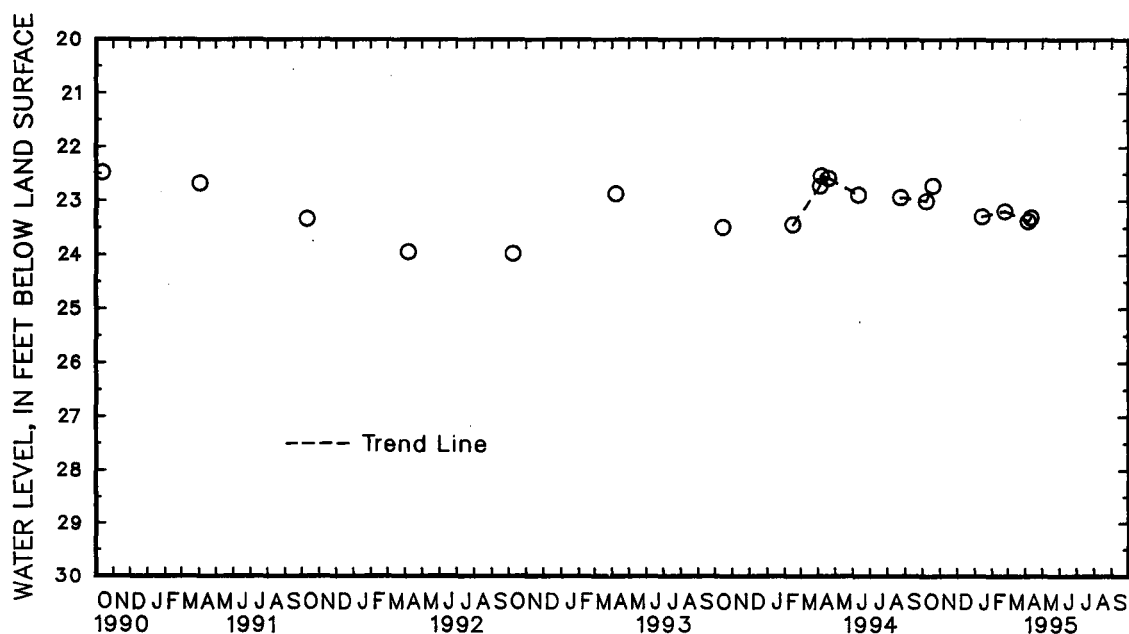
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued

WELL NUMBER.--HA De 151. SITE ID.--392628076133101. PERMIT NUMBER.--HA-81-0952.
LOCATION.--Lat 39°26'28", long 76°13'31", Hydrologic Unit 02060003, 2.1 mi. south of Perryman,
0.5 mi. west of Chelsea Rd.
Owner: Baltimore Gas & Electric.
AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 4 in., to 168 ft,
and 178 to 180 ft (?); screen diameter 4 in. from 168 to 178 ft.
INSTRUMENTATION.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel.
Equipped with digital water-level recorder--15-minute recorder interval from March 1, 1987 to July 11, 1989.
DATUM.--Elevation of land surface is 31.74 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 3.45 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--August 1986, March 1987 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.94 ft below land surface, April 18, 1990;
lowest measured, 25.00 ft below land surface, Aug. 13, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER LEVEL YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	23.03	OCT 19	22.74	JAN 13	23.31	FEB 23	23.22	APR 6	23.41	APR 11	23.34
WATER YEAR 1995		HIGHEST	22.74	OCT 19, 1994	LOWEST	23.41	APR 6, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

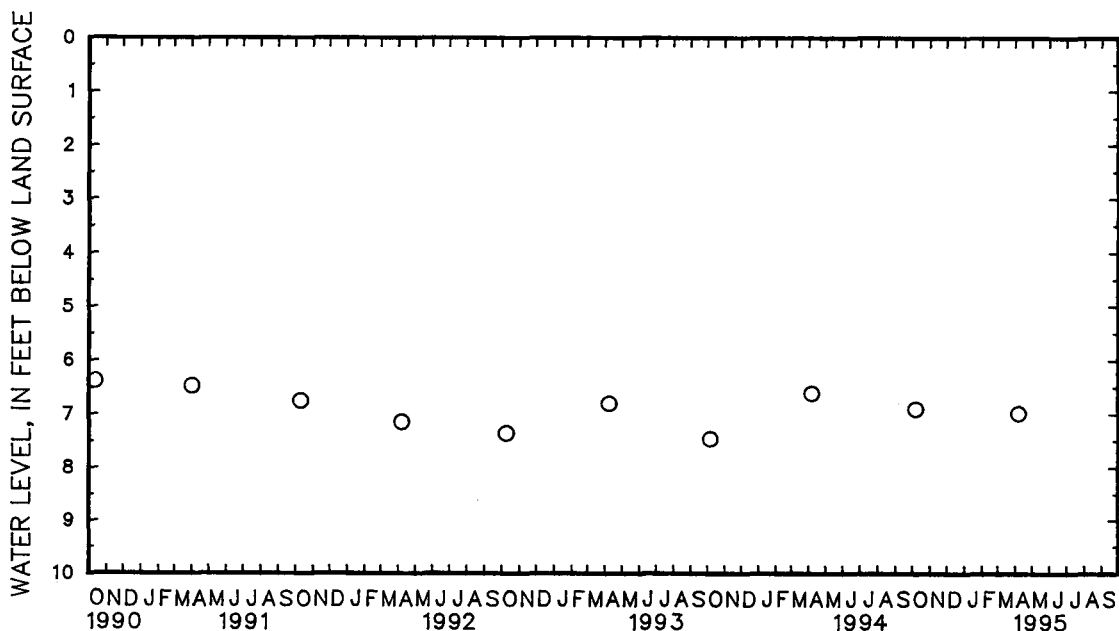
MARYLAND--Continued

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: U.S. 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 chalked steel 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 National Geodetic Vertical Datum of 1929.
 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, 6.43 ft below land surface, Oct. 12 1990;
 lowest measured, 7.93 ft below land surface, Dec. 22, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER LEVEL YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	6.93	APR 6	7.01
WATER YEAR 1995 HIGHEST 6.93 OCT 7, 1994 LOWEST 7.01 APR 6, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA D# 182. SITE ID.--392606076145802. PERMIT NUMBER.--HA-81-4135.

LOCATION. --Lat 39°26'08", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave.,
at Willoughby Beach, Crestwood.

Owner: U.S. 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 chalked steel 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.52 ft above land surface.

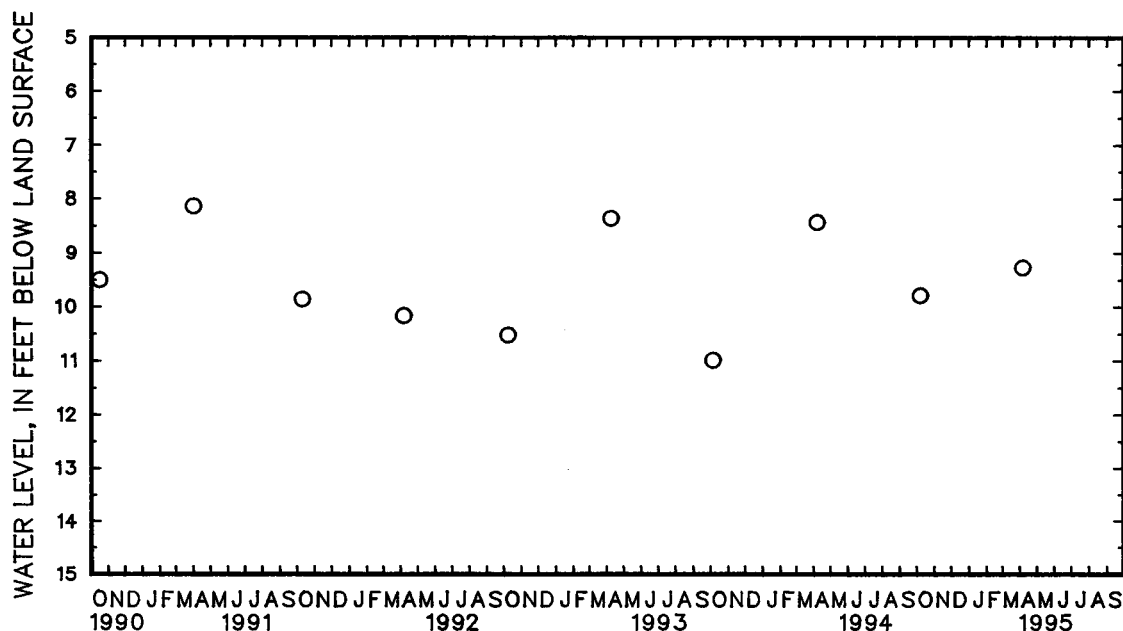
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to July 1989.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	9.82	APR 6	9.29
WATER YEAR 1995		HIGHEST	9.29 APR 6, 1995
		LOWEST	9.82 OCT 7, 1994



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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: U.S. 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 chalked steel 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.54 ft above land surface.

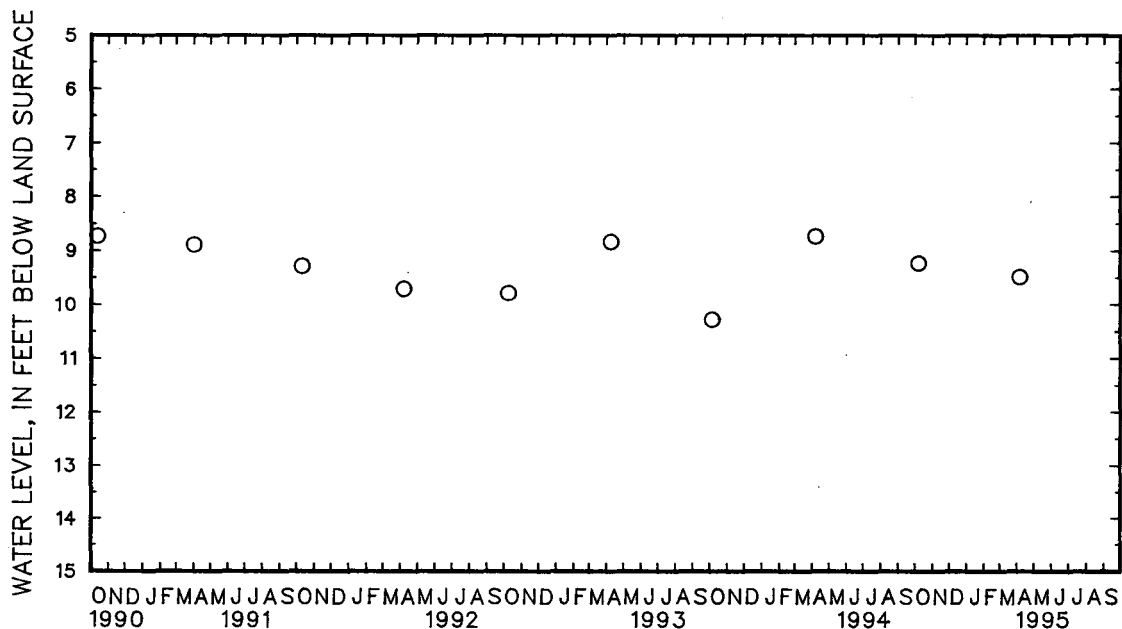
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to July 1989, April 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.75 ft below land surface, April 6, 1994; lowest measured, 10.43 ft below land surface, Nov. 3, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER OCTOBER 1994 TO SEPTEMBER 1995.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	9.26	APR 6	9.52
WATER YEAR 1995 HIGHEST 9.26 OCT 7, 1994 LOWEST 9.52 APR 6, 1995			



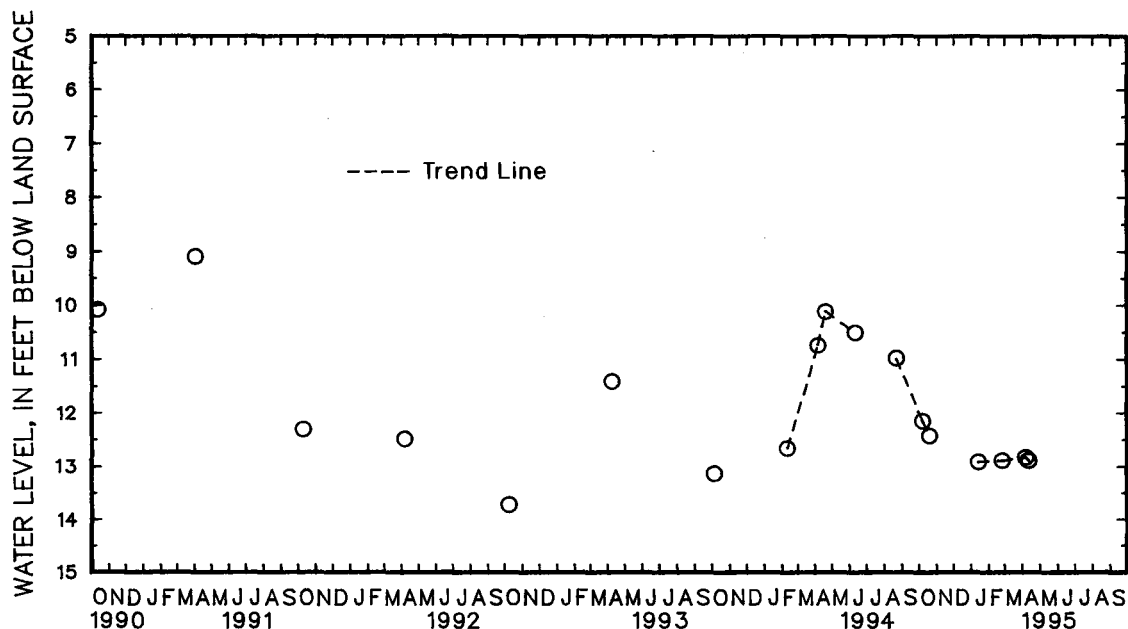
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND WATER LEVELS
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 Ferryman.
Owner: U.S. Geological Survey.
AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TBLT.
WELL CHARACTERISTICS.--Drilled, observation, artesian 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 chalked steel 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 National Geodetic Vertical Datum of 1929. Measuring point: Top of 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, 9.11 ft below land surface, April 2, 1991; lowest measured, 14.01 ft below land surface, Nov. 9, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	12.18	OCT 19	12.46	JAN 13	12.94	FEB 24	12.92	APR 6	12.86	APR 11	12.92
WATER YEAR 1995		HIGHEST	12.18	OCT 7, 1994	LOWEST	12.94	JAN 13, 1995				



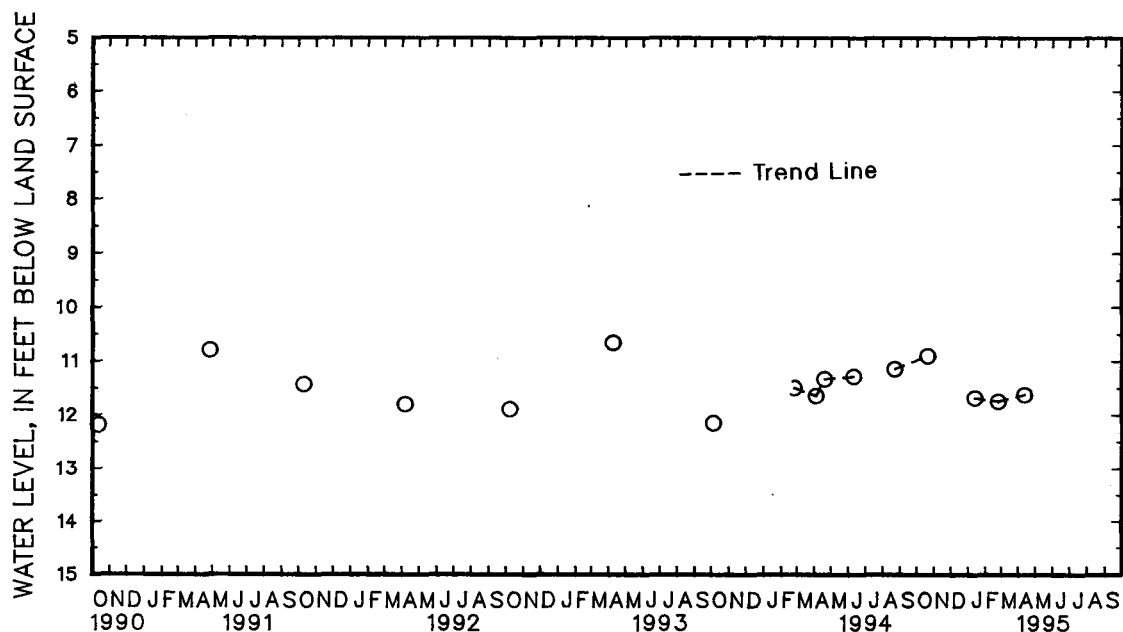
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued

WELL NUMBER.--HA De 197. SITE ID.--392819076130901. PERMIT NUMBER.--HA-81-4140.
LOCATION.--Lat 39°28'19", long 76°13'09", Hydrologic Unit 02060003, northwest end of Fords Lane, Perryman.
Owner: George and Kelly Halgren.
AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 85 ft; casing diameter 4 in., to 75 ft; screen diameter 4 in. from 75 to 85 ft.
INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from Jan. 17, 1989 to July 11, 1989.
DATUM.--Elevation of land surface is 19.08 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of casing, 1.88 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--May 1988 to July 1989.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.67 ft below land surface, April 8, 1993; lowest measured, 12.44 ft below land surface, Nov. 9, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	10.91	JAN 13	11.72	FEB 24	11.78	APR 12	11.65
WATER YEAR 1995 HIGHEST 10.91		OCT 20, 1994		LOWEST 11.78		FEB 24, 1995	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND WATER LEVELS

321

MARYLAND--Continued

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: 112TLET.
 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 chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--30-minute recorder interval from Jan. 3, 1991 to current year.
 Measured monthly from July 1988 to July 1989.
 DATUM.--Elevation of land surface is 18.92 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 1.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--May 1988 to August 1989, July 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.75 ft above sea level, April 17, 1993; lowest measured, 8.82 ft above sea level, Nov. 2 and 3, 1992.

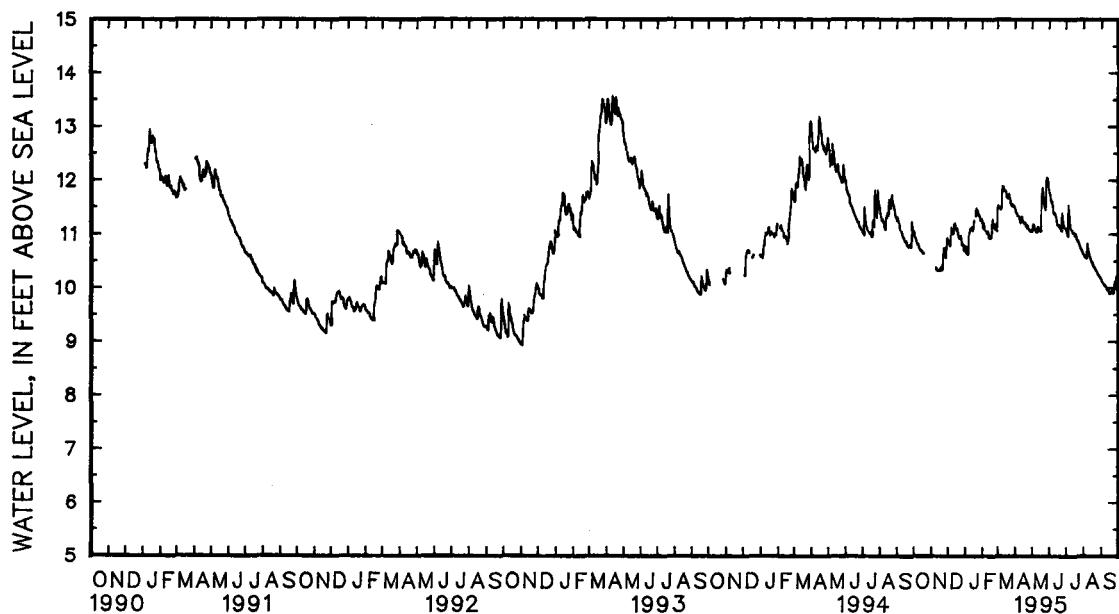
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.10	11.03	---	---	10.89	10.86	10.79	10.76	11.30	11.25	11.61	11.51
2	11.03	10.95	---	---	10.89	10.86	10.78	10.65	11.25	11.15	11.58	11.53
3	10.95	10.92	---	---	10.86	10.80	10.69	10.64	11.19	11.10	11.54	11.48
4	10.92	10.90	---	---	10.80	10.77	10.69	10.63	11.35	11.19	11.52	11.48
5	10.90	10.86	---	---	11.15	10.78	10.64	10.61	11.23	11.08	11.53	11.48
6	10.86	10.82	---	---	11.19	11.12	11.38	10.63	11.12	11.06	11.52	11.46
7	10.82	10.79	---	---	11.25	11.04	11.46	11.01	11.10	11.05	11.50	11.46
8	10.81	10.79	---	---	11.04	11.00	11.10	11.01	11.09	11.02	11.98	11.50
9	10.82	10.80	10.39	10.37	11.07	11.02	11.15	11.09	11.07	11.01	11.99	11.89
10	10.80	10.74	10.37	10.32	11.29	11.00	11.11	11.07	11.10	11.04	11.94	11.88
11	10.74	10.71	10.34	10.33	11.30	11.18	11.13	11.09	11.07	11.01	11.94	11.88
12	10.71	10.69	10.35	10.32	11.22	11.17	11.15	11.12	11.01	10.92	11.88	11.81
13	10.70	10.69	10.35	10.32	11.22	11.19	11.12	11.07	10.96	10.91	11.86	11.80
14	10.70	10.69	10.34	10.31	11.19	11.13	11.10	11.06	10.94	10.91	11.84	11.80
15	10.69	10.66	10.34	10.32	11.13	11.08	11.22	11.10	11.04	10.91	11.85	11.80
16	10.66	10.65	10.34	10.31	11.09	11.06	11.29	11.22	11.04	10.95	11.82	11.77
17	10.65	10.63	10.37	10.33	11.11	11.09	11.30	11.24	11.04	10.94	11.79	11.68
18	10.63	10.63	10.39	10.37	11.10	11.03	---	---	11.17	11.04	11.71	11.68
19	10.63	10.63	10.38	10.33	11.03	10.96	---	---	11.27	11.17	11.69	11.66
20	---	---	10.33	10.32	10.96	10.92	11.78	11.34	11.36	11.27	11.76	11.66
21	---	---	10.59	10.33	10.92	10.91	11.54	11.47	11.37	11.19	11.79	11.74
22	---	---	10.74	10.59	10.96	10.92	11.49	11.45	11.19	11.12	11.75	11.66
23	---	---	10.82	10.73	10.99	10.96	11.48	11.44	11.25	11.17	11.69	11.64
24	---	---	10.73	10.69	10.99	10.91	11.47	11.39	11.27	11.09	11.64	11.55
25	---	---	10.72	10.65	10.91	10.81	11.40	11.36	11.15	11.08	11.60	11.55
26	---	---	10.65	10.56	10.81	10.78	11.38	11.36	11.12	11.05	11.58	11.52
27	---	---	10.79	10.55	10.81	10.78	11.37	11.33	11.14	11.05	11.58	11.55
28	---	---	11.01	10.79	10.85	10.79	11.35	11.30	11.58	11.14	11.57	11.53
29	---	---	10.96	10.91	10.79	10.70	11.31	11.25	---	---	11.54	11.51
30	---	---	10.96	10.89	10.70	10.68	11.34	11.27	---	---	11.55	11.52
31	---	---	---	---	10.76	10.68	11.32	11.27	---	---	11.53	11.49
MONTH	11.10	10.63	11.01	10.31	11.30	10.68	11.78	10.61	11.58	10.91	11.99	11.46

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued
HA De 198--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.50	11.47	11.09	11.08	11.82	11.77	11.09	11.06	10.62	10.61	10.16	10.13
2	11.47	11.42	11.17	11.08	11.77	11.74	11.06	11.01	10.61	10.58	10.13	10.10
3	11.50	11.39	11.21	11.17	11.74	11.69	11.01	10.97	10.58	10.56	10.10	10.08
4	11.54	11.38	11.19	11.15	11.69	11.60	11.60	10.95	10.57	10.55	10.08	10.06
5	11.39	11.34	11.18	11.13	11.62	11.58	11.70	11.53	10.56	10.54	10.07	10.05
6	11.43	11.34	11.13	11.07	11.62	11.60	11.59	11.42	10.96	10.54	10.06	10.04
7	11.42	11.33	11.10	11.06	11.63	11.52	11.42	11.32	10.96	10.82	10.04	10.03
8	11.41	11.32	11.06	11.03	11.52	11.41	11.32	11.19	10.82	10.71	10.03	10.01
9	11.41	11.27	11.06	11.03	11.41	11.37	11.19	11.13	10.71	10.66	10.01	10.00
10	11.27	11.22	11.11	11.05	11.39	11.37	11.13	11.08	10.66	10.61	10.00	9.96
11	11.23	11.20	11.19	11.11	11.41	11.38	11.09	11.06	10.61	10.57	9.97	9.95
12	11.37	11.23	11.18	11.13	11.41	11.34	11.06	11.02	10.57	10.55	9.95	9.95
13	11.38	11.32	11.13	11.06	11.34	11.30	11.05	11.02	10.55	10.51	9.95	9.94
14	11.32	11.25	11.12	11.06	11.30	11.24	11.05	11.02	10.51	10.48	9.94	9.91
15	11.28	11.23	11.11	11.07	11.24	11.18	11.02	10.98	10.48	10.46	9.91	9.88
16	11.25	11.21	11.08	11.05	11.18	11.16	11.03	10.96	10.46	10.45	9.90	9.88
17	11.21	11.19	12.64	11.07	11.17	11.15	11.03	11.00	10.45	10.42	10.04	9.90
18	11.22	11.18	11.83	11.64	11.17	11.15	11.01	10.95	10.43	10.39	10.01	9.93
19	11.26	11.20	12.08	11.83	11.19	11.16	10.95	10.90	10.39	10.37	9.93	9.91
20	11.20	11.15	12.04	11.86	11.17	11.12	10.90	10.88	10.38	10.37	9.91	9.90
21	11.23	11.16	11.86	11.71	11.12	11.07	10.89	10.86	10.37	10.35	9.90	9.89
22	11.19	11.11	11.71	11.56	11.07	11.06	10.86	10.85	10.35	10.31	10.03	9.89
23	11.16	11.10	11.56	11.51	11.41	11.05	10.85	10.82	10.31	10.30	10.19	10.03
24	11.18	11.14	11.54	11.49	11.50	11.39	10.82	10.79	10.30	10.28	10.18	10.10
25	11.14	11.07	12.14	11.45	11.39	11.31	10.79	10.76	10.28	10.25	10.11	10.07
26	11.08	11.05	12.24	11.99	11.31	11.20	10.77	10.73	10.25	10.24	10.24	10.11
27	11.13	11.07	12.20	12.05	11.20	11.13	10.73	10.71	10.24	10.22	10.24	10.20
28	11.11	11.05	12.05	12.00	11.13	11.12	10.71	10.69	10.22	10.20	10.20	10.11
29	11.06	11.04	12.11	12.03	11.12	11.10	10.69	10.67	10.20	10.19	10.11	10.05
30	11.08	11.04	12.03	11.88	11.10	11.09	10.67	10.64	10.19	10.17	10.05	10.02
31	---	---	11.88	11.82	---	---	10.64	10.62	10.17	10.16	---	---
MONTH	11.54	11.04	12.64	11.03	11.82	11.05	11.70	10.62	10.96	10.16	10.24	9.88
YEAR	12.64	9.88										

Daily Low Water Levels



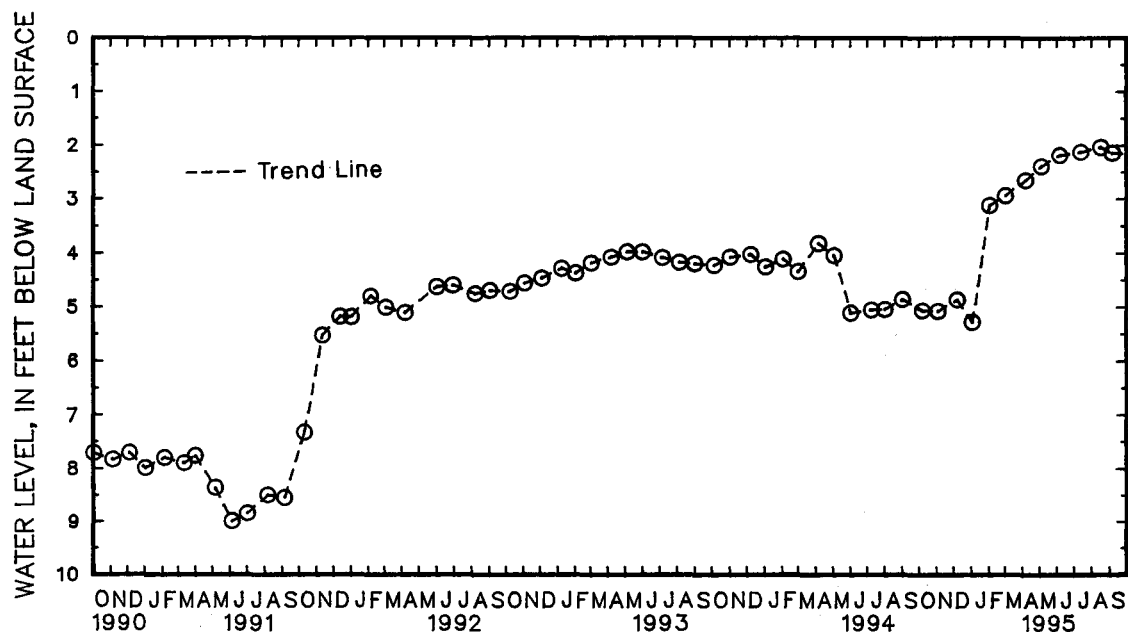
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 Rd., Joppatowne.
Owner: Joppatowne Utilities Corp.
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 chalked steel tape by U.S. Geological Survey personnel. Equipped with water-level recorder from May 23, 1982 to Dec. 17, 1983.
DATUM.--Elevation of land surface is 11.7 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 3.50 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--May 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, at land surface, May 24, 1962; lowest measured, 12.80 ft below land surface, May 26, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	5.09	DEC 7	4.88	FEB 3	3.12	APR 6	2.65	JUN 6	2.18	AUG 17	2.03
NOV 4	5.10	JAN 3	5.31	MAR 3	2.94	MAY 4	2.39	JUL 13	2.12	SEP 6	2.14
WATER YEAR 1995		HIGHEST	2.03	AUG 17, 1995		LOWEST	5.31	JAN 3, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

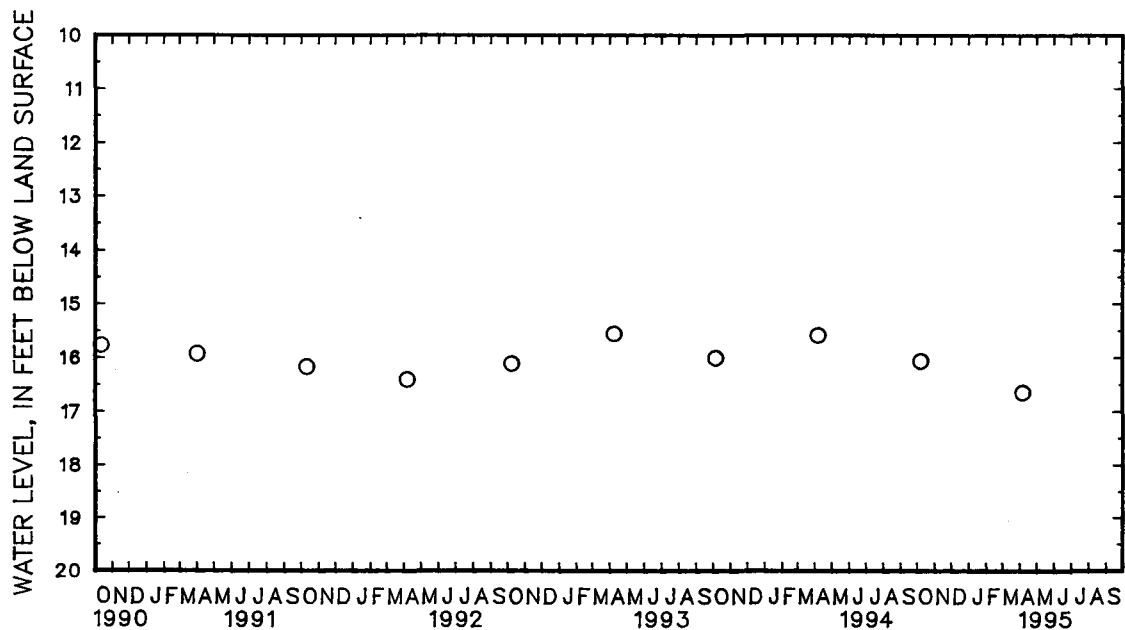
MARYLAND--Continued

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. in boat launch park, near Joppatowne.
 Owner: U.S. 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.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel. Measured monthly from May 1988 to July 1989.
 DATUM.--Elevation of land surface is 23.16 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.17 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, 15.58 ft below land surface, April 8, 1993; lowest measured, 16.76 ft below land surface, Feb. 23, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	16.10	APR 6	16.69
WATER YEAR 1995 HIGHEST 16.10 OCT 7, 1994 LOWEST 16.69 APR 6, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

325

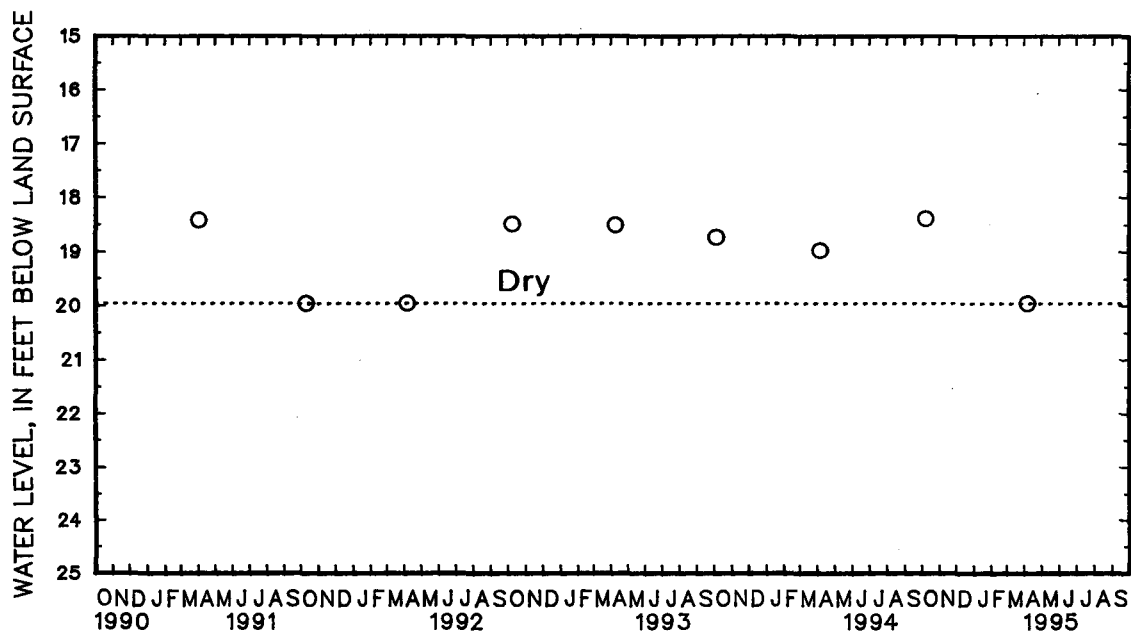
MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ec 47. SITE ID.--392408076210102. PERMIT NUMBER.--HA-81-4125.
 LOCATION.--Lat 39°24'08", long 76°21'01", Hydrologic Unit 02060003, in park on Kearney Dr., Joppatowne.
 Owner: U.S. Geological Survey.
 AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation well, depth 20 ft; casing diameter 4 in., to 3 ft,
 and 13 to 20 ft; screen diameter 4 in. from 3 to 13 ft.
 INSTRUMENTATION.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel.
 Measured monthly from May 1988 to June 1989.
 DATUM.--Elevation of land surface is 23.30 ft above National Geodetic Vertical Datum of 1929,
 from topographic map.
 Measuring point: Top of casing, 2.15 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, 18.16 ft below land surface, July 14, 1988;
 lowest measured, dry, on April 4, 1990, Oct. 10, 1991, April 6, 1992, and April 6, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	18.40	APR 6	DRY
WATER YEAR 1995 HIGHEST 18.40 OCT 7, 1994 LOWEST 18.40 OCT 7, 1994			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

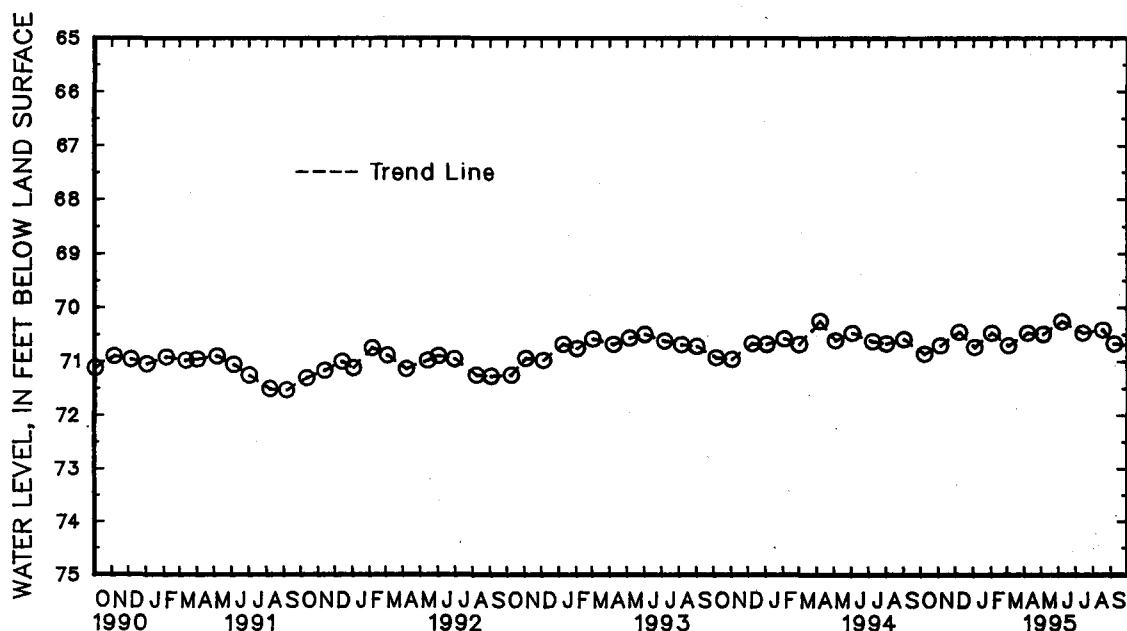
MARYLAND--Continued

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 Rd., Edgewood Park.
Owner: U.S. 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 90.50 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 2.36 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, 70.26 ft below land surface, April 6, 1994;
lowest measured, 72.02 ft below land surface, Nov. 9, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 7	70.89	DEC 7	70.47	FEB 2	70.49	APR 6	70.49	JUN 6	70.27	AUG 17	70.43
NOV 4	70.73	JAN 3	70.76	MAR 3	70.73	MAY 4	70.51	JUL 13	70.49	SEP 6	70.70
WATER YEAR 1995		HIGHEST	70.27	JUN 6, 1995		LOWEST	70.89	OCT 7, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

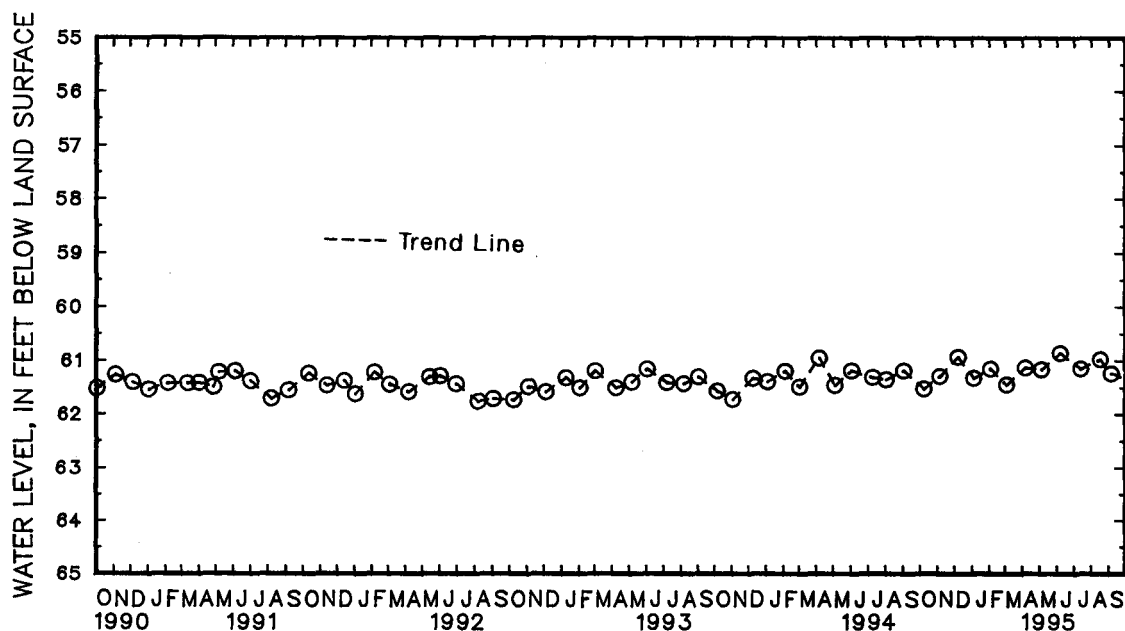
MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 48. SITE ID.--392455076192102. PERMIT NUMBER.--HA-81-4178.
 LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of intersection of MD Rt. 152 and Trimble Rd., Edgewood Park.
 Owner: U.S. 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 chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 91.20 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of PVC casing, 2.58 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, 60.65 ft below land surface, May 4, 1990;
 lowest measured, 63.00 ft below land surface, May 12, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	61.56	DEC 7	60.95	FEB 2	61.18	APR 6	61.16	JUN 6	60.88	AUG 17	61.00
NOV 4	61.32	JAN 3	61.36	MAR 3	61.48	MAY 4	61.19	JUL 13	61.18	SEP 6	61.27
WATER YEAR 1995		HIGHEST	60.88	JUN 6, 1995		LOWEST	61.56	OCT 7, 1994			



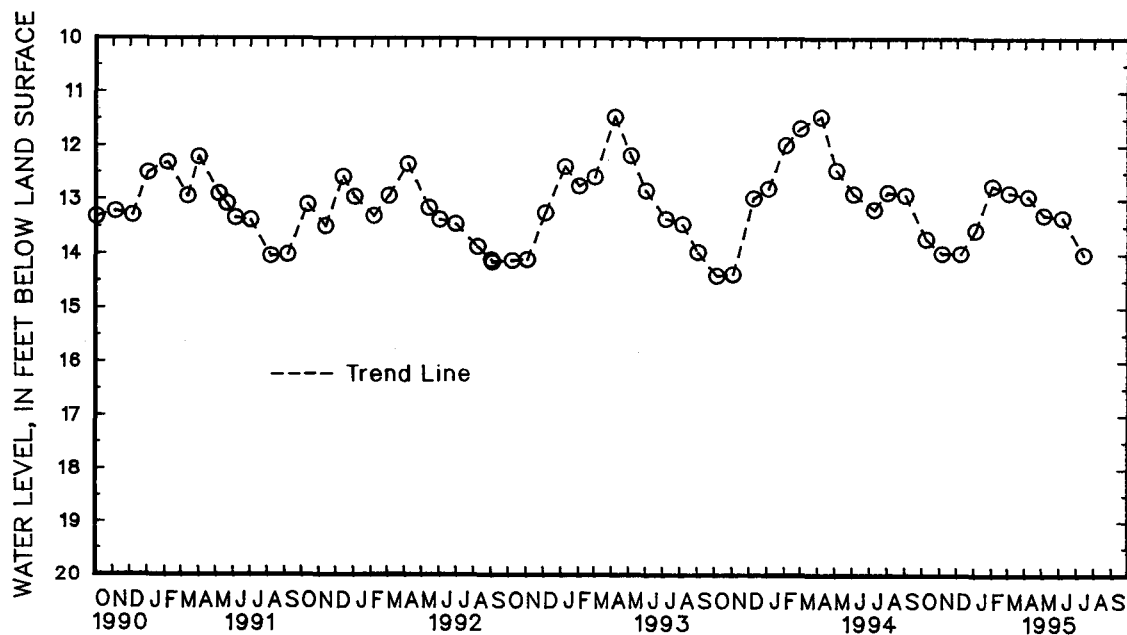
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 Rd., Edgewood Park.
Owner: U.S. 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 chalked steel 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 National Geodetic Vertical Datum of 1929.
Measuring point: Top of recorder shelf, 2.19 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Well vandalized with debris and plugged.
PERIOD OF RECORD.--May 1988 to July 1995.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.46 ft below land surface, April 6, 1994; lowest measured, 14.44 ft below land surface, Oct. 5, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	13.75	DEC 7	14.02	FEB 2	12.75	APR 6	12.95	JUN 6	13.35
NOV 4	14.02	JAN 3	13.58	MAR 3	12.88	MAY 4	13.30	JUL 13	14.04
WATER YEAR 1995		HIGHEST	12.75	FEB 2, 1995	LOWEST	14.04	JUL 13, 1995		



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 6. SITE ID.--391817076173701

LOCATION.--Lat 39°18'11", long 76°17'39", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 21 ft; casing diameter 4 in., to 6 ft; green diameter 4 in. from 6 to 21 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Nov. 16, 1987 to current year.

DATUM.--Elevation of land surface is 9.76 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.68 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well TH6. Missing data due to recorder malfunction.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.03 ft above sea level, Jan. 12, 1991; lowest measured, 2.22 ft below sea level, July 21 to 25, 1992.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(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	---	---	1.81	1.79	2.22	2.16	2.73	2.71	4.36	4.31	4.42	4.29
2	---	---	1.80	1.77	2.30	2.22	2.73	2.67	4.32	4.21	4.47	4.42
3	---	---	1.77	1.76	2.36	2.30	2.68	2.66	4.24	4.17	4.52	4.47
4	---	---	1.77	1.76	2.40	2.36	2.68	2.65	4.36	4.24	4.55	4.52
5	---	---	1.76	1.75	2.44	2.40	2.66	2.64	4.24	4.09	4.59	4.55
6	---	---	1.75	1.74	2.50	2.44	2.75	2.66	4.12	4.05	4.61	4.58
7	---	---	1.75	1.74	2.54	2.50	2.89	2.75	4.07	4.03	4.63	4.58
8	---	---	1.75	1.74	2.56	2.54	2.94	2.89	4.05	3.95	5.01	4.62
9	---	---	1.74	1.72	2.56	2.55	2.98	2.94	3.98	3.94	5.51	5.01
10	---	---	1.73	1.72	---	---	3.02	2.97	3.98	3.93	5.52	5.45
11	---	---	1.77	1.73	---	---	3.06	3.02	3.94	3.88	5.57	5.52
12	---	---	1.74	1.72	---	---	3.09	3.06	3.88	3.79	5.53	5.48
13	---	---	1.74	1.71	---	---	3.11	3.09	3.82	3.78	5.53	5.47
14	---	---	1.73	1.71	---	---	3.15	3.11	3.80	3.76	5.51	5.46
15	2.00	1.97	1.73	1.71	---	---	3.19	3.15	3.87	3.75	5.50	5.45
16	1.97	1.96	1.71	1.70	---	---	3.20	3.18	3.86	3.77	5.46	5.38
17	1.96	1.94	1.75	1.70	---	---	3.22	3.20	3.80	3.76	5.38	5.24
18	1.95	1.93	1.79	1.75	---	---	3.25	3.22	3.89	3.80	5.25	5.20
19	1.93	1.91	1.78	1.76	---	---	3.31	3.25	3.99	3.89	5.20	5.12
20	1.91	1.89	1.78	1.77	---	---	4.51	3.31	4.10	3.99	5.21	5.12
21	1.90	1.88	1.79	1.77	2.63	2.60	4.36	4.28	4.11	4.02	5.24	5.14
22	1.88	1.87	1.82	1.79	2.66	2.63	4.33	4.28	4.02	3.98	5.16	5.03
23	1.87	1.86	1.83	1.81	2.69	2.66	4.40	4.33	4.11	4.02	5.05	4.97
24	1.86	1.85	1.86	1.82	2.70	2.68	4.42	4.39	4.13	3.99	4.97	4.84
25	1.85	1.85	1.91	1.86	2.68	2.67	4.42	4.39	4.05	3.98	4.85	4.79
26	1.86	1.84	1.98	1.91	2.68	2.67	4.42	4.40	4.02	3.94	4.79	4.74
27	1.89	1.84	2.01	1.98	2.70	2.68	4.42	4.39	4.01	3.94	4.76	4.71
28	1.84	1.81	2.02	1.98	2.72	2.70	4.42	4.37	4.29	4.01	4.72	4.66
29	1.82	1.81	2.07	2.02	2.70	2.67	4.38	4.33	---	---	4.66	4.62
30	1.82	1.81	2.16	2.07	2.67	2.66	4.39	4.33	---	---	4.63	4.58
31	1.82	1.79	---	---	2.72	2.67	4.36	4.32	---	---	4.59	4.53
MONTH	2.00	1.79	2.16	1.70	2.72	2.16	4.51	2.64	4.36	3.75	5.57	4.29

GROUND-WATER LEVELS

331

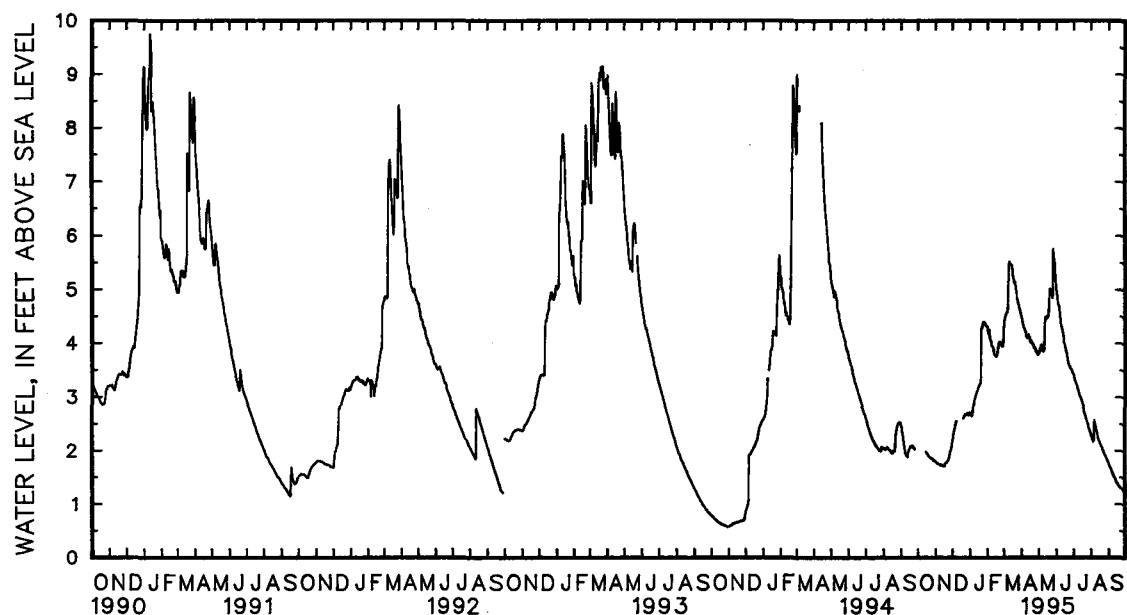
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 6--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.53	4.49	3.83	3.80	5.12	5.00	3.43	3.40	2.33	2.30	1.78	1.75
2	4.49	4.42	3.92	3.82	5.00	4.92	3.40	3.35	2.30	2.28	1.75	1.72
3	4.48	4.39	3.93	3.91	4.93	4.84	3.35	3.30	2.26	2.23	1.72	1.69
4	4.51	4.33	3.97	3.93	4.85	4.73	3.30	3.28	2.23	2.20	1.69	1.67
5	4.34	4.29	4.00	3.97	4.73	4.69	3.28	3.25	2.20	2.18	1.68	1.65
6	4.36	4.28	3.97	3.92	4.69	4.67	3.25	3.22	2.78	2.17	1.65	1.63
7	4.34	4.23	3.95	3.90	4.67	4.54	3.23	3.20	2.72	2.57	1.63	1.60
8	4.30	4.22	3.90	3.85	4.54	4.40	3.20	3.15	2.57	2.51	1.60	1.58
9	4.28	4.14	3.87	3.84	4.40	4.33	3.15	3.12	2.51	2.46	1.58	1.55
10	4.14	4.10	4.11	3.86	4.34	4.30	3.12	3.09	2.46	2.41	1.55	1.52
11	4.11	4.09	4.56	4.11	4.30	4.25	3.09	3.04	2.41	2.37	1.52	1.50
12	4.21	4.11	4.51	4.49	4.27	4.20	3.04	3.01	2.37	2.32	1.50	1.48
13	4.21	4.16	4.49	4.45	4.21	4.14	3.01	2.98	2.32	2.26	1.48	1.46
14	4.17	4.11	4.52	4.45	4.14	4.00	2.99	2.96	2.26	2.21	1.46	1.43
15	4.15	4.10	4.52	4.50	4.06	3.98	2.96	2.92	2.21	2.18	1.43	1.40
16	4.12	4.01	4.50	4.48	3.98	3.93	2.92	2.89	2.18	2.16	1.40	1.38
17	4.07	4.05	4.57	4.50	3.93	3.88	2.89	2.86	2.16	2.14	1.39	1.38
18	4.07	4.03	4.74	4.57	3.88	3.84	2.87	2.83	2.14	2.11	1.38	1.35
19	4.09	4.01	5.07	4.73	3.84	3.80	2.83	2.79	2.11	2.08	1.35	1.33
20	4.01	3.98	5.09	5.01	3.80	3.73	2.79	2.72	2.08	2.06	1.33	1.32
21	4.04	3.98	5.08	5.01	3.73	3.66	2.72	2.69	2.06	2.04	1.32	1.30
22	3.99	3.92	5.06	4.98	3.66	3.61	2.69	2.65	2.04	2.00	1.31	1.30
23	3.96	3.91	4.99	4.93	3.61	3.59	2.65	2.61	2.00	1.98	1.30	1.29
24	3.96	3.92	4.96	4.89	3.59	3.54	2.61	2.58	1.98	1.95	1.29	1.28
25	3.92	3.86	6.10	4.83	3.59	3.55	2.58	2.54	1.95	1.92	1.28	1.27
26	3.86	3.84	6.12	5.76	3.57	3.52	2.54	2.51	1.92	1.90	1.27	1.27
27	3.89	3.85	5.76	5.57	3.52	3.50	2.51	2.47	1.90	1.88	1.27	1.26
28	3.86	3.81	5.57	5.51	3.50	3.48	2.47	2.43	1.88	1.85	1.26	1.24
29	3.81	3.78	5.57	5.49	3.48	3.45	2.43	2.40	1.85	1.83	1.24	1.23
30	3.82	3.78	5.49	5.27	3.45	3.42	2.41	2.37	1.83	1.80	1.23	1.22
31	---	---	5.27	5.12	---	---	2.37	2.33	1.80	1.78	---	---
MONTH	4.53	3.78	6.12	3.80	5.12	3.42	3.43	2.33	2.78	1.78	1.78	1.22
YEAR	6.12	1.22										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 8. SITE ID.--391816076173801

LOCATION.--Lat 39°18'16", long 76°17'40", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 21 ft; casing diameter 4 in., to 6 ft; screen diameter 4 in. from 6 to 21 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Nov. 16, 1987 to current year.

DATUM.--Elevation of land surface is 6.17 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.67 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well TH8. Missing data due to recorder malfunction.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.35 ft above sea level, March 3, 1994; lowest measured, 0.46 ft above sea level, Oct. 10 and 11, 1993.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(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	1.49	.88	1.78	.90	1.04	.67	1.48	.97	1.77	1.30	1.69	1.32
2	1.43	.99	1.38	.75	1.42	.81	1.36	.87	1.41	1.12	1.53	1.30
3	1.65	1.14	.99	.62	1.21	.83	---	---	1.55	1.10	1.66	1.32
4	1.49	1.04	1.23	.67	1.13	.72	1.16	.78	1.71	1.42	1.74	1.43
5	1.38	.99	1.37	.82	1.70	.96	.83	.65	1.42	.99	1.85	1.33
6	1.57	.99	1.51	.95	1.67	1.06	1.24	.71	.99	.92	2.18	1.76
7	1.64	1.01	1.48	.56	1.54	1.12	1.43	1.22	1.04	.88	1.90	1.56
8	1.66	1.00	1.06	.72	1.38	.83	1.25	1.12	1.09	.89	2.21	1.66
9	1.66	1.14	1.00	.61	1.31	.99	1.46	1.16	1.17	.86	2.15	1.62
10	1.64	.77	.82	.54	1.38	1.05	1.28	1.10	1.24	.96	1.62	1.57
11	1.33	.78	1.08	.77	1.66	1.11	1.47	1.10	1.14	.91	1.97	1.60
12	1.58	1.22	.98	.69	1.22	.98	1.72	1.20	1.05	.89	1.75	1.57
13	1.67	1.22	1.15	.79	1.34	1.06	1.54	1.25	.87	.84	1.81	1.54
14	1.60	1.01	1.19	.71	1.69	1.02	1.46	1.08	.94	.85	1.68	1.48
15	1.41	1.01	1.40	1.01	1.79	1.40	2.08	1.31	1.08	.85	1.98	1.45
16	1.95	1.30	1.08	.69	1.84	1.31	2.00	1.33	1.28	1.02	1.86	1.56
17	1.43	1.02	1.64	.68	1.92	1.41	1.48	1.07	1.19	.97	1.94	1.59
18	1.96	1.15	1.72	1.28	1.83	1.32	1.75	1.17	1.17	.96	1.77	1.37
19	1.88	1.42	1.57	.87	1.75	1.17	1.97	1.48	1.22	1.00	1.97	1.50
20	1.71	1.19	1.15	.69	1.71	1.16	2.80	1.74	1.40	1.07	2.11	1.55
21	1.60	1.02	1.89	.86	---	---	2.89	1.69	1.67	1.24	2.45	1.82
22	1.83	1.25	1.89	.85	1.31	.98	1.83	1.55	1.36	1.02	1.97	1.48
23	1.82	1.28	1.10	.64	1.39	.93	1.78	1.48	1.92	1.30	1.75	1.34
24	1.74	1.06	.83	.48	1.43	.98	1.70	1.31	1.43	1.11	1.48	1.21
25	1.76	1.06	1.02	.71	1.77	1.11	1.35	1.21	1.29	.99	1.40	1.18
26	1.26	.90	.77	.53	1.85	1.26	1.45	1.22	1.27	.98	1.53	1.25
27	1.16	.79	1.15	.58	1.61	1.18	1.48	1.15	1.29	.93	1.61	1.32
28	1.19	.94	1.77	1.15	1.73	1.20	1.47	1.18	1.82	1.21	1.90	1.40
29	1.45	1.00	1.39	.92	1.30	.94	1.41	1.12	---	---	1.80	1.43
30	1.21	.81	.96	.75	1.00	.81	1.57	1.21	---	---	1.87	1.55
31	1.16	.78	---	---	1.16	.80	1.80	1.24	---	---	1.73	1.39
MONTH	1.96	.77	1.89	.48	1.92	.67	2.90	.65	1.92	.84	2.45	1.18

GROUND-WATER LEVELS

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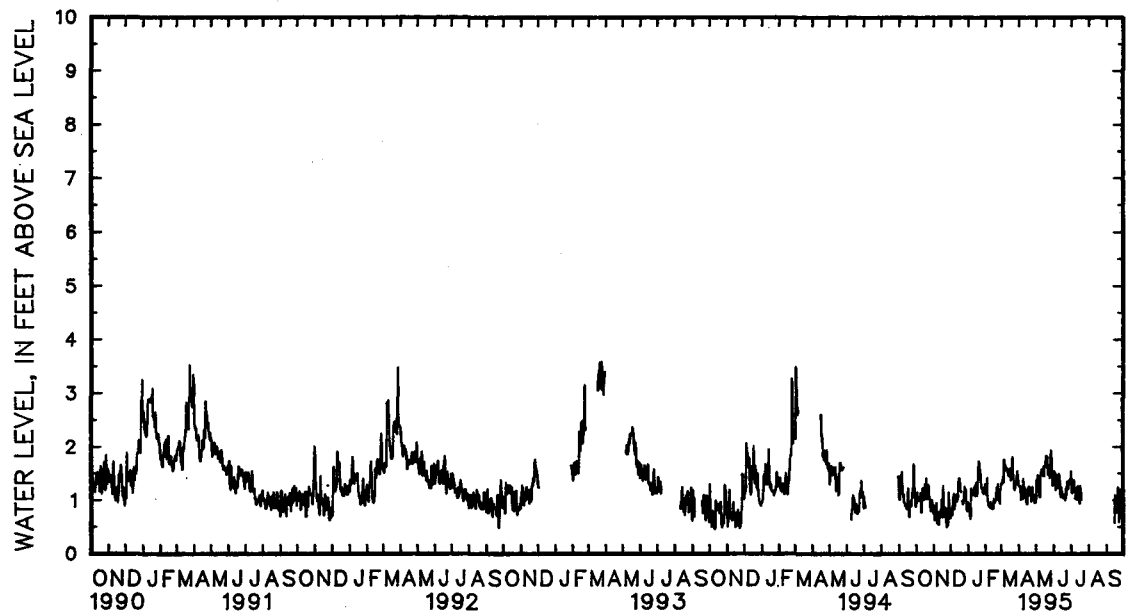
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 8--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.57	1.28	1.38	.96	1.84	1.35	2.05	1.54	---	---	---	---
2	1.69	1.26	2.10	1.38	1.96	1.54	1.62	1.14	---	---	---	---
3	1.95	1.25	1.75	1.34	1.93	1.52	1.62	1.13	---	---	---	---
4	2.23	1.26	1.90	1.46	1.53	1.18	1.79	1.38	---	---	---	---
5	1.26	1.00	2.00	1.46	1.81	1.24	1.87	1.35	---	---	---	---
6	1.42	1.16	1.51	1.09	1.80	1.47	1.87	1.37	---	---	---	---
7	1.36	1.02	1.64	1.17	2.03	1.24	1.80	1.17	---	---	---	---
8	1.74	1.02	1.56	1.06	2.03	1.39	---	---	---	---	---	---
9	1.63	1.40	1.59	1.13	1.98	1.23	1.55	1.03	---	---	---	---
10	1.44	1.04	2.15	1.50	2.13	1.50	1.78	1.22	---	---	---	---
11	1.63	1.25	1.94	1.57	2.28	1.45	2.00	1.01	---	---	---	---
12	1.61	1.21	2.15	1.56	2.09	1.11	1.65	1.11	---	---	---	---
13	1.73	1.15	2.05	1.49	1.40	1.06	1.88	1.26	---	---	---	---
14	1.24	1.00	2.15	1.46	1.92	1.25	1.81	1.07	---	---	---	---
15	1.06	.92	2.38	1.63	1.79	1.13	1.53	1.04	---	---	1.16	.58
16	1.41	.93	2.06	1.46	1.70	1.12	1.53	.94	---	---	1.41	1.10
17	1.47	1.09	---	---	1.50	1.06	1.82	1.27	---	---	1.54	1.04
18	1.73	1.24	2.10	1.63	1.39	1.03	1.74	1.16	---	---	1.12	.76
19	1.80	1.26	2.51	1.83	1.43	1.06	1.60	1.01	---	---	1.14	.83
20	1.67	1.17	2.26	1.76	1.43	1.06	---	---	---	---	1.55	1.04
21	1.70	1.24	2.28	1.81	1.57	1.00	---	---	---	---	1.82	1.25
22	1.67	1.22	2.13	1.47	1.66	1.21	---	---	---	---	1.81	1.22
23	1.25	.97	1.78	1.48	1.47	1.11	---	---	---	---	1.22	.58
24	1.47	1.08	2.15	1.63	1.71	1.35	---	---	---	---	1.28	.75
25	1.66	1.25	1.99	1.41	1.95	1.32	---	---	---	---	1.72	1.02
26	1.54	1.06	2.02	1.59	1.81	1.21	---	---	---	---	1.70	1.20
27	1.55	1.05	2.18	1.81	1.71	1.30	---	---	---	---	1.79	1.16
28	1.64	.98	2.46	1.94	1.99	1.38	---	---	---	---	1.77	.93
29	1.38	.95	2.65	1.64	2.10	1.37	---	---	---	---	1.51	.92
30	1.60	1.10	1.85	1.27	1.85	1.37	---	---	---	---	1.64	1.06
31	---	---	1.49	1.27	---	---	---	---	---	---	---	---
MONTH	2.23	.92	2.65	.96	2.28	1.00	2.05	.94	---	---	1.82	.58
YEAR	2.90	.48										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 21. SITE ID.--391814076173801 PERMIT NUMBER.--HA-88-1043.
 LOCATION.--Lat 39°18'14", long 76°17'38", Hydrologic Unit 02060003, at J-Field, Edgewood Area,
 Aberdeen Proving Ground.
 Owner: U.S. Army.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 81.3 ft; casing diameter 4 in., to 73.8 ft;
 screen diameter 4 in. from 73.8 to 81.3 ft.
 INSTRUMENTATION.--Measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--15-minute recorder interval from Jan. 12, 1990 to current year.
 DATUM.--Elevation of land surface is 7.67 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 3.00 ft above land surface.
 REMARKS.--J-Field Remedial Investigation observation well JF31. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--January 1990 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.87 ft above sea level, Nov. 1, 1991;
 lowest measured, 1.22 ft below sea level, Feb. 2, 1993.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "-")

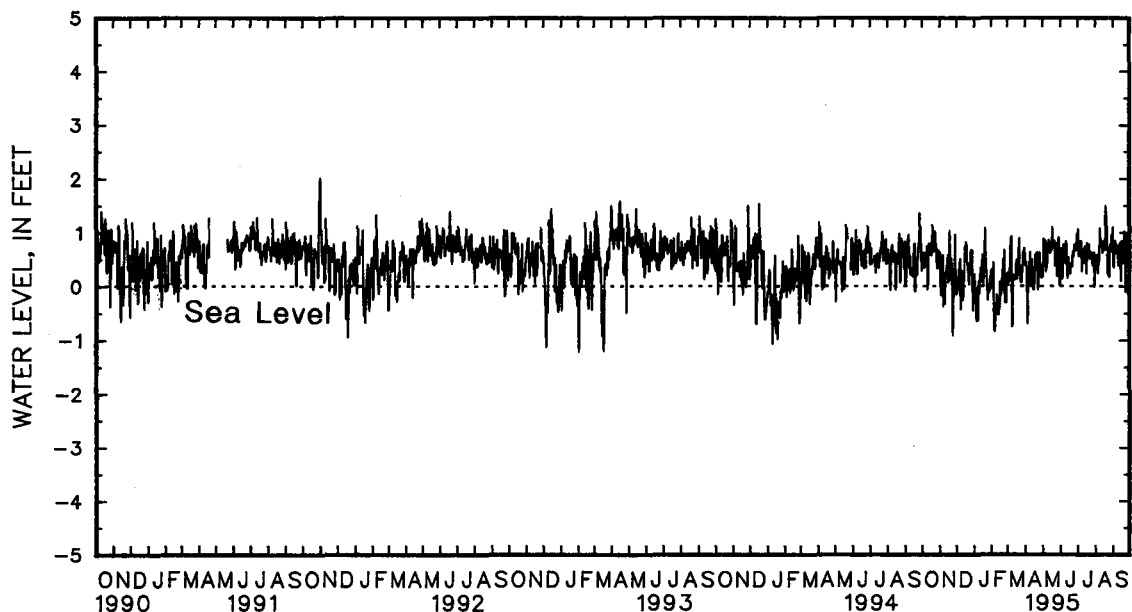
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.22	.52	1.77	.63	.73	-.15	1.20	.24	1.02	.31	.72	.06
2	1.09	.37	1.08	.06	1.18	.16	.74	-.25	.64	.06	.69	.03
3	1.31	.64	.74	-.17	.87	.09	.78	-.24	.99	-.03	.88	.18
4	1.15	.52	1.06	.11	.87	-.06	.64	-.20	1.12	.45	.95	.33
5	1.02	.35	1.21	.38	1.40	.26	.22	-.65	.45	-.45	1.16	.16
6	1.22	.40	1.34	.58	1.18	.43	.65	-.02	-.33	-.81	1.54	.91
7	1.30	.46	1.10	-.38	1.12	.51	.73	-.14	.18	-.85	1.17	.66
8	1.37	.48	.81	.25	.77	-.42	.52	-.64	.19	-.44	1.63	.93
9	1.37	.75	.81	.08	.96	.26	.77	.08	.45	-.47	1.03	-.76
10	1.31	-.07	.66	-.33	.98	.29	.54	-.13	.51	-.16	.27	-.72
11	1.19	.05	.78	.25	1.17	.04	.86	.12	.43	-.27	.82	.22
12	1.27	.78	.74	.17	.53	-.26	1.19	.35	.16	-.50	.67	.13
13	1.37	.80	.95	.38	.74	.10	1.00	.37	.14	-.53	.82	.13
14	1.33	.61	1.02	.25	1.15	.13	.93	.08	.09	-.43	.70	.14
15	1.19	.60	1.23	.58	1.26	.73	1.70	.59	.38	-.39	1.10	.14
16	1.75	.81	.58	.06	1.37	.68	1.41	.53	.70	.08	1.03	.44
17	1.19	.58	1.55	.27	1.54	.82	.74	.03	.37	-.18	1.14	.49
18	1.82	.81	1.61	1.04	1.45	.77	1.23	.30	.51	-.12	.81	.13
19	1.74	1.15	1.23	.46	1.15	.42	1.56	.77	.63	-.02	1.19	.50
20	1.57	.95	.99	.12	1.27	.44	2.14	1.09	.94	.15	1.40	.57
21	1.36	.64	1.88	.52	1.07	.32	2.02	.59	1.19	.50	1.82	.90
22	1.70	.96	1.81	.43	.74	.15	.81	.33	.81	.04	1.28	.37
23	1.62	1.03	.81	.05	1.01	.03	.92	.25	1.46	.69	1.06	.27
24	1.60	.80	.64	-.92	1.01	.32	.87	.05	.84	-.10	.70	.07
25	1.60	.75	.67	.10	1.47	.51	.45	-.27	.65	-.31	.58	.07
26	1.03	.49	.44	-.19	1.47	.68	.55	-.03	.65	-.27	.76	.27
27	.92	.35	1.17	-.02	1.27	.59	.67	-.12	.74	-.29	.94	.36
28	1.07	.59	1.68	.98	1.44	.67	.71	-.03	1.14	.25	1.26	.63
29	1.23	.67	1.10	.27	.83	-.07	.69	-.07	---	---	1.20	.60
30	1.02	.35	.62	-.07	.49	-.45	.92	.19	---	---	1.41	.71
31	1.07	.35	---	---	.82	-.09	1.19	.29	---	---	1.14	.52
MONTH	1.82	-.07	1.88	-.92	1.54	-.45	2.14	-.65	1.46	-.85	1.82	-.76

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued
HA Fd 21--Continued

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DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	.97	.39	.99	.18	1.07	.42	1.69	1.07	1.30	.58	1.95	.42
2	1.13	.45	1.81	.89	1.23	.71	1.33	.57	1.30	.51	1.01	.35
3	1.43	.37	1.29	.73	1.24	.68	1.20	.57	1.28	.54	1.41	.70
4	1.75	-.06	1.47	.86	.98	.13	1.37	.82	1.34	.58	1.72	.85
5	.47	-.70	1.61	.85	1.16	.44	1.38	.82	1.23	.25	1.67	.80
6	.79	.32	1.02	.27	1.19	.78	1.49	.84	1.11	.49	1.52	.62
7	.72	.04	1.16	.66	1.28	.48	1.45	.67	1.37	.48	1.45	.62
8	1.21	.35	1.09	.36	1.50	.64	1.40	.29	2.00	1.09	1.46	.76
9	1.10	.64	1.25	.75	1.11	.44	.94	.46	1.84	.89	1.46	.76
10	.82	.02	1.80	.80	1.61	.85	1.42	.68	1.60	.84	1.26	.45
11	1.10	.50	1.36	.86	1.80	.77	1.70	.47	1.47	.74	1.24	.38
12	1.11	.50	1.61	.73	1.65	.26	1.32	.44	1.48	.83	1.37	.70
13	1.27	.16	1.47	.63	.88	.15	1.56	.72	1.26	.62	1.33	.81
14	.70	.01	1.60	.63	1.42	.54	1.49	.75	1.56	.79	1.31	.43
15	.42	-.06	1.86	.83	1.25	.42	1.20	.53	1.51	.74	1.15	.10
16	.94	.08	1.51	.68	1.16	.42	1.18	.24	1.49	.86	1.28	.85
17	1.03	.30	2.00	1.11	.96	.25	1.52	.81	1.50	.69	1.45	.83
18	1.31	.57	1.57	.85	.85	.25	1.52	.71	1.60	.95	.98	.43
19	1.58	.60	1.73	.83	.88	.39	1.27	.53	2.02	1.51	1.02	.53
20	1.14	.46	1.43	.78	.97	.43	1.27	.78	2.32	1.41	1.43	1.02
21	1.34	.63	1.45	.85	.93	.38	1.50	.58	2.04	1.11	1.72	1.02
22	1.27	.37	1.31	.38	1.20	.64	1.20	.52	1.60	.21	1.72	.71
23	.81	-.07	1.02	.50	1.01	.56	1.20	.64	.88	.23	.71	-.11
24	1.07	.51	1.40	.80	1.31	.65	1.36	.62	1.48	.54	1.12	.42
25	1.24	.63	1.32	.20	1.56	.78	1.21	.52	.84	.17	1.64	.77
26	1.10	.37	.93	.21	1.40	.68	1.34	.45	1.58	.75	1.61	.97
27	1.15	.37	1.21	.39	1.27	.67	1.03	.39	1.44	.78	1.69	.90
28	1.24	.17	1.56	.92	1.56	.79	1.07	.46	1.38	.66	1.51	.57
29	.95	.16	1.85	.89	1.71	.97	1.31	.83	1.59	.96	1.37	.60
30	1.22	.40	1.03	.04	1.45	.85	.70	-.02	1.52	.75	1.65	.77
31	---	---	.67	.01	---	---	.95	.17	1.95	1.10	---	---
MONTH	1.75	-.70	2.00	.01	1.80	.13	1.70	-.02	2.32	.17	1.95	-.11
YEAR	2.32	-.92										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 23. SITE ID.--391814076173803 PERMIT NUMBER.--HA-88-1045.

LOCATION.--Lat 39°18'14", long 76°17'38", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20 ft; casing diameter 4 in., to 15 ft; screen diameter 4 in. from 15 to 20 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Jan. 12, 1990 to current year.

DATUM.--Elevation of land surface is 7.23 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 3.00 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF33.

PERIOD OF RECORD.--January 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.87 ft above sea level, March 24, 1993; lowest measured, 1.18 ft above sea level, Oct. 10 and 11, 1993.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.44	2.28	2.20	1.96	2.07	1.94	2.53	2.35	3.41	3.26	3.57	3.49
2	2.42	2.31	2.11	1.87	2.19	2.00	2.50	2.26	3.29	3.12	3.59	3.51
3	2.52	2.39	1.91	1.79	2.14	2.00	2.38	2.21	3.26	3.06	3.64	3.53
4	2.46	2.35	1.99	1.83	2.10	1.94	2.38	2.21	3.40	3.24	3.65	3.55
5	2.42	2.29	2.03	1.88	2.39	2.03	2.25	2.10	3.24	2.92	3.68	3.49
6	2.41	2.28	2.07	1.93	2.43	2.27	2.43	2.18	2.92	2.84	3.78	3.67
7	2.41	2.25	2.06	1.74	2.43	2.34	2.83	2.43	2.92	2.81	3.70	3.60
8	2.41	2.24	1.92	1.83	2.41	2.18	2.81	2.68	2.94	2.81	4.50	3.65
9	2.41	2.29	1.91	1.78	2.40	2.28	2.89	2.78	2.94	2.79	4.59	4.24
10	2.39	2.07	1.85	1.72	2.46	2.32	2.84	2.73	2.97	2.87	4.24	4.12
11	2.23	2.06	1.88	1.81	2.59	2.46	2.90	2.77	2.91	2.83	4.31	4.18
12	2.28	2.20	1.87	1.79	2.56	2.42	2.97	2.82	2.87	2.76	4.19	4.05
13	2.31	2.21	1.92	1.83	2.63	2.53	2.93	2.83	2.79	2.73	4.13	4.03
14	2.30	2.12	1.92	1.80	2.73	2.53	2.88	2.75	2.78	2.73	4.07	3.95
15	2.20	2.10	2.00	1.90	2.77	2.67	3.09	2.85	2.87	2.71	4.10	3.94
16	2.34	2.19	1.91	1.76	2.79	2.66	3.08	2.89	2.98	2.86	4.05	3.96
17	2.19	2.08	2.05	1.78	2.83	2.71	2.93	2.78	2.94	2.86	4.02	3.89
18	2.32	2.12	2.11	2.00	2.80	2.69	3.01	2.83	3.03	2.90	3.89	3.74
19	2.32	2.22	2.08	1.87	2.79	2.59	3.12	2.95	3.10	2.97	3.88	3.78
20	2.28	2.15	1.93	1.77	2.71	2.58	4.24	3.09	3.24	3.06	3.96	3.77
21	2.24	2.06	2.15	1.85	2.71	2.52	4.24	3.86	3.30	3.17	4.07	3.89
22	2.27	2.13	2.15	1.86	2.59	2.46	3.88	3.75	3.17	3.02	3.91	3.72
23	2.27	2.16	1.92	1.77	2.59	2.43	3.79	3.67	3.34	3.13	3.79	3.66
24	2.25	2.07	1.78	1.63	2.60	2.46	3.73	3.49	3.23	2.98	3.67	3.49
25	2.24	2.07	1.86	1.77	2.67	2.49	3.49	3.39	3.07	2.91	3.53	3.45
26	2.11	2.00	1.80	1.69	2.69	2.53	3.48	3.36	3.07	2.89	3.54	3.46
27	2.05	1.93	1.95	1.71	2.62	2.49	3.42	3.29	3.04	2.87	3.55	3.45
28	2.04	1.98	2.24	1.95	2.65	2.51	3.39	3.28	3.56	3.01	3.61	3.48
29	2.10	2.00	2.18	2.03	2.53	2.34	3.31	3.20	---	---	3.55	3.45
30	2.05	1.91	2.07	1.97	2.35	2.24	3.38	3.25	---	---	3.58	3.48
31	2.03	1.91	---	---	2.42	2.27	3.42	3.26	---	---	3.50	3.39
MONTH	2.52	1.91	2.24	1.63	2.83	1.94	4.24	2.10	3.56	2.71	4.59	3.39

GROUND-WATER LEVELS

337

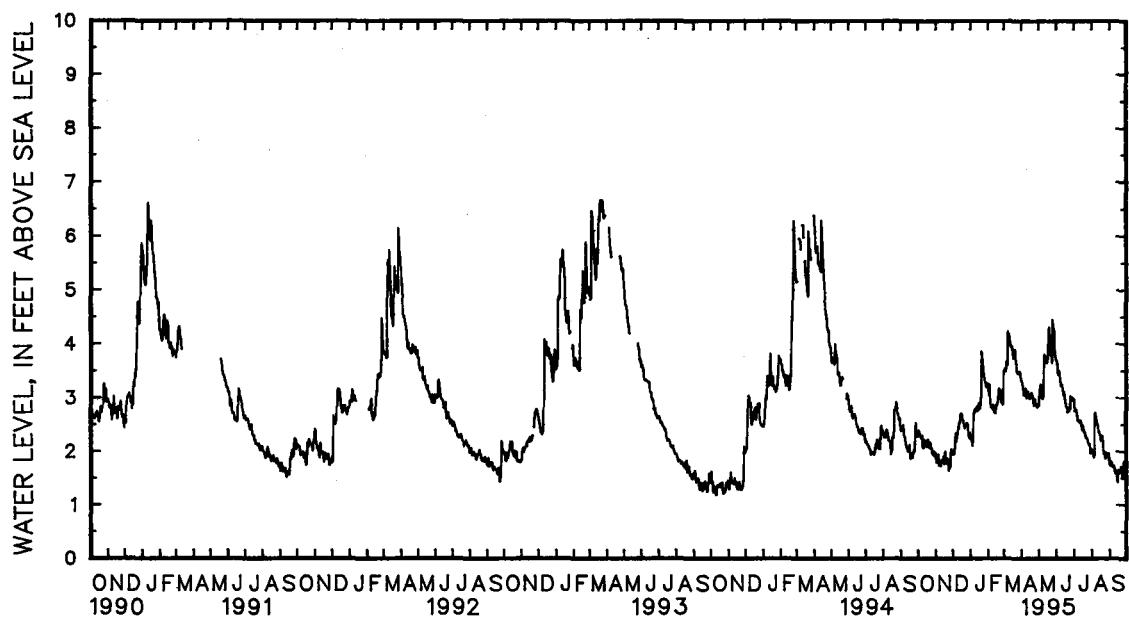
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 23--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.41	3.33	2.99	2.85	3.81	3.71	3.07	2.97	2.14	2.03	2.10	1.78
2	3.41	3.31	3.24	2.99	3.78	3.68	3.01	2.79	2.15	1.99	1.85	1.73
3	3.49	3.25	3.26	3.14	3.74	3.64	2.83	2.75	2.13	1.98	1.88	1.77
4	3.61	3.21	3.33	3.22	3.67	3.43	2.86	2.78	2.12	1.96	1.98	1.81
5	3.21	3.05	3.39	3.25	3.54	3.45	2.86	2.76	2.07	1.88	1.94	1.77
6	3.24	3.13	3.26	3.07	3.58	3.50	2.86	2.75	2.91	1.91	1.89	1.71
7	3.22	3.05	3.20	3.10	3.53	3.40	2.84	2.68	2.75	2.63	1.84	1.71
8	3.30	3.06	3.17	2.99	3.54	3.31	2.80	2.57	2.91	2.72	1.84	1.73
9	3.28	3.17	3.11	3.00	3.35	3.22	2.66	2.57	2.83	2.64	1.81	1.71
10	3.17	2.99	3.63	3.10	3.42	3.24	2.74	2.58	2.73	2.59	1.79	1.63
11	3.18	3.08	4.04	3.63	3.45	3.24	2.78	2.55	2.65	2.51	1.72	1.58
12	3.23	3.08	4.02	3.81	3.39	3.14	2.67	2.53	2.61	2.49	1.74	1.64
13	3.30	3.11	3.90	3.68	3.14	3.05	2.71	2.57	2.56	2.37	1.74	1.64
14	3.15	3.02	3.86	3.67	3.26	3.10	2.67	2.54	2.49	2.37	1.73	1.51
15	3.04	2.99	3.93	3.71	3.16	2.99	2.58	2.46	2.49	2.32	1.58	1.42
16	3.12	2.99	3.77	3.65	3.07	2.95	2.53	2.40	2.43	2.29	1.65	1.58
17	3.13	3.02	3.88	3.72	3.01	2.87	2.59	2.48	2.40	2.19	1.84	1.65
18	3.19	3.06	4.07	3.79	2.93	2.83	2.60	2.43	2.31	2.22	1.74	1.62
19	3.27	3.09	4.65	4.06	2.91	2.82	2.52	2.35	2.39	2.29	1.67	1.60
20	3.20	3.01	4.47	4.31	2.90	2.79	2.48	2.36	2.48	2.29	1.75	1.63
21	3.18	3.03	4.36	4.14	2.86	2.73	2.50	2.30	2.41	2.20	1.83	1.71
22	3.14	2.97	4.19	3.86	2.88	2.75	2.40	2.25	2.27	1.95	1.87	1.71
23	2.98	2.86	3.92	3.81	2.82	2.75	2.38	2.25	2.03	1.95	1.74	1.50
24	3.06	2.95	3.93	3.77	3.08	2.75	2.39	2.24	2.15	1.98	1.70	1.57
25	3.09	2.97	4.65	3.65	3.21	3.03	2.33	2.21	1.98	1.86	1.86	1.66
26	3.03	2.89	4.73	4.46	3.12	2.97	2.34	2.16	2.11	1.93	1.91	1.79
27	3.02	2.88	4.54	4.37	3.06	2.95	2.23	2.13	2.08	1.86	1.95	1.81
28	3.05	2.83	4.43	4.29	3.12	2.97	2.22	2.12	2.01	1.90	1.95	1.75
29	2.94	2.82	4.47	4.25	3.15	3.00	2.26	2.13	2.06	1.95	1.85	1.72
30	3.00	2.87	4.25	3.83	3.05	2.95	2.13	1.95	2.05	1.88	1.87	1.74
31	---	---	3.84	3.74	---	---	2.08	1.97	2.09	1.95	---	---
MONTH	3.61	2.82	4.73	2.85	3.81	2.73	3.07	1.95	2.91	1.86	2.10	1.42
YEAR	4.73	1.42										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 26. SITE ID.--391824076172701 PERMIT NUMBER.--HA-88-1061.

LOCATION.--Lat 39°18'24", Long 76°17'27", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, confined aquifer well, depth 79 ft; casing diameter 4 in., to 74 ft; screen diameter 4 in. from 74 to 79 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Jan. 17, 1990 to current year.

DATUM.--Elevation of land surface is 10.18 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.80 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF91.

PERIOD OF RECORD.--January 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft above sea level, Nov. 1, 1991; lowest measured, 1.12 ft below sea level, Feb. 16, 1990.

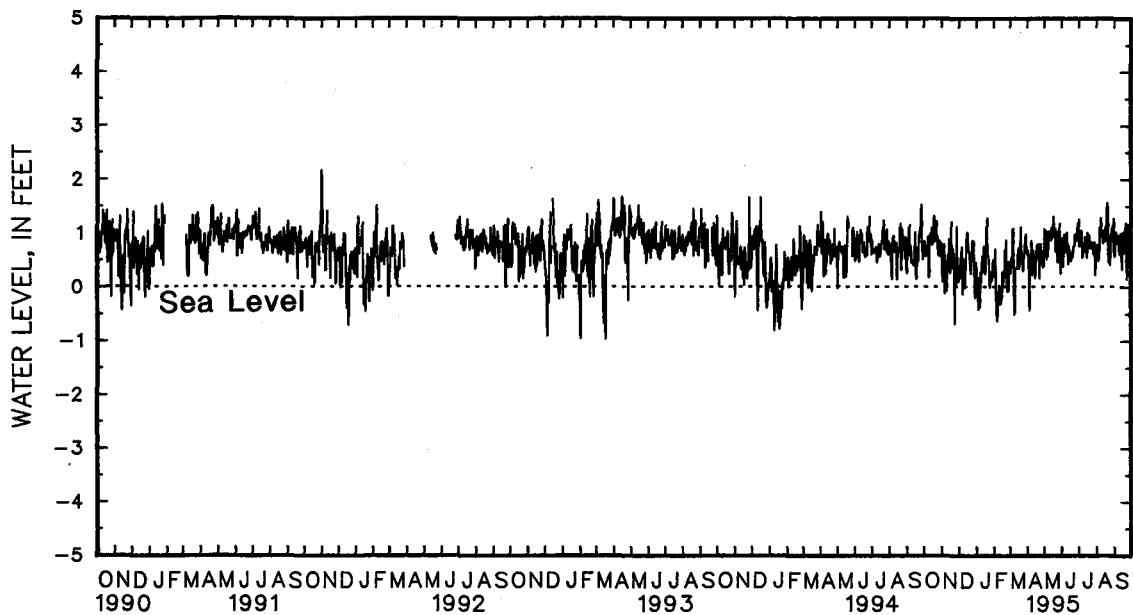
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.30	.58	1.80	.81	.79	.09	1.26	.46	1.17	.51	.89	.27
2	1.19	.60	1.33	.40	1.23	.39	1.04	.01	.79	.27	.75	.25
3	1.40	.86	.80	.09	.94	.32	.83	.00	1.06	.20	.94	.40
4	1.22	.72	1.11	.35	.92	.17	.82	.03	1.21	.71	1.02	.53
5	1.10	.58	1.27	.60	1.46	.51	.32	-.42	.71	-.24	1.23	.37
6	1.29	.62	1.43	.79	1.41	.63	.74	.17	-.16	-.61	1.62	1.07
7	1.37	.67	1.36	-.13	1.25	.74	.79	.07	.25	-.64	1.29	.85
8	1.44	.70	.91	.47	.97	-.15	.55	-.38	.29	-.29	1.72	1.09
9	1.44	.94	.88	.27	.96	.47	.83	.27	.50	-.32	1.23	-.52
10	1.43	.17	.69	-.08	1.05	.52	.63	.08	.59	.02	.34	-.48
11	1.14	.27	.87	.46	1.27	.25	.94	.33	.52	-.08	.91	.34
12	1.35	.96	.81	.39	.66	-.03	1.26	.56	.28	-.29	.75	.35
13	1.48	.99	1.02	.60	.82	.33	1.06	.58	.22	-.33	.90	.35
14	1.43	.81	1.08	.47	1.24	.34	1.00	.29	.20	-.23	.77	.36
15	1.27	.79	1.32	.89	1.35	.89	1.77	.76	.47	-.19	1.17	.36
16	1.83	1.10	.90	.26	1.46	.84	1.64	.73	.75	.28	1.10	.63
17	1.28	.79	1.63	.47	1.61	1.02	.89	.24	.47	.03	1.21	.72
18	1.89	1.01	1.70	1.22	1.53	.96	1.32	.52	.59	.10	.89	.34
19	1.81	1.33	1.53	.86	1.43	.64	1.83	.96	.70	.19	1.26	.70
20	1.64	1.11	1.07	.36	1.34	.66	2.24	1.29	.99	.36	1.48	.76
21	1.53	.84	1.97	.72	1.30	.53	2.22	.79	1.26	.69	1.90	1.12
22	1.77	1.16	1.96	.62	.92	.36	1.04	.58	.88	.24	1.34	.63
23	1.75	1.22	.97	.27	1.07	.25	1.02	.52	1.52	.88	1.15	.51
24	1.67	.98	.60	-.70	1.08	.49	.96	.28	.94	.14	.80	.31
25	1.70	.94	.78	.31	1.49	.69	.51	-.02	.72	-.09	.68	.30
26	1.17	.71	.55	.03	1.55	.86	.67	.20	.73	.00	.86	.51
27	1.04	.58	1.13	.19	1.34	.78	.75	.09	.79	-.07	1.02	.59
28	1.07	.78	1.72	1.13	1.50	.85	.78	.21	1.19	.47	1.35	.78
29	1.33	.86	1.25	.52	.93	.21	.76	.14	---	---	1.28	.80
30	1.11	.58	.72	.17	.58	-.21	.99	.40	---	---	1.48	.98
31	1.13	.57	---	---	.86	.15	1.25	.49	---	---	1.22	.74
MONTH	1.89	.17	1.97	-.70	1.61	-.21	2.24	-.42	1.52	-.64	1.90	-.52

GROUND WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued
HA Fd 26--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.05	.62	1.09	.39	1.17	.64	1.77	1.26	1.34	.77	2.01	.64
2	1.21	.67	1.87	1.09	1.32	.89	1.52	.76	1.37	.70	1.09	.57
3	1.50	.60	1.40	.91	1.34	.91	1.28	.76	1.36	.74	1.34	.88
4	1.83	.30	1.56	1.05	1.11	.37	1.46	1.04	1.42	.78	1.79	1.03
5	.55	-.44	1.69	1.04	1.18	.65	1.48	1.02	1.30	.49	1.73	.99
6	.88	.51	1.13	.51	1.31	.98	1.57	1.05	1.20	.70	1.57	.82
7	.82	.26	1.25	.79	1.25	.69	1.53	.87	1.38	.69	1.52	.82
8	1.30	.40	1.18	.57	1.59	.87	1.48	.54	2.10	1.29	1.52	.96
9	1.20	.87	1.25	.76	1.20	.65	1.03	.57	1.91	1.15	1.52	.96
10	.91	.22	1.89	1.03	1.68	.98	1.49	.77	1.66	1.03	1.37	.67
11	1.18	.68	1.44	1.03	1.87	1.01	1.75	.74	1.54	.95	1.33	.60
12	1.20	.68	1.68	.96	1.72	.82	1.37	.66	1.55	1.04	1.43	.89
13	1.34	.44	1.54	.88	.96	.42	1.60	.93	1.41	.81	1.43	.99
14	.76	.29	1.66	.87	1.51	.76	1.55	.93	1.61	.99	1.40	.61
15	.52	.16	1.93	1.10	1.34	.64	1.27	.75	1.61	.94	1.10	.33
16	.97	.29	1.58	.92	1.24	.63	1.24	.54	1.52	1.04	1.31	1.01
17	1.06	.50	2.07	1.31	1.04	.49	1.52	1.01	1.58	.85	1.52	1.00
18	1.35	.73	1.65	1.09	.94	.48	1.59	.91	1.51	1.14	1.09	.63
19	1.62	.77	1.80	1.05	.94	.59	1.36	.73	1.97	1.51	1.06	.72
20	1.31	.66	1.53	.98	1.05	.63	1.36	.96	2.42	1.57	1.52	1.02
21	1.39	.80	1.57	1.08	1.01	.57	1.59	.77	2.14	1.28	1.79	1.19
22	1.32	.61	1.42	.65	1.29	.74	1.29	.73	1.69	.47	1.79	1.07
23	.77	.15	1.12	.74	1.12	.76	1.30	.74	.98	.47	1.07	.12
24	1.14	.72	1.51	1.02	1.40	.77	1.44	.83	1.57	.85	1.19	.61
25	1.32	.80	1.42	.46	1.64	.97	1.31	.74	.93	.40	1.70	.95
26	1.17	.56	1.03	.46	1.48	.90	1.42	.71	1.66	.87	1.67	1.16
27	1.20	.56	1.32	.62	1.37	.86	1.10	.61	1.52	.99	1.74	1.09
28	1.31	.40	1.65	1.12	1.65	.97	1.14	.68	1.46	.85	1.70	.78
29	1.01	.37	1.94	1.18	1.79	1.18	1.39	.83	1.66	1.14	1.43	.79
30	1.30	.67	1.18	.29	1.53	1.04	.89	.21	1.66	.94	1.60	.96
31	---	---	.78	.25	---	---	1.01	.39	1.98	1.28	---	---
MONTH	1.83	-.44	2.07	.25	1.87	.37	1.77	.21	2.42	.40	2.01	.12
YEAR	2.42	-.70										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 28, SITE ID.--391824076172703 PERMIT NUMBER.--HA-88-1063.

LOCATION.--Lat 39°18'24", long 76°17'27", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 25 ft; casing diameter 4 in., to 20 ft; screen diameter 4 in. from 20 to 25 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Jan. 17, 1990 to current year.

DATUM.--Elevation of land surface is 10.28 ft above National Geodetic Vertical Datum of 1929.

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

REMARKS.--J-Field Remedial Investigation observation well JF93.

PERIOD OF RECORD.--January 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.16 ft above sea level, April 1 and 2, 1993; lowest measured, 0.52 ft below sea level, Oct. 11, 1993.

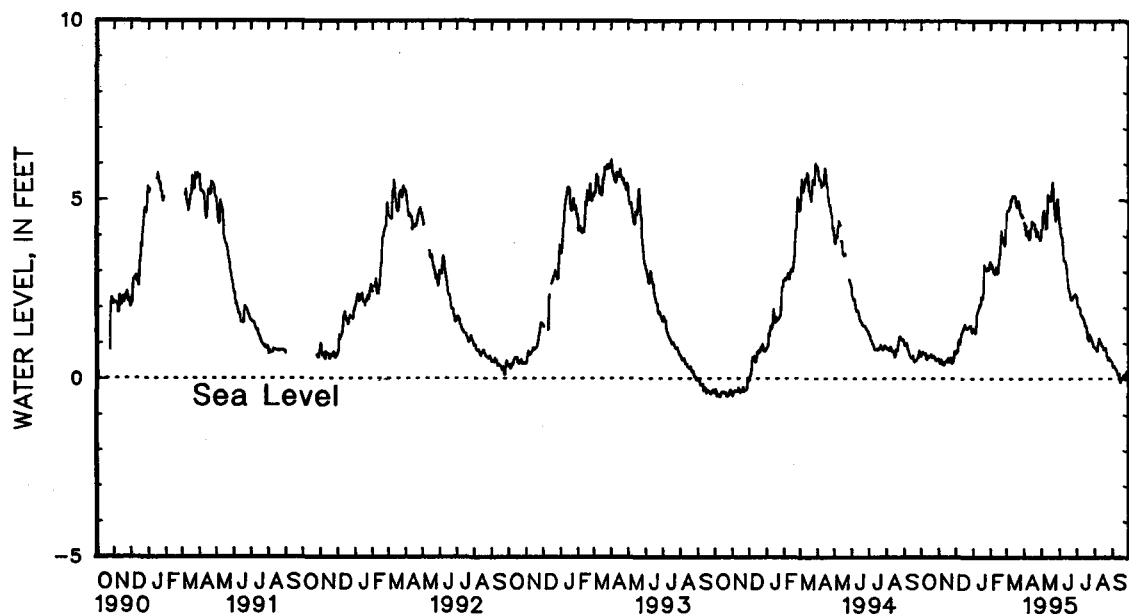
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	.71	.62	.67	.55	.72	.68	1.51	1.40	3.41	3.28	4.70	4.52
2	.73	.70	.67	.51	.82	.72	1.52	1.38	3.39	3.23	4.71	4.70
3	.79	.73	.51	.43	.82	.78	1.39	1.34	3.23	3.12	4.74	4.71
4	.79	.75	.49	.45	.79	.74	1.41	1.37	3.53	3.19	4.76	4.73
5	.77	.72	.53	.49	1.03	.78	1.37	1.27	3.50	3.14	4.80	4.71
6	.72	.69	.57	.53	1.08	1.03	1.48	1.27	3.14	3.02	4.90	4.80
7	.72	.68	.58	.40	1.13	1.08	1.82	1.48	3.05	2.97	4.87	4.81
8	.72	.69	.49	.40	1.11	.96	1.85	1.80	3.08	2.99	5.05	4.83
9	.73	.70	.50	.45	1.10	.97	1.97	1.85	3.05	2.93	5.07	5.02
10	.73	.56	.45	.38	1.24	1.10	1.97	1.90	3.13	3.05	5.05	4.97
11	.57	.54	.45	.38	1.36	1.24	2.02	1.94	3.17	3.13	5.20	5.05
12	.63	.56	.47	.45	1.32	1.26	2.11	2.02	3.17	3.00	5.20	5.12
13	.66	.63	.51	.47	1.37	1.32	2.11	2.07	3.00	2.94	5.13	5.09
14	.67	.63	.51	.47	1.42	1.35	2.09	2.03	3.00	2.98	5.13	5.09
15	.63	.60	.56	.51	1.46	1.42	2.29	2.09	3.18	2.98	5.16	5.08
16	.68	.61	.56	.46	1.49	1.44	2.35	2.29	3.35	3.18	5.16	5.12
17	.68	.60	.57	.46	1.55	1.49	2.32	2.22	3.43	3.35	5.12	5.04
18	.67	.60	.64	.57	1.55	1.52	2.28	2.22	3.63	3.43	5.04	4.84
19	.69	.67	.65	.54	1.54	1.44	2.45	2.28	3.85	3.63	4.84	4.81
20	.69	.64	.54	.46	1.45	1.41	3.22	2.45	4.15	3.85	4.91	4.79
21	.65	.59	.67	.49	1.46	1.41	3.29	3.21	4.22	4.14	5.08	4.91
22	.63	.59	.69	.58	1.42	1.40	3.21	3.15	4.14	3.94	5.07	4.98
23	.67	.63	.58	.51	1.45	1.41	3.17	3.13	4.16	3.94	4.98	4.89
24	.66	.60	.51	.42	1.49	1.44	3.18	3.10	4.18	3.95	4.89	4.78
25	.66	.61	.55	.43	1.47	1.44	3.10	3.02	3.95	3.80	4.78	4.64
26	.61	.54	.53	.45	1.50	1.47	3.09	3.05	3.89	3.77	4.64	4.58
27	.55	.50	.57	.45	1.49	1.45	3.11	3.06	3.87	3.73	4.59	4.58
28	.53	.50	.82	.57	1.54	1.49	3.14	3.11	4.52	3.87	4.61	4.59
29	.58	.53	.82	.76	1.53	1.37	3.14	3.05	---	---	4.59	4.51
30	.57	.52	.76	.71	1.37	1.28	3.23	3.07	---	---	4.53	4.52
31	.55	.51	---	---	1.40	1.31	3.28	3.22	---	---	---	---
MONTH	.79	.50	.82	.38	1.55	.68	3.29	1.27	4.52	2.93	5.20	4.51

GROUND-WATER LEVELS
 MARYLAND--Continued
 HARFORD COUNTY--Continued
 HA Fd 28--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.47	4.37	4.17	3.99	4.50	4.32	2.33	2.31	.91	.88	.54	.41
2	4.37	4.29	4.55	4.17	4.32	4.22	2.31	2.15	.92	.87	.41	.32
3	4.30	4.21	4.66	4.55	4.25	4.22	2.15	2.02	.87	.83	.35	.32
4	4.53	4.30	4.71	4.66	4.24	4.06	2.04	2.02	.83	.82	.40	.35
5	4.41	4.03	4.81	4.71	4.06	3.99	2.03	2.00	.82	.77	.38	.34
6	4.12	4.02	4.79	4.57	4.01	3.98	2.01	1.99	.95	.77	.34	.29
7	4.15	4.05	4.57	4.48	4.01	3.84	1.99	1.95	1.01	.95	.29	.27
8	4.14	4.01	4.48	4.26	3.84	3.57	1.95	1.82	1.14	1.01	.29	.26
9	4.21	4.14	4.26	4.20	3.57	3.30	1.82	1.76	1.15	1.12	.26	.23
10	4.20	3.90	4.65	4.21	3.33	3.29	1.78	1.75	1.12	1.07	.24	.16
11	3.96	3.90	5.16	4.65	3.36	3.30	1.80	1.73	1.07	1.04	.16	.10
12	4.18	3.96	5.26	5.16	3.31	3.26	1.73	1.68	1.04	1.01	.14	.11
13	4.44	4.18	5.23	5.04	3.26	3.16	1.69	1.67	1.01	.93	.14	.14
14	4.45	4.42	5.10	4.99	3.16	3.06	1.67	1.63	.93	.93	.14	-.02
15	4.42	4.37	5.21	5.10	3.06	2.79	1.63	1.55	.94	.90	-.02	-.10
16	4.41	4.37	5.14	4.98	2.79	2.65	1.55	1.47	.80	.88	.00	-.10
17	4.41	4.33	5.08	4.97	2.65	2.54	1.53	1.47	.88	.81	.13	.00
18	4.33	4.32	5.28	5.08	2.54	2.47	1.53	1.46	.82	.81	.11	.03
19	4.45	4.33	5.59	5.28	2.47	2.43	1.46	1.35	.86	.82	.03	.02
20	4.44	4.20	5.58	5.49	2.43	2.35	1.36	1.13	.92	.86	.09	.03
21	4.30	4.19	5.49	5.27	2.35	2.21	1.16	1.10	.89	.83	.13	.09
22	4.30	4.18	5.27	4.90	2.22	2.21	1.10	1.05	.83	.65	.18	.11
23	4.18	3.99	4.90	4.69	2.21	2.19	1.26	1.24	.65	.60	.18	.00
24	4.19	4.01	4.69	4.58	2.29	2.21	1.25	1.20	.66	.60	.08	.00
25	4.20	4.12	4.58	4.41	2.35	2.28	1.20	1.15	.64	.52	.20	.08
26	4.12	3.98	4.93	4.46	2.35	2.32	1.16	1.12	.60	.52	.22	.20
27	4.08	3.97	5.05	4.93	2.32	2.30	1.12	1.05	.60	.58	.23	.21
28	4.09	3.97	5.05	5.02	2.39	2.30	1.05	1.03	.58	.52	.23	.15
29	3.97	3.88	5.18	5.03	2.41	2.37	1.04	1.03	.55	.52	.15	.10
30	3.99	3.88	5.16	4.78	2.37	2.31	1.03	.89	.55	.49	.13	.11
31	---	---	4.78	4.50	---	---	.89	.88	.50	.48	---	---
MONTH	4.53	3.88	5.59	3.99	4.50	2.19	2.33	.88	1.15	.48	.54	-.10
YEAR	5.59	-.10										

Daily Low Water Levels



GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 29. SITE ID.--391812076173101 PERMIT NUMBER.--HA-88-1046.

LOCATION.--Lat 39°18'12", long 76°17'31", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, confined aquifer well, depth 90 ft; casing diameter 4 in., to 85 ft; screen diameter 4 in. from 85 to 90 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Jan. 12, 1990 to current year.

DATUM.--Elevation of land surface is 10.22 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.83 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF41. Missing data due to recorder malfunction.

PERIOD OF RECORD.--January 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.02 ft above sea level, Jan. 30, and Nov. 1, 1991; lowest measured, 1.03 ft below sea level, Feb. 26, 1990.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(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	1.36	.64	1.91	.76	.85	-.03	1.38	.40	1.14	.39	.81	.14
2	1.22	.48	1.21	.20	1.32	.29	.90	-.11	.73	.13	.78	.11
3	1.45	.76	.87	-.05	.98	.20	.92	-.11	1.08	.05	.97	.28
4	1.28	.62	1.19	.24	.99	.04	.78	-.08	1.23	.57	1.05	.41
5	1.14	.46	1.36	.51	1.55	.39	.38	-.51	.57	-.36	1.27	.24
6	1.36	.51	1.51	.71	1.33	.54	.79	.12	-.24	-.72	1.65	1.00
7	1.44	.56	1.26	-.26	1.24	.64	.86	-.02	.30	-.76	1.29	.75
8	1.51	.58	.95	.40	.89	-.30	.67	-.50	.31	-.36	1.73	1.03
9	1.52	.86	.93	.19	1.03	.37	.91	.22	.56	-.39	1.13	-.67
10	1.45	.04	.78	-.21	1.07	.35	.69	-.01	.63	-.07	.37	-.62
11	1.33	.17	.91	.39	1.28	.10	.99	.26	.55	-.18	.92	.33
12	1.41	.89	.85	.31	.64	-.19	1.34	.51	.27	-.43	.77	.23
13	1.53	.91	1.08	.51	.83	.20	1.13	.49	.25	-.45	.92	.23
14	1.48	.73	1.15	.38	1.27	.23	1.06	.20	.20	-.35	.79	.23
15	1.35	.72	1.41	.72	1.39	.83	1.83	.72	.50	-.31	1.21	.23
16	1.89	.95	.72	.17	1.50	.76	1.56	.65	.79	.18	1.14	.52
17	1.34	.72	1.69	.41	1.68	.95	.87	.16	.49	-.10	1.26	.59
18	1.96	.94	1.76	1.18	1.58	.87	1.38	.44	.62	-.03	.91	.21
19	1.89	1.28	1.39	.58	1.27	.54	1.69	.90	.73	.07	1.30	.59
20	1.71	1.04	1.12	.26	1.45	.56	2.29	1.22	1.04	.24	1.52	.65
21	1.51	.76	2.05	.66	1.24	.48	2.17	.70	1.31	.59	1.93	1.01
22	1.84	1.09	1.95	.55	.89	.30	1.04	.47	1.00	.12	1.39	.49
23	1.76	1.16	.94	.19	1.18	.18	1.04	.39	1.58	.80	1.17	.38
24	1.75	.91	.76	-.81	1.17	.47	.99	.17	.94	-.01	.80	.17
25	1.75	.86	.81	.22	1.64	.67	.57	-.16	.74	-.22	.82	.18
26	1.17	.63	.58	-.07	1.65	.82	.69	.09	.74	-.19	.92	.39
27	1.07	.50	1.31	.11	1.44	.73	.79	-.03	.83	-.21	1.12	.46
28	1.20	.72	1.81	1.10	1.61	.81	.82	.07	1.25	.35	1.39	.69
29	1.39	.80	1.24	.42	.97	.09	.79	.02	---	---	1.52	.79
30	1.15	.48	.75	.05	.65	-.30	1.04	.29	---	---	1.31	.62
31	1.20	.48	---	---	.97	.06	1.32	.39	---	---	1.07	.49
MONTH	1.96	.04	2.05	-.81	1.68	-.30	2.29	-.51	1.58	-.76	1.93	-.67

GROUND-WATER LEVELS

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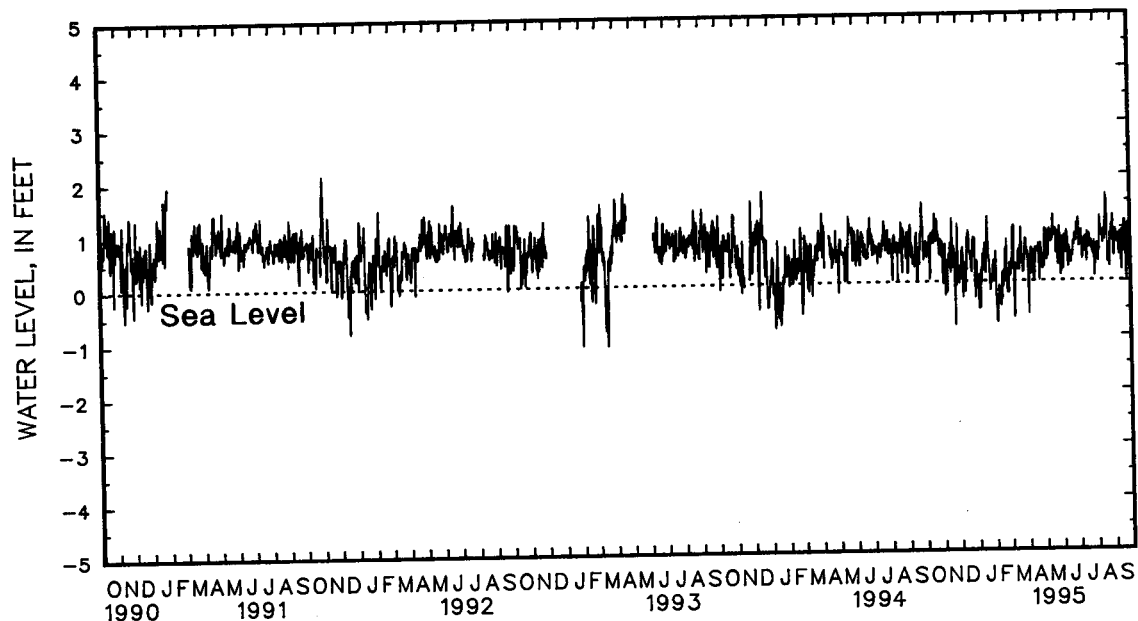
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 29--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.24	.55	1.09	.27	1.19	.53	1.81	1.17	1.44	.69	2.08	.52
2	1.54	.48	1.91	.99	1.35	.81	1.46	.64	1.44	.60	1.13	.46
3	1.85	-.01	1.43	.83	1.37	.79	1.33	.66	1.42	.65	1.53	.81
4	.57	-.62	1.60	.95	1.09	.21	1.49	.93	1.49	.69	1.85	.96
5	.82	.43	1.73	.95	1.28	.55	1.51	.93	1.37	.37	1.80	.91
6	.70	.13	1.13	.39	1.32	.87	1.61	.95	1.23	.59	1.65	.72
7	1.33	.54	1.28	.76	1.40	.58	1.57	.77	1.50	.58	1.58	.72
8	1.21	.62	1.20	.47	1.62	.75	1.53	.40	2.15	1.21	1.59	.86
9	1.20	.14	1.38	.85	1.22	.52	1.04	.56	1.97	1.01	1.59	.87
10	1.14	.57	1.92	.91	1.72	.94	1.55	.77	1.73	.93	1.39	.54
11	1.38	.58	1.48	.98	1.92	.86	1.81	.55	1.60	.84	1.38	.49
12	1.03	.22	1.73	.85	1.76	.39	1.43	.53	1.62	.94	1.50	.81
13	.58	.02	1.60	.74	.98	.26	1.67	.82	1.40	.70	1.47	.91
14	.97	.13	1.72	.74	1.55	.65	1.61	.82	1.68	.89	1.44	.51
15	1.06	.37	1.99	.93	1.38	.51	1.32	.63	1.64	.84	1.27	.21
16	1.40	.62	1.64	.79	1.28	.53	1.30	.36	1.63	.97	1.41	.95
17	---	---	2.12	1.23	1.06	.35	1.64	.91	1.63	.77	1.57	.93
18	---	---	1.69	.97	.96	.35	1.64	.80	1.71	1.07	1.09	.53
19	---	---	1.85	.93	.98	.48	1.40	.62	2.15	1.63	1.12	.65
20	1.24	.54	1.57	.88	1.07	.52	1.40	.88	2.48	1.52	1.57	1.12
21	1.45	.70	1.61	.97	1.03	.47	1.64	.68	2.18	1.20	1.84	1.13
22	1.38	.48	1.45	.52	1.32	.73	1.33	.63	1.73	.34	1.84	.83
23	.90	.01	1.15	.62	1.12	.67	1.34	.75	1.00	.35	.83	-.01
24	1.17	.61	1.55	.92	1.44	.76	1.50	.74	1.62	.66	1.24	.54
25	1.37	.71	1.46	.31	1.68	.88	1.36	.63	.95	.27	1.77	.88
26	1.20	.46	1.04	.32	1.52	.76	1.48	.55	1.71	.87	1.73	1.07
27	1.25	.49	1.34	.50	1.40	.75	1.15	.50	1.57	.89	1.80	1.01
28	1.36	.24	1.68	1.02	1.67	.88	1.19	.57	1.52	.75	1.64	.68
29	1.05	.24	1.97	1.00	1.82	1.08	1.44	.74	1.72	1.05	1.50	.70
30	1.34	.50	1.15	.14	1.57	.96	.82	.08	1.65	.83	1.76	.88
31	---	---	.77	.11	---	---	1.06	.28	2.08	1.22	---	---
MONTH	1.85	-.62	2.12	.11	1.92	.21	1.81	.08	2.48	.27	2.08	-.01
YEAR	2.48	-.81										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 31. SITE ID.--391812076173103 PERMIT NUMBER.--HA-88-1048.
 LOCATION.--Lat 39°18'12", long 76°17'31", Hydrologic Unit 02060003, at J-Field, Edgewood Area,
 Aberdeen Proving Ground.
 Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 35 ft; casing diameter 4 in., to 30 ft;
 screen diameter 4 in. from 30 to 35 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Jan. 12, 1990 to current year.

DATUM.--Elevation of land surface is 12.72 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.90 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF43. Missing data due to recorder malfunction.

PERIOD OF RECORD.--January 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.55 ft above sea level, March 29 and 30, 1994.
 lowest measured, 0.17 ft above sea level, Sept. 17, 1993.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (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	2.34	2.33	1.98	1.91	2.30	2.27	2.87	2.74	3.96	3.93	4.40	4.35
2	2.43	2.33	1.98	1.92	2.30	2.27	2.91	2.87	3.96	3.88	4.35	4.33
3	2.49	2.43	1.92	1.85	2.31	2.30	2.89	2.82	3.88	3.78	4.33	4.30
4	2.49	2.48	1.85	1.84	2.31	2.30	2.82	2.81	3.95	3.78	4.32	4.30
5	2.48	2.45	1.84	1.84	2.49	2.30	2.81	2.72	3.95	3.84	4.32	4.30
6	2.45	2.40	1.87	1.84	2.62	2.49	2.76	2.71	3.84	3.71	4.39	4.30
7	2.40	2.35	1.87	1.81	2.69	2.62	3.20	2.76	3.71	3.64	4.73	4.39
8	2.35	2.34	1.81	1.80	2.69	2.62	3.35	3.20	3.64	3.61	4.79	4.73
9	2.34	2.34	1.82	1.81	2.63	2.60	3.39	3.35	3.61	3.57	4.80	4.79
10	2.34	2.29	1.82	1.80	2.74	2.63	3.39	3.38	3.62	3.58	4.80	4.76
11	2.29	2.19	1.80	1.80	2.95	2.74	3.39	3.38	3.68	3.62	4.76	4.71
12	2.19	2.16	1.80	1.80	2.97	2.95	3.44	3.39	3.70	3.68	4.71	4.68
13	2.16	2.16	1.81	1.80	2.99	2.97	3.44	3.44	3.68	3.62	4.68	4.66
14	2.16	2.15	1.81	1.81	3.00	2.99	3.44	3.42	3.62	3.59	4.67	4.65
15	2.15	2.11	1.82	1.81	3.00	3.00	3.51	3.42	3.62	3.57	4.65	4.60
16	2.11	2.09	1.82	1.81	3.01	3.00	3.62	3.51	3.94	3.62	4.60	4.47
17	2.09	2.05	1.81	1.81	3.07	3.01	3.62	3.59	4.01	3.94	4.47	4.39
18	2.05	2.04	1.86	1.81	3.09	3.07	3.59	3.55	4.09	4.01	4.42	4.39
19	2.05	2.04	1.86	1.85	3.09	3.03	3.59	3.55	4.12	4.09	4.52	4.42
20	2.05	2.04	1.85	1.80	3.03	2.99	4.08	3.59	4.11	3.96	4.54	4.51
21	2.04	2.01	1.89	1.79	2.99	2.96	4.32	4.08	3.96	3.94	4.51	4.42
22	2.01	1.98	1.98	1.89	2.97	2.96	4.33	4.32	3.99	3.95	---	---
23	2.00	1.97	1.99	1.98	3.01	2.97	4.33	4.28	3.95	3.84	---	---
24	2.01	2.00	1.99	1.94	3.05	3.01	4.28	4.21	3.84	3.77	---	---
25	2.02	2.01	1.94	1.94	3.04	2.97	4.21	4.12	3.77	3.74	4.36	4.25
26	2.01	1.97	1.94	1.90	2.97	2.91	4.12	4.07	4.14	3.75	4.25	4.15
27	1.97	1.94	1.90	1.87	2.91	2.89	4.07	4.02	4.39	4.14	4.15	4.12
28	1.94	1.91	2.19	1.89	2.91	2.89	4.02	3.99	4.40	4.39	4.12	4.11
29	1.91	1.91	2.29	2.19	2.91	2.85	3.99	3.92	---	---	4.11	4.06
30	1.91	1.91	2.30	2.29	2.85	2.75	3.93	3.91	---	---	4.06	4.05
31	1.91	1.91	---	---	2.75	2.73	3.94	3.93	---	---	4.05	4.03
MONTH	2.49	1.91	2.30	1.79	3.09	2.27	4.33	2.71	4.40	3.57	4.80	4.03

GROUND-WATER LEVELS

345

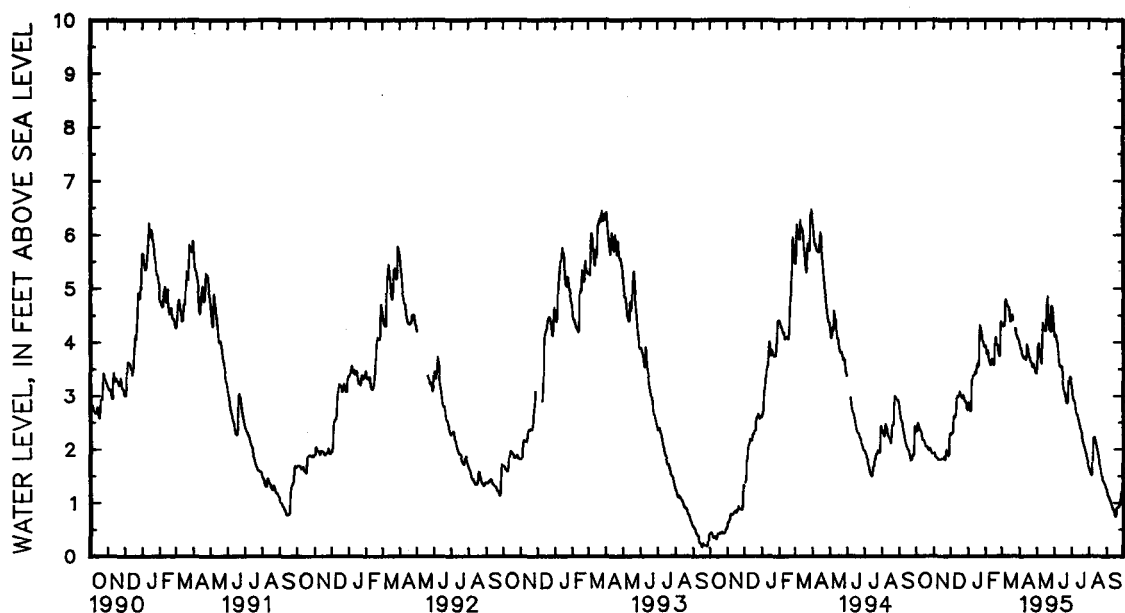
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 31--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.03	3.97	3.68	3.51	4.34	4.18	3.26	3.21	1.67	1.64	1.27	1.24
2	3.97	3.92	3.90	3.68	4.18	4.10	3.21	3.13	1.64	1.61	1.24	1.18
3	3.92	3.88	3.98	3.90	4.13	4.10	3.13	2.98	1.61	1.56	1.18	1.13
4	3.97	3.88	3.98	3.97	4.16	4.13	2.98	2.92	1.56	1.53	1.13	1.11
5	3.95	3.80	3.98	3.97	4.13	4.04	2.92	2.92	1.53	1.51	1.12	1.09
6	3.80	3.75	3.98	3.88	4.04	4.00	2.92	2.89	1.81	1.51	1.09	1.06
7	3.75	3.74	3.88	3.78	4.00	3.92	2.89	2.85	2.12	1.81	1.06	1.03
8	3.74	3.70	3.78	3.66	3.92	3.76	2.85	2.78	2.21	2.12	1.03	1.01
9	3.76	3.71	3.66	3.60	3.76	3.62	2.78	2.69	2.23	2.21	1.01	.98
10	3.76	3.71	3.98	3.60	3.62	3.55	2.69	2.64	2.23	2.22	.98	.94
11	3.71	3.68	4.36	3.98	3.55	3.53	2.64	2.64	2.22	2.18	.94	.89
12	3.74	3.68	4.42	4.36	3.55	3.53	2.64	2.59	2.18	2.14	.89	.87
13	3.96	3.74	4.41	4.30	3.60	3.55	2.59	2.54	2.14	2.08	.87	.87
14	4.00	3.96	4.30	4.26	3.60	3.53	2.54	2.50	2.08	2.03	.87	.82
15	3.98	3.91	4.32	4.28	3.53	3.38	2.50	2.44	2.03	1.98	.82	.75
16	3.91	3.85	4.32	4.22	3.38	3.24	2.44	2.38	1.98	1.93	.75	.74
17	3.85	3.77	4.31	4.21	3.24	3.16	2.38	2.36	1.93	1.87	.89	.75
18	3.77	3.72	4.57	4.31	3.16	3.10	2.36	2.33	1.87	1.80	.92	.89
19	3.73	3.72	4.85	4.57	3.10	3.07	2.33	2.26	1.80	1.74	.92	.91
20	3.73	3.64	4.88	4.85	3.07	3.02	2.26	2.14	1.74	1.70	.92	.91
21	3.65	3.63	4.85	4.70	3.02	2.94	2.14	2.11	1.70	1.67	.92	.92
22	3.65	3.61	4.70	4.49	2.94	2.88	2.11	2.06	1.67	1.59	.96	.92
23	3.61	3.55	4.49	4.32	2.88	2.86	2.06	2.03	1.59	1.50	.99	.96
24	3.63	3.55	4.32	4.23	2.93	2.86	2.03	1.99	1.50	1.48	1.02	.99
25	3.63	3.59	---	---	3.22	2.93	1.99	1.94	1.48	1.42	1.09	1.02
26	3.59	3.53	4.67	4.20	3.29	3.22	1.94	1.90	1.42	1.39	1.18	1.09
27	3.53	3.52	4.75	4.67	3.35	3.29	1.90	1.85	1.39	1.38	1.21	1.18
28	3.52	3.47	4.74	4.67	3.36	3.35	1.85	1.80	1.38	1.35	1.21	1.21
29	3.47	3.42	4.70	4.67	3.36	3.33	1.80	1.78	1.35	1.33	1.21	1.17
30	3.51	3.42	4.69	4.56	3.33	3.26	1.78	1.72	1.33	1.29	1.17	1.16
31	---	---	4.56	4.34	---	---	1.72	1.67	1.29	1.27	---	---
MONTH	4.03	3.42	4.88	3.51	4.34	2.86	3.26	1.67	2.23	1.27	1.27	.74
YEAR	4.88	.74										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 32. SITE ID.--391809076174301 PERMIT NUMBER.--HA-88-1037.

LOCATION.--Lat 39°18'09", long 76°17'43", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, confined aquifer well, depth 90 ft; casing diameter 4 in., to 85 ft; screen diameter 4 in. from 85 to 90 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Dec. 21, 1989 to current year.

DATUM.--Elevation of land surface is 7.42 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.75 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF11. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.02 ft above sea level, Nov. 1, 1991; lowest measured, 1.18 ft below sea level, Feb. 2, 1993.

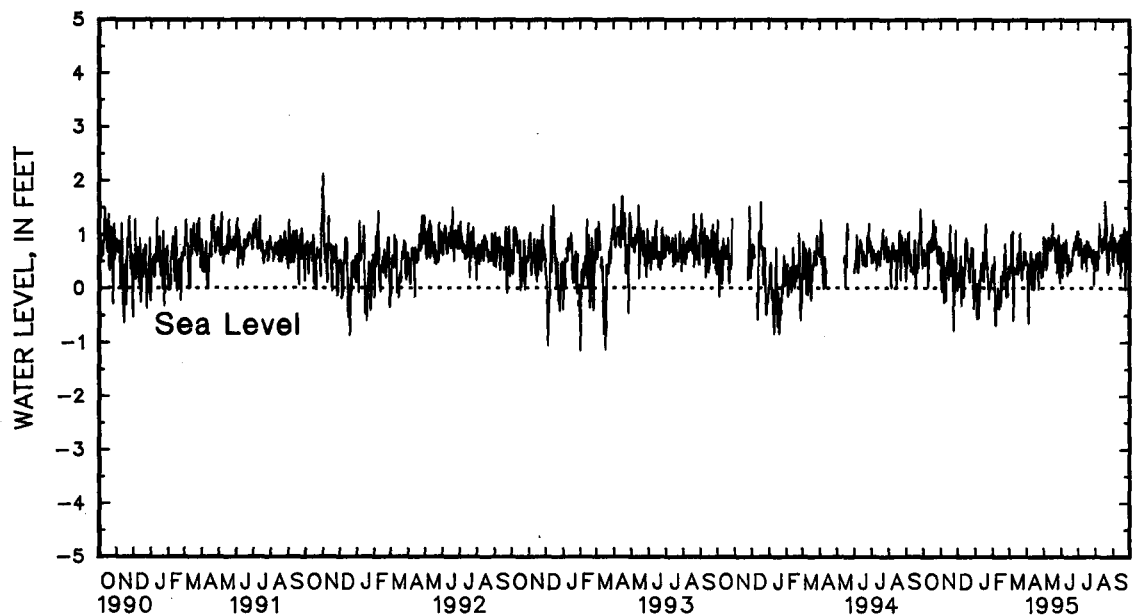
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.38	.66	1.93	.75	.88	-.04	1.37	.34	1.17	.43	.80	.20
2	1.23	.45	1.22	.16	1.36	.27	.80	-.17	.72	.20	.77	.18
3	1.47	.72	.90	-.06	1.02	.19	.92	-.17	1.08	.12	.96	.34
4	1.30	.59	1.23	.22	1.04	.04	.73	-.13	1.22	.59	1.03	.45
5	1.16	.43	1.40	.49	1.59	.37	.37	-.57	.59	-.29	1.25	.30
6	1.39	.48	1.54	.68	1.37	.52	---	---	-.19	-.67	1.64	1.03
7	1.46	.52	1.22	-.27	1.26	.61	.86	-.08	.30	-.69	1.27	.79
8	1.53	.55	.96	.38	.89	-.33	.66	-.56	.31	-.30	1.73	1.05
9	1.53	.83	.95	.18	1.11	.36	.91	.15	.56	-.31	1.15	-.60
10	1.44	.02	.83	-.24	1.15	.39	.67	-.05	.62	-.01	.38	-.55
11	1.36	.14	.93	.37	1.35	.13	1.00	.22	.54	-.12	.92	.38
12	1.44	.86	.88	.29	.69	-.16	1.36	.46	.28	-.36	.76	.28
13	1.54	.88	1.12	.49	.89	.21	1.15	.42	.25	-.38	.90	.28
14	1.49	.71	1.18	.36	1.32	.25	1.07	.15	.19	-.29	.78	.29
15	1.37	.69	1.42	.67	1.45	.84	1.84	.66	.49	-.25	1.19	.28
16	1.91	.92	.73	.16	1.55	.77	1.51	.60	.78	.23	1.11	.56
17	1.38	.69	1.70	.39	1.72	.95	.87	.12	.48	-.02	1.23	.64
18	1.99	.92	1.78	1.17	1.62	.87	1.39	.39	.61	.03	.90	.26
19	1.92	1.26	1.35	.55	1.26	.52	1.71	.86	.71	.13	1.27	.64
20	1.75	1.02	1.15	.24	1.43	.54	2.29	1.19	1.03	.29	1.49	.70
21	1.53	.73	2.08	.62	1.17	.40	2.13	.67	1.29	.63	1.93	1.03
22	1.86	1.07	1.94	.53	.81	.24	1.03	.42	.97	.17	1.37	.54
23	1.79	1.14	.93	.18	1.15	.12	1.05	.34	1.56	.83	1.15	.43
24	1.77	.89	.80	-.80	1.14	.41	1.00	.13	.92	.08	.80	.18
25	1.77	.83	.82	.20	1.62	.61	.58	-.20	.75	-.16	.83	.15
26	1.17	.60	.60	-.09	1.62	.75	.69	.06	.74	-.11	.91	.36
27	1.08	.48	1.36	.10	1.43	.66	.80	-.05	.82	-.14	1.09	.43
28	1.23	.70	1.84	1.08	1.60	.74	.84	.05	1.22	.41	1.41	.67
29	1.41	.77	1.25	.38	.95	.02	.82	.01	---	---	1.34	.64
30	1.18	.46	.77	.02	.64	-.38	1.07	.27	---	---	1.54	.66
31	1.24	.45	---	---	.96	.00	1.34	.37	---	---	1.27	.45
MONTH	1.99	.02	2.08	-.80	1.72	-.38	2.29	-.57	1.56	-.69	1.93	-.60

GROUND-WATER LEVELS
 MARYLAND--Continued
 HARFORD COUNTY--Continued
 HA Fd 32--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.09	.45	1.10	.24	1.21	.51	1.84	1.06	1.47	.66	2.10	.49
2	1.26	.49	1.92	.96	1.37	.79	1.44	.62	1.47	.58	1.17	.43
3	1.56	.45	1.43	.80	1.39	.77	1.35	.63	1.45	.63	1.58	.79
4	1.85	-.36	1.62	.92	1.09	.19	1.53	.91	1.51	.67	1.88	.84
5	.57	-.64	1.74	.91	1.32	.54	1.55	.90	1.41	.34	1.83	.90
6	.89	.40	1.13	.35	1.34	.85	1.64	.91	1.28	.56	1.68	.69
7	.71	.11	1.29	.73	1.45	.55	1.60	.73	1.53	.56	1.62	.71
8	1.34	.53	1.22	.44	1.65	.72	1.55	.37	2.16	1.20	1.63	.82
9	1.22	.69	1.41	.83	1.26	.50	1.08	.53	1.99	.97	1.62	.84
10	1.15	.05	1.92	.86	1.73	.92	1.58	.74	1.76	.90	1.43	.52
11	1.21	.54	1.50	.95	1.94	.84	1.84	.51	1.63	.80	1.41	.47
12	1.22	.54	1.75	.80	1.79	.33	1.48	.50	1.65	.91	1.54	.79
13	1.40	.18	1.62	.71	1.01	.24	1.70	.79	1.43	.67	1.50	.89
14	.79	-.02	1.75	.71	1.59	.62	1.65	.80	1.71	.86	1.45	.49
15	.53	.00	2.00	.89	1.41	.48	1.36	.60	1.64	.81	1.22	.19
16	1.03	.17	1.67	.75	1.31	.49	1.33	.32	1.66	.94	1.38	.95
17	1.12	.34	2.15	1.20	1.09	.32	1.68	.89	1.66	.74	1.59	.92
18	1.42	.59	1.72	.93	.99	.32	1.68	.78	1.76	1.05	1.11	.51
19	---	---	1.87	.89	1.03	.46	1.43	.60	2.18	1.63	1.10	.63
20	1.22	.50	1.59	.85	1.10	.50	1.43	.86	2.49	1.50	1.58	1.02
21	1.47	.66	1.63	.93	1.07	.45	1.68	.64	2.19	1.18	1.86	1.13
22	1.40	.44	1.48	.48	1.35	.71	1.36	.60	1.75	.31	1.86	.95
23	.93	-.02	1.17	.59	1.14	.64	1.37	.77	1.03	.36	.95	-.03
24	1.18	.57	1.57	.89	1.47	.78	1.53	.71	1.64	.62	1.28	.53
25	1.38	.68	1.48	.28	1.70	.86	1.39	.61	.98	.26	1.79	.85
26	1.21	.43	1.06	.33	1.55	.73	1.51	.51	1.74	.87	1.76	1.06
27	1.28	.48	1.36	.50	1.43	.73	1.18	.47	1.60	.87	1.83	.99
28	1.37	.21	1.70	.99	1.69	.86	1.22	.55	1.55	.72	1.74	.64
29	1.07	.21	1.98	.96	1.84	1.05	1.48	.71	1.75	1.03	1.52	.68
30	1.36	.46	1.17	.12	1.60	.94	.85	.06	1.64	.81	1.72	.85
31	---	---	.79	.09	---	---	1.09	.26	2.10	1.20	---	---
MONTH	1.85	-.64	2.15	.09	1.94	.19	1.84	.06	2.49	.26	2.10	-.03
YEAR	2.49	-.80										

Daily Low Water Levels



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 34. SITE ID.--391809076174303 PERMIT NUMBER.--HA-88-1039.

LOCATION.--Lat 39°18'09", long 76°17'43", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 25.5 ft; casing diameter 4 in., to 20.5 ft; screen diameter 4 in. from 20.5 to 25.5 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Dec. 21, 1989 to current year.

DATUM.--Elevation of land surface is 7.18 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.95 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF13. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.38 ft above sea level, April 1, 1993; lowest measured, 0.40 ft below sea level, Sept. 11 and 12, 1993.

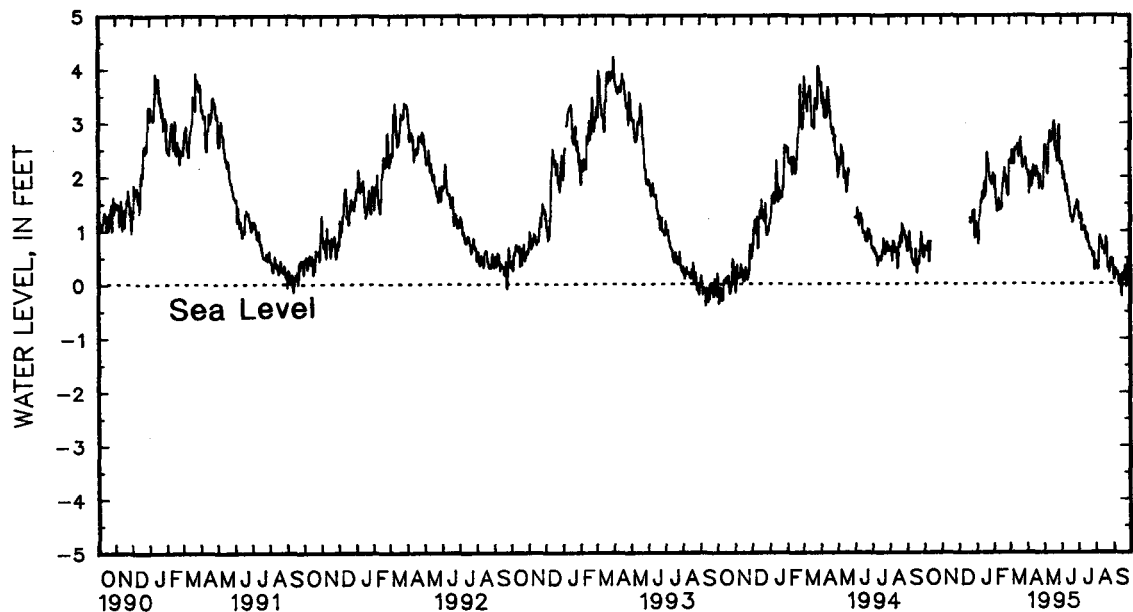
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	.78	.50	---	---	---	---	1.43	1.16	2.23	2.06	2.46	2.29
2	.78	.63	---	---	---	---	1.43	1.03	2.09	1.85	2.36	2.25
3	.86	.70	---	---	---	---	1.16	.93	2.01	1.76	2.42	2.26
4	.81	.69	---	---	---	---	1.17	.97	2.26	2.01	2.45	2.32
5	.76	.63	---	---	---	---	.99	.73	2.10	1.53	2.50	2.23
6	.79	.62	---	---	---	---	1.27	.83	1.53	1.38	2.67	2.50
7	.83	.64	---	---	---	---	1.57	1.27	1.54	1.34	2.57	2.44
8	.86	.66	---	---	---	---	1.55	1.32	1.60	1.42	2.74	2.46
9	.89	.78	---	---	---	---	1.75	1.55	1.67	1.37	2.74	2.28
10	.90	.41	---	---	---	---	1.70	1.51	1.72	1.60	2.44	2.22
11	.63	.42	---	---	---	---	1.79	1.59	1.66	1.52	2.72	2.44
12	.79	.63	---	---	---	---	1.93	1.71	1.65	1.44	2.65	2.54
13	.88	.79	---	---	---	---	1.91	1.73	1.49	1.38	2.66	2.53
14	---	---	---	---	---	---	1.78	1.58	1.49	1.41	2.62	2.51
15	---	---	---	---	---	---	2.17	1.77	1.67	1.41	2.73	2.49
16	---	---	---	---	---	---	2.17	1.92	1.88	1.67	2.71	2.60
17	---	---	---	---	---	---	1.95	1.62	1.89	1.80	2.71	2.61
18	---	---	---	---	---	---	1.95	1.71	2.01	1.86	2.63	2.35
19	---	---	---	---	---	---	2.18	1.92	2.09	1.95	2.59	2.44
20	---	---	---	---	---	---	2.88	2.18	2.25	2.05	2.74	2.47
21	---	---	---	---	1.47	1.23	2.89	2.45	2.33	2.17	2.94	2.74
22	---	---	---	---	1.32	1.16	2.46	2.32	2.17	1.92	2.78	2.53
23	---	---	---	---	1.35	1.13	2.38	2.25	2.37	2.02	2.57	2.42
24	---	---	---	---	1.39	1.20	2.34	2.07	2.24	1.83	2.45	2.22
25	---	---	---	---	1.49	1.24	2.07	1.93	1.88	1.66	2.24	2.16
26	---	---	---	---	1.55	1.36	2.11	1.99	1.93	1.69	2.28	2.20
27	---	---	---	---	1.47	1.31	2.08	1.91	1.89	1.63	2.33	2.23
28	---	---	---	---	1.55	1.37	2.08	1.95	2.46	1.89	2.45	2.29
29	---	---	---	---	1.43	1.07	2.03	1.85	---	---	2.39	2.30
30	---	---	---	---	1.07	.85	2.14	1.97	---	---	2.47	2.35
31	---	---	---	---	1.20	.98	2.23	2.01	---	---	2.38	2.24
MONTH	.90	.41	---	---	1.55	.85	2.89	.73	2.46	1.34	2.94	2.16

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued
HA Fd 34--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.24	2.13	2.20	1.96	2.35	2.23	1.66	1.52	.55	.43	.70	.21
2	2.23	2.11	2.63	2.20	2.35	2.24	1.59	1.27	.61	.41	.28	.07
3	2.35	2.05	2.63	2.51	2.38	2.27	1.29	1.20	.59	.39	.32	.10
4	2.59	2.10	2.70	2.59	2.29	1.95	1.40	1.27	.59	.39	.51	.29
5	2.10	1.67	2.75	2.57	2.08	1.95	1.42	1.30	.52	.27	.49	.28
6	2.03	1.78	2.57	2.23	2.20	2.08	1.44	1.30	.63	.27	.42	.17
7	2.04	1.81	2.38	2.23	2.14	1.95	1.42	1.20	.80	.56	.35	.16
8	2.17	1.81	2.33	2.05	2.14	1.87	1.35	1.00	1.11	.80	.39	.24
9	2.21	2.10	2.22	2.05	1.89	1.71	1.09	.99	1.10	.90	.34	.22
10	2.10	1.81	2.76	2.21	1.99	1.71	1.24	1.01	.99	.84	.33	.08
11	2.11	1.89	2.98	2.68	2.09	1.85	1.36	1.06	.92	.77	.16	-.01
12	2.21	2.02	3.07	2.85	2.01	1.74	1.17	1.00	.91	.79	.25	.12
13	2.39	2.21	2.92	2.68	1.74	1.54	1.24	1.07	.87	.63	.28	.16
14	2.24	2.09	2.95	2.64	1.82	1.61	1.22	1.05	.82	.68	.26	-.04
15	2.09	2.01	3.08	2.77	1.72	1.46	1.07	.92	.86	.68	.00	-.23
16	2.18	2.00	2.78	2.66	1.55	1.41	.98	.82	.81	.67	.21	-.04
17	2.20	2.08	2.96	2.73	1.47	1.29	1.11	.94	.81	.54	.38	.21
18	2.29	2.14	3.02	2.88	1.36	1.24	1.15	.91	.71	.57	.23	.07
19	2.42	2.19	3.28	3.02	1.34	1.25	1.01	.76	.88	.67	.14	.07
20	2.35	2.05	3.14	3.04	1.36	1.23	.94	.78	1.11	.88	.35	.13
21	2.27	2.07	3.10	2.91	1.31	1.14	.99	.71	1.03	.74	.48	.32
22	2.22	2.01	2.94	2.53	1.37	1.14	.84	.64	.81	.31	.57	.35
23	2.01	1.75	2.59	2.48	1.33	1.27	.81	.64	.38	.29	.41	-.07
24	2.12	1.85	2.65	2.48	1.46	1.27	.85	.65	.63	.37	.30	.03
25	2.19	2.04	2.54	2.27	1.63	1.42	.78	.62	.45	.19	.56	.27
26	2.09	1.89	2.77	2.32	1.59	1.43	.80	.57	.61	.28	.59	.48
27	2.09	1.88	2.97	2.75	1.54	1.40	.64	.51	.61	.47	.60	.45
28	2.13	1.80	3.04	2.92	1.70	1.46	.64	.51	.53	.36	.60	.30
29	1.89	1.75	3.19	2.96	1.76	1.55	.73	.58	.61	.48	.40	.25
30	2.02	1.83	2.96	2.32	1.59	1.48	.58	.26	.59	.37	.47	.32
31	---	---	2.33	2.22	---	---	.43	.28	.64	.46	---	---
MONTH	2.59	1.67	3.28	1.96	2.38	1.14	1.66	.26	1.11	.19	.70	-.23
YEAR	3.28	-.23										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 35. SITE ID.--391809076174601 PERMIT NUMBER.--HA-88-1040.

LOCATION.--Lat 39°18'09", Long 76°17'46", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, confined aquifer well, depth 71 ft; casing diameter 4 in., to 68 ft; screen diameter 4 in. from 68 to 71 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Dec. 21, 1989 to current year.

DATUM.--Elevation of land surface is 2.99 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.92 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF21. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.84 ft above sea level, Oct. 29, 1991; lowest measured, 1.09 ft below sea level, March 18, 1993.

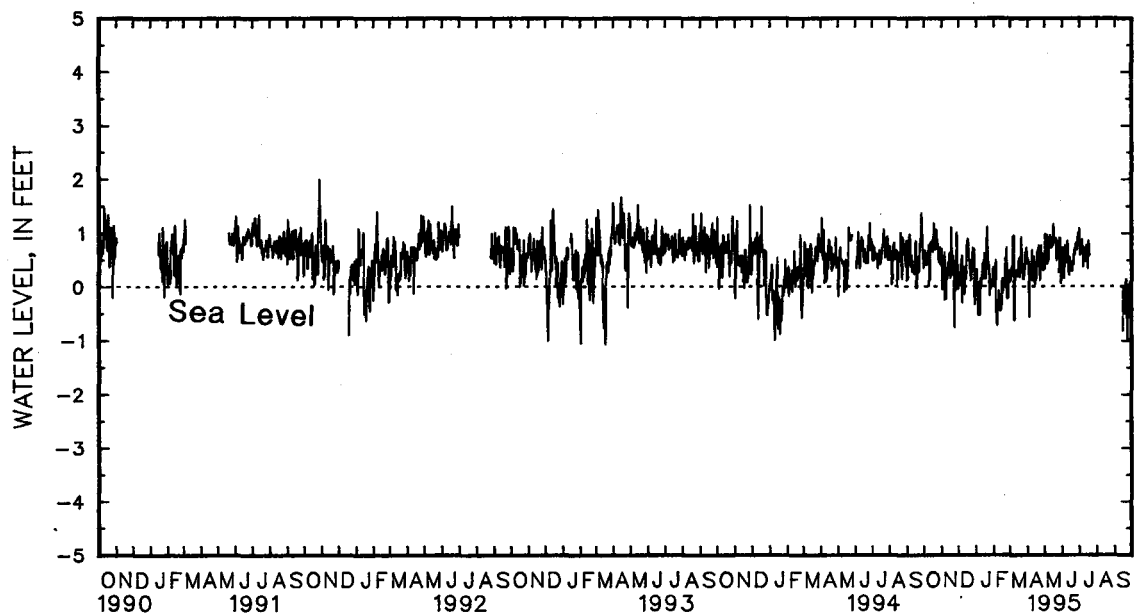
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.30	.68	1.84	.71	.84	-.05	1.31	.32	1.12	.35	.80	.12
2	1.16	.41	1.15	.15	1.29	.26	.78	-.16	.72	.11	.78	.09
3	1.38	.67	.86	-.06	.97	.18	.87	-.15	1.06	.03	.97	.26
4	1.23	.54	1.16	.20	.96	.03	.68	-.12	1.19	.50	1.04	.37
5	1.10	.40	1.32	.46	1.50	.34	.34	-.54	.50	-.36	1.22	.22
6	1.31	.44	1.45	.64	1.30	.48	.75	.08	-.23	-.68	1.59	.94
7	1.38	.49	1.16	-.26	1.20	.58	.82	-.07	.30	-.73	1.25	.68
8	1.45	.50	.92	.35	.84	-.31	.63	-.53	.30	-.36	1.65	.98
9	1.43	.77	.90	.16	1.06	.34	.87	.16	.54	-.38	1.06	-.64
10	1.31	.00	.79	-.23	1.09	.37	.64	-.04	.60	-.07	.36	-.60
11	1.31	.13	.88	.35	1.29	.13	.95	.22	.54	-.18	.91	.31
12	1.39	.80	.85	.28	.64	-.15	1.30	.44	.26	-.43	.76	.20
13	1.44	.83	1.06	.46	.84	.20	1.11	.41	.27	-.45	.91	.22
14	---	---	1.13	.34	1.25	.25	1.03	.15	.22	-.36	.78	.20
15	1.30	.66	1.35	.63	1.36	.79	1.75	.63	.48	-.31	1.18	.20
16	1.82	.87	.70	.15	1.46	.73	1.42	.57	.76	.16	1.13	.46
17	1.30	.65	1.62	.37	1.62	.90	.83	.13	.46	-.12	1.23	.53
18	1.89	.87	1.69	1.11	1.53	.82	1.32	.37	.59	-.05	.88	.18
19	1.82	1.19	1.28	.52	1.19	.48	1.63	.82	.69	.04	1.26	.52
20	1.66	.97	1.09	.23	1.36	.50	2.18	1.14	1.03	.22	1.47	.59
21	1.45	.69	1.96	.57	1.12	.38	2.04	.64	1.27	.54	1.86	.94
22	1.78	1.02	1.82	.49	.79	.23	1.00	.40	1.01	.11	1.35	.43
23	1.70	1.07	.88	.17	1.10	.11	1.01	.32	1.52	.74	1.15	.34
24	1.68	.85	.75	-.77	1.08	.39	.97	.13	.91	-.02	.78	.14
25	1.68	.79	.77	.18	1.54	.58	.56	-.18	.73	-.23	.64	.13
26	1.11	.56	.55	-.08	1.54	.73	.66	.07	.73	-.20	.84	.33
27	1.03	.45	1.28	.09	1.36	.63	.77	-.04	.80	-.21	1.03	.39
28	1.18	.66	1.73	1.02	1.52	.70	.81	.06	1.22	.31	1.34	.64
29	1.33	.74	1.18	.36	.92	.02	.77	.02	---	---	1.28	.61
30	1.13	.42	.73	.02	.59	-.35	1.03	.27	---	---	1.47	.73
31	1.17	.42	---	---	.92	.00	1.29	.36	---	---	1.22	.55
MONTH	1.89	.00	1.96	-.77	1.62	-.35	2.18	-.54	1.52	-.73	1.86	-.64

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued
HA Fd 35--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.06	.44	1.15	.33	1.13	.45	1.76	1.09	---	---	---	---
2	1.22	.50	1.93	.99	1.28	.73	1.37	.59	---	---	---	---
3	1.50	.43	1.46	.86	1.29	.70	1.29	.60	---	---	---	---
4	1.79	.02	1.63	.97	1.01	.15	1.45	.87	---	---	---	---
5	.54	-.59	1.74	.96	1.22	.47	1.47	.86	---	---	---	---
6	.88	.39	1.14	.42	1.24	.78	1.57	.88	---	---	---	---
7	.81	.14	1.29	.78	1.35	.49	1.53	.71	---	---	---	---
8	1.30	.45	1.24	.49	1.53	.66	1.50	.36	---	---	---	---
9	1.20	.69	1.46	.87	1.18	.45	1.04	.51	---	---	---	---
10	.92	.10	1.90	.89	1.64	.86	1.52	.72	---	---	---	---
11	1.19	.54	1.48	.96	1.84	.78	1.76	.49	---	---	---	---
12	1.22	.56	1.72	.82	1.69	.30	1.42	.48	---	---	---	---
13	1.38	.22	1.60	.72	.95	.21	1.64	.77	---	---	---	---
14	.81	.10	1.72	.74	1.49	.56	1.58	.77	---	---	---	---
15	.56	.04	1.96	.87	1.32	.44	1.31	.59	---	---	.32	-.82
16	1.04	.19	1.64	.77	1.23	.44	1.29	.33	---	---	.44	-.06
17	1.14	.38	2.07	1.17	1.03	.30	1.63	.87	---	---	.58	-.09
18	1.43	.63	1.68	.91	.94	.30	1.63	.76	---	---	.10	-.50
19	1.72	.67	1.82	.88	.97	.42	1.39	.59	---	---	.16	-.38
20	1.30	.61	1.54	.84	1.05	.47	---	---	---	---	.58	.15
21	1.54	.77	1.57	.90	1.01	.42	---	---	---	---	.86	.11
22	1.47	.55	1.42	.47	1.28	.67	---	---	---	---	.85	-.25
23	1.05	.11	1.17	.57	1.09	.60	---	---	---	---	-.25	-1.03
24	1.26	.68	1.50	.85	1.39	.74	---	---	---	---	.26	-.48
25	1.44	.77	---	---	1.62	.81	---	---	---	---	.79	-.15
26	1.29	.52	.98	.27	1.46	.69	---	---	---	---	.75	.04
27	1.34	.61	1.25	.43	1.37	.69	---	---	---	---	.82	-.03
28	1.42	.31	1.58	.91	1.62	.82	---	---	---	---	.59	-.37
29	1.14	.31	1.86	.89	1.76	1.01	---	---	---	---	.52	-.32
30	1.38	.50	1.09	.09	1.52	.90	---	---	---	---	.79	-.15
31	---	---	.73	.06	---	---	---	---	---	---	---	---
MONTH	1.79	-.59	2.07	.06	1.84	.15	1.76	.33	---	---	.86	-1.03
YEAR	2.18	-1.03										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 37. SITE ID.--391809076174603 PERMIT NUMBER.--HA-88-1042.
 LOCATION.--Lat 39°18'09", long 76°17'46", Hydrologic Unit 02060003, at J-Field, Edgewood Area,
 Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 4 in., to 16 ft;
 screen diameter 4 in. from 16 to 19 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Dec. 21, 1989 to current year.

DATUM.--Elevation of land surface is 3.10 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 2.68 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF23. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.96 ft above sea level, Jan. 22, 1993;
 lowest measured, 0.49 ft below sea level, Oct. 5, 1993.

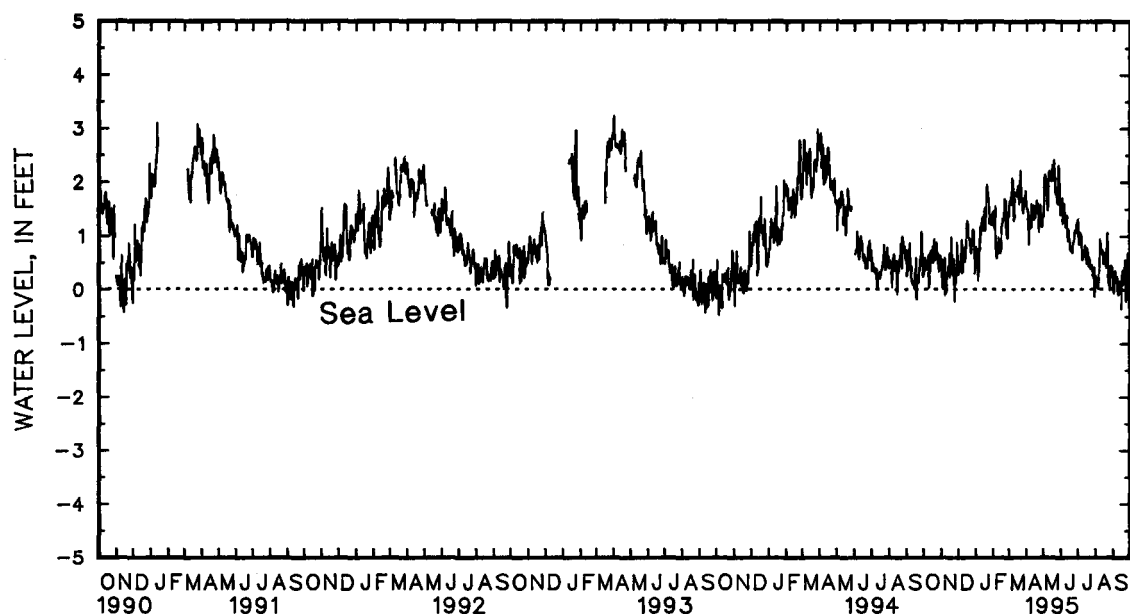
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	.82	.25	1.23	.55	.73	.27	1.36	.80	1.91	1.46	2.04	1.64
2	.79	.41	.98	.24	1.08	.51	1.26	.53	1.61	1.20	1.90	1.59
3	.95	.60	.46	.00	.92	.48	1.00	.46	1.71	1.13	2.01	1.66
4	.80	.49	.72	.19	.83	.33	1.00	.49	1.90	1.56	2.05	1.73
5	.72	.37	.87	.41	1.35	.62	.66	.16	1.56	.77	2.16	1.59
6	.84	.39	1.00	.59	1.34	.84	1.06	.53	.77	.61	2.41	2.08
7	.91	.44	.98	-.12	1.24	.93	1.34	.95	1.04	.58	2.21	1.89
8	.95	.45	.60	.29	1.06	.30	1.28	.73	1.09	.70	2.46	2.03
9	.96	.64	.60	.14	1.04	.70	1.54	1.18	1.24	.67	2.33	1.34
10	.96	.02	.40	-.08	1.11	.77	1.37	1.03	1.32	.97	1.78	1.28
11	.67	.10	.55	.31	1.35	.73	1.59	1.18	1.21	.85	2.21	1.78
12	.86	.67	.57	.30	.96	.51	1.81	1.34	1.10	.73	2.05	1.81
13	1.00	.72	.75	.44	1.10	.80	1.66	1.36	1.00	.68	2.12	1.80
14	.98	.53	.77	.36	1.37	.77	1.56	1.10	.99	.74	2.03	1.76
15	.84	.51	.98	.68	1.49	1.19	2.14	1.44	1.22	.76	2.25	1.74
16	1.23	.80	.73	.22	1.54	1.14	2.11	1.53	1.51	1.16	2.18	1.90
17	.80	.50	1.17	.34	1.64	1.28	1.61	1.10	1.47	1.20	2.23	1.94
18	1.25	.65	1.27	.98	1.57	1.21	1.82	1.30	1.60	1.27	2.00	1.58
19	1.22	.94	1.18	.54	1.51	.96	2.07	1.65	1.67	1.36	2.17	1.81
20	1.11	.76	.77	.28	1.43	.96	2.88	1.95	1.88	1.47	2.34	1.85
21	1.04	.53	1.43	.57	1.42	.89	2.88	1.91	2.03	1.69	2.64	2.21
22	1.17	.76	1.43	.55	1.14	.75	2.03	1.73	1.71	1.30	2.27	1.82
23	1.17	.87	.76	.27	1.20	.67	1.99	1.67	2.16	1.66	2.08	1.68
24	1.16	.66	.37	-.24	1.22	.81	1.93	1.43	1.79	1.15	1.83	1.48
25	1.15	.66	.64	.34	1.50	.94	1.53	1.22	1.48	.96	1.66	1.42
26	.79	.47	.46	.11	1.56	1.12	1.65	1.37	1.53	1.02	1.77	1.53
27	.67	.33	.88	.21	1.40	1.04	1.66	1.25	1.52	.96	1.87	1.60
28	.71	.51	1.42	.88	1.50	1.09	1.67	1.32	2.17	1.39	2.09	1.72
29	.91	.62	1.16	.64	1.13	.62	1.61	1.21	---	---	2.00	1.72
30	.76	.36	.72	.35	.77	.29	1.78	1.41	---	---	2.14	1.84
31	.73	.36	---	---	1.01	.54	1.94	1.44	---	---	1.94	1.63
MONTH	1.25	.02	1.43	-.24	1.64	.27	2.88	.16	2.17	.58	2.64	1.28

GROUND-WATER LEVELS
 MARYLAND--Continued
 HARFORD COUNTY--Continued
 HA Fd 37--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.77	1.50	1.91	1.40	1.90	1.56	1.83	1.31	.66	.25	.33	.00
2	1.85	1.50	2.52	1.91	1.96	1.68	1.43	.84	.71	.19	.49	-.07
3	2.07	1.45	2.36	2.06	2.00	1.71	1.16	.84	.68	.18	.87	.34
4	2.35	1.32	2.46	2.14	1.83	1.21	1.32	1.06	.70	.20	.83	.34
5	1.32	.83	2.52	2.09	1.75	1.39	1.34	1.02	.58	.01	.70	.25
6	1.57	1.26	2.12	1.60	1.81	1.60	1.39	1.02	.69	.12	.58	.13
7	1.55	1.14	2.04	1.72	1.69	1.37	1.34	.86	.95	.44	.64	.23
8	1.83	1.18	1.98	1.47	1.87	1.34	1.26	.55	1.47	.95	.57	.23
9	1.83	1.61	1.90	1.56	1.53	1.15	.86	.58	1.38	.87	.56	-.03
10	1.63	1.15	2.58	1.87	1.82	1.38	1.20	.72	1.18	.75	.16	-.10
11	1.78	1.49	2.58	2.18	1.96	1.36	1.40	.65	1.08	.67	.47	-.09
12	1.85	1.50	2.72	2.21	1.82	1.06	1.11	.63	1.07	.73	.51	.14
13	2.08	1.57	2.55	2.05	1.21	.91	1.27	.82	1.00	.69	---	---
14	1.73	1.41	2.62	2.03	1.62	1.12	1.22	.77	.88	.47	---	---
15	1.51	1.31	2.82	2.18	1.46	.94	.97	.58	1.06	.64	.16	-.36
16	1.79	1.36	2.43	2.03	1.32	.92	.92	.48	.99	.59	.44	.16
17	1.84	1.50	2.73	2.25	1.16	.75	1.15	.76	.98	.68	.69	.36
18	2.02	1.63	2.63	2.31	1.02	.71	1.16	.63	.99	.61	.40	.08
19	2.20	1.66	2.88	2.41	1.00	.77	.95	.43	.86	.41	.34	.14
20	2.02	1.51	2.62	2.32	1.07	.77	.91	.59	1.18	.61	.68	.30
21	1.99	1.59	2.61	2.24	1.03	.68	1.07	.45	1.58	1.00	.91	.54
22	1.92	1.46	2.44	1.77	1.20	.85	.82	.39	1.42	1.06	.95	.54
23	1.49	1.07	2.04	1.79	1.10	.89	.82	.39	1.08	.13	.55	-.23
24	1.78	1.42	2.26	1.87	1.32	.91	.90	.45	.70	.13	.56	.08
25	1.94	1.58	2.11	1.60	1.57	1.10	.82	.39	.91	.11	.98	.43
26	1.80	1.37	2.17	1.64	1.47	1.06	.88	.33	.92	-.02	.98	.67
27	1.79	1.37	2.49	1.99	1.40	1.06	.60	.25	.85	.44	1.01	.60
28	1.87	1.19	2.66	2.32	1.63	1.17	.64	.31	.89	.35	1.01	.33
29	1.56	1.16	2.86	2.25	1.74	1.24	.82	.41	.86	.43	.74	.30
30	1.77	1.36	2.25	1.42	1.48	1.16	.46	-.14	.83	.32	.86	.44
31	---	---	1.69	1.39	---	---	.42	.01	1.07	.22	---	---
MONTH	2.35	.83	2.88	1.39	2.00	.68	1.63	-.14	1.58	-.02	1.01	-.36
YEAR	2.88	-.36										

Daily Low Water Levels



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 38. SITE ID.--391826076173101. PERMIT NUMBER.--HA-88-1067.

LOCATION.--Lat 39°18'26", Long 76°17'31", Hydrologic Unit 02060003, at J-Field, Edgewood Area, Aberdeen Proving Ground.

Owner: U.S. Army.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, confined aquifer well, depth 75 ft; casing diameter 4 in., to 72 ft; screen diameter 4 in. from 72 to 75 ft.

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

Equipped with digital water-level recorder--15-minute recorder interval from Jan. 17, 1990 to current year.

DATUM.--Elevation of land surface is 6.51 ft above National Geodetic Vertical Datum of 1929.

Measuring Point: Top of casing, 3.09 ft above land surface.

REMARKS.--J-Field Remedial Investigation observation well JF111. Missing data due to recorder malfunction.

PERIOD OF RECORD.--January 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.00 ft above sea level, Nov. 1, 1991; lowest measured, 1.12 ft below sea level, Feb. 2, 1993.

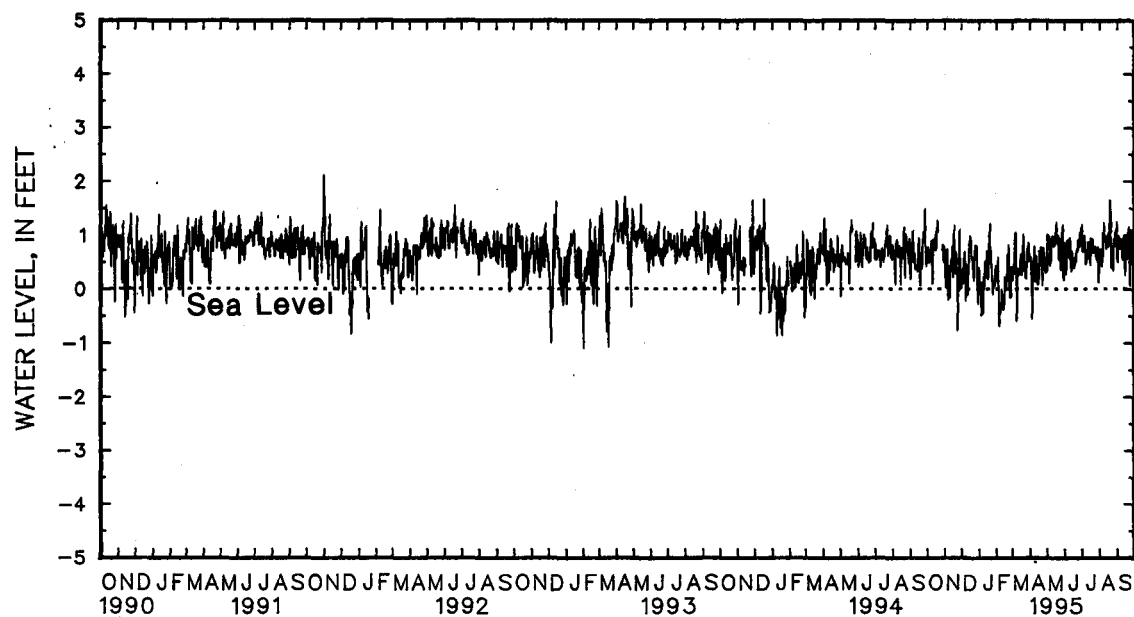
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	1.32	.60	1.85	.77	.83	.02	1.30	.41	1.10	.43	.80	.20
2	1.19	.51	1.25	.29	1.29	.35	.92	-.08	.72	.20	.77	.18
3	1.41	.78	.84	.02	.95	.26	.87	-.07	1.08	.12	.96	.34
4	1.23	.64	1.15	.29	.95	.11	.78	-.06	1.22	.59	1.03	.45
5	1.10	.50	1.31	.56	1.50	.45	.34	-.49	.59	-.29	1.25	.30
6	1.32	.55	1.47	.74	1.39	.59	.75	.13	-.19	-.67	1.64	1.03
7	1.40	.59	1.28	-.21	1.27	.69	.82	.00	.30	-.69	1.27	.79
8	1.47	.61	.93	.43	.95	-.23	.62	-.46	.31	-.30	1.73	1.05
9	1.47	.90	.91	.24	1.02	.43	.86	.23	.56	-.31	1.15	-.60
10	1.44	.09	.71	-.16	1.08	.45	.64	.01	.62	-.01	.38	-.55
11	1.24	.20	.90	.42	1.30	.18	.97	.28	.54	-.12	.92	.38
12	1.38	.91	.83	.34	.67	-.10	1.30	.51	.28	-.36	.76	.28
13	1.49	.92	1.06	.53	.84	.28	1.08	.52	.25	-.38	.90	.28
14	1.44	.75	1.12	.42	1.29	.31	1.02	.23	.19	-.29	.78	.29
15	1.28	.73	1.36	.79	1.38	.86	1.80	.71	.49	-.25	1.19	.28
16	1.88	1.01	.79	.21	1.49	.81	1.56	.68	.78	.23	1.11	.56
17	1.30	.74	1.68	.43	1.64	.99	.84	.19	.48	-.02	1.23	.64
18	1.93	.96	1.72	1.19	1.57	.91	1.34	.46	.61	.03	.90	.26
19	1.84	1.28	1.45	.60	1.37	.58	1.66	.91	.71	.13	1.27	.64
20	1.67	1.07	1.10	.30	1.37	.59	2.26	1.22	1.03	.29	1.49	.70
21	---	---	2.03	.68	1.24	.47	2.18	.72	1.29	.63	1.93	1.03
22	---	---	1.97	.56	.86	.30	1.02	.50	.97	.17	1.37	.54
23	---	---	.95	.22	1.12	.17	1.02	.44	1.56	.83	1.15	.43
24	---	---	.71	-.77	1.12	.45	.96	.21	.92	.06	.80	.23
25	---	---	.82	.26	1.57	.66	.55	-.10	.75	-.16	.67	.21
26	---	---	.57	-.03	1.59	.82	.67	.12	.74	-.11	.85	.41
27	---	---	1.22	.14	1.37	.73	.76	.03	.82	-.14	1.01	.49
28	1.13	.74	1.77	1.11	1.53	.80	.81	.14	1.22	.41	1.35	.75
29	1.36	.81	1.22	.45	.92	.12	.78	.08	---	---	1.28	.72
30	1.12	.52	.72	.10	.59	-.28	1.01	.33	---	---	1.49	.87
31	1.15	.51	---	---	.90	.08	1.28	.43	---	---	1.22	.64
MONTH	1.93	.09	2.03	-.77	1.64	-.28	2.26	-.49	1.56	-.89	1.93	-.60

GROUND-WATER LEVELS
 MARYLAND--Continued
 HARFORD COUNTY--Continued
 HA Fd 38--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.04	.53	1.12	.33	1.19	.58	1.80	1.20	1.41	.73	2.06	.57
2	1.21	.59	1.92	1.03	1.33	.85	1.53	.70	1.41	.68	1.11	.51
3	1.51	.52	1.43	.87	1.35	.85	1.28	.71	1.40	.70	1.46	.86
4	1.83	-.03	1.60	.99	.91	.28	1.49	.98	1.47	.73	1.85	.99
5	.58	-.56	1.73	.99	1.16	.60	1.49	.97	1.33	.43	1.78	.95
6	.88	.45	1.13	.45	1.31	.92	1.59	.99	1.22	.64	1.62	.76
7	.80	.20	1.27	.81	1.21	.62	1.55	.82	1.47	.63	1.56	.76
8	1.32	.52	1.19	.51	1.62	.80	1.51	.47	2.16	1.24	1.56	.90
9	1.19	.80	1.32	.83	1.22	.57	1.04	.50	1.94	1.05	1.56	.92
10	.99	.13	1.92	.93	1.72	.92	1.53	.72	1.70	.97	1.38	.60
11	1.20	.61	1.45	.99	1.91	.95	1.80	.71	1.57	.89	1.36	.55
12	1.20	.61	1.71	.89	1.75	.57	1.41	.58	1.58	.98	1.47	.85
13	1.35	.27	1.57	.81	.97	.33	1.64	.88	1.37	.75	1.43	.96
14	.76	.09	1.69	.81	1.54	.71	1.59	.87	1.66	.94	1.43	.54
15	.53	.09	1.95	.99	1.36	.57	1.30	.69	1.63	.88	1.23	.26
16	1.00	.22	1.61	.85	1.26	.57	1.26	.45	1.59	1.00	1.36	.96
17	1.10	.44	2.10	1.25	1.05	.41	1.53	.95	1.62	.80	1.54	.95
18	1.39	.70	1.67	1.03	.95	.41	1.62	.85	1.65	1.10	1.08	.56
19	---	---	1.82	.97	.95	.54	1.39	.69	2.10	1.65	1.10	.69
20	1.27	.61	1.54	.91	1.06	.58	1.39	.92	2.47	1.52	1.55	1.10
21	1.44	.77	1.58	1.00	1.03	.52	1.63	.72	2.18	1.23	1.83	1.15
22	1.37	.54	1.42	.55	1.31	.69	1.32	.69	1.71	.40	1.82	.89
23	.89	.07	1.11	.66	1.12	.71	1.33	.76	1.00	.40	.89	.05
24	1.19	.67	1.51	.94	1.43	.71	1.47	.79	1.61	.73	1.22	.58
25	1.36	.76	1.42	.37	1.67	.91	1.34	.70	.95	.34	1.74	.91
26	1.19	.52	1.03	.37	1.49	.86	1.47	.61	1.71	.90	1.69	1.10
27	1.24	.53	1.33	.54	1.39	.80	1.13	.55	1.56	.93	1.78	1.03
28	1.34	.32	1.68	1.05	1.67	.92	1.17	.62	1.49	.81	1.66	.72
29	1.05	.31	1.97	1.19	1.81	1.13	1.43	.77	1.69	1.09	1.47	.74
30	1.32	.58	1.19	.23	1.55	.98	.82	.14	1.66	.88	1.71	.91
31	---	---	.78	.18	---	---	1.05	.35	2.06	1.25	---	---
MONTH	1.83	-.56	2.10	.18	1.91	.28	1.80	.14	2.47	.34	2.06	.05
YEAR	2.47	-.77										

Daily Low Water Levels



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 40. SITE ID.--391826076173103 PERMIT NUMBER.--HA-88-1069.
 LOCATION.--Lat 39°18'26", long 76°17'31", Hydrologic Unit 02060003, at J-Field, Edgewood Area,
 Aberdeen Proving Ground.
 Owner: U.S. Army.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 25 ft; casing diameter 4 in., to 22 ft;
 screen diameter 4 in. from 22 to 25 ft.
 INSTRUMENTATION.--Measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--15-minute recorder interval from Jan. 17, 1990 to current year.
 DATUM.--Elevation of land surface is 6.77 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.52 ft above land surface.
 REMARKS.--J-Field Remedial Investigation observation well JF113. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--January 1990 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft above sea level, March 4 and 5, 1993;
 lowest measured, 0.67 ft below sea level, Nov. 18, 1993.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (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	1.24	.68	1.41	.44	.82	.15	1.45	.65	1.94	1.33	2.20	1.71
2	1.08	.55	.89	.14	1.21	.40	1.15	.36	1.61	1.12	2.25	1.74
3	.99	.42	.57	-.13	.93	.33	1.09	.33	1.81	1.06	2.39	1.87
4	1.14	.45	.84	.09	.93	.20	1.05	.36	1.95	1.57	2.45	1.93
5	1.18	.48	.98	.29	1.50	.46	.66	.11	1.57	.81	2.57	1.79
6	1.19	.47	1.12	.45	1.41	.74	.99	.47	.81	.70	2.88	2.37
7	1.23	.68	1.02	-.24	1.35	.82	1.27	.69	1.20	.70	2.60	2.12
8	1.22	.03	.64	.21	1.10	.18	1.24	.53	1.24	.76	2.88	2.32
9	.62	.13	.62	.02	1.13	.64	1.49	.95	1.37	.74	2.55	1.53
10	1.13	.62	.44	-.22	1.21	.66	1.29	.78	1.46	.96	2.06	1.50
11	1.23	.73	.65	.26	1.46	.64	1.51	.95	1.41	.89	2.53	2.06
12	---	---	.59	.19	1.04	.43	1.79	1.12	1.23	.80	2.37	1.96
13	---	---	.79	.33	1.19	.71	1.61	1.12	1.19	.75	2.46	1.96
14	---	---	.83	.22	1.54	.72	1.53	.86	1.17	.79	2.35	1.92
15	.95	.50	1.03	.57	1.62	1.17	2.16	1.25	1.39	.80	2.64	1.90
16	1.47	.74	.57	.05	1.67	1.08	2.00	1.27	1.71	1.19	2.56	2.07
17	.97	.46	1.27	.23	1.79	1.21	1.45	.91	1.61	1.16	2.64	2.13
18	1.48	.65	1.34	.86	1.70	1.12	1.86	1.12	1.75	1.24	2.27	1.75
19	1.40	.90	1.11	.38	1.52	.85	2.09	1.48	1.86	1.34	2.58	2.00
20	1.24	.69	.80	.12	1.56	.86	2.80	1.72	2.13	1.50	2.70	2.03
21	1.06	.45	1.57	.41	1.46	.77	2.76	1.66	2.38	1.80	3.04	2.35
22	1.05	.74	1.54	.42	1.14	.62	1.93	1.48	2.00	1.45	2.65	1.97
23	1.29	.79	.77	.16	1.29	.52	1.92	1.43	2.51	1.91	2.45	1.85
24	1.28	.59	.55	-.29	1.29	.76	1.88	1.26	2.01	1.32	2.15	1.68
25	1.29	.57	.65	.20	1.67	.91	1.47	1.02	1.82	1.13	1.99	1.64
26	.85	.38	.46	-.03	1.70	1.03	1.61	1.18	1.82	1.15	2.14	1.76
27	.72	.27	.94	.09	1.49	.94	1.67	1.09	1.88	1.09	2.25	1.78
28	.78	.47	1.53	.92	1.60	.97	1.70	1.14	2.46	1.53	2.50	1.94
29	1.01	.52	1.10	.47	1.10	.46	1.66	1.10	---	---	2.39	1.89
30	.81	.25	.72	.20	.83	.15	1.86	1.27	---	---	2.54	2.00
31	.80	.24	---	---	1.09	.39	2.06	1.35	---	---	2.31	1.80
MONTH	1.48	.03	1.57	-.29	1.79	.15	2.80	.11	2.51	.70	3.04	1.50

GROUND-WATER LEVELS

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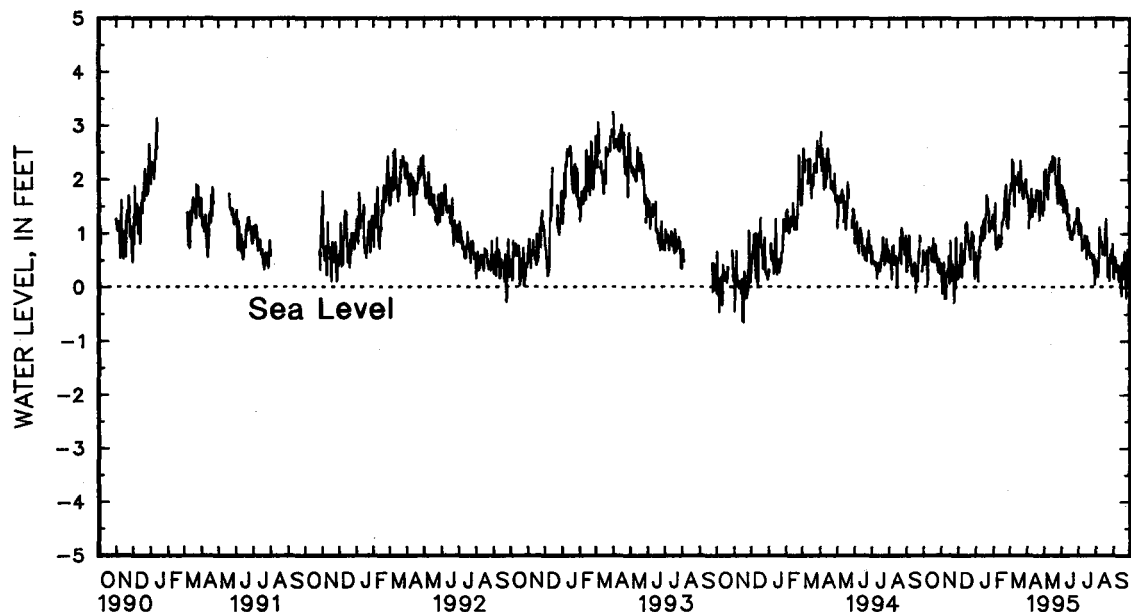
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 40--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.14	1.67	2.15	1.44	2.29	1.77	1.99	1.46	1.12	.51	1.48	.18
2	2.25	1.71	2.84	2.15	2.34	1.90	1.74	.99	1.13	.43	.67	.14
3	2.46	1.64	2.58	2.08	2.33	1.88	1.49	.98	1.10	.43	.90	.44
4	2.73	1.47	2.73	2.19	2.11	1.39	1.65	1.20	1.12	.44	1.30	.56
5	1.66	1.09	2.81	2.19	2.08	1.60	1.65	1.17	.99	.19	1.25	.50
6	1.90	1.57	2.33	1.70	2.17	1.80	1.73	1.17	.96	.44	1.08	.30
7	1.85	1.33	2.35	1.96	1.98	1.54	1.87	.99	1.25	.58	.99	.30
8	2.21	1.48	2.28	1.63	1.86	1.63	1.59	.67	1.88	1.12	1.01	.41
9	2.15	1.83	2.23	1.84	1.91	1.37	1.16	.70	1.74	.97	.98	.40
10	1.93	1.30	2.76	2.10	2.26	1.62	1.58	.85	1.52	.86	.84	.15
11	2.15	1.65	2.72	2.10	2.40	1.54	1.79	.80	1.39	.77	.82	.10
12	2.13	1.64	2.99	2.28	2.23	1.23	1.46	.73	1.39	.84	.90	.34
13	2.34	1.61	2.87	2.16	1.60	1.06	1.65	.95	1.20	.61	.88	.39
14	1.97	1.52	2.90	2.15	2.09	1.35	1.58	.92	1.42	.77	.84	.03
15	1.77	1.41	3.15	2.34	1.90	1.17	1.30	.73	1.42	.70	.46	-.17
16	2.17	1.50	2.83	2.16	1.74	1.13	1.24	.52	1.30	.77	.75	.43
17	2.22	1.65	3.16	2.44	1.54	.94	1.50	.94	1.32	.59	.97	.46
18	2.43	1.80	2.87	2.32	1.37	.89	1.53	.82	1.27	.84	.59	.15
19	2.63	1.81	3.14	2.41	1.34	.97	1.30	.63	1.65	1.27	.59	.25
20	2.36	1.68	2.95	2.41	1.41	.96	1.27	.82	1.98	1.19	.99	.45
21	2.36	1.79	2.93	2.39	1.35	.88	1.42	.62	1.75	.92	1.23	.66
22	2.31	1.64	2.75	1.91	1.56	1.05	1.13	.55	1.35	.18	1.21	.63
23	1.81	1.23	2.36	1.94	1.36	.99	1.13	.57	.69	.18	.69	-.22
24	2.10	1.68	2.62	2.05	1.63	1.00	1.25	.63	1.23	.51	.79	.20
25	2.33	1.80	2.45	1.56	1.89	1.20	1.13	.55	.65	.11	1.24	.50
26	2.18	1.54	2.24	1.56	1.80	1.22	1.22	.50	1.29	.54	1.22	.69
27	2.17	1.54	2.68	1.96	1.72	1.18	.92	.40	1.16	.60	1.29	.63
28	2.25	1.38	2.94	2.38	1.95	1.30	.97	.46	1.07	.45	1.28	.34
29	1.97	1.34	3.14	2.41	2.07	1.47	1.17	.60	1.23	.69	1.00	.36
30	2.17	1.59	2.43	1.60	1.80	1.31	.69	.04	1.21	.47	1.24	.50
31	---	---	2.00	1.53	---	---	.81	.18	1.48	.80	---	---
MONTH	2.73	1.09	3.16	1.44	2.40	.88	1.99	.04	1.98	.11	1.48	-.22
YEAR	3.16	-.29										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 44. SITE ID.--391810076172801. PERMIT NUMBER.--HA-88-1052.
 LOCATION.--Lat 39°18'10", long 76°17'28", Hydrologic Unit 02060003, at J-Field, Edgewood area.
 Owner: U. S. Army.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 100 ft; casing diameter 4 in., to 95 ft; screen diameter 4 in. from 95 to 100 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from August 8, 1990 to current year.
 DATUM.--Elevation of land surface is 4.29 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 6.99 ft above land surface.
 REMARKS.--J-Field Remedial Investigation observation well Jf61. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--Nov. 16, 1989 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.32 ft above sea level, Sept. 30, 1990; lowest measured, 0.22 ft above sea level, Jan. 21, 1994.

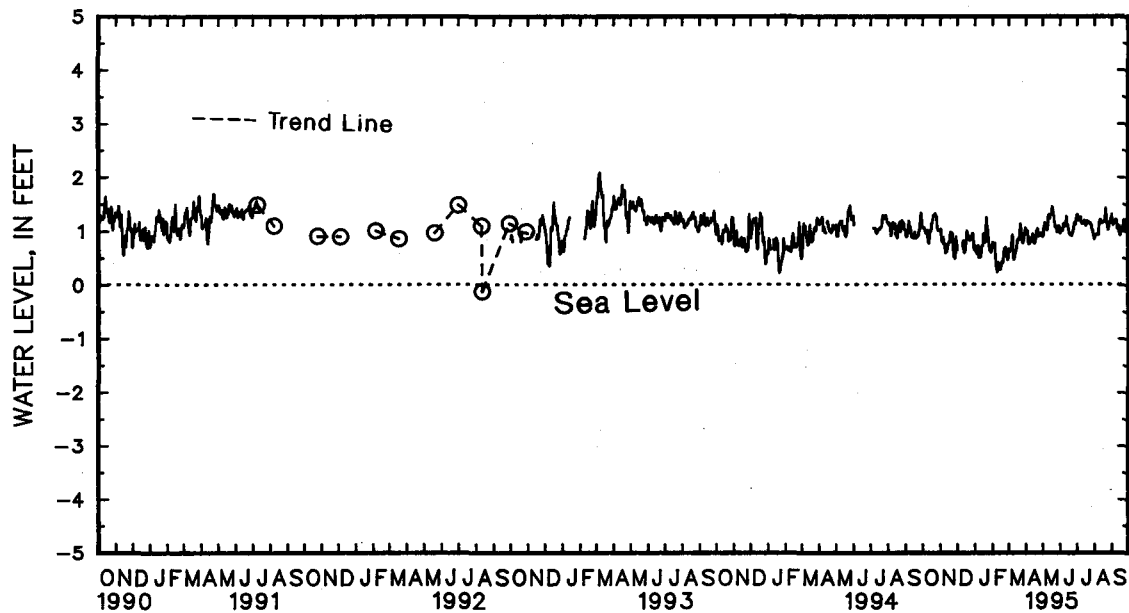
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.11	1.08	1.20	1.02	.75	.65	.81	.69	.85	.78	.68	.66
2	1.11	1.06	1.20	1.03	---	---	.82	.71	.85	.77	.67	.62
3	1.09	1.06	1.03	.85	---	---	.71	.60	.77	.71	.64	.61
4	1.09	1.06	.85	.79	---	---	.62	.57	.81	.73	.69	.64
5	1.07	1.02	.88	.82	---	---	.69	.57	.81	.77	.72	.66
6	1.02	.97	.98	.88	---	---	.80	.67	.84	.48	.88	.72
7	.98	.95	.98	.76	---	---	.81	.72	.48	.33	.92	.88
8	1.01	.98	.79	.74	---	---	.72	.50	.35	.29	1.06	.92
9	1.07	1.01	.80	.76	---	---	.54	.50	.29	.23	1.06	.69
10	1.08	.87	.76	.59	.81	.72	.54	.50	.40	.29	.69	.46
11	.87	.77	.60	.59	.88	.81	.58	.51	.47	.40	.53	.46
12	.89	.77	.64	.60	.82	.62	.72	.58	.47	.32	.57	.53
13	1.00	.89	.73	.64	.62	.59	.78	.72	.32	.29	.62	.57
14	1.03	1.00	.77	.73	.66	.60	.78	.71	.31	.29	.66	.62
15	1.02	.99	.88	.77	.77	.66	.84	.74	.35	.28	.75	.66
16	1.17	1.02	.88	.79	.86	.77	.99	.94	.46	.35	.84	.75
17	1.17	1.14	.89	.78	1.00	.86	.96	.81	.46	.41	.90	.84
18	1.21	1.14	1.06	.89	1.06	1.00	.81	.78	.41	.40	.90	.83
19	1.29	1.21	1.06	.97	1.06	.96	1.00	.81	.50	.41	.86	.83
20	1.32	1.29	.97	.82	.96	.90	1.34	1.00	.66	.50	1.00	.86
21	1.32	1.29	1.01	.82	.93	.89	1.36	1.25	.75	.66	1.18	1.00
22	1.32	1.28	1.04	.96	.90	.84	1.25	1.09	.74	.63	1.18	1.13
23	1.36	1.32	.96	.81	.85	.82	1.09	1.02	.78	.63	1.13	1.04
24	1.36	1.28	.81	.52	.89	.85	1.02	.88	.81	.69	1.04	.90
25	1.32	1.28	.60	.53	.90	.86	.88	.73	.69	.56	.90	.79
26	1.28	1.16	.60	.50	.93	.90	.73	.67	.58	.52	.79	.77
27	1.16	1.04	.59	.48	.95	.91	.67	.63	.52	.46	.83	.78
28	1.04	1.01	.91	.59	1.04	.95	.65	.64	.66	.50	.93	.83
29	1.06	1.01	.93	.89	1.04	.88	.65	.60	---	---	.98	.93
30	1.06	1.02	.89	.75	.88	.65	.69	.61	---	---	1.06	.98
31	1.02	1.00	---	---	.69	.64	.78	.69	---	---	1.07	1.05
MONTH	1.36	.77	1.20	.48	1.06	.59	1.36	.50	.91	.23	1.18	.46

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued
HA FD 44--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.05	1.00	.96	.89	.98	.95	1.36	1.30	.91	.85	1.37	1.31
2	1.00	.98	1.07	.90	1.04	.98	1.36	1.30	.95	.91	1.31	1.15
3	1.00	.94	1.09	1.07	1.10	1.04	1.30	1.20	.96	.93	1.15	1.11
4	1.17	1.00	1.15	1.09	1.11	1.03	1.20	1.20	.96	.93	1.17	1.12
5	1.11	.77	1.23	1.15	1.03	1.00	1.22	1.20	.98	.94	1.20	1.17
6	.80	.75	1.22	1.11	1.13	1.02	1.26	1.21	.97	.94	1.21	1.19
7	.81	.77	1.11	1.08	1.15	1.13	1.28	1.26	.96	.93	1.21	1.18
8	.86	.76	1.09	1.02	1.19	1.14	1.28	1.21	1.10	.93	1.23	1.21
9	.96	.86	1.04	1.01	1.18	1.09	1.21	1.14	1.19	1.10	1.23	1.21
10	.96	.81	1.25	1.04	1.15	1.09	1.15	1.13	1.21	1.19	1.23	1.15
11	.85	.81	1.30	1.25	1.26	1.15	1.20	1.15	1.21	1.21	1.15	1.04
12	.94	.85	1.32	1.30	1.30	1.26	1.19	1.16	1.22	1.21	1.08	1.04
13	1.03	.94	1.31	1.24	1.27	1.13	1.19	1.15	1.22	1.17	1.15	1.08
14	1.01	.90	1.29	1.23	1.13	1.11	1.22	1.19	1.17	1.15	1.16	1.09
15	.90	.78	1.35	1.29	1.13	1.06	1.22	1.18	1.17	1.16	1.09	.92
16	.78	.76	1.35	1.32	1.06	1.00	1.18	1.10	1.18	1.16	.99	.92
17	.81	.78	1.45	1.33	1.00	.96	1.18	1.10	1.20	1.17	1.14	.99
18	.90	.81	1.47	1.45	.96	.93	1.23	1.18	1.18	1.17	1.14	1.06
19	1.03	.90	1.47	1.43	.94	.93	1.22	1.17	1.28	1.17	1.06	1.01
20	1.04	1.00	1.43	1.31	.96	.94	1.18	1.17	1.42	1.28	1.09	1.01
21	1.05	1.00	1.31	1.27	.96	.91	1.21	1.17	1.48	1.42	1.20	1.09
22	1.07	1.04	1.27	1.15	.96	.91	1.19	1.15	1.46	1.31	1.29	1.20
23	1.04	.90	1.15	1.07	.99	.96	1.16	1.15	1.31	1.13	1.29	1.04
24	.85	.90	1.12	1.07	1.06	.99	1.16	1.14	1.15	1.13	1.04	1.01
25	.98	.95	1.13	1.07	1.15	1.06	1.14	1.11	1.15	1.02	1.12	1.01
26	.97	.93	1.07	.98	1.17	1.15	1.12	1.10	1.11	1.02	1.22	1.12
27	.98	.92	1.00	.87	1.15	1.13	1.10	1.04	1.18	1.11	1.24	1.22
28	1.01	.96	1.09	1.00	1.20	1.12	1.04	1.01	1.18	1.16	1.24	1.19
29	.96	.92	1.24	1.09	1.27	1.20	1.03	1.01	1.23	1.16	1.19	1.11
30	.96	.92	1.24	1.09	1.30	1.27	1.03	.92	1.26	1.23	1.12	1.11
31	---	---	1.09	.97	---	---	.92	.85	1.33	1.25	---	---
MONTH	1.17	.75	1.47	.89	1.30	.91	1.36	.85	1.48	.85	1.37	.92
YEAR	1.48	.23										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
HARFORD COUNTY--Continued

WELL NUMBER.--HA Fd 46. SITE ID.--391810076172803. PERMIT NUMBER.--HA-88-1054.
LOCATION.--Lat 39°18'10", long 76°17'28", Hydrologic Unit 02060003, at J-Field, Edgewood area.
Owner: U. S. Army.
AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.
WELL CHARACTERISTICS.--Drilled, observation, water-table, depth 19 ft; casing diameter 4 in., to 16 ft; screen diameter 4 in. from 16 to 19 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
Equipped with digital water-level recorder--15-minute recorder interval from August 8, 1990 to current year.
DATUM.--Elevation of land surface is 4.1 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of recorder platform, 6.98 ft above land surface.
REMARKS.--J-Field Remedial Investigation observation well Jf63.
PERIOD OF RECORD.--Nov. 16, 1989 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.95 ft above sea level, March 24, 1993 and March 29, 1994; lowest measured, .03 ft above sea level, Sept. 15, 1996.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(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	2.35	2.26	2.05	1.93	2.56	2.51	2.95	2.69	3.50	3.47	3.82	3.80
2	2.66	2.35	1.99	1.78	2.57	2.51	2.96	2.78	3.50	3.38	3.82	3.75
3	2.66	2.59	1.78	1.76	2.53	2.48	2.78	2.71	3.38	3.26	3.76	3.71
4	2.59	2.51	1.80	1.78	2.48	2.45	2.77	2.69	3.62	3.33	3.72	3.70
5	2.53	2.40	1.80	1.78	2.96	2.48	2.69	2.53	3.60	3.37	3.72	3.69
6	2.40	2.30	1.86	1.79	2.95	2.92	2.94	2.55	3.37	3.28	3.73	3.70
7	2.30	2.23	1.83	1.69	2.98	2.91	3.33	2.94	3.28	3.21	3.70	3.68
8	2.23	2.21	1.79	1.70	2.91	2.77	3.33	3.29	3.29	3.21	3.87	3.70
9	2.24	2.22	1.79	1.79	2.80	2.74	3.35	3.31	3.21	3.14	3.93	3.87
10	2.23	2.11	1.85	1.75	3.17	2.79	3.31	3.26	3.31	3.21	3.93	3.91
11	2.11	2.02	1.85	1.82	3.23	3.12	3.32	3.26	3.44	3.31	3.94	3.93
12	2.02	1.97	1.84	1.80	3.12	3.07	3.36	3.32	3.44	3.32	3.93	3.88
13	1.97	1.86	1.85	1.82	3.08	3.04	3.34	3.26	3.32	3.21	3.88	3.86
14	2.09	1.97	1.82	1.80	3.04	3.00	3.30	3.26	3.27	3.18	3.87	3.85
15	2.07	1.99	1.82	1.78	3.00	2.95	3.49	3.30	3.40	3.22	3.87	3.84
16	1.99	1.95	1.82	1.76	2.97	2.84	3.50	3.46	3.56	3.40	3.87	3.83
17	1.95	1.82	1.87	1.82	3.10	2.97	3.46	3.40	3.57	3.55	3.83	3.78
18	1.93	1.92	1.94	1.87	3.10	3.04	3.40	3.35	3.60	3.57	3.76	3.66
19	1.92	1.91	1.91	1.81	3.04	2.90	3.51	3.36	3.66	3.60	3.66	3.62
20	1.92	1.90	1.81	1.74	2.90	2.86	3.88	3.51	3.73	3.66	3.66	3.60
21	1.91	1.84	2.26	1.76	2.88	2.85	3.88	3.84	3.74	3.59	3.83	3.66
22	1.84	1.81	2.27	2.20	2.94	2.87	3.84	3.77	3.59	3.47	3.85	3.78
23	2.09	1.81	2.21	2.15	2.99	2.84	3.77	3.74	3.56	3.47	3.78	3.72
24	2.12	2.09	2.15	2.06	3.01	2.93	3.75	3.65	3.59	3.42	3.72	3.56
25	2.12	2.03	2.12	2.05	2.93	2.78	3.65	3.60	3.42	3.35	3.58	3.46
26	2.03	1.87	2.05	1.85	2.78	2.69	3.60	3.55	3.40	3.31	3.46	3.40
27	1.97	1.91	2.21	1.91	2.71	2.67	3.55	3.51	3.44	3.30	3.41	3.38
28	1.91	1.88	2.69	2.21	2.78	2.71	3.54	3.50	3.80	3.44	3.39	3.38
29	1.88	1.86	2.66	2.62	2.74	2.58	3.50	3.42	---	---	3.38	3.33
30	1.87	1.85	2.63	2.56	2.58	2.52	3.53	3.43	---	---	3.40	3.33
31	1.93	1.86	---	---	2.69	2.53	3.52	3.46	---	---	3.39	3.31
MONTH	2.66	1.81	2.69	1.69	3.23	2.45	3.88	2.53	3.80	3.14	3.94	3.31

GROUND-WATER LEVELS

361

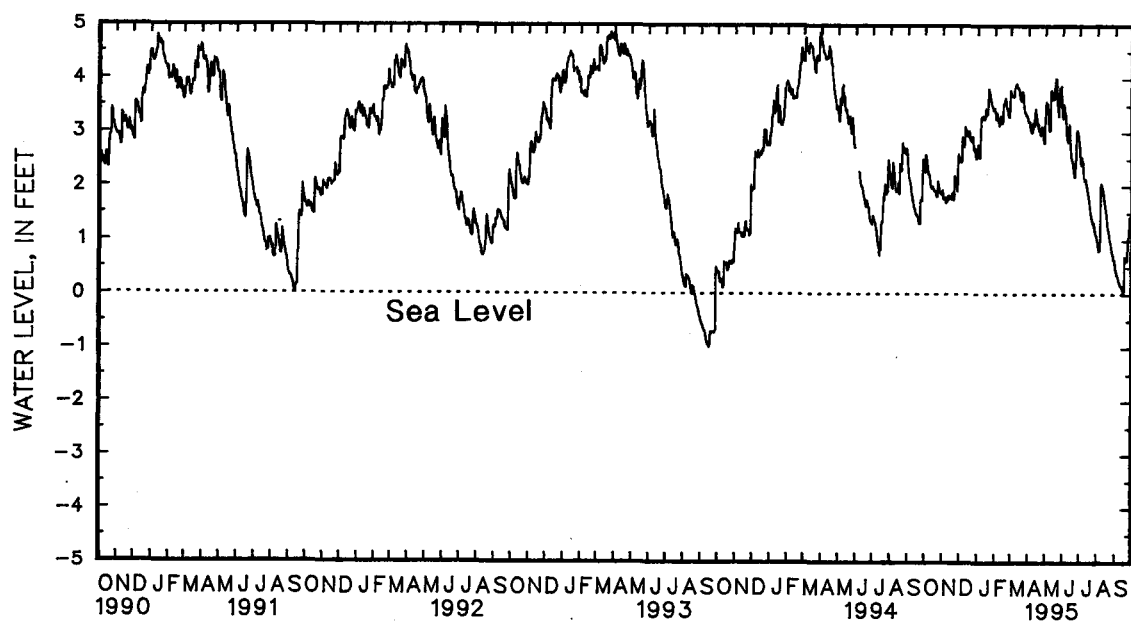
MARYLAND--Continued

HARFORD COUNTY--Continued

HA Fd 46--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.31	3.24	3.39	3.25	3.53	3.37	2.87	2.80	1.02	.97	.63	.55
2	3.24	3.21	3.60	3.39	3.37	3.28	2.80	2.65	.97	.89	.55	.46
3	3.28	3.22	3.61	3.59	3.63	3.31	2.65	2.45	.89	.83	.46	.41
4	3.35	3.20	3.59	3.56	3.64	3.54	2.55	2.40	.83	.80	.41	.36
5	3.20	3.07	3.60	3.56	3.54	3.41	2.61	2.55	1.01	.80	.38	.35
6	3.10	3.05	3.56	3.45	3.41	3.37	2.58	2.48	1.98	1.01	.36	.31
7	3.11	3.02	3.45	3.27	3.39	3.22	2.49	2.44	2.11	1.98	.32	.29
8	3.08	3.01	3.27	3.10	3.22	3.02	2.44	2.27	2.12	2.06	.29	.23
9	3.24	3.08	3.10	3.04	3.02	2.89	2.27	2.16	2.08	2.03	.24	.21
10	3.24	3.19	3.67	3.05	2.89	2.87	2.16	2.11	2.03	1.97	.21	.17
11	3.19	3.14	3.88	3.67	2.89	2.83	2.26	2.11	1.87	1.81	.17	.15
12	3.35	3.14	3.90	3.81	3.17	2.84	2.23	2.13	1.91	1.85	.15	.14
13	3.59	3.35	3.81	3.66	3.25	3.17	2.13	2.05	1.85	1.74	.15	.14
14	3.57	3.46	3.80	3.64	3.20	2.98	2.05	1.99	1.74	1.67	.14	.10
15	3.46	3.37	3.84	3.76	2.98	2.72	1.99	1.92	1.67	1.60	.10	.03
16	3.37	3.28	3.76	3.64	2.72	2.60	1.92	1.85	1.60	1.54	.08	.03
17	3.28	3.19	3.84	3.64	2.60	2.53	1.85	1.81	1.54	1.47	.84	.08
18	3.19	3.15	4.01	3.84	2.53	2.48	1.81	1.71	1.47	1.34	.83	.70
19	3.26	3.17	4.13	4.01	2.48	2.45	1.71	1.60	1.34	1.23	.70	.66
20	3.20	3.05	4.11	4.02	2.45	2.35	1.60	1.52	1.23	1.18	.66	.64
21	3.19	3.05	4.02	3.89	2.35	2.24	1.53	1.46	1.18	1.12	.64	.62
22	3.19	3.05	3.89	3.68	2.24	2.18	1.46	1.41	1.12	1.01	1.03	.62
23	3.05	2.96	3.68	3.53	2.36	2.18	1.42	1.36	1.01	.97	1.11	1.03
24	3.27	2.99	3.53	3.42	2.54	2.36	1.36	1.31	.98	.92	1.10	1.06
25	3.27	3.13	3.52	3.32	2.97	2.54	1.36	1.33	.92	.83	1.43	1.10
26	3.13	3.03	3.91	3.52	3.05	2.97	1.35	1.28	.83	.80	1.54	1.43
27	3.04	3.03	3.93	3.84	3.11	3.05	1.28	1.20	.80	.79	1.53	1.43
28	3.04	2.90	3.88	3.78	3.10	3.06	1.20	1.14	.79	.74	1.43	1.29
29	2.90	2.82	3.96	3.88	3.06	2.96	1.14	1.10	.74	.71	1.29	1.21
30	3.25	2.82	3.94	3.72	2.96	2.87	1.13	1.09	.71	.63	1.21	1.17
31	---	---	3.72	3.53	---	---	1.09	1.02	.63	.63	---	---
MONTH	3.59	2.82	4.13	3.04	3.64	2.18	2.87	1.02	2.12	.63	1.54	.03
YEAR	4.13	.03										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

HOWARD COUNTY

WELL NUMBER.--HO Bd 1. SITE ID.--381910076565701.

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.--Loch Raven Schist of Paleozoic age. Aquifer code: 300LCRV.

WELL CHARACTERISTICS.--Dug, stone-lined, observation, water-table well, measured depth 48 ft; diameter 60 in.

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

DATUM.--Elevation of land surface is 630 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Hole in center of steel plate well cover, 0.40 ft above land surface.

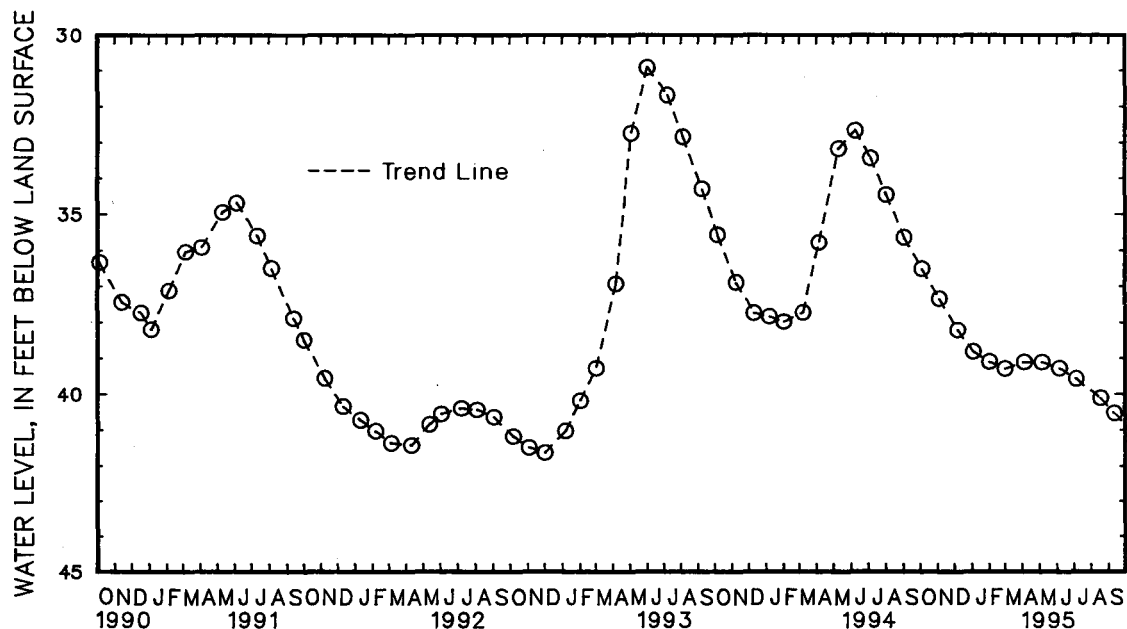
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	36.57	DEC 6	38.28	FEB 1	39.18	APR 4	39.18	JUN 5	39.35	AUG 18	40.18
NOV 4	37.40	JAN 3	38.90	MAR 1	39.37	MAY 5	39.18	JUL 5	39.63	SEP 11	40.60
WATER YEAR 1995		HIGHEST	36.57	OCT 4, 1994	LOWEST	40.60	SEP 11, 1995				



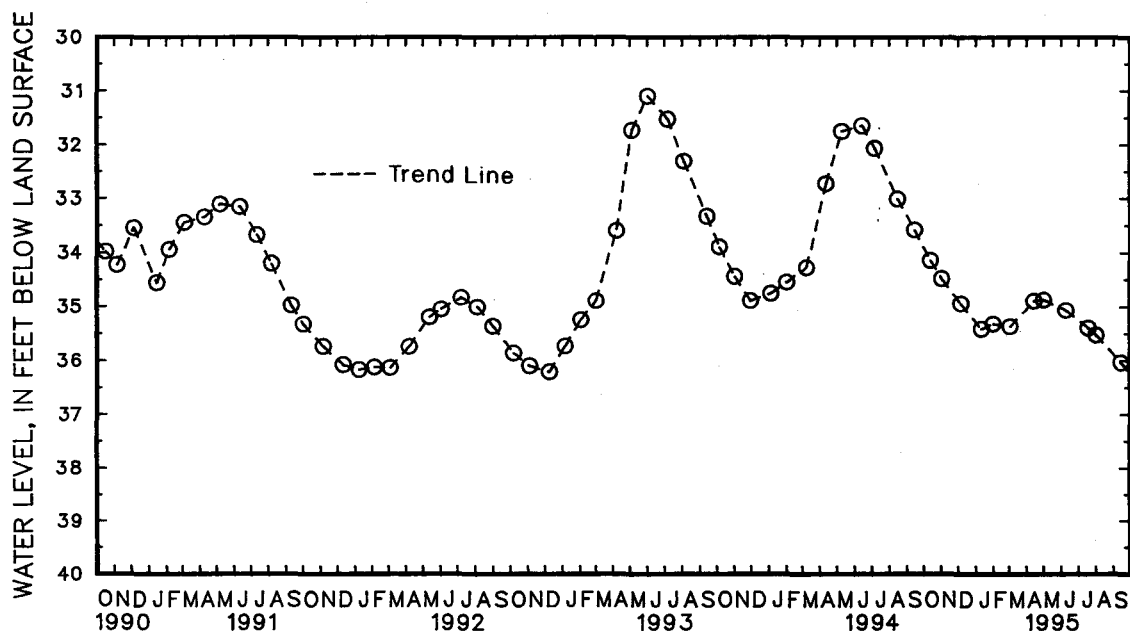
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
HOWARD COUNTY--Continued

WELL NUMBER.--HO Co 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 Paleozoic age. Aquifer code: 300SKVL.
WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 125 ft; casing diameter 6 in., to 51.4 ft; open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 1.80 ft above 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, 36.87 ft below land surface, Dec. 5, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	34.18	DEC 6	34.98	FEB 1	35.36	APR 14	34.92	JUN 9	35.10	AUG 1	35.57
NOV 2	34.52	JAN 11	35.46	MAR 3	35.41	MAY 1	34.90	JUL 18	35.44	SEP 14	36.09
WATER YEAR 1995		HIGHEST	34.18	OCT 12, 1994		LOWEST	36.09	SEP 14, 1995			

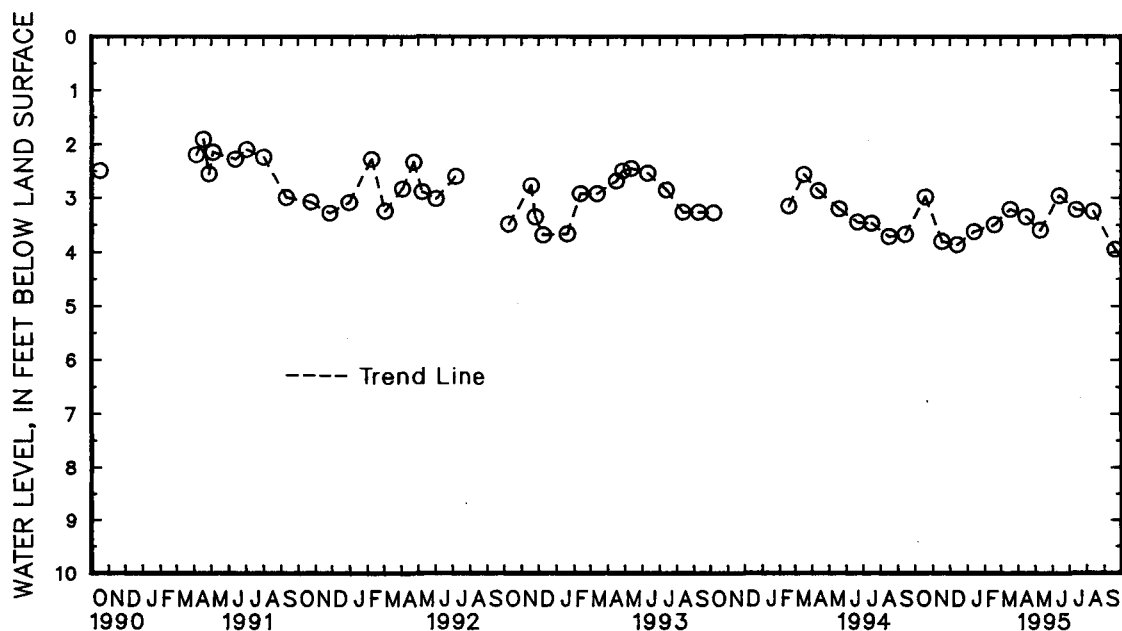


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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 Rd.
Owner: U.S. Geological Survey.
AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217FTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 3.30 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 3.99 ft below land surface, Sept. 19, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	3.00	DEC 13	3.90	FEB 17	3.52	APR 14	3.37	JUN 12	2.97	AUG 11	3.27
NOV 16	3.84	JAN 12	3.65	MAR 17	3.23	MAY 9	3.62	JUL 12	3.24	SEP 19	3.99
WATER YEAR 1995		HIGHEST	2.97	JUN 12. 1995		LOWEST	3.99	SEP 19. 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

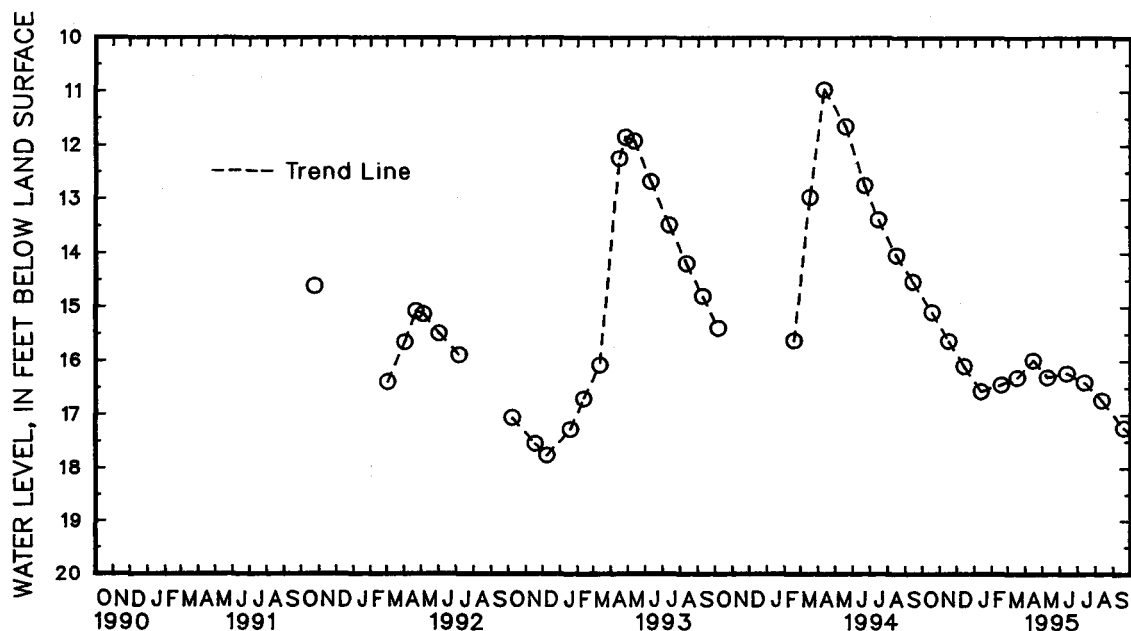
MARYLAND--Continued

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 Group of Pleistocene age. Aquifer code: 112CLMB.
 WELL CHARACTERISTICS.--Drilled, observation well, artesian well, depth 55 ft; casing diameter 4 in., to 40 ft; screen diameter 4 in. from 40 to 50 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 February 1992 to October 1993.
 DATUM.--Elevation of land surface is 84.49 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of metal sleeve, 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, 10.97 ft below land surface, April 11, 1994;
 lowest measured, 20.23 ft below land surface, Dec. 12, 13, and, 14 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	15.14	DEC 13	16.15	FEB 17	16.47	APR 14	16.02	JUN 12	16.27	AUG 11	16.78
NOV 16	15.68	JAN 12	16.61	MAR 17	16.35	MAY 9	16.34	JUL 12	16.44	SEP 19	17.29
WATER YEAR 1995		HIGHEST	15.14	OCT 18, 1994		LOWEST	17.29	SEP 19, 1995			

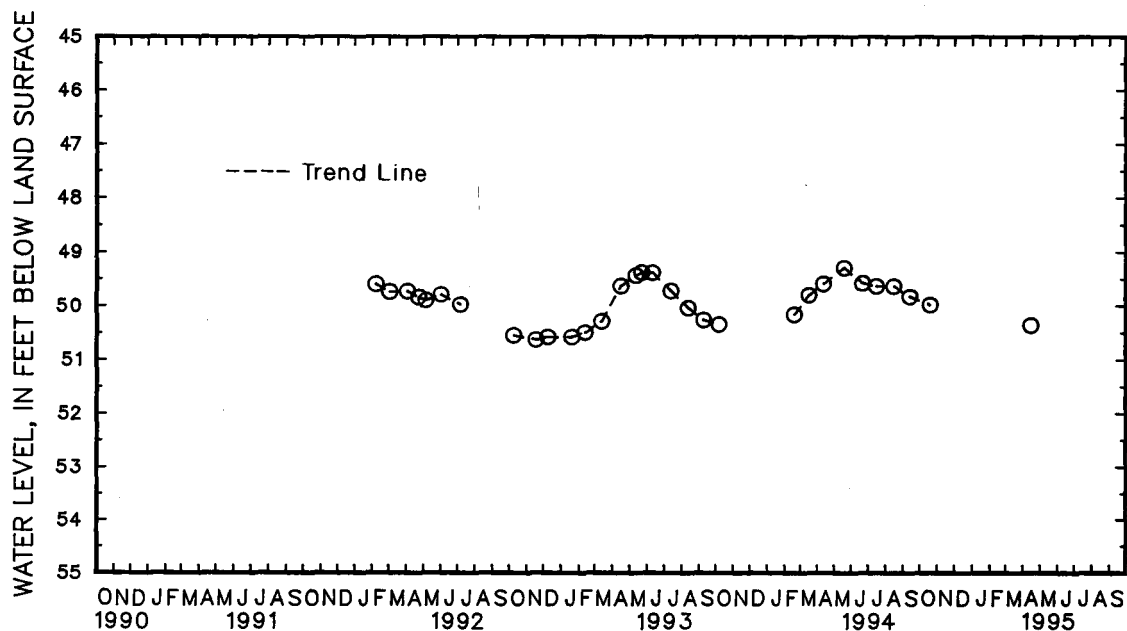


5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.76 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--February 1992 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.31 below land surface, May 18, 1994;
lowest measured, 50.75 ft below land surface, Nov. 10, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL				
OCT 18	50.02	APR 14	50.41				
WATER YEAR 1995		HIGHEST	50.02	OCT 18, 1994	LOWEST	50.41	APR 14, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.41 ft above land surface.

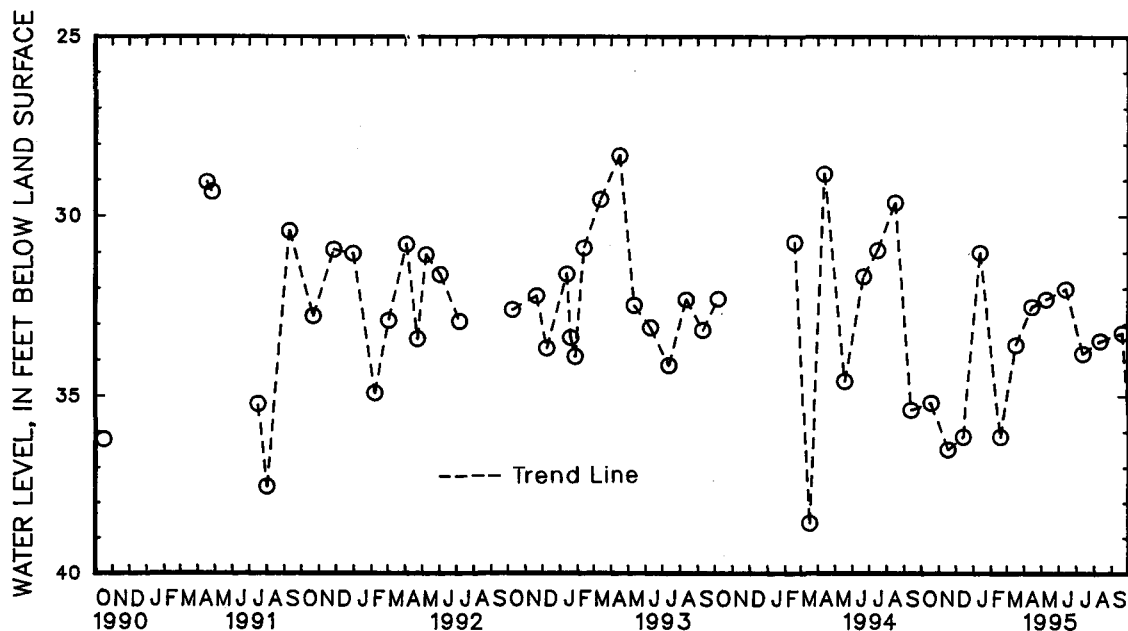
REMARKS.--Maryland Water-Level Network observation well.

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, 38.61 ft below land surface, March 16, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	35.26	DEC 13	36.19	FEB 17	36.20	APR 14	32.53	JUN 12	32.03	AUG 11	33.52
NOV 16	36.56	JAN 12	31.02	MAR 17	33.60	MAY 9	32.32	JUL 12	33.88	SEP 19	33.29
WATER YEAR 1995		HIGHEST	31.02	JAN 12, 1995		LOWEST	36.56	NOV 16, 1994			

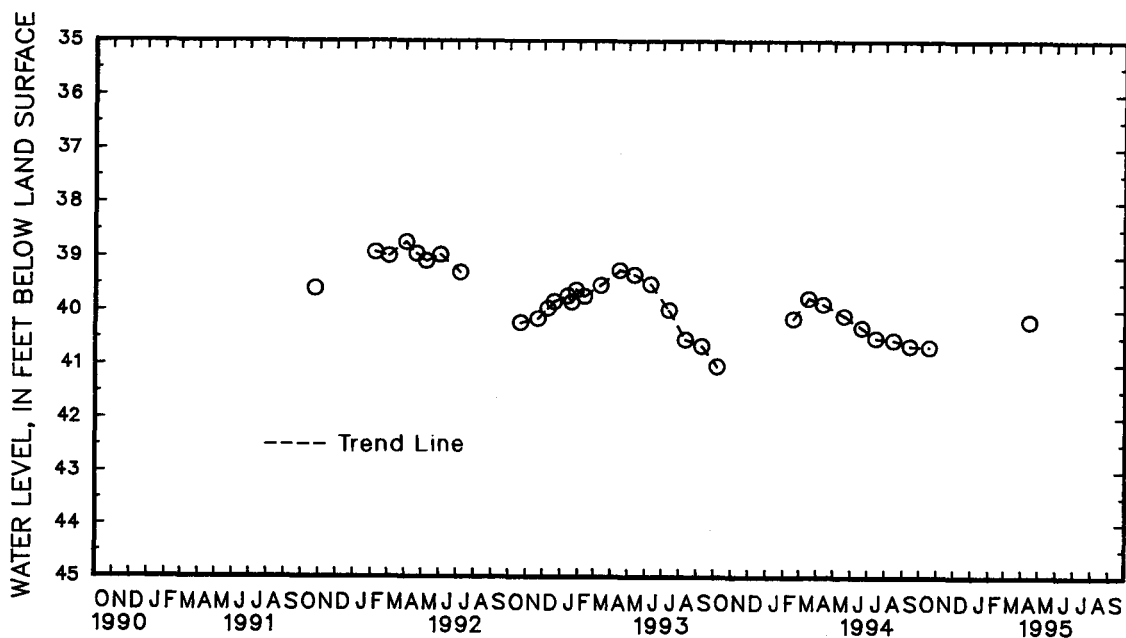


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 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 chalked steel 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.3 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, 38.76 ft below land surface, April 2, 1992;
 lowest measured, 41.09 ft below land surface, Oct. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	40.72	APR 14	40.23
WATER YEAR 1995 HIGHEST 40.23 APR 14, 1995 LOWEST 40.72 OCT 18, 1994			



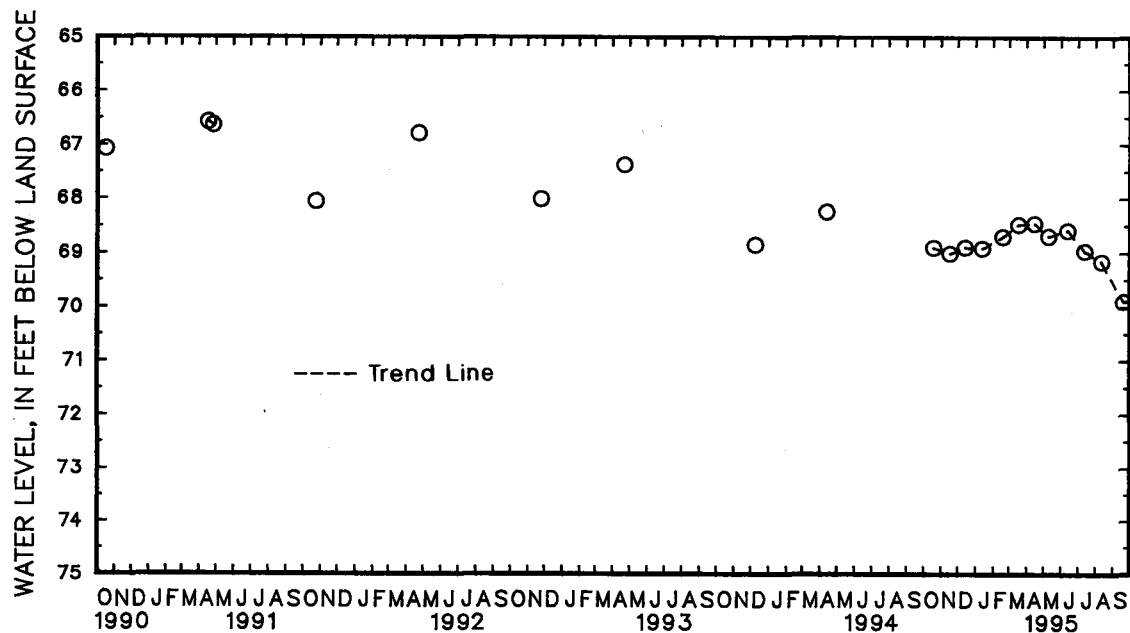
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
KENT COUNTY--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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 3.50 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly beginning October 1986.
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, 69.94 ft below land surface, Sept. 19, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	68.94	DEC 13	68.93	FEB 17	68.73	APR 14	68.48	JUN 12	68.61	AUG 11	69.20
NOV 16	69.05	JAN 12	68.95	MAR 17	68.50	MAY 9	68.72	JUL 12	69.00	SEP 19	69.94
WATER YEAR 1995		HIGHEST	68.48	APR 14, 1995		LOWEST	69.94	SEP 19, 1995			



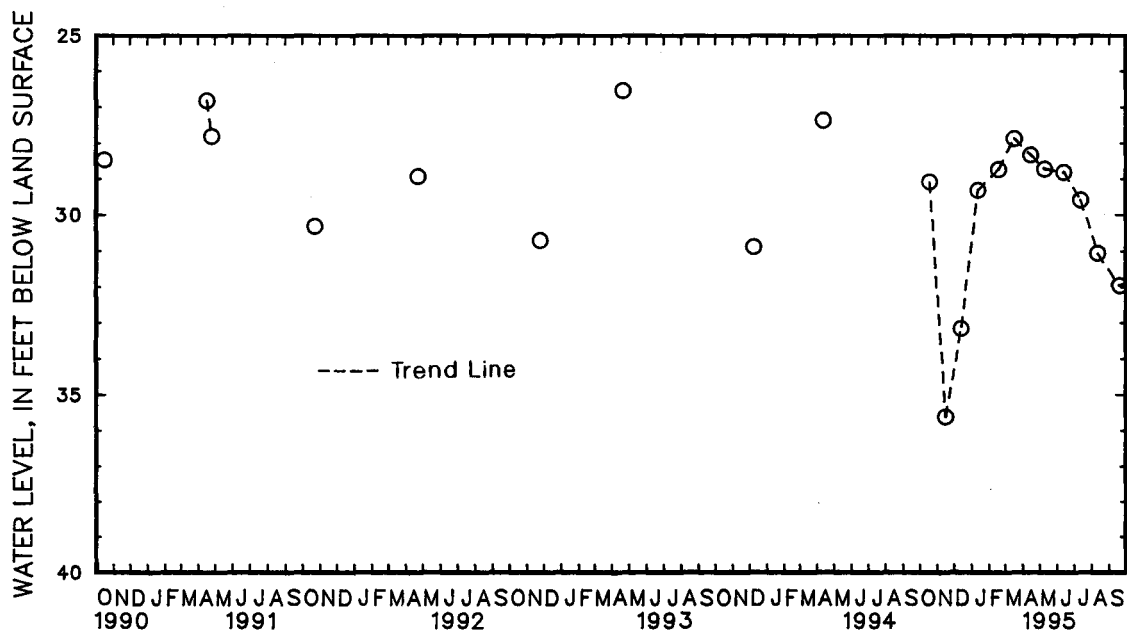
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 chalked steel 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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 3.20 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	29.10	DEC 13	33.18	FEB 17	28.74	APR 14	28.34	JUN 12	28.83	AUG 11	31.12
NOV 16	35.67	JAN 12	29.33	MAR 17	27.88	MAY 09	28.74	JUL 12	29.62	SEP 19	32.02
WATER YEAR 1995		HIGHEST	27.88	MAR 17, 1995		LOWEST	35.67	NOV 16, 1994			



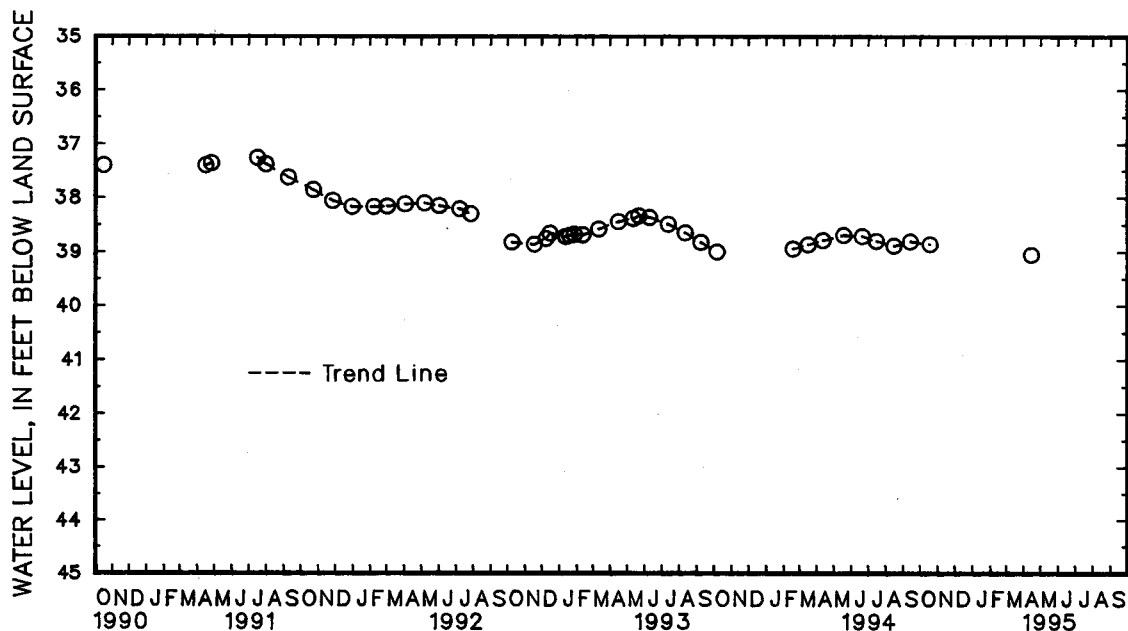
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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, north of Fairlee, at sewage treatment facility.
Owner: U.S. Geological Survey.
AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 4.63 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 39.09 ft below land surface, April 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	38.89	APR 14	39.09
WATER YEAR 1995 HIGHEST 38.89 OCT 18, 1994 LOWEST 39.09 APR 14, 1995			



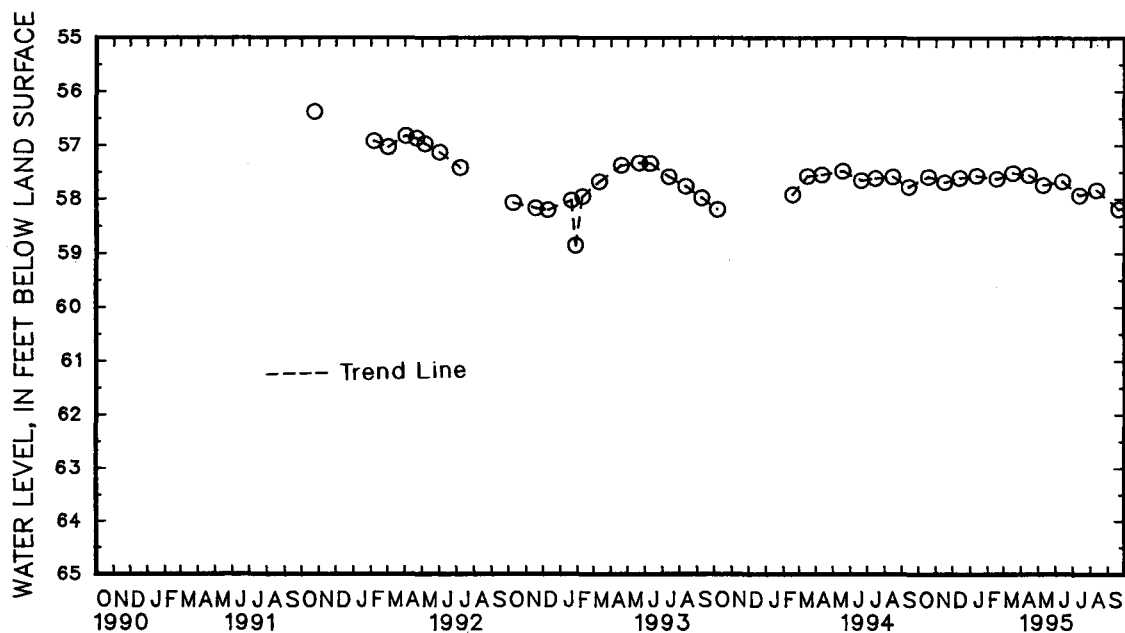
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 well, depth 285 ft; casing diameter 4 in., to 270 ft;
screen diameter 4 in. from 270 to 280 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 February 1992 to October 1993.
DATUM.--Elevation of land surface is 65.84 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.3 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, 56.40 ft below land surface, October 24, 1991;
lowest measured, 58.90 ft. above sea level, Jan. 27, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	57.60	DEC 13	57.62	FEB 17	57.64	APR 14	57.57	JUN 12	57.69	AUG 11	57.85
NOV 16	57.70	JAN 12	57.58	MAR 17	57.53	MAY 9	57.76	JUL 12	57.95	SEP 19	58.21
WATER YEAR 1995		HIGHEST	57.53	MAR 17, 1995		LOWEST	58.21	SEP 19, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

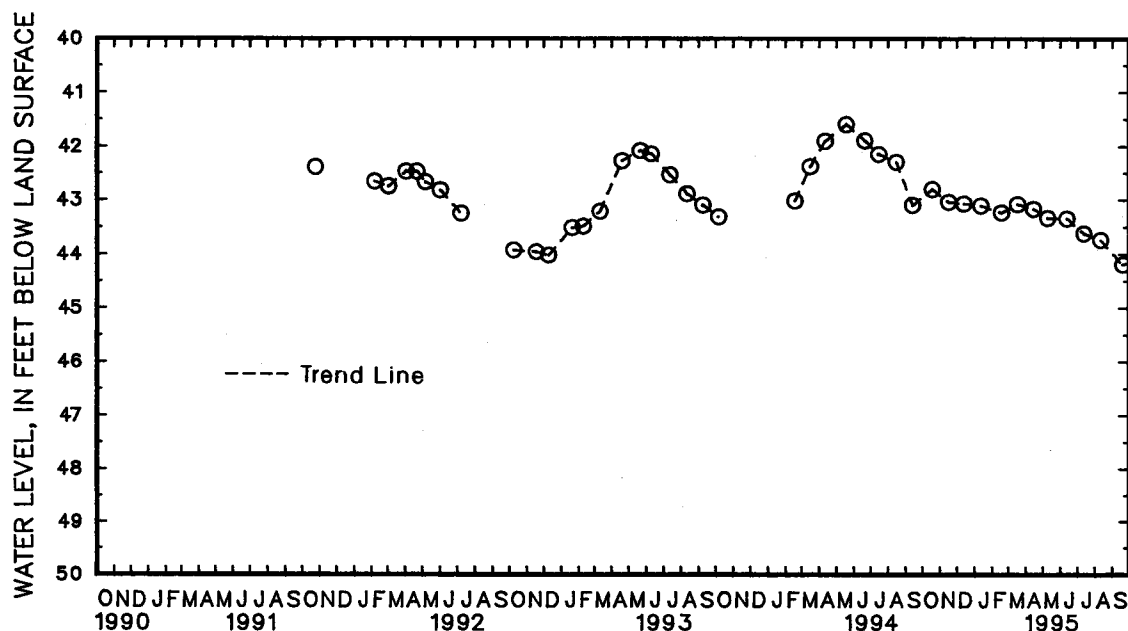
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KENT COUNTY--Continued

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 Formation of Upper Cretaceous age. Aquifer code: 211MNM1.
WELL CHARACTERISTICS.--Drilled, observation well, 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 chalked steel 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 68.38 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.54 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
PERIOD OF RECORD.--October 1891 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.60 ft below land surface, May 18, 1994;
lowest measured, 44.23 ft below land surface, Sept. 19, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	42.82	DEC 13	43.09	FEB 17	43.26	APR 14	43.19	JUN 12	43.37	AUG 11	43.77
NOV 18	43.06	JAN 12	43.13	MAR 17	43.10	MAY 9	43.36	JUL 12	43.65	SEP 19	44.23
WATER YEAR 1995		HIGHEST	42.82	OCT 18, 1994		LOWEST	44.23	SEP 19, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

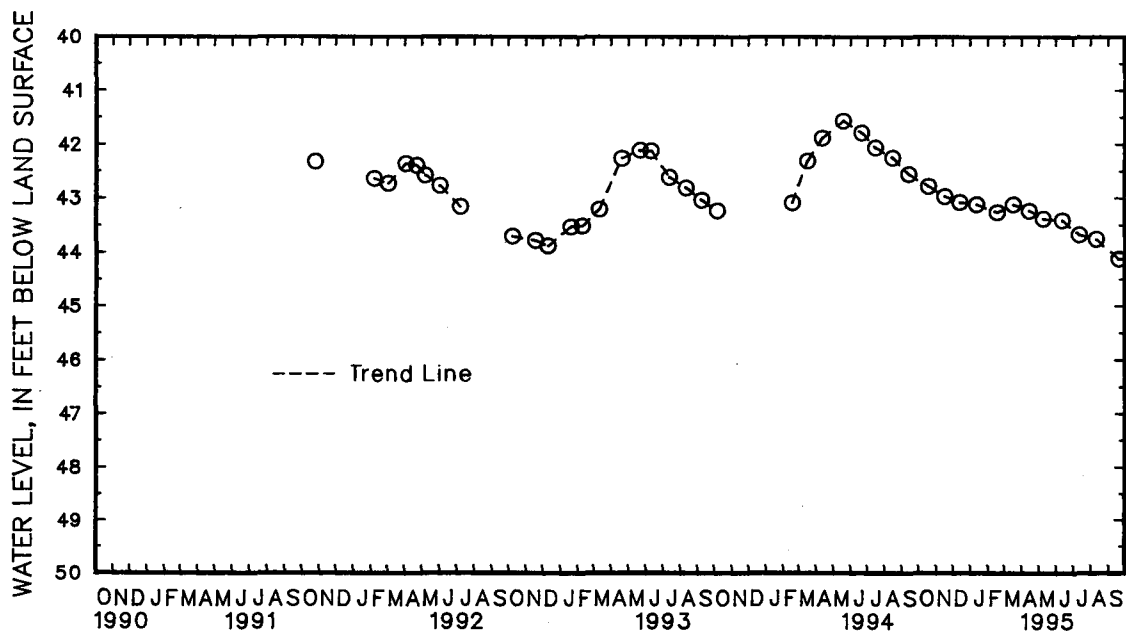
MARYLAND--Continued

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 well, artesian well, depth 134 ft; casing diameter 4 in.,
to 118 ft; screen diameter 4 in. from 118 to 128 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 February 1992 to October 1993.
DATUM.--Elevation of land surface is 68.38 ft above National Geodetic Vertical Datum of 1929.
Measuring Point: Top of metal sleeve, 2.53 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, 41.57 ft below land surface, May 18, 1994;
lowest measured, 44.16 ft below land surface, Sept. 19, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	42.80	DEC 13	43.10	FEB 17	43.29	APR 14	43.26	JUN 12	43.44	AUG 11	43.79
NOV 16	42.99	JAN 12	43.14	MAR 17	43.14	MAY 9	43.41	JUL 12	43.71	SEP 19	44.16
WATER YEAR 1995		HIGHEST	42.80	OCT 18, 1994		LOWEST	44.16	SEP 19, 1995			

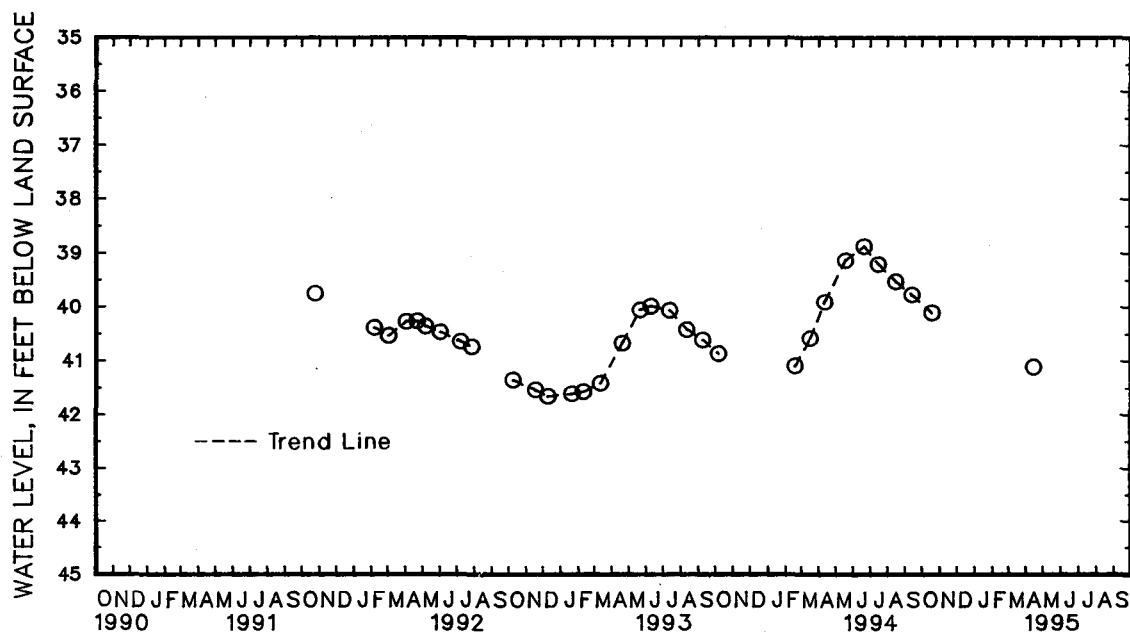


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

KENT COUNTY--Continued

WATER LEVEL, IN FEET BELOW LAND SURFACE. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	40.14	APR 14	41.16
WATER YEAR 1995		HIGHEST	40.14 OCT 18, 1994
		LOWEST	41.16 APR 14, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

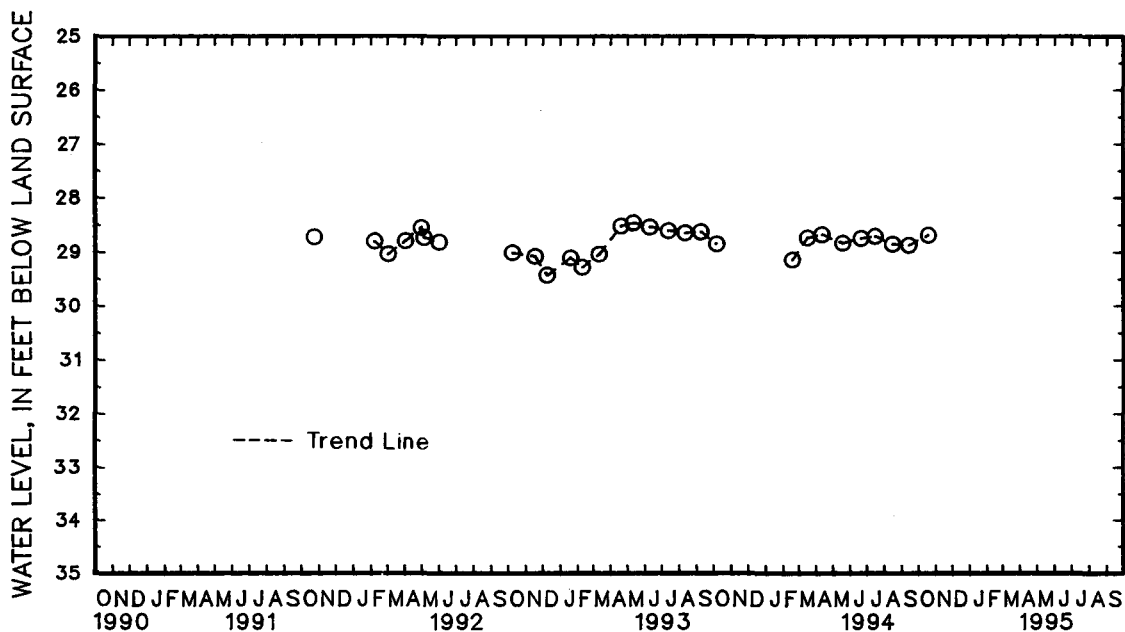
MARYLAND--Continued

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.--Columbia Group of Pleistocene age. Aquifer code: 112CLMB.
 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.--Twice yearly measurements with chalked steel 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 31.12 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of metal sleeve, 2.6 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, 28.48 ft below land surface, May 11, 1993;
 lowest measured, 29.47 ft below land surface, Dec. 8, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL
OCT 18	28.71



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

377

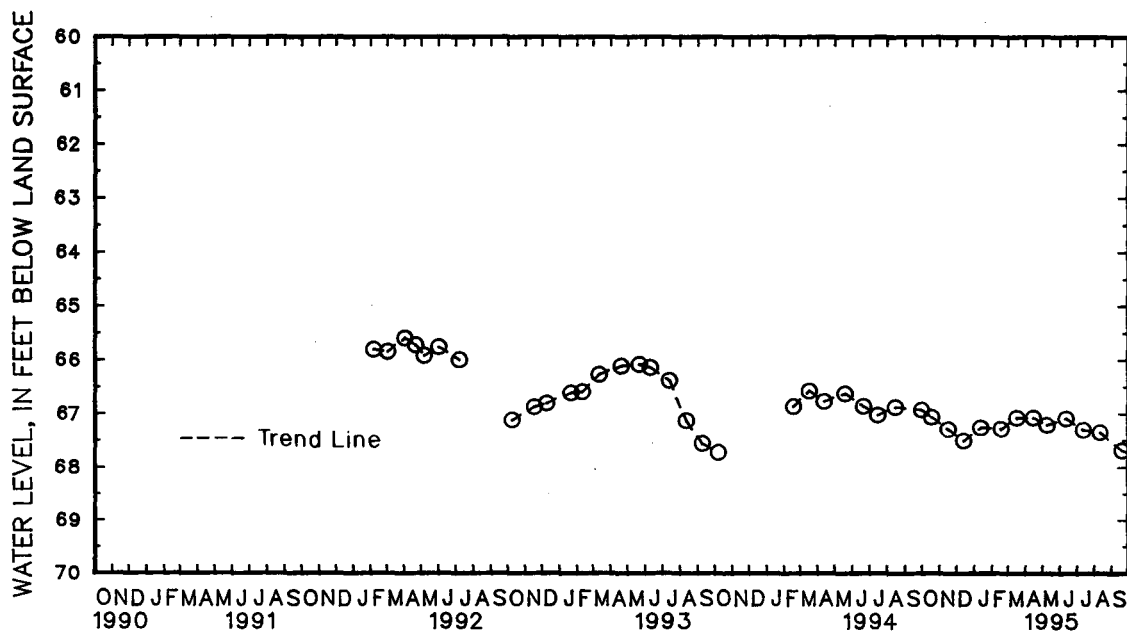
MARYLAND--Continued

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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 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 chalked steel 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of metal sleeve, 2.54 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 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, 67.77 ft below land surface, Oct. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	67.09	DEC 13	67.54	FEB 17	67.31	APR 15	67.10	JUN 12	67.11	AUG 11	67.38
NOV 16	67.32	JAN 12	67.29	MAR 17	67.10	MAY 9	67.24	JUL 12	67.33	SEP 19	67.72
WATER YEAR 1995		HIGHEST	67.09	OCT 18, 1994		LOWEST	67.72	SEP 19, 1995			



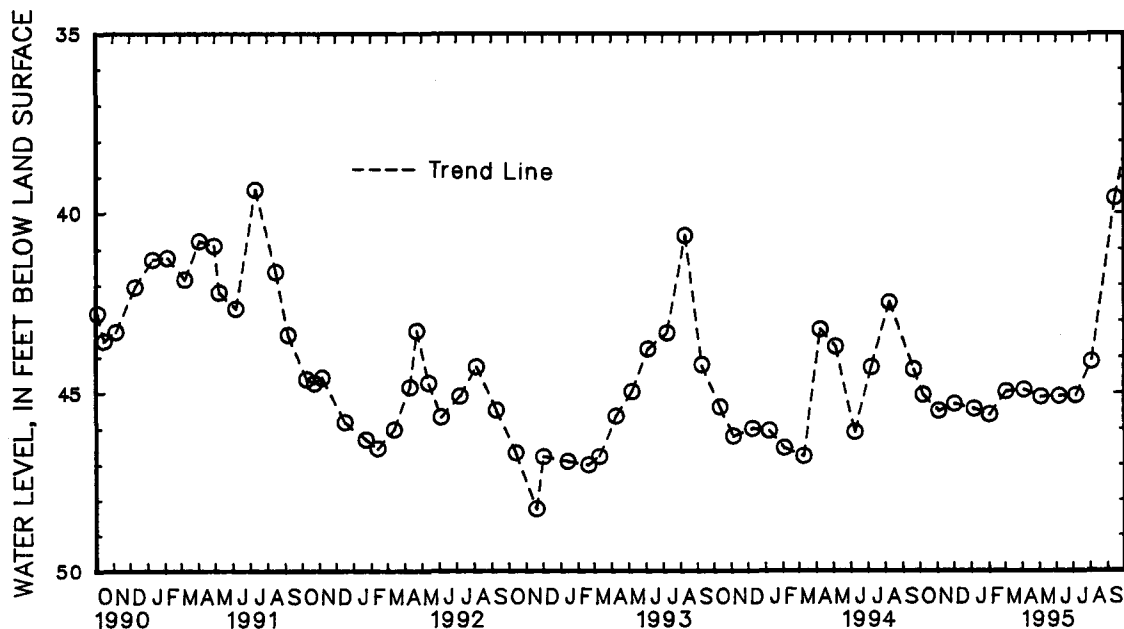
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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
Chesterstown.
Owner: Campbell Soup Co.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 50 ft above National Geodetic Vertical Datum of 1929, 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.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 7	45.10	DEC 2	45.35	FEB 2	45.65	APR 4	44.94	JUN 6	45.12	AUG 3	44.14
NOV 4	45.55	JAN 6	45.49	MAR 3	44.99	MAY 4	45.14	JUL 6	45.10	SEP 14	39.59
WATER YEAR 1995		HIGHEST	39.59	SEP 14, 1995		LOWEST	45.85	FEB 2, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 15 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.65 ft above land surface.

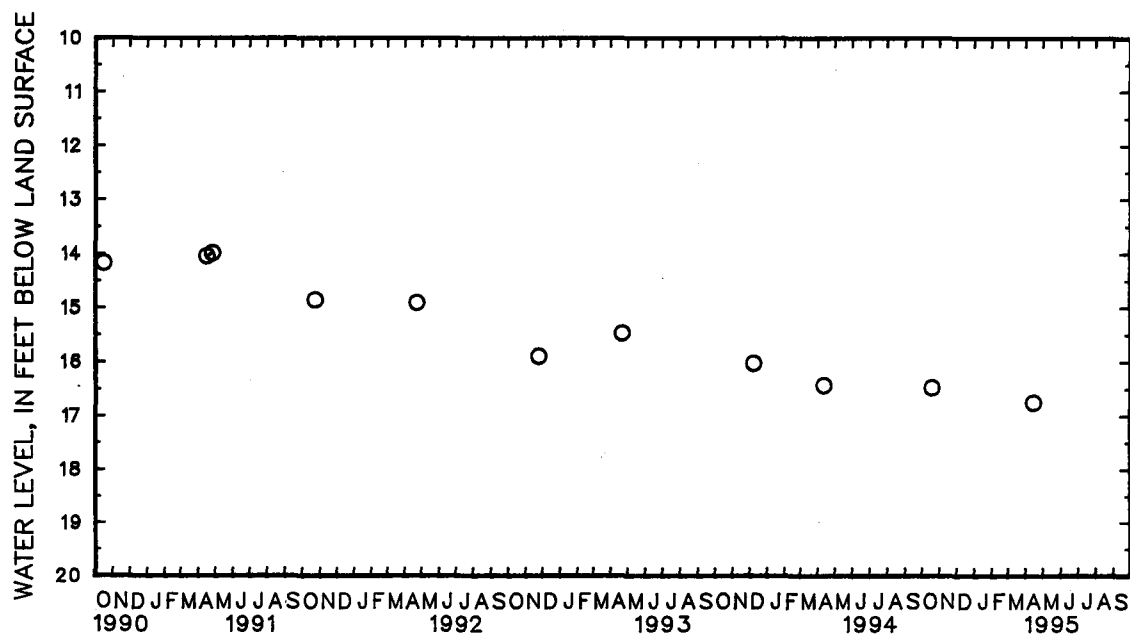
REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since October 1986.

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, 16.80 ft below land surface, April 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	16.52	APR 14	16.80
WATER YEAR 1995 HIGHEST 16.52 OCT 18, 1994 LOWEST 16.80 APR 14, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

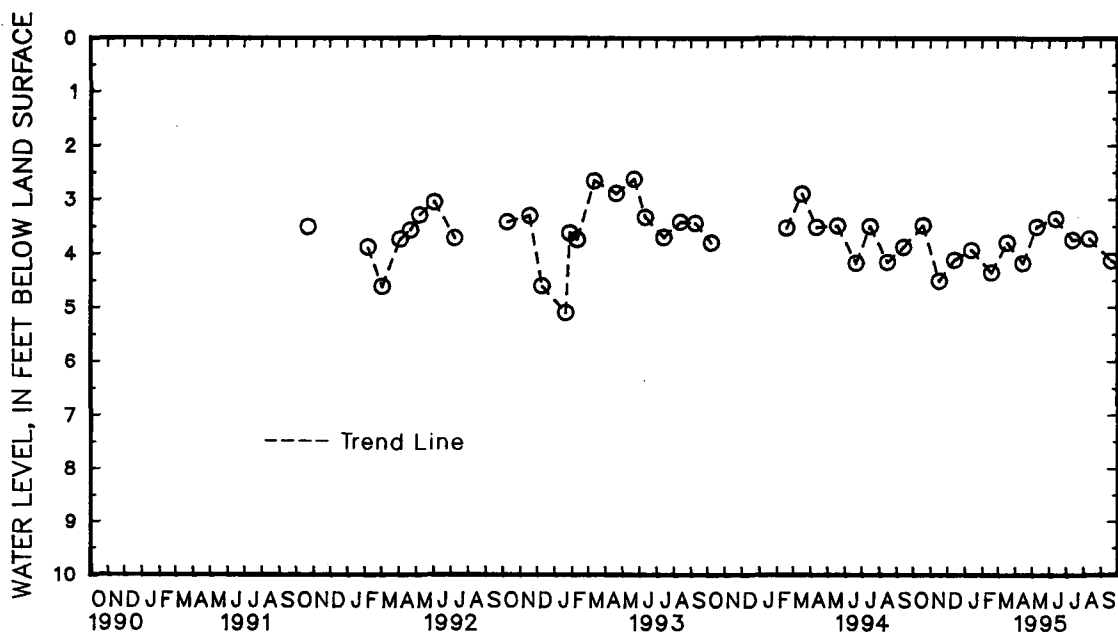
MARYLAND--Continued

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.--Columbia Group of Pleistocene age. Aquifer code: 112CLMB.
 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 chalked steel 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of metal sleeve, 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, 2.63 ft below land surface, May 21, 1993; lowest measured, 5.14 ft below land surface, Jan. 20, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	3.49	DEC 13	4.14	FEB 17	4.38	APR 14	4.20	JUN 12	3.36	AUG 11	3.73
NOV 16	4.54	JAN 12	3.95	MAR 17	3.81	MAY 9	3.51	JUL 12	3.76	SEP 19	4.16
WATER YEAR 1995		HIGHEST	3.36	JUN 12, 1995		LOWEST	4.54	NOV 16, 1994			

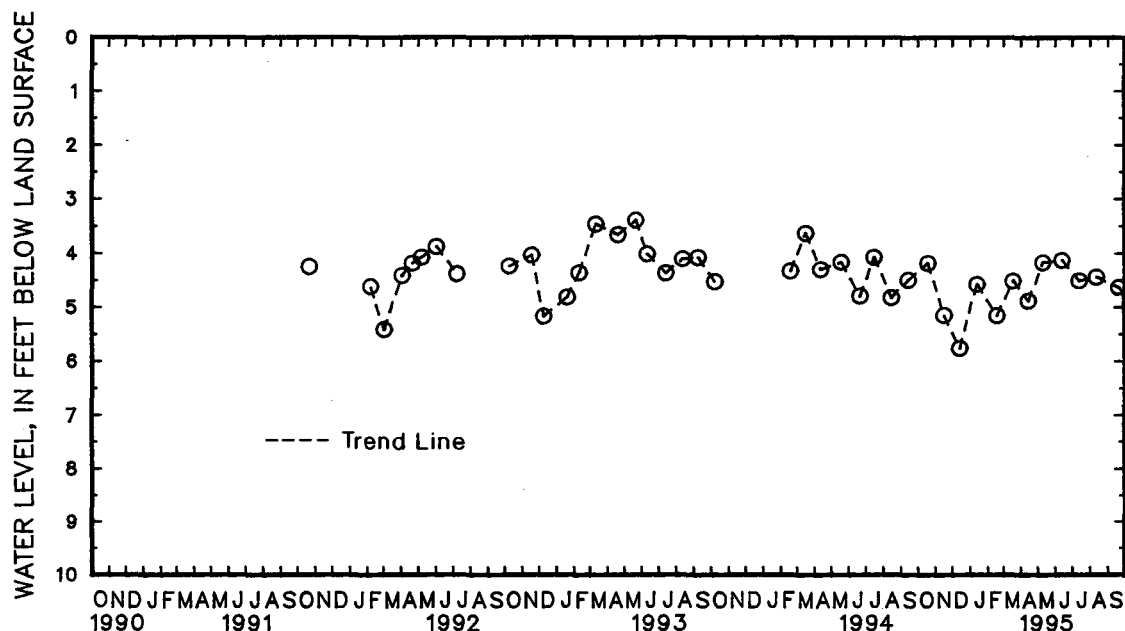


5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

KENT COUNTY--Continued

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	4.20	DEC 13	5.81	FEB 17	5.19	APR 14	4.91	JUN 12	4.14	AUG 11	4.46
NOV 16	5.19	JAN 12	4.59	MAR 17	4.53	MAY 9	4.18	JUL 12	4.53	SEP 19	4.66
WATER YEAR 1995		HIGHEST	4.14	JUN 12, 1995		LOWEST	5.81	DEC 13, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

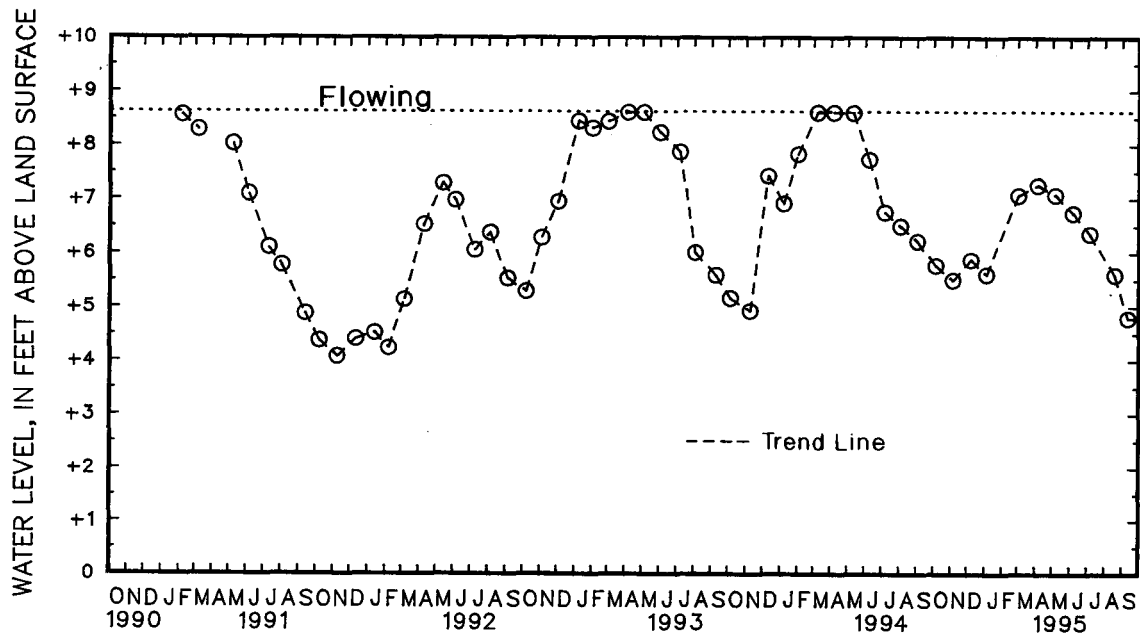
MARYLAND--Continued

MONTGOMERY COUNTY--Continued

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.--New Oxford Formation of Upper Triassic age. Aquifer code: 231NOXF.
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 885 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 220 ft above National Geodetic Vertical Datum of 1929.
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, and May 10, 1994;
lowest measured, 4.02 ft above land surface, Nov. 7, 1991.

WATER LEVEL, IN FEET ABOVE LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL								
OCT	4	+5.73		DEC	6	+5.85		MAR	1	+7.06		MAY	5	+7.07		JUL	5	+6.34		SEP	11	+4.75
NOV	4	+5.46		JAN	3	+5.57		APR	4	+7.25		JUN	5	+6.73		AUG	18	+5.56				
WATER YEAR 1995		HIGHEST		+7.25		APR 4, 1995		LOWEST		+4.75		SEP 11, 1995										



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

MONTGOMERY COUNTY

WELL NUMBER.--MO Co 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 to 24 in.

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

DATUM.--Elevation of land surface is 560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of wooden well cover, 3.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

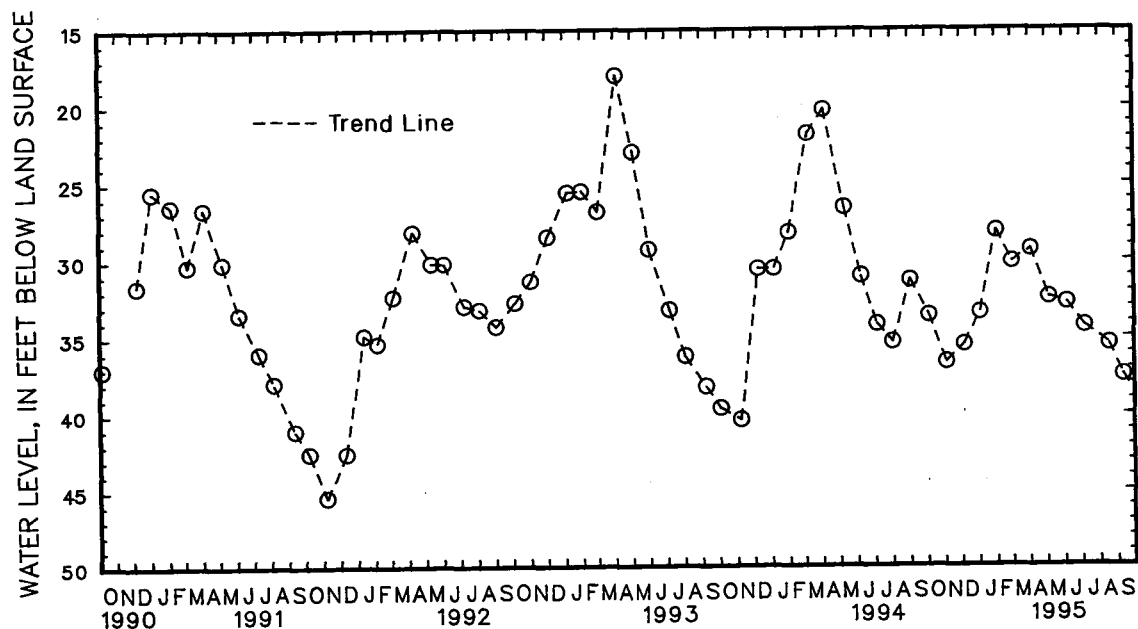
PERIOD OF RECORD.--November 1952 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	33.75	DEC 6	35.65	FEB 1	28.16	APR 4	29.37	JUN 5	32.93	AUG 18	35.68
NOV 4	36.80	JAN 3	33.51	MAR 1	30.22	MAY 5	32.57	JUL 5	34.48	SEP 11	37.67

WATER YEAR 1995 HIGHEST 28.16 FEB 1, 1995 LOWEST 37.67 SEP 11, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

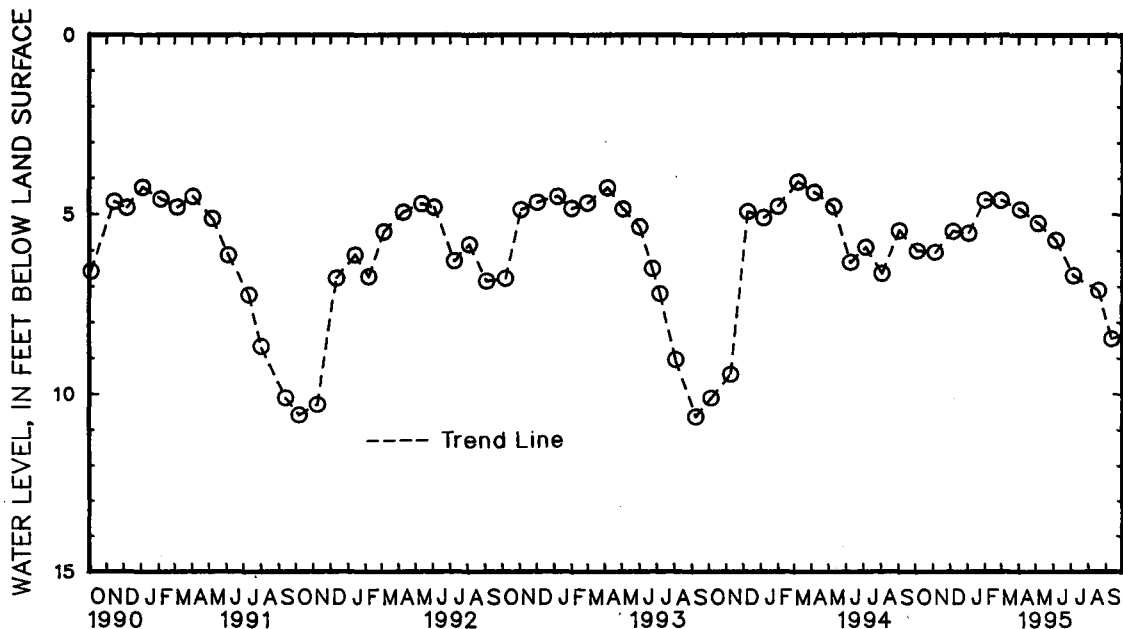
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Dc 59. SITE ID.--39091707724401. PERMIT NUMBER.--MO-73-1896.
LOCATION.--Lat 39°09'17", long 77°24'44", Hydrologic Unit 02070008, 1 mi north of Poolesville,
near Jerusalem Rd.
Owner: U.S. Geological Survey.
AQUIFER.--Ijamsville Formation of Paleozoic age. Aquifer code: 300IJMV.
WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 262 ft; casing diameter 6 in., to 42 ft;
open hole.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 370 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of recorder platform, 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 4	6.04	DEC 6	5.48	FEB 1	4.61	APR 4	4.88	JUN 5	5.75	AUG 18	7.16	NOV 4	6.08	JAN 3	5.54
				MAR 1		4.62		MAY 5		5.27		JUL 5		6.75	
WATER YEAR 1995		HIGHEST		4.61		FEB 1, 1995		LOWEST		8.53		SEP 11, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

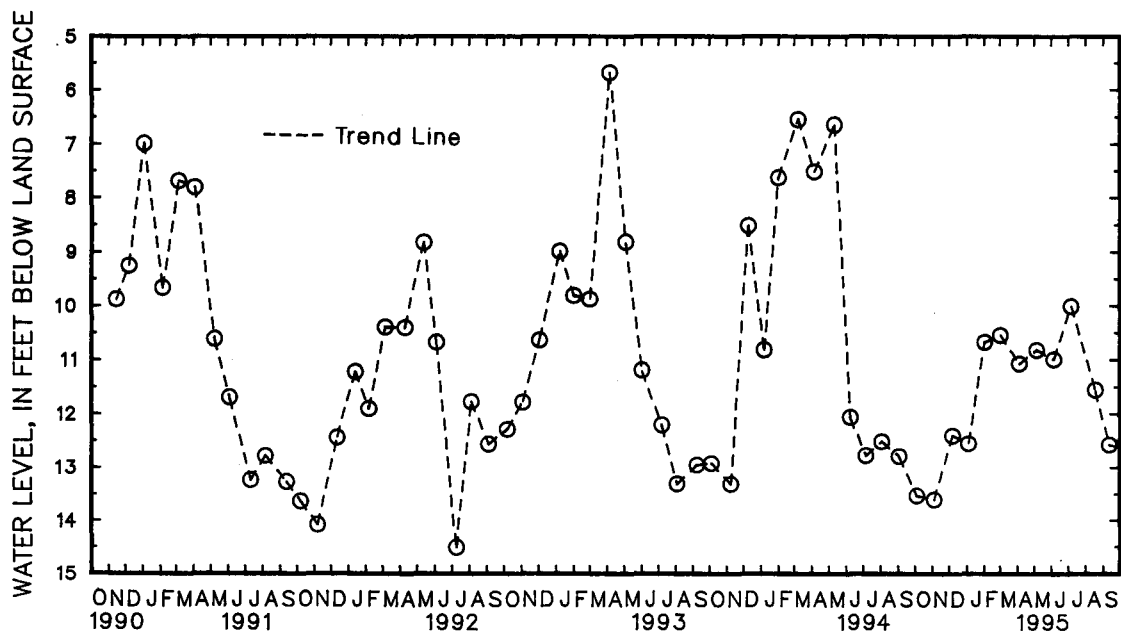
MARYLAND--Continued

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.--New Oxford Formation of Upper Triassic age. Aquifer code: 231NOXF.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 857.5 ft; casing diameter 8 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 200 ft above National Geodetic Vertical Datum of 1929.
 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, 5.68 ft below land surface, April 5, 1993.
 lowest measured, 14.52 ft below land surface, July 8, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	13.56	DEC 6	12.43	FEB 1	10.68	APR 4	11.09	JUN 5	11.01	AUG 18	11.59
NOV 4	13.63	JAN 3	12.57	MAR 1	10.55	MAY 5	10.83	JUL 5	10.02	SEP 11	12.61
WATER YEAR 1995		HIGHEST	10.02	JUL 5, 1995	LOWEST	13.63	NOV 4, 1994				



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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: Cities Service Oil Co.

AQUIFER.--Wissahickon Formation (lower pelitic schist) of Paleozoic age. Aquifer code: 300WSCK.

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 410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing at land-surface datum.

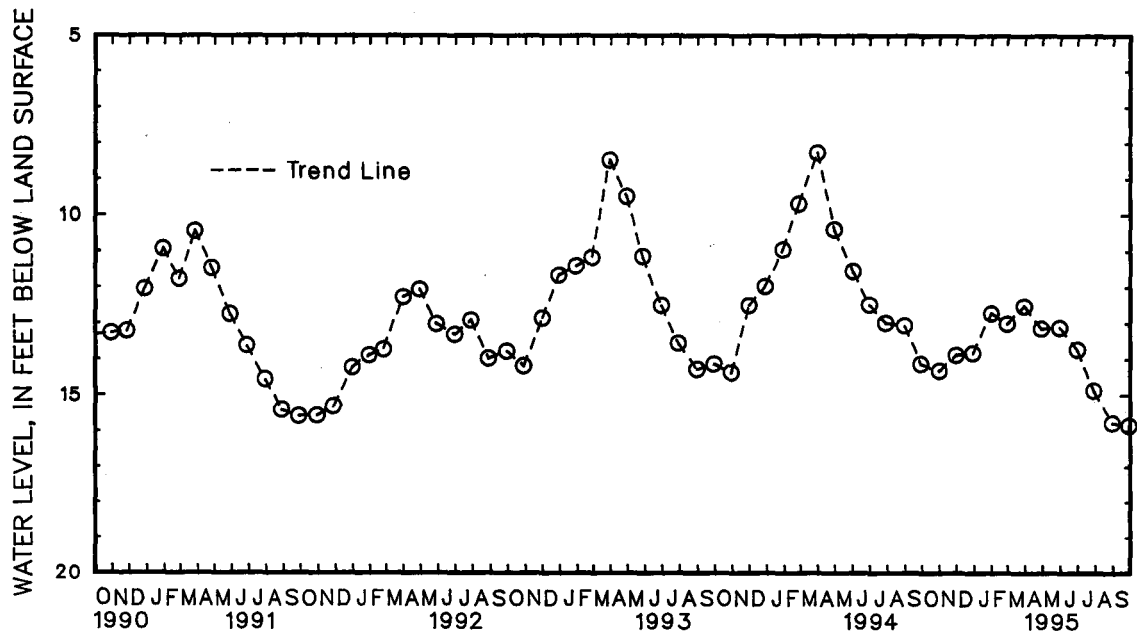
REMARKS.--Maryland Water-Level Network observation well.

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, 16.36 ft below land surface, Oct. 29, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	14.40	DEC 28	13.89	FEB 27	13.06	APR 28	13.20	JUN 29	13.80	AUG 30	15.84
NOV 29	13.93	JAN 30	12.76	MAR 29	12.56	MAY 30	13.19	JUL 28	14.94	SEP 28	15.91
WATER YEAR 1995		HIGHEST	12.56	MAR 29, 1995		LOWEST	15.91	SEP 28, 1995			



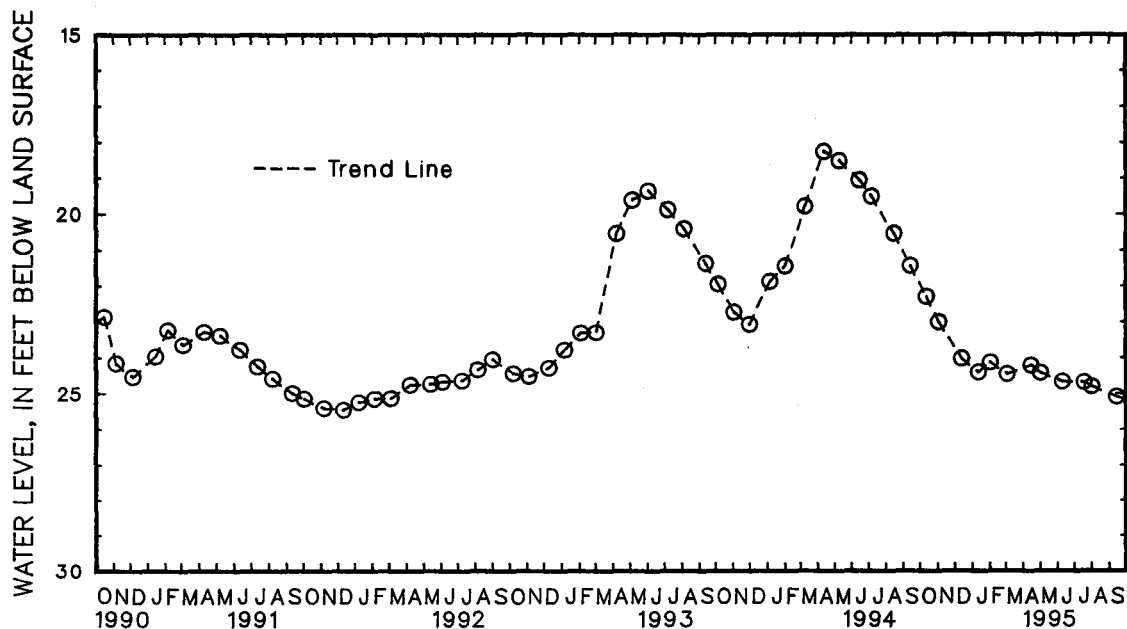
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 chalked steel 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 National Geodetic Vertical Datum of 1929, 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	22.36	DEC 13	24.10	FEB 1	24.19	APR 14	24.30	JUN 9	24.74	AUG 1	24.88
NOV 2	23.07	JAN 11	24.48	MAR 3	24.53	MAY 1	24.50	JUL 18	24.76	SEP 14	25.16
WATER YEAR 1995		HIGHEST	22.36	OCT 12, 1994		LOWEST	25.16	SEP 14, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

PRINCE GEORGES COUNTY

WELL NUMBER.--PG Dc 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 chalked steel tape by U.S. Geological Survey personnel. Equipped with water-level recorder from May 26, 1958 to Jan. 27, 1965.

DATUM.--Elevation of land surface is 95.76 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.90 ft above land surface.

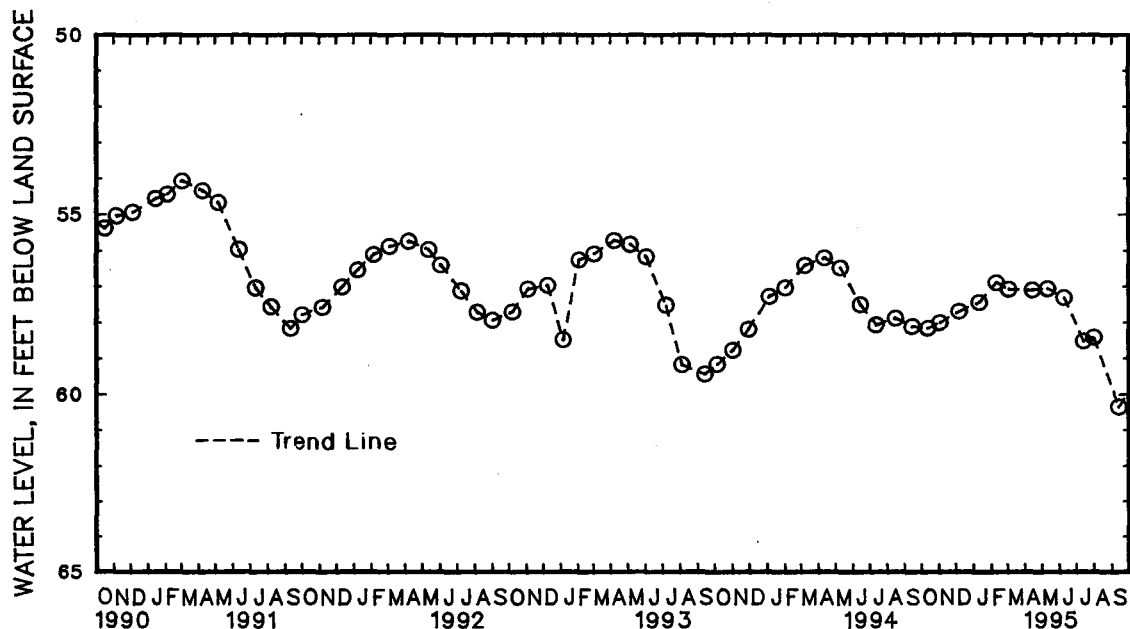
REMARKS.--Maryland Water-Level Network observation well.

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, 60.42 ft below land surface, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	58.22	DEC 6	57.74	FEB 10	56.92	APR 14	57.12	JUN 9	57.35	AUG 1	58.48
NOV 2	58.06	JAN 11	57.48	MAR 3	57.11	MAY 11	57.09	JUL 14	58.59	SEP 13	60.42
WATER YEAR 1995		HIGHEST	56.92	FEB 10, 1995		LOWEST	60.42	SEP 13, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 145 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Edge of steel cover, 3.00 ft below land surface.

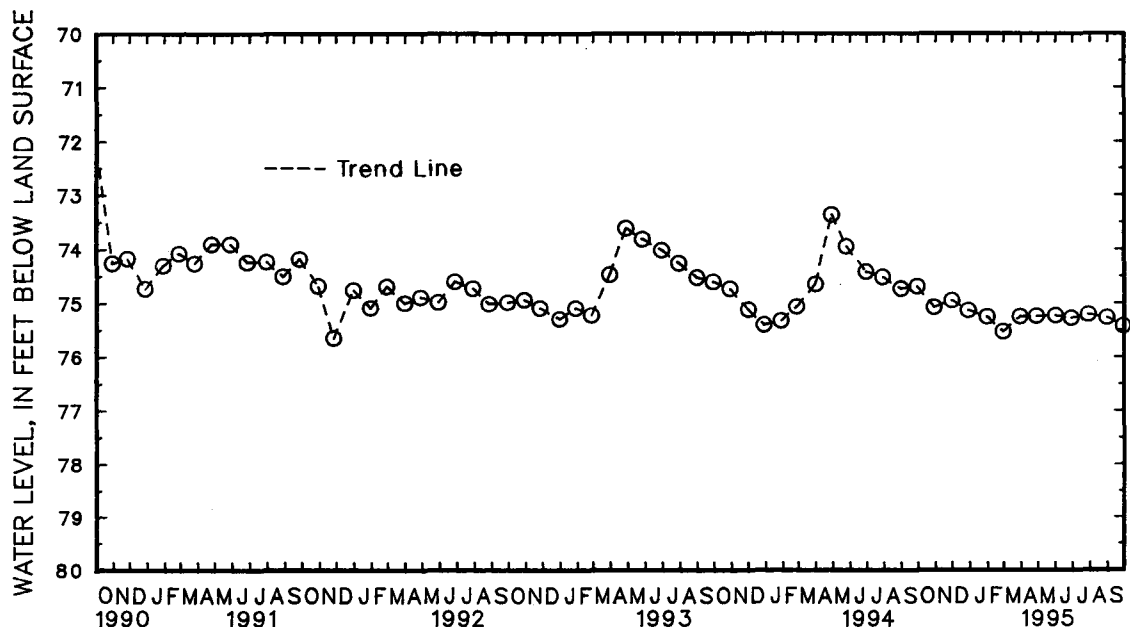
REMARKS.--Maryland Water-Level Network observation well. Water level rise in summer of 1990 to 67.78 ft. below land surface was due to leaking water storage tank above well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	75.12	DEC 28	75.18	FEB 27	75.58	APR 27	75.28	JUN 28	75.32	AUG 30	75.31
NOV 29	74.99	JAN 30	75.30	MAR 29	75.29	MAY 31	75.27	JUL 28	75.25	SEP 28	75.47
WATER YEAR 1995		HIGHEST	74.99	NOV 29, 1994	LOWEST	75.58	FEB 27, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 78 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 3.50 ft above land surface.

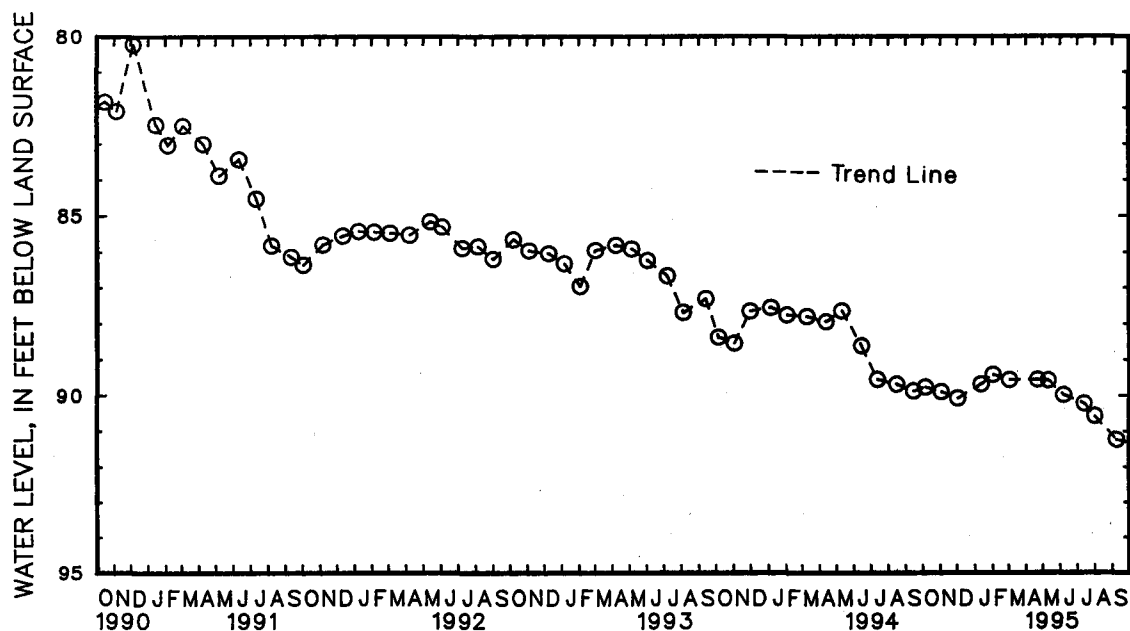
REMARKS.--Maryland Water-Level Network observation well. Water levels may be affected by nearby pumping.

PERIOD OF RECORD.--July 1961, March 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level reported, 62 ft below land surface, May 29, 1957; highest measured, 68.99 ft below land surface, Oct. 3, 1979; lowest measured, 91.30 ft below land surface, Sept. 8, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	89.83	DEC 1	90.14	FEB 1	89.47	APR 21	89.61	JUN 6	90.05	AUG 1	90.64
NOV 2	89.96	JAN 11	89.74	MAR 2	89.62	MAY 10	89.63	JUL 13	90.29	SEP 8	91.30
WATER YEAR 1995		HIGHEST	89.47	FEB 1, 1995	LOWEST	91.30	SEP 8, 1995				

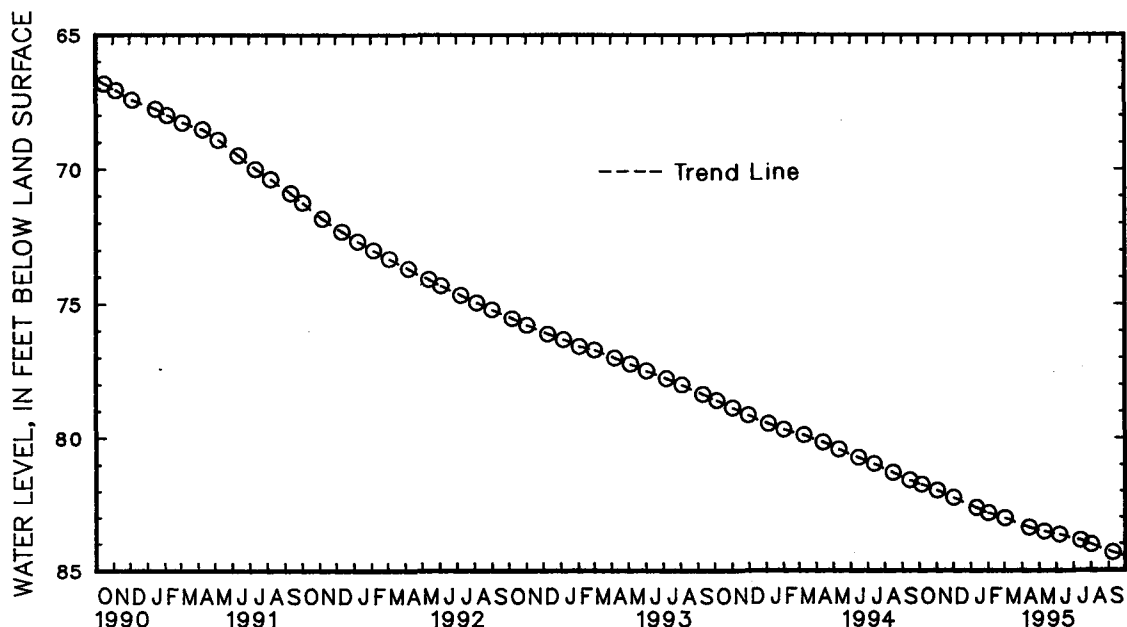


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 750 ft;
casing diameter 6 in.; casing perforated from 712 to 716 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel 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 National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 0.50 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 84.34 ft below land surface, Sept. 8, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE			WATER LEVEL			DATE			WATER LEVEL			DATE			WATER LEVEL			DATE			WATER LEVEL														
OCT	5	81.80	DEC	1	82.29	FEB	1	82.86	APR	13	83.40	JUN	6	83.66	AUG	1	84.04	NOV	2	82.02	JAN	11	82.67	MAR	2	83.05	MAY	10	83.55	JUL	13	83.88	SEP	8	84.34
WATER YEAR 1995						HIGHEST			81.80			OCT 5, 1994						LOWEST			84.34			SEP 8, 1995											



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 196.92 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.80 ft above land surface.

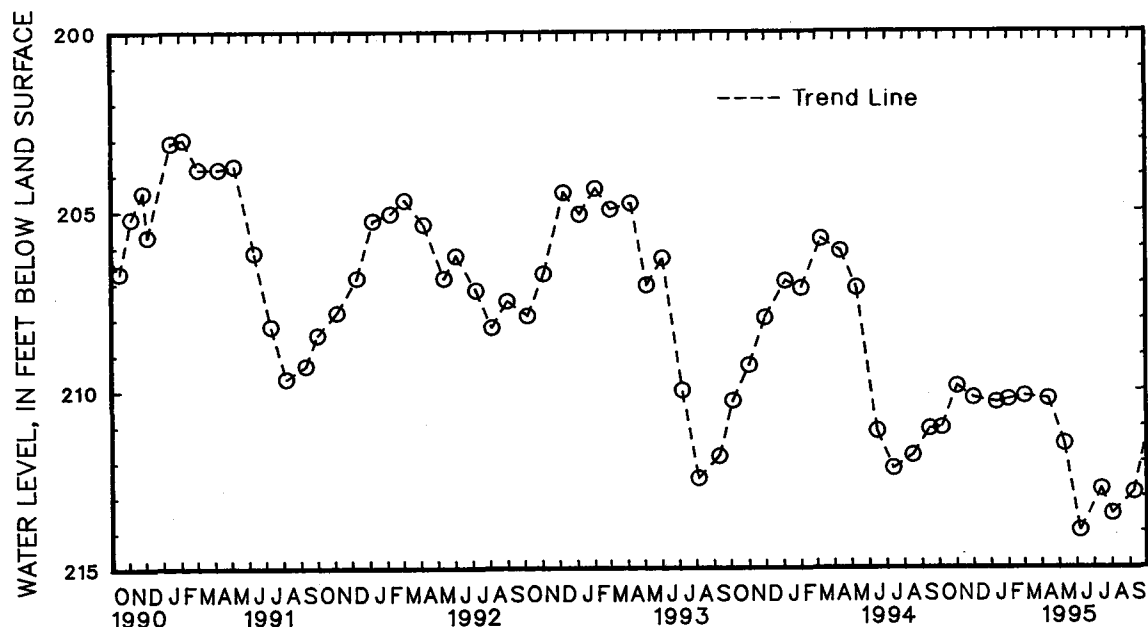
REMARKS.--Maryland Water-Level Network observation well. Water level reported 146 ft below land surface, March 11, 1955. Water levels are affected by nearby pumping.

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, 213.97 ft below land surface, June 6, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	211.06	DEC 1	210.23	FEB 1	210.28	APR 13	210.26	JUN 6	213.97	AUG 1	213.49
NOV 2	209.90	JAN 11	210.36	MAR 2	210.18	MAY 10	211.54	JUL 13	212.79	SEP 8	212.88
WATER YEAR 1995		HIGHEST	209.90	NOV 2, 1994	LOWEST	213.97	JUN 6, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

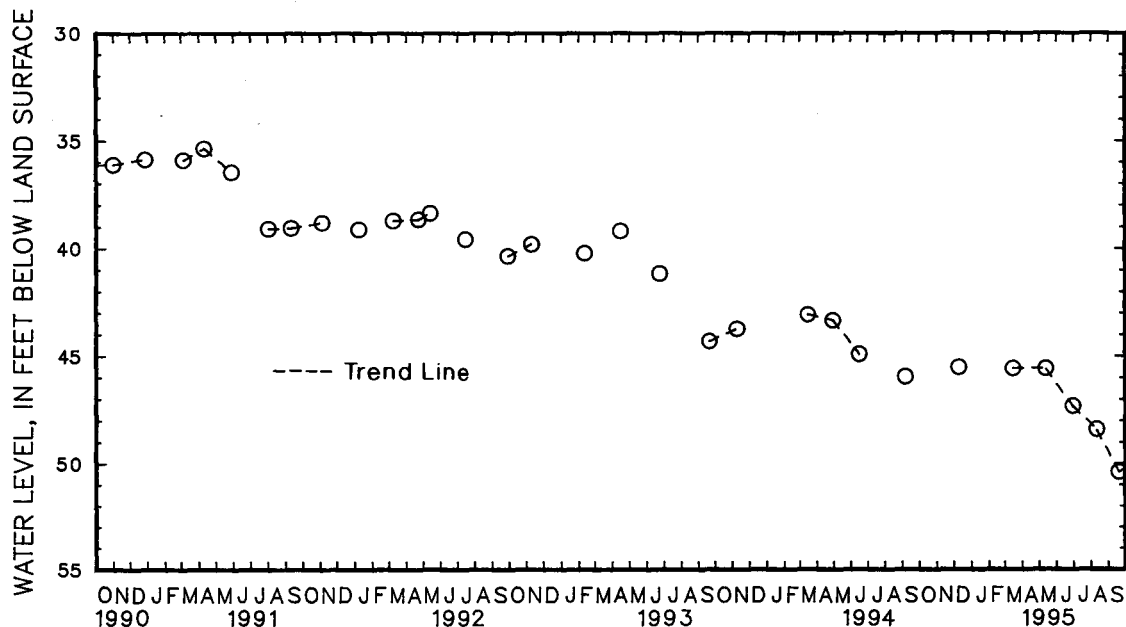
MARYLAND--Continued

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: Potomac Edison Power Co.
 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.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel.
 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.22 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels affected by nearby pumping.
 PERIOD OF RECORD.--May 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.52 ft below land surface, Sept. 8, 1975;
 lowest measured, 50.48 ft below land surface, Sept 19, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 9	45.62	MAR 15	45.68	MAY 12	45.68	JUN 29	47.43	AUG 11	48.51	SEP 19	50.48
WATER YEAR 1995		HIGHEST	45.62	DEC 9, 1994		LOWEST	50.48	SEP 19, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217FPSC.
 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.--Monthly measurements with chalked steel 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.46 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by nearby pumping.
 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, 32.37 ft below sea level, Sept. 16, 1995.

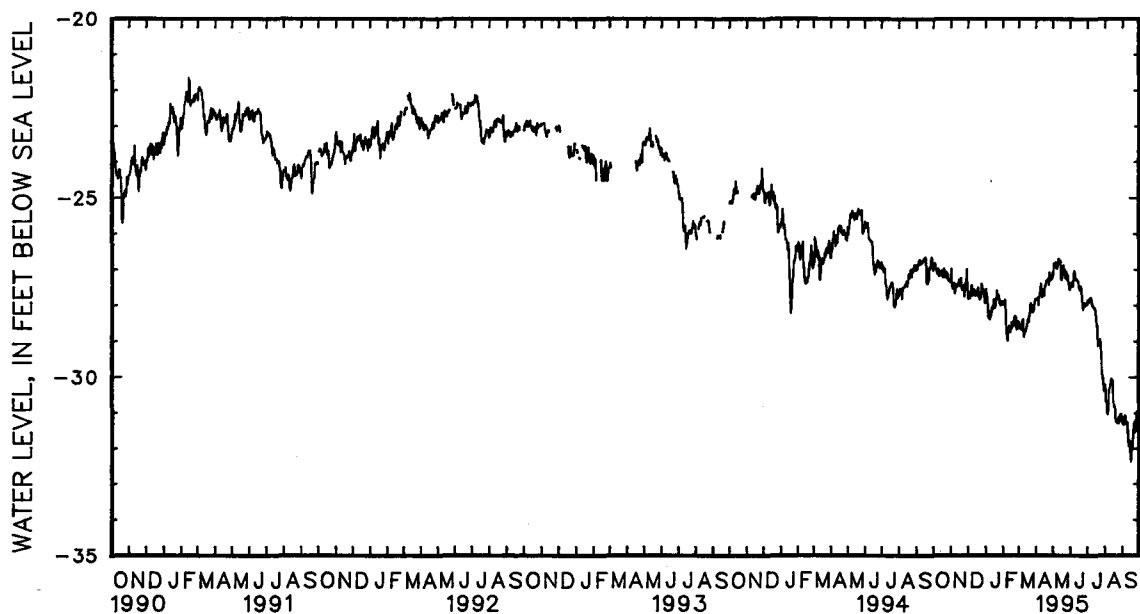
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-26.60	-26.92	-26.57	-26.98	-27.45	-27.84	-27.17	-27.56	-27.56	-27.95	-28.18	-28.59
2	-26.57	-26.89	-26.76	-27.46	-27.39	-27.82	-27.16	-27.76	-27.62	-27.98	-28.28	-28.64
3	-26.57	-26.83	-27.17	-27.53	-27.40	-27.78	-27.39	-27.78	-27.63	-27.99	-28.31	-28.65
4	-26.61	-26.94	-27.11	-27.50	-27.38	-27.80	-27.34	-28.00	-27.32	-27.86	-28.29	-28.68
5	-26.63	-26.99	-27.05	-27.44	-27.03	-27.65	-27.95	-28.35	-27.81	-28.18	-28.24	-28.69
6	-26.67	-27.05	-26.97	-27.39	-27.17	-27.47	-27.89	-28.37	-28.13	-28.66	-28.13	-28.48
7	-26.71	-27.11	-27.33	-27.67	-27.07	-27.44	-27.64	-28.17	-28.66	-28.92	-28.18	-28.47
8	-26.69	-27.10	-27.15	-27.60	-27.42	-27.75	-28.16	-28.40	-28.72	-28.95	-28.10	-28.40
9	-26.64	-26.99	-27.11	-27.43	-27.31	-27.60	-28.07	-28.32	-28.51	-29.00	-28.20	-28.85
10	-26.81	-27.18	-27.17	-27.49	-27.10	-27.57	-28.04	-28.29	-28.46	-28.66	-28.57	-28.89
11	-26.83	-27.18	-27.25	-27.45	-27.11	-27.57	-27.88	-28.22	-28.28	-28.59	-28.48	-28.69
12	-26.79	-27.08	-27.19	-27.47	-27.46	-27.69	-27.73	-28.05	-28.28	-28.68	-28.48	-28.74
13	-26.76	-27.05	-27.08	-27.39	-27.45	-27.73	-27.75	-28.05	-28.46	-28.76	-28.43	-28.73
14	-26.76	-27.06	-27.06	-27.39	-27.39	-27.73	-27.73	-28.10	-28.42	-28.70	-28.38	-28.65
15	-26.78	-27.04	-26.91	-27.29	-27.35	-27.64	-27.47	-27.83	-28.25	-28.67	-28.18	-28.58
16	-26.74	-27.10	-27.10	-27.46	-27.39	-27.67	-27.49	-27.98	-28.07	-28.48	-28.10	-28.45
17	-26.83	-27.21	-26.93	-27.34	-27.24	-27.57	-27.78	-28.08	-28.22	-28.60	-28.01	-28.39
18	-26.71	-27.09	-26.82	-27.24	-27.18	-27.51	-27.65	-28.00	-28.25	-28.60	-28.11	-28.47
19	-26.69	-26.99	-27.05	-27.49	-27.31	-27.76	-27.45	-27.87	-28.15	-28.56	-27.94	-28.31
20	-26.73	-27.06	-27.28	-27.58	-27.47	-27.79	-27.01	-27.59	-28.00	-28.42	-27.75	-28.24
21	-26.80	-27.20	-26.84	-27.51	-27.52	-27.84	-27.26	-27.68	-27.91	-28.31	-27.52	-27.98
22	-26.78	-27.16	-27.05	-27.46	-27.50	-27.83	-27.47	-27.73	-28.19	-28.50	-27.60	-27.95
23	-26.77	-27.07	-27.27	-27.54	-27.25	-27.73	-27.44	-27.72	-28.01	-28.32	-27.69	-28.02
24	-26.85	-27.22	-27.37	-27.76	-27.17	-27.40	-27.50	-27.79	-28.06	-28.61	-27.83	-28.14
25	-26.82	-27.12	-27.14	-27.40	-27.25	-27.46	-27.64	-27.96	-28.28	-28.68	-27.91	-28.19
26	-27.00	-27.26	-27.23	-27.44	-27.33	-27.64	-27.66	-27.92	-28.26	-28.67	-27.91	-28.19
27	-27.09	-27.31	-26.79	-27.41	-27.36	-27.67	-27.72	-28.01	-28.27	-28.66	-27.77	-28.14
28	-27.07	-27.30	-26.70	-27.00	-27.26	-27.58	-27.62	-27.93	-28.10	-28.45	-27.66	-27.99
29	-27.08	-27.31	-26.84	-27.39	-27.33	-27.81	-27.69	-27.98	---	---	-27.58	-27.96
30	-27.08	-27.34	-27.15	-27.62	-27.61	-27.95	-27.52	-27.90	---	---	-27.50	-27.83
31	-26.86	-27.31	---	---	-27.46	-27.85	-27.58	-27.99	---	---	-27.52	-27.84
MONTH	-26.57	-27.34	-26.57	-27.76	-27.03	-27.95	-27.01	-28.40	-27.32	-29.00	-27.50	-28.89

GROUND-WATER LEVELS
MARYLAND--Continued
PRINCE GEORGES COUNTY--Continued
PG Hf 40--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-27.52	-27.84	-26.78	-27.13	-27.13	-27.44	-27.49	-27.87	-29.88	-30.22	-30.99	-31.29
2	-27.49	-27.82	-26.50	-26.83	-27.08	-27.37	-27.53	-27.86	-29.97	-30.35	-31.07	-31.34
3	-27.46	-27.82	-26.64	-26.86	-27.09	-27.40	-27.59	-27.91	-30.19	-30.67	-30.85	-31.27
4	-27.23	-27.79	-26.65	-26.87	-27.22	-27.48	-27.52	-27.84	-30.58	-31.03	-30.81	-31.13
5	-27.69	-28.00	-26.52	-26.80	-26.96	-27.45	-27.52	-27.83	-30.72	-31.05	-30.81	-31.08
6	-27.48	-27.77	-26.71	-26.95	-26.75	-27.15	-27.49	-27.79	-30.45	-30.86	-30.79	-31.13
7	-27.46	-27.68	-26.63	-26.94	-26.72	-27.03	-27.49	-27.81	-30.24	-30.72	-30.81	-31.28
8	-27.17	-27.60	-26.70	-26.96	-26.72	-27.05	-27.50	-27.91	-30.09	-30.36	-30.88	-31.33
9	-27.21	-27.39	-26.52	-26.87	-26.81	-27.29	-27.59	-28.00	-29.99	-30.31	-30.87	-31.28
10	-27.23	-27.66	-26.46	-26.71	-26.91	-27.28	-27.67	-28.01	-29.86	-30.23	-30.81	-31.49
11	-27.45	-27.77	-26.48	-26.71	-26.90	-27.27	-27.58	-28.05	-29.68	-30.15	-31.26	-31.77
12	-27.29	-27.76	-26.43	-26.74	-26.82	-27.29	-27.69	-28.07	-29.67	-30.05	-31.57	-31.93
13	-27.19	-27.56	-26.48	-26.80	-26.95	-27.32	-27.69	-28.07	-29.72	-30.07	-31.46	-31.93
14	-27.29	-27.72	-26.47	-26.76	-26.85	-27.32	-27.70	-28.11	-29.73	-30.08	-31.53	-31.80
15	-27.37	-27.73	-26.54	-27.25	-26.98	-27.49	-27.81	-28.19	-29.88	-30.40	-31.78	-32.24
16	-27.16	-27.50	-26.90	-27.28	-27.24	-27.53	-27.96	-28.41	-30.40	-30.84	-32.05	-32.37
17	-27.10	-27.46	-26.66	-27.17	-27.26	-27.58	-28.19	-28.55	-30.54	-30.85	-31.80	-32.08
18	-27.01	-27.41	-26.64	-26.96	-27.24	-27.57	-28.28	-28.65	-30.55	-30.84	-31.66	-31.98
19	-26.81	-27.31	-26.56	-26.89	-27.15	-27.47	-28.46	-29.10	-30.65	-31.19	-31.39	-31.83
20	-26.96	-27.31	-26.70	-27.01	-27.18	-27.60	-28.84	-29.14	-30.99	-31.26	-31.21	-31.49
21	-26.87	-27.30	-26.71	-27.00	-27.37	-27.79	-28.79	-29.03	-30.94	-31.20	-31.11	-31.34
22	-26.94	-27.25	-26.76	-27.21	-27.53	-28.00	-28.76	-29.04	-30.90	-31.29	-30.89	-31.26
23	-26.98	-27.43	-26.84	-27.23	-27.82	-28.13	-28.71	-28.96	-30.90	-31.25	-31.15	-31.55
24	-26.77	-27.09	-26.78	-27.06	-27.75	-28.00	-28.73	-29.17	-30.73	-31.15	-30.95	-31.33
25	-26.77	-27.17	-26.75	-27.27	-27.68	-27.94	-28.88	-29.35	-30.92	-31.29	-30.67	-31.15
26	-26.90	-27.30	-26.82	-27.25	-27.67	-27.97	-28.13	-29.87	-30.77	-31.09	-30.63	-30.96
27	-26.85	-27.25	-26.84	-27.16	-27.68	-28.01	-29.65	-29.97	-30.67	-31.06	-30.65	-31.00
28	-26.79	-27.25	-26.91	-27.39	-27.70	-27.98	-29.66	-29.97	-30.75	-31.10	-30.70	-31.06
29	-26.88	-27.25	-27.08	-27.38	-27.66	-27.98	-29.65	-30.13	-30.65	-31.04	-30.69	-31.09
30	-26.73	-27.06	-27.13	-27.57	-27.67	-27.98	-29.98	-30.39	-30.70	-31.17	-30.60	-30.86
31	---	---	-27.24	-27.57	---	---	-29.95	-30.40	-30.92	-31.27	---	---
MONTH	-26.73	-28.00	-26.43	-27.57	-26.72	-28.13	-27.49	-30.40	-29.67	-31.29	-30.60	-32.37
YEAR	-26.43	-32.37										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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MARYLAND--Continued

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 667 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.--Monthly measurements with chalked steel 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.60 ft above land surface.
 REMARKS.--Southern Maryland Observation Network. Water levels are affected by nearby pumping.
 PERIOD OF RECORD.--December 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.27 ft below sea level, Dec. 24, 1974;
 lowest measured, 43.28 ft below sea level, Sept. 11, 1995.

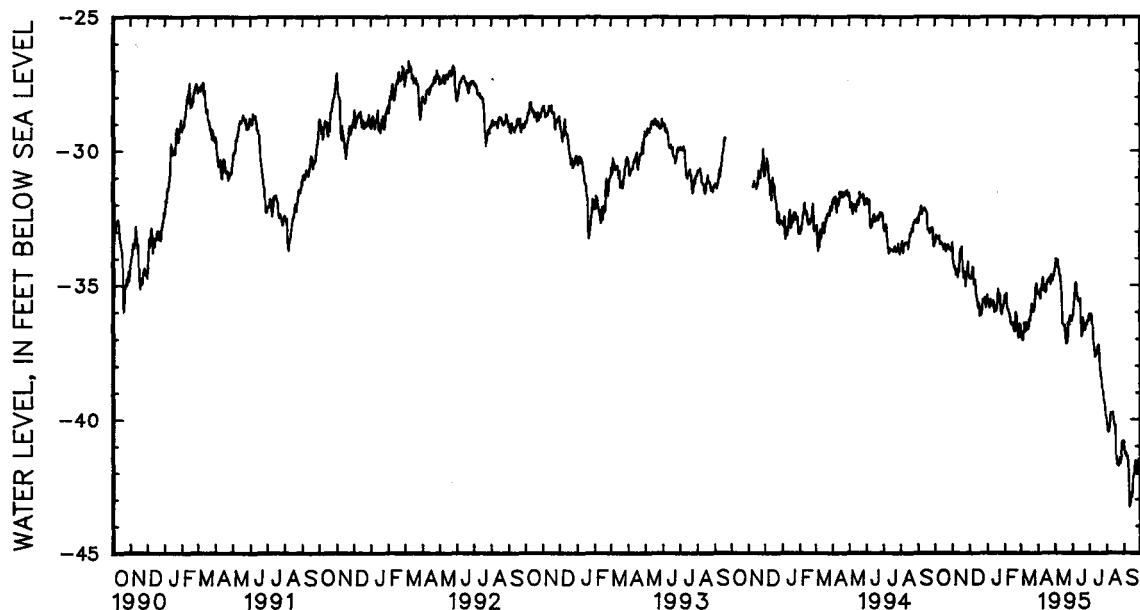
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-33.03	-33.44	-32.89	-33.42	-34.31	-34.74	-34.88	-35.38	-34.95	-35.39	-36.18	-36.80
2	-32.95	-33.40	-33.22	-34.17	-34.25	-34.76	-34.86	-35.56	-35.03	-35.44	-36.46	-36.95
3	-32.75	-33.14	-33.89	-34.34	-34.31	-34.77	-35.10	-35.57	-35.06	-35.44	-36.57	-36.96
4	-32.76	-33.19	-33.84	-34.31	-34.25	-34.76	-35.05	-35.64	-34.72	-35.31	-36.56	-37.03
5	-32.74	-33.20	-33.97	-34.41	-33.83	-34.57	-35.44	-35.86	-35.31	-35.71	-36.53	-37.06
6	-32.74	-33.23	-33.89	-34.44	-33.93	-34.34	-35.17	-35.68	-35.67	-35.89	-36.31	-36.77
7	-32.81	-33.29	-34.17	-34.62	-34.01	-34.37	-35.01	-35.54	-35.48	-35.84	-36.24	-36.67
8	-32.77	-33.26	-34.00	-34.52	-34.32	-34.98	-35.44	-35.78	-35.51	-35.93	-35.90	-36.42
9	-32.76	-33.17	-34.08	-34.43	-34.45	-34.82	-35.32	-35.64	-35.70	-36.07	-35.95	-36.73
10	-32.92	-33.47	-34.12	-34.71	-34.41	-34.81	-35.40	-35.69	-35.70	-36.11	-36.25	-36.70
11	-33.06	-33.46	-34.27	-34.54	-34.41	-35.01	-35.34	-35.68	-35.95	-36.21	-36.13	-36.40
12	-33.06	-33.40	-34.06	-34.51	-35.00	-35.35	-35.27	-35.60	-35.97	-36.40	-36.17	-36.54
13	-33.10	-33.42	-33.77	-34.18	-35.13	-35.47	-35.36	-35.83	-36.18	-36.50	-36.25	-36.59
14	-33.13	-33.51	-33.63	-34.05	-35.16	-35.53	-35.62	-36.01	-36.14	-36.51	-36.26	-36.65
15	-33.22	-33.51	-33.29	-33.69	-35.21	-35.75	-35.23	-35.78	-36.07	-36.50	-36.12	-36.53
16	-33.09	-33.55	-33.38	-33.74	-35.48	-35.84	-35.26	-35.84	-35.90	-36.41	-36.01	-36.44
17	-33.28	-33.68	-32.93	-33.61	-35.26	-35.68	-35.63	-35.97	-36.16	-36.70	-35.87	-36.29
18	-33.04	-33.60	-32.91	-33.57	-35.26	-35.72	-35.39	-35.90	-36.33	-36.72	-35.91	-36.33
19	-33.00	-33.48	-33.53	-34.41	-35.51	-36.14	-34.95	-35.63	-36.26	-36.73	-35.60	-36.17
20	-33.20	-33.59	-34.28	-34.71	-35.72	-36.14	-34.47	-35.16	-35.76	-36.52	-35.40	-35.96
21	-33.32	-33.75	-33.97	-34.71	-35.75	-36.13	-34.80	-35.41	-35.56	-35.99	-35.17	-35.70
22	-33.24	-33.66	-34.11	-34.52	-35.65	-36.10	-35.06	-35.49	-35.91	-36.19	-35.31	-35.73
23	-33.17	-33.54	-34.44	-34.75	-35.37	-35.95	-35.05	-35.35	-35.84	-36.17	-35.54	-35.91
24	-33.27	-33.62	-34.53	-35.04	-35.30	-35.55	-35.22	-35.62	-36.07	-36.87	-35.64	-36.00
25	-33.20	-33.51	-34.14	-34.54	-35.21	-35.63	-35.53	-35.89	-36.43	-36.96	-35.57	-35.94
26	-33.38	-33.65	-34.19	-34.53	-35.24	-35.58	-35.62	-36.06	-36.38	-36.83	-35.28	-35.82
27	-33.39	-33.66	-33.88	-34.48	-35.15	-35.60	-35.54	-36.10	-36.27	-36.77	-34.86	-35.44
28	-33.34	-33.60	-33.73	-34.11	-35.09	-35.46	-35.38	-35.76	-36.01	-36.44	-34.59	-35.01
29	-33.33	-33.61	-33.95	-34.60	-35.22	-35.74	-35.52	-35.87	---	---	-34.56	-34.95
30	-33.38	-33.73	-34.31	-34.71	-35.42	-35.84	-35.34	-35.80	---	---	-34.59	-35.07
31	-33.25	-33.69	---	---	-35.18	-35.67	-35.10	-35.66	---	---	-34.75	-35.30
MONTH	-32.74	-33.75	-32.89	-35.04	-33.83	-36.14	-34.47	-36.10	-34.72	-36.96	-34.56	-37.06

GROUND-WATER LEVELS
MARYLAND--Continued
PRINCE GEORGES COUNTY--Continued
PG Hf 41--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-34.95	-35.34	-33.93	-34.34	-35.85	-36.19	-35.61	-36.09	-39.63	-39.98	-40.43	-40.83
2	-34.89	-35.32	-33.52	-34.02	-35.76	-36.16	-35.76	-36.20	-39.78	-40.20	-40.65	-41.13
3	-34.80	-35.26	-33.70	-34.02	-35.45	-35.94	-35.83	-36.26	-40.01	-40.43	-40.88	-41.24
4	-34.60	-35.27	-33.76	-34.11	-35.23	-35.63	-35.73	-36.09	-40.06	-40.44	-40.89	-41.39
5	-35.06	-35.49	-33.68	-34.04	-34.74	-35.41	-35.78	-36.14	-40.06	-40.48	-40.91	-41.26
6	-34.82	-35.13	-33.98	-34.33	-34.50	-34.92	-35.84	-36.41	-39.93	-40.34	-40.83	-41.33
7	-34.81	-35.11	-33.96	-34.35	-34.50	-34.92	-36.11	-36.80	-39.62	-40.17	-40.95	-41.41
8	-34.50	-35.04	-34.00	-34.46	-34.54	-35.01	-36.48	-37.14	-39.40	-39.75	-41.04	-41.69
9	-34.52	-34.74	-34.25	-34.64	-34.76	-35.35	-36.82	-37.24	-39.34	-39.83	-41.33	-42.05
10	-34.61	-35.20	-34.22	-34.65	-34.97	-35.47	-36.79	-37.44	-39.33	-39.79	-41.82	-42.96
11	-34.77	-35.08	-34.41	-34.87	-35.04	-35.60	-37.01	-37.67	-39.30	-39.76	-42.79	-43.28
12	-34.66	-35.07	-34.57	-35.11	-35.15	-35.57	-37.20	-37.64	-39.29	-39.74	-42.66	-43.19
13	-34.49	-35.01	-34.79	-35.52	-35.21	-35.63	-37.10	-37.60	-39.47	-39.98	-42.39	-42.94
14	-34.74	-35.27	-35.25	-36.04	-34.97	-35.55	-36.97	-37.56	-39.73	-40.13	-42.41	-42.74
15	-34.86	-35.26	-35.75	-36.49	-34.88	-35.53	-36.84	-37.33	-39.84	-40.25	-42.49	-42.91
16	-34.58	-35.01	-36.13	-36.54	-35.45	-36.44	-36.84	-37.27	-39.87	-40.23	-42.15	-42.64
17	-34.50	-34.92	-36.05	-36.50	-36.44	-36.92	-36.84	-37.23	-39.93	-40.43	-41.80	-42.16
18	-34.41	-34.85	-36.15	-36.60	-36.21	-36.85	-36.94	-37.37	-40.31	-41.37	-41.71	-42.07
19	-34.30	-34.87	-36.37	-36.90	-35.92	-36.44	-37.10	-37.78	-41.24	-41.69	-41.59	-41.95
20	-34.40	-34.79	-36.81	-37.17	-35.92	-36.24	-37.51	-38.11	-41.33	-41.63	-41.28	-41.61
21	-34.31	-34.74	-36.81	-37.13	-35.95	-36.44	-37.82	-38.25	-41.30	-41.67	-41.13	-41.54
22	-34.43	-34.76	-36.77	-37.17	-36.12	-36.48	-38.00	-38.45	-41.33	-41.75	-41.13	-41.64
23	-34.49	-34.98	-36.33	-36.85	-36.26	-36.68	-38.10	-38.45	-41.30	-41.66	-41.54	-42.07
24	-34.30	-34.82	-36.08	-36.42	-36.25	-36.53	-38.17	-38.78	-41.05	-41.45	-41.44	-41.99
25	-34.30	-34.77	-35.95	-36.47	-36.14	-36.44	-38.45	-38.99	-41.16	-41.65	-41.15	-41.72
26	-34.44	-34.84	-36.11	-36.48	-36.12	-36.46	-38.68	-39.26	-41.04	-41.54	-41.10	-41.52
27	-34.28	-34.70	-35.97	-36.35	-36.09	-36.43	-38.95	-39.34	-40.89	-41.41	-41.03	-41.50
28	-34.16	-34.68	-35.86	-36.17	-35.97	-36.32	-38.98	-39.37	-40.58	-41.18	-41.12	-41.55
29	-34.21	-34.60	-35.80	-36.15	-35.95	-36.31	-39.08	-39.53	-40.49	-40.83	-41.16	-41.58
30	-33.89	-34.43	-35.85	-36.33	-35.85	-36.32	-39.36	-39.82	-40.48	-40.85	-41.04	-41.48
31	---	---	-35.92	-36.33	---	---	-39.57	-39.90	-40.40	-40.83	---	---
MONTH	-33.89	-35.49	-33.52	-37.17	-34.50	-36.92	-35.61	-39.90	-39.29	-41.75	-40.43	-43.28
YEAR	-32.74	-43.28										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

399

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.--Measurements with chalked steel tape by U.S. Geological Survey personnel.
 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 current year.
 DATUM.--Elevation of land surface is 27.76 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.65 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels affected by nearby pumping.
 Missing data due to recorder malfunction.
 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, 37.23 ft below sea level, Sept. 23, 1995.

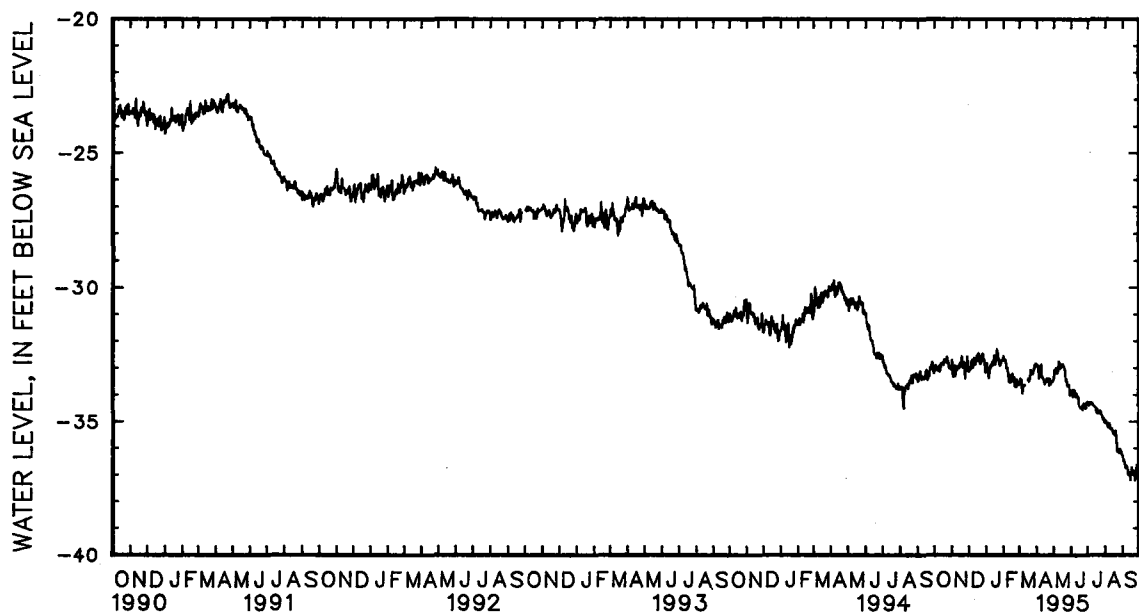
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 (READINGS BELOW SEA LEVEL INDICATED BY "--")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-32.74	-33.08	-32.21	-32.72	-32.80	-33.15	-32.56	-33.15	-32.20	-32.58	-33.19	-33.64
2	-32.68	-33.03	-32.46	-33.24	-32.59	-33.05	-32.46	-32.83	-32.27	-32.72	-33.08	-33.54
3	-32.62	-32.91	-32.90	-33.36	-32.62	-33.03	-32.74	-33.11	-32.41	-32.75	-33.01	-33.41
4	-32.65	-33.03	-32.76	-33.25	-32.68	-33.07	-32.71	-33.17	-31.95	-32.71	-33.14	-33.44
5	-32.69	-33.07	-32.63	-33.06	-32.25	-32.90	-32.75	-33.40	-32.16	-32.80	-33.04	-33.45
6	-32.72	-33.12	-32.52	-32.92	-32.39	-32.75	-32.49	-33.36	-32.71	-33.03	-33.45	-33.95
7	-32.74	-33.12	-32.80	-33.32	-32.28	-32.71	-32.45	-33.08	-32.74	-33.03	-33.59	-33.97
8	-32.67	-33.09	-32.72	-33.16	-32.48	-33.02	-32.74	-33.04	-32.74	-33.02	-33.42	-33.67
9	-32.59	-32.94	-32.72	-33.02	-32.40	-32.83	-32.65	-32.91	-32.76	-33.20	-33.43	-33.68
10	-32.71	-33.15	-32.72	-33.07	-32.19	-32.65	-32.74	-32.95	-33.08	-33.47	-33.41	-33.69
11	-32.76	-33.11	-32.77	-32.96	-32.16	-32.69	-32.63	-32.94	-33.12	-33.54	-33.38	-33.65
12	-32.66	-32.93	-32.78	-33.01	-32.66	-32.89	-32.51	-32.79	-32.90	-33.28	---	---
13	-32.62	-32.85	-32.68	-32.94	-32.47	-32.75	-32.55	-32.85	-32.97	-33.54	---	---
14	-32.59	-32.84	-32.70	-33.02	-32.40	-32.76	-32.53	-32.90	-33.19	-33.55	---	---
15	-32.59	-32.82	-32.52	-32.83	-32.29	-32.56	-32.14	-32.56	-33.15	-33.52	---	---
16	-32.43	-32.80	-32.64	-32.96	-32.34	-32.65	-32.16	-32.75	-32.97	-33.43	-33.03	-33.47
17	-32.59	-32.90	-32.28	-32.85	-32.16	-32.55	-32.59	-32.88	-32.75	-33.22	-32.97	-33.41
18	-32.36	-32.82	-32.16	-32.57	-32.12	-32.47	-32.39	-32.78	-32.99	-33.44	-33.08	-33.52
19	-32.31	-32.70	-32.43	-32.91	-32.13	-32.68	-32.11	-32.65	-32.91	-33.50	-33.00	-33.47
20	-32.37	-32.75	-32.69	-33.01	-32.40	-32.77	-31.74	-32.30	-32.92	-33.37	-32.84	-33.39
21	-32.43	-32.79	-32.18	-32.90	-32.43	-32.85	-31.87	-32.47	-33.24	-33.71	-32.67	-33.08
22	-32.35	-32.72	-32.33	-32.81	-32.57	-32.87	-32.31	-32.66	-33.26	-33.57	-32.78	-33.11
23	-32.33	-32.60	-32.79	-33.02	-32.42	-32.75	-32.38	-32.66	-33.35	-33.72	-32.88	-33.21
24	-32.51	-32.82	-32.96	-33.42	-32.10	-32.54	-32.36	-32.78	-33.14	-33.71	-32.96	-33.25
25	-32.48	-32.77	-32.70	-32.97	-32.22	-32.49	-32.67	-32.93	-32.98	-33.44	-32.93	-33.22
26	-32.73	-32.93	-32.80	-33.12	-32.19	-32.48	-32.54	-32.78	-33.20	-33.54	-32.84	-33.15
27	-32.75	-33.03	-32.46	-33.05	-32.42	-32.74	-32.55	-32.88	-33.24	-33.56	-32.74	-33.05
28	-32.76	-32.98	-32.20	-32.58	-32.41	-32.70	-32.40	-32.74	-33.19	-33.56	-32.60	-32.92
29	-32.76	-33.01	-32.40	-32.94	-32.38	-32.87	-32.48	-32.75	---	---	-32.63	-32.98
30	-32.78	-33.07	-32.72	-33.11	-32.68	-33.20	-32.23	-32.73	---	---	-32.53	-32.85
31	-32.69	-33.06	---	---	-32.85	-33.17	-32.23	-32.68	---	---	-32.57	-32.89
MONTH	-32.31	-33.15	-32.16	-33.42	-32.10	-33.20	-31.74	-33.40	-31.95	-33.72	-32.53	-33.97

GROUND-WATER LEVELS
MARYLAND--Continued
PRINCE GEORGES COUNTY--Continued
PG Hf 42--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-32.58	-32.88	-33.02	-33.42	-33.64	-33.88	-33.84	-34.27	-34.63	-34.98	-35.94	-36.31
2	-32.55	-32.89	-32.64	-33.09	-33.62	-33.86	-33.90	-34.37	-34.66	-35.02	-36.12	-36.50
3	-32.58	-32.90	-32.80	-33.09	-33.62	-33.84	-34.05	-34.40	-34.79	-35.08	-36.18	-36.45
4	-32.37	-33.02	-32.81	-33.10	-33.74	-34.08	-33.95	-34.29	-34.79	-35.07	-36.10	-36.50
5	-33.02	-33.40	-32.68	-33.00	-33.71	-34.09	-33.98	-34.35	-34.81	-35.22	-36.21	-36.62
6	-32.80	-33.09	-32.95	-33.21	-33.56	-33.83	-33.93	-34.32	-34.85	-35.09	-36.26	-36.74
7	-32.89	-33.11	-32.81	-33.19	-33.56	-33.84	-33.93	-34.30	-34.86	-35.21	-36.34	-36.76
8	-32.65	-33.08	-32.83	-33.20	-33.56	-33.86	-33.88	-34.36	-34.74	-35.09	-36.25	-36.67
9	-32.66	-32.87	-32.65	-33.08	-33.67	-34.08	-33.98	-34.36	-34.78	-35.24	-36.27	-36.71
10	-32.78	-33.36	-32.45	-32.76	-33.69	-34.01	-33.88	-34.32	-34.91	-35.31	-36.27	-36.80
11	-33.01	-33.36	-32.54	-32.79	-33.63	-33.96	-33.81	-34.41	-34.93	-35.31	-36.60	-37.02
12	-33.02	-33.41	-32.53	-32.90	-33.58	-34.04	-33.99	-34.45	-34.91	-35.28	-36.56	-36.93
13	-32.84	-33.44	-32.60	-33.04	-33.75	-34.12	-33.99	-34.46	-34.95	-35.34	-36.53	-36.90
14	-33.14	-33.56	-32.53	-32.97	-33.69	-34.10	-34.04	-34.48	-35.02	-35.40	-36.55	-37.03
15	-33.26	-33.62	-32.39	-32.88	-33.78	-34.41	-34.19	-34.61	-35.12	-35.49	-36.82	-37.22
16	-33.09	-33.50	-32.58	-32.91	-34.11	-34.49	-34.33	-34.70	-35.10	-35.40	-36.69	-36.96
17	-33.06	-33.50	-32.46	-32.86	-34.15	-34.50	-34.19	-34.54	-35.12	-35.52	-36.36	-36.71
18	-33.04	-33.48	-32.60	-32.94	-34.21	-34.52	-34.24	-34.62	-35.23	-35.53	-36.61	-36.99
19	-32.88	-33.40	-32.55	-32.94	-34.16	-34.49	-34.36	-34.72	-35.16	-35.37	-36.74	-36.98
20	-33.08	-33.51	-32.75	-33.04	-34.16	-34.47	-34.39	-34.67	-35.13	-35.53	-36.57	-36.93
21	-33.04	-33.48	-32.77	-33.11	-34.18	-34.57	-34.37	-34.63	-35.26	-35.79	-36.50	-36.85
22	-33.10	-33.41	-32.89	-33.44	-34.19	-34.41	-34.40	-34.71	-35.54	-36.14	-36.39	-36.86
23	-33.23	-33.66	-33.14	-33.51	-34.12	-34.45	-34.40	-34.62	-35.92	-36.16	-36.76	-37.23
24	-33.05	-33.42	-33.15	-33.45	-34.05	-34.34	-34.35	-34.75	-35.74	-36.07	-36.63	-37.14
25	-33.03	-33.48	-33.16	-33.68	-34.00	-34.42	-34.42	-34.77	-35.85	-36.20	-36.29	-36.86
26	-33.19	-33.62	-33.40	-33.69	-34.12	-34.52	-34.45	-34.85	-35.71	-36.14	-36.26	-36.64
27	-33.16	-33.53	-33.39	-33.65	-34.16	-34.50	-34.51	-34.95	-35.72	-36.05	-36.32	-36.73
28	-33.05	-33.53	-33.38	-33.67	-33.96	-34.41	-34.60	-34.95	-35.90	-36.17	-36.36	-36.81
29	-33.16	-33.52	-33.29	-33.65	-33.87	-34.31	-34.59	-34.89	-35.90	-36.12	-36.45	-36.86
30	-32.93	-33.47	-33.50	-34.03	-33.98	-34.33	-34.68	-35.05	-35.93	-36.25	-36.40	-36.74
31	---	---	-33.72	-34.03	---	---	-34.69	-35.07	-35.93	-36.26	---	---
MONTH	-32.37	-33.66	-32.39	-34.03	-33.56	-34.57	-33.81	-35.07	-34.63	-36.26	-35.94	-37.23
YEAR	-31.74	-37.23										

Daily Low Water Levels

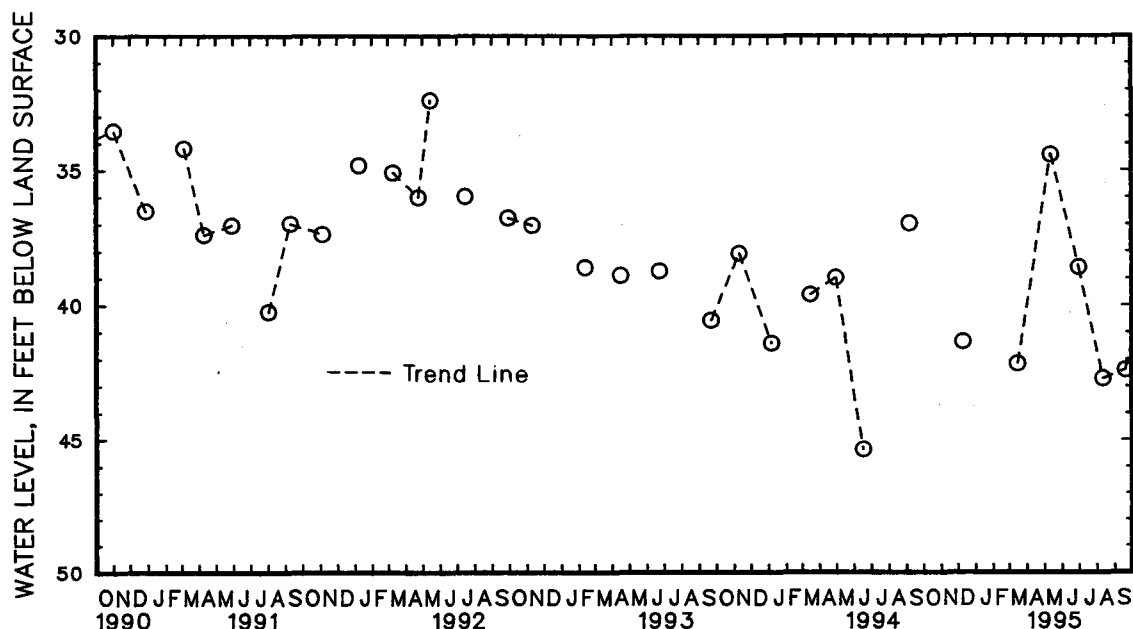


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

PRINCE GEORGES COUNTY--Continued

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 9	41.43	MAR 15	42.26	MAY 12	34.43	JUN 29	38.66	AUG 11	42.81	SEP 19	42.49
WATER YEAR 1995		HIGHEST	34.43	MAY 12, 1995		LOWEST	42.81	AUG 11, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

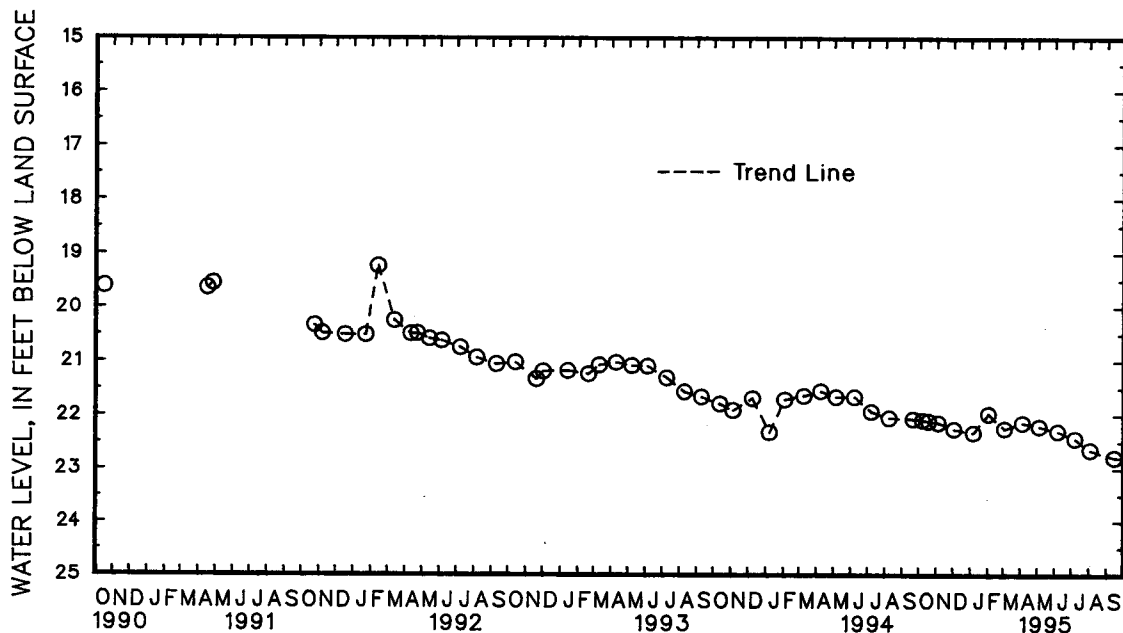
MARYLAND--Continued

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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PFSC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929,
from topographic map.
Measuring point: Top of casing, 2.75 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 22.82 ft below land surface, Sept. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
OCT 7	22.12	DEC 2	22.29	MAR 3	22.28	JUN 6	22.33	SEP 14	22.82		
18	22.14	JAN 6	22.36	APR 4	22.17	JUL 7	22.47				
NOV 4	22.17	FEB 2	22.00	MAY 4	22.24	AUG 3	22.68				
WATER YEAR 1995		HIGHEST	22.00	FEB 2, 1995		LOWEST	22.82	SEP 14, 1995			



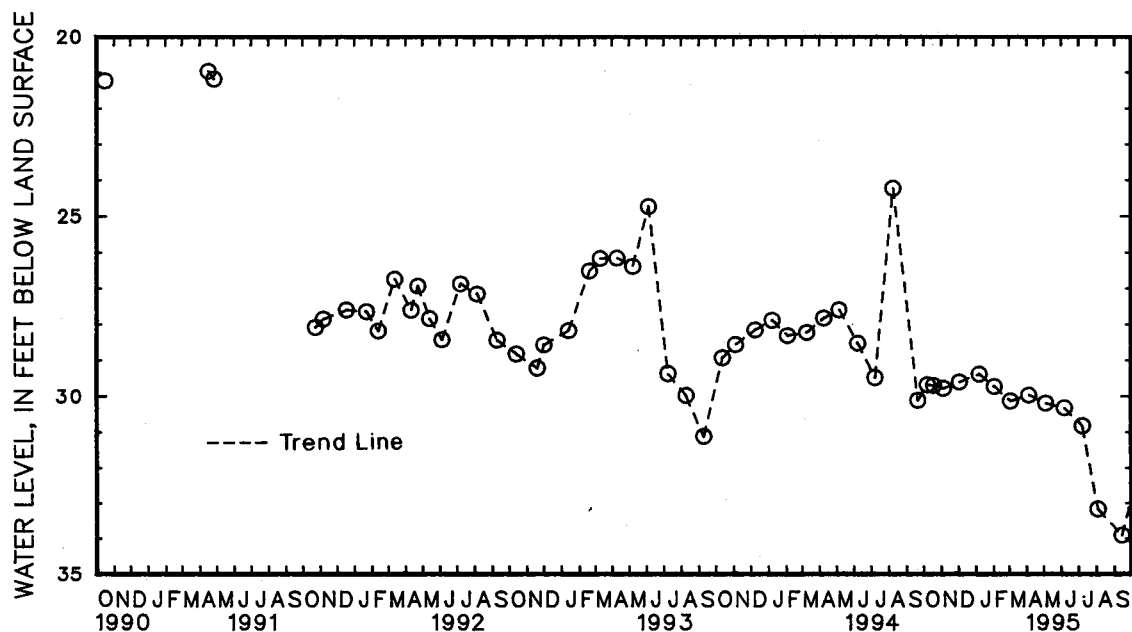
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 2.70 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Water levels may be affected by nearby pumping.
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, 33.93 ft below land surface, Sept. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	29.74	DEC 2	29.66	MAR 3	30.20	JUN 6	30.39	SEP 14	33.93
18	29.76	JAN 6	29.44	APR 4	30.03	JUL 7	30.89		
NOV 4	29.84	FEB 2	29.79	MAY 4	30.26	AUG 3	33.20		
WATER YEAR 1995		HIGHEST	29.44	JAN 6, 1995		LOWEST	33.93	SEP 14, 1995	



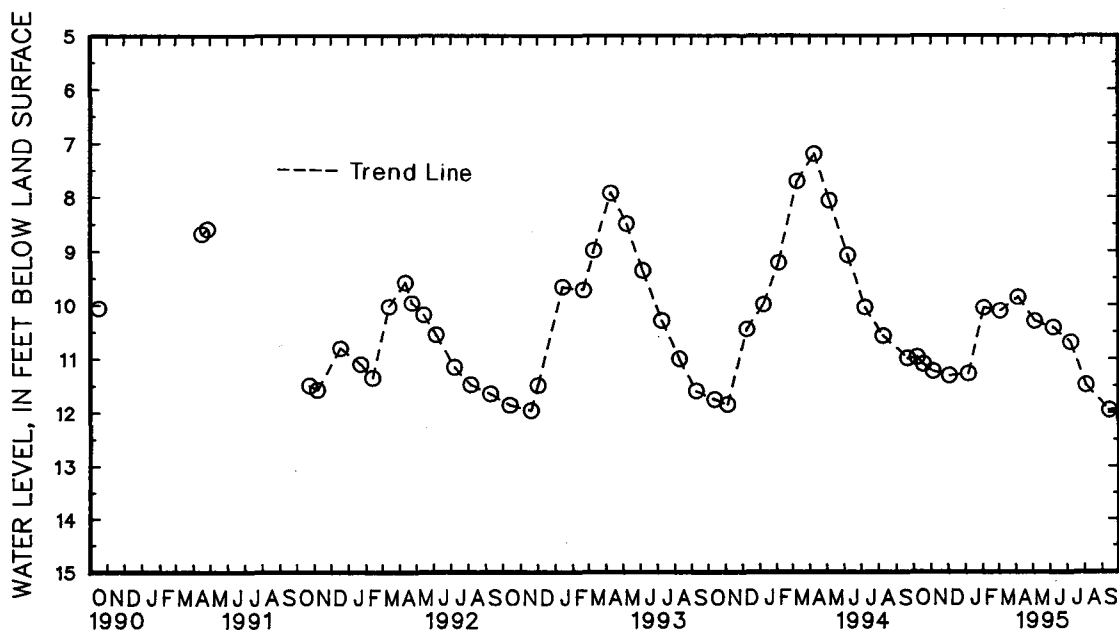
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 2.50 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Water levels may be affected by nearby pumping.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	11.02	DEC 3	11.36	MAR 3	10.13	JUN 6	10.46	SEP 14	12.00
18	11.15	JAN 6	11.32	APR 4	9.87	JUL 7	10.74		
NOV 4	11.28	FEB 2	10.07	MAY 4	10.33	AUG 3	11.53		
WATER YEAR 1995		HIGHEST	9.87	APR 4, 1995	LOWEST	12.00	SEP 14, 1995		



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 18.00 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.10 ft above land surface.

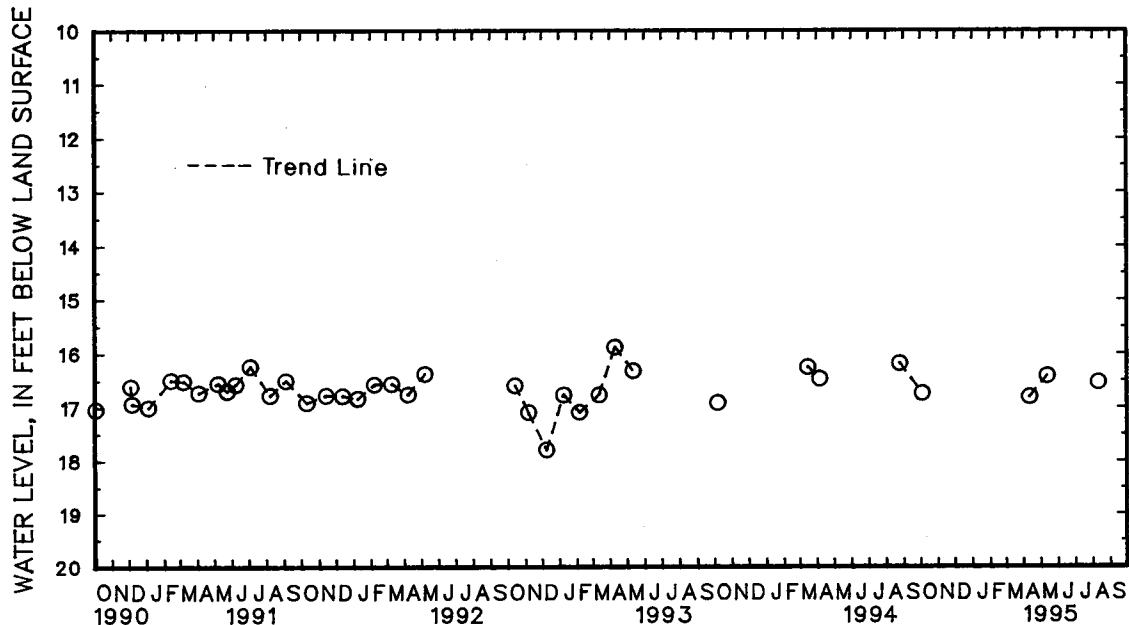
REMARKS.--Kent Island ground-water monitoring network well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	16.77	APR 11	16.84	MAY 12	16.44	AUG 10	16.56
WATER YEAR 1995		HIGHEST	16.44	MAY 12, 1995	LOWEST	16.84	APR 11, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

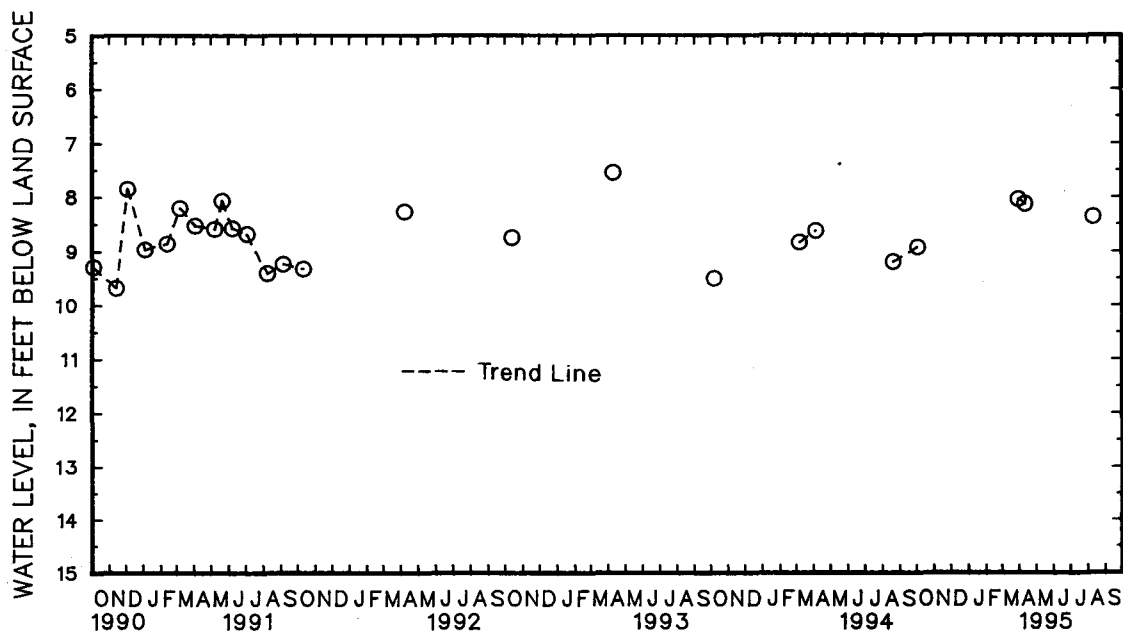
MARYLAND--Continued

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.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 7.4 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 2.50 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Measured twice yearly from April 1986 to April 1989.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.25 ft below land surface, Dec. 2, 1985; lowest measured, 9.72 ft below land surface, Nov. 13, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	8.95	MAR 30	8.05	APR 11	8.14	AUG 10	8.38
WATER YEAR 1995		HIGHEST	8.05	MAR 30, 1995		LOWEST	8.95 OCT 3, 1994



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

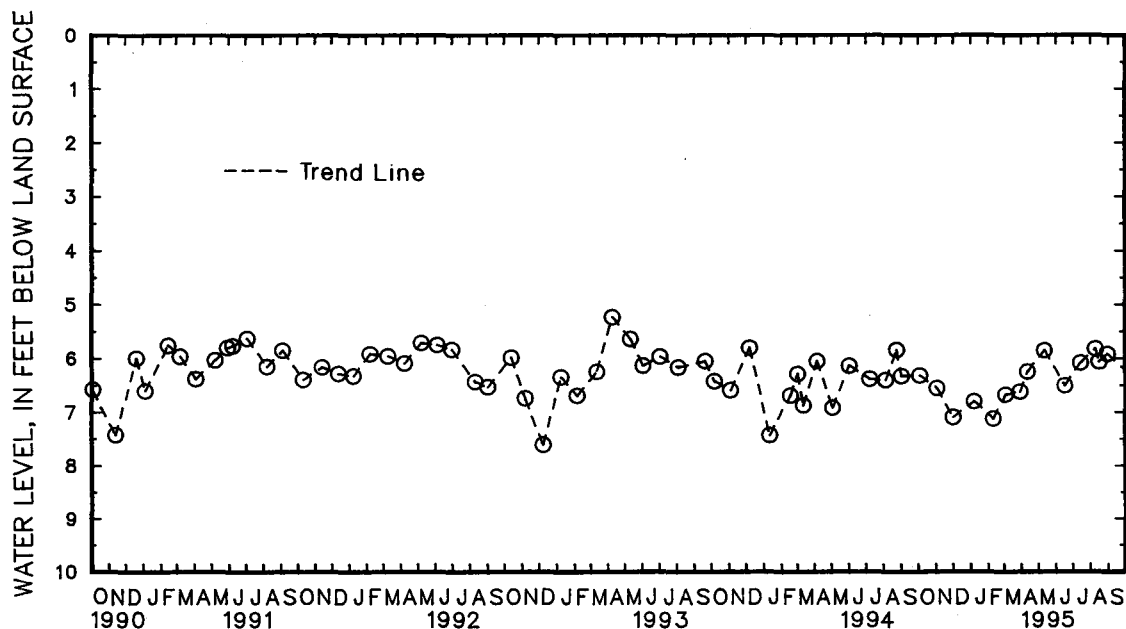
MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 35. SITE ID.--390119076191001. PERMIT NUMBER.--QA-81-0472.
 LOCATION.--Lat 39°01'19", long 76°19'10", Hydrologic Unit 02060002, 0.5 mi west of MD Rt. 18, at Mylander Farms, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 200 ft; casing diameter 4 in., to 190 ft; screen diameter 4 in. from 190 to 200 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Measured twice yearly from April 1987 to April 1989.
 DATUM.--Elevation of land surface is 7.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.20 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well.
 PERIOD OF RECORD.--August 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land surface, Dec. 2, 1985; lowest measured, 7.65 ft below land surface, Dec. 8, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	6.34	JAN 6	6.83	MAR 29	6.64	JUN 16	6.53	AUG 15	6.08
NOV 2	6.58	FEB 10	7.15	APR 11	6.26	JUL 14	6.10	30	5.93
DEC 1	7.13	MAR 3	6.70	MAY 11	5.86	AUG 9	5.83		
WATER YEAR 1995		HIGHEST	5.83	AUG 9, 1995		LOWEST	7.15	FEB 10, 1995	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10.8 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.24 ft above land surface.

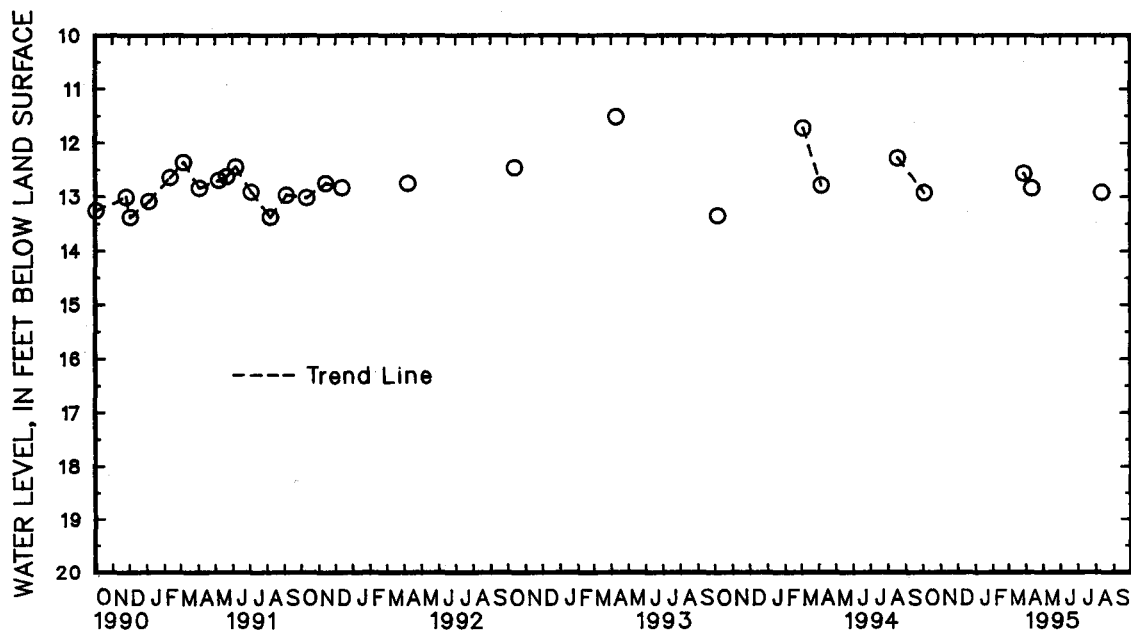
REMARKS.--Kent Island ground-water monitoring network well.

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, 13.71 ft below land surface, July 5, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	12.95	MAR 28	12.59	APR 11	12.87	AUG 11	12.94
WATER YEAR 1995		HIGHEST	12.59	MAR 28, 1995		LOWEST	12.95 OCT 3, 1994



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 11.8 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.91 ft above land surface.

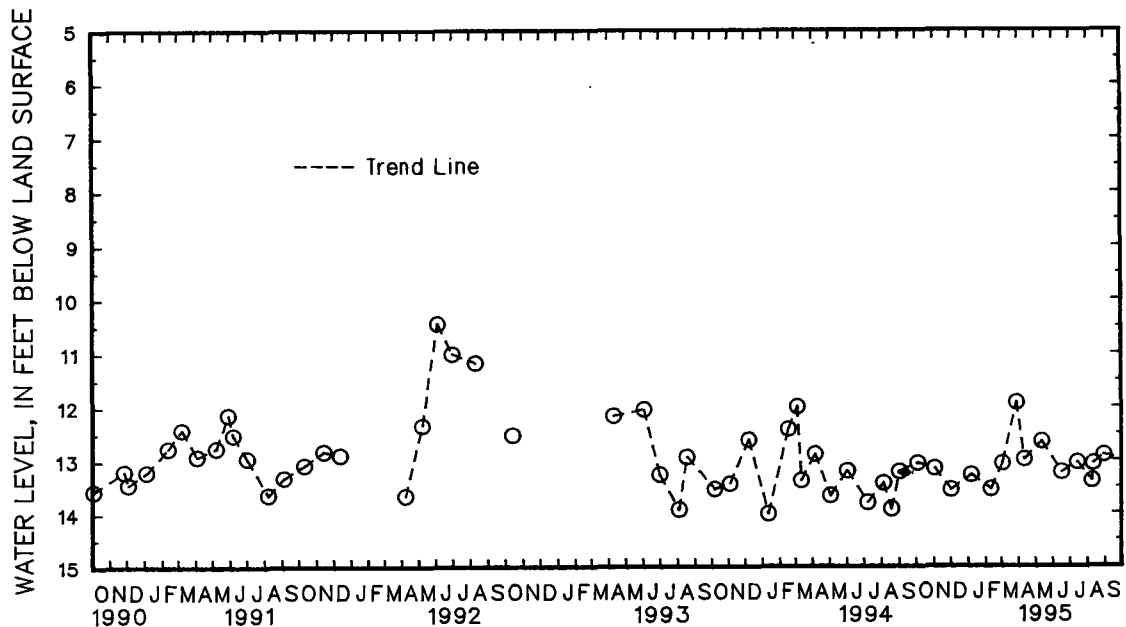
REMARKS.--Kent Island ground-water monitoring network well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	13.06	JAN 6	13.29	MAR 28	11.93	JUN 16	13.25	AUG 11	13.08
NOV 2	13.15	FEB 10	13.56	APR 11	13.01	JUL 14	13.06	30	12.92
DEC 1	13.57	MAR 3	13.07	MAY 12	12.67	AUG 9	13.41		
WATER YEAR 1995		HIGHEST	11.93	MAR 28, 1995		LOWEST	13.57	DEC 1, 1994	



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

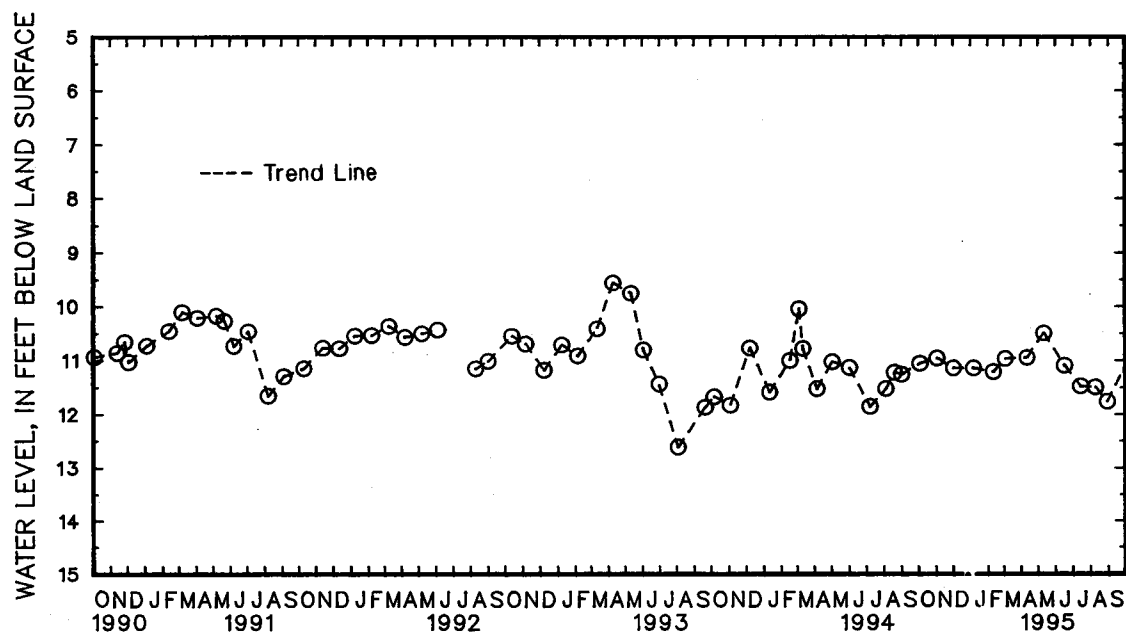
MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.
 Measured twice yearly from October 1986 to April 1989.
 DATUM.--Elevation of land surface is 8.3 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 2.30 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well.
 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	11.07	DEC 1	11.16	FEB 10	11.23	APR 11	10.96	JUN 16	11.12	AUG 9	11.53
NOV 2	10.97	JAN 6	11.16	MAR 3	10.98	MAY 11	10.50	JUL 14	11.51	30	11.80
WATER YEAR 1995		HIGHEST	10.50	MAY 11, 1995		LOWEST	11.80	AUG 30, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

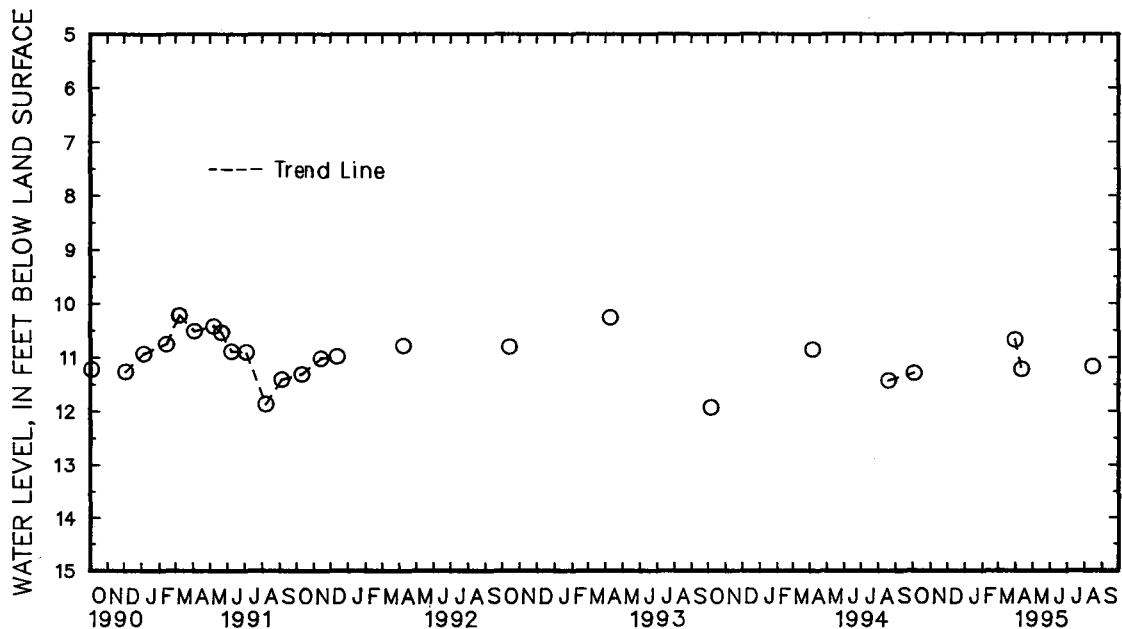
MARYLAND--Continued

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.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1989.
 DATUM.--Elevation of land surface is 8.5 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 2.51 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well.
 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, 11.97 ft below land surface, Oct. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	11.32	MAR 30	10.69	APR 11	11.25	AUG 15	11.20
WATER YEAR 1995		HIGHEST	10.69 MAR 30, 1995	LOWEST		11.32 OCT 3, 1994	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 81. SITE ID.--385718076211503. 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 310 ft; casing diameter 4 in., to 300 ft; screen diameter 4 in. from 300 to 310 ft.

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

DATUM.--Elevation of land surface is 12.4 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.16 ft above land surface.

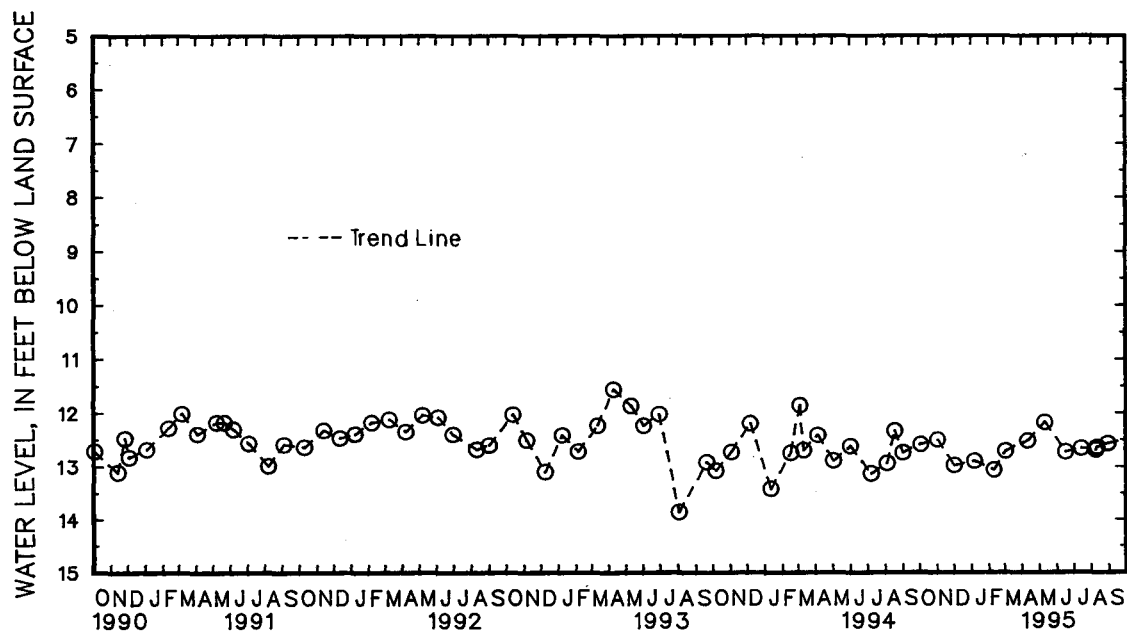
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--April 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.54 ft below land surface, Dec. 2, 1985; lowest measured, 13.88 ft below land surface, Aug. 3, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER LEVEL YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	12.59	JAN 6	12.92	APR 11	12.53	JUL 14	12.68	AUG 30	12.60
NOV 2	12.51	FEB 10	13.09	MAY 11	12.18	AUG 9	12.72		
DEC 1	13.00	MAR 3	12.73	JUN 16	12.75	11	12.67		
WATER YEAR 1995		HIGHEST	12.18	MAY 11, 1995		LOWEST	13.09	FEB 10, 1995	



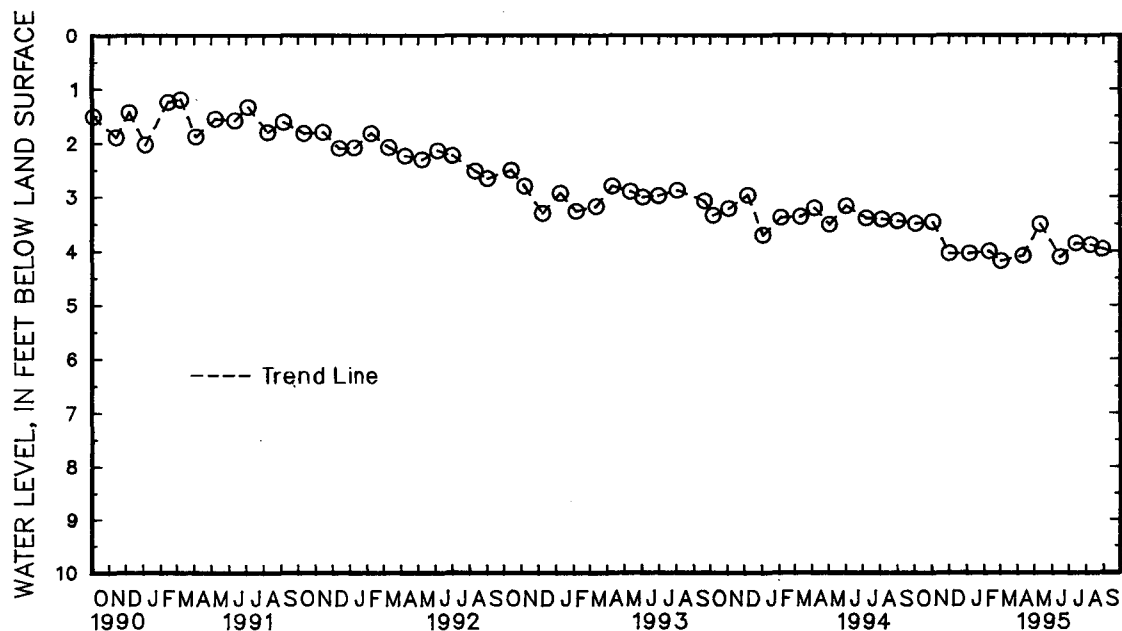
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 chalked steel tape by U.S. Geological Survey personnel. Measured twice yearly from January 1980 to October 1989.
DATUM.--Elevation of land surface is 14 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing, 3.36 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 4.22 ft below land surface, March 3, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	3.52	DEC 1	4.08	FEB 10	4.04	APR 11	4.12	JUN 16	4.14	AUG 9	3.91
NOV 2	3.49	JAN 6	4.08	MAR 3	4.22	MAY 11	3.52	JUL 14	3.88	AUG 30	3.99
WATER YEAR 1995		HIGHEST	3.49	NOV 2, 1994		LOWEST	4.22	MAR 3, 1995			



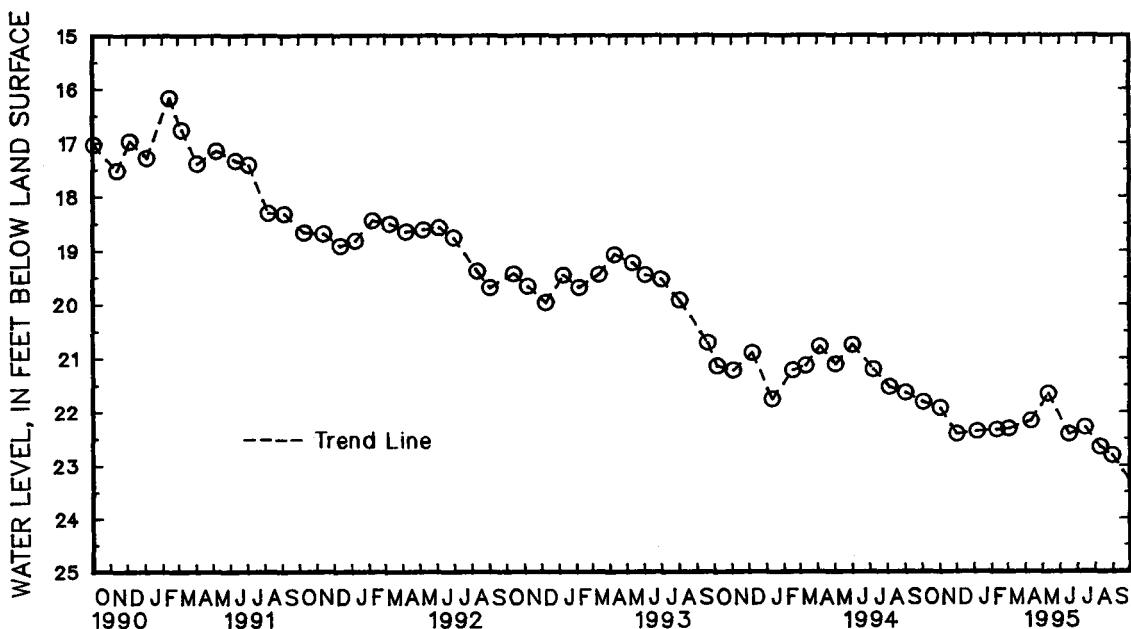
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
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 chalked steel tape by U.S. Geological Survey personnel.
Twice yearly measurements from April 1984 to September 1980.
DATUM.--Elevation of land surface is 13.56 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 1.41 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 22.85 ft below land surface, Aug. 30, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	21.86	DEC 1	22.45	FEB 10	22.37	APR 11	22.20	JUN 16	22.45	AUG 9	22.69
NOV 2	21.98	JAN 6	22.40	MAR 3	22.35	MAY 11	21.68	JUL 14	22.32	AUG 30	22.85
WATER YEAR 1995		HIGHEST	21.68	MAY 11, 1995		LOWEST	22.85	AUG 30, 1995			



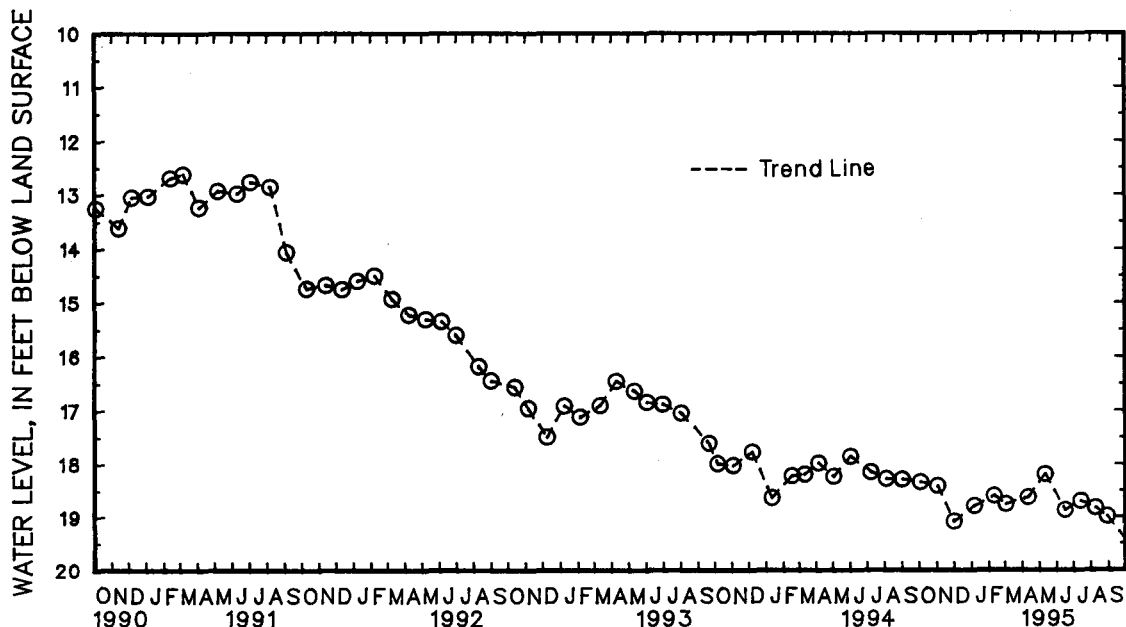
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PFSC.
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 chalked steel tape by U.S. Geological Survey personnel.
Twice yearly measurements from January 1980 to September 1980.
DATUM.--Elevation of land surface is 13.99 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 1.36 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 19.10 ft below land surface, Dec. 1, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	18.36	DEC 1	19.10	FEB 10	18.61	APR 11	18.64	JUN 16	18.88	AUG 9	18.84
NOV 2	18.43	JAN 6	18.80	MAR 3	18.77	MAY 11	18.20	JUL 14	18.71	AUG 30	19.00
WATER YEAR 1995		HIGHEST	18.20	MAY 11, 1995		LOWEST	19.10	DEC 1, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

419

MARYLAND--Continued

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, nr 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 chalked steel tape by U.S. Geological Survey personnel.

Equipped with graphic water-level recorder from June 30, 1986 to October 2, 1994.

DATUM.--Elevation of land surface is 14.5 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring Point: Top of casing, 2.6 ft above land surface.

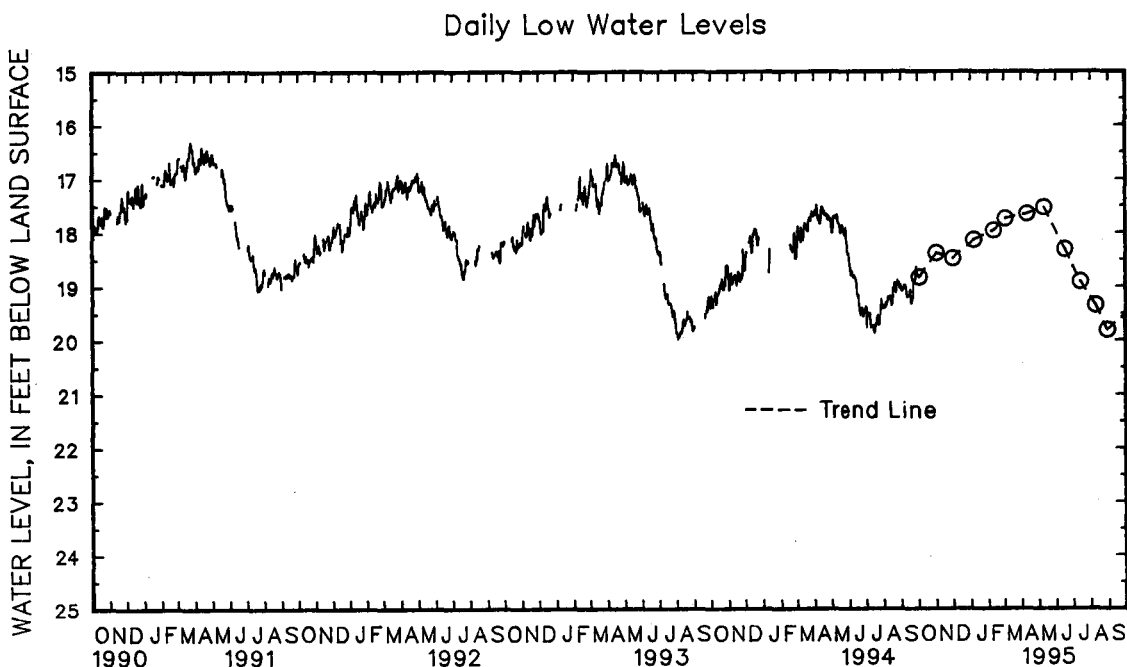
REMARKS.--Kent Island ground-water monitoring network well. Missing data due to recorder malfunction.

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, 19.98 ft below land surface, Aug. 3, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	18.84	DEC 1	18.49	FEB 10	17.97	APR 11	17.65	JUN 16	18.32	AUG 9	19.36
NOV 2	18.39	JAN 6	18.14	MAR 3	17.75	MAY 11	17.54	JUL 14	18.92	AUG 30	19.82
WATER YEAR 1995		HIGHEST	17.54	MAY 11, 1995	LOWEST	19.82	AUG 30, 1995				



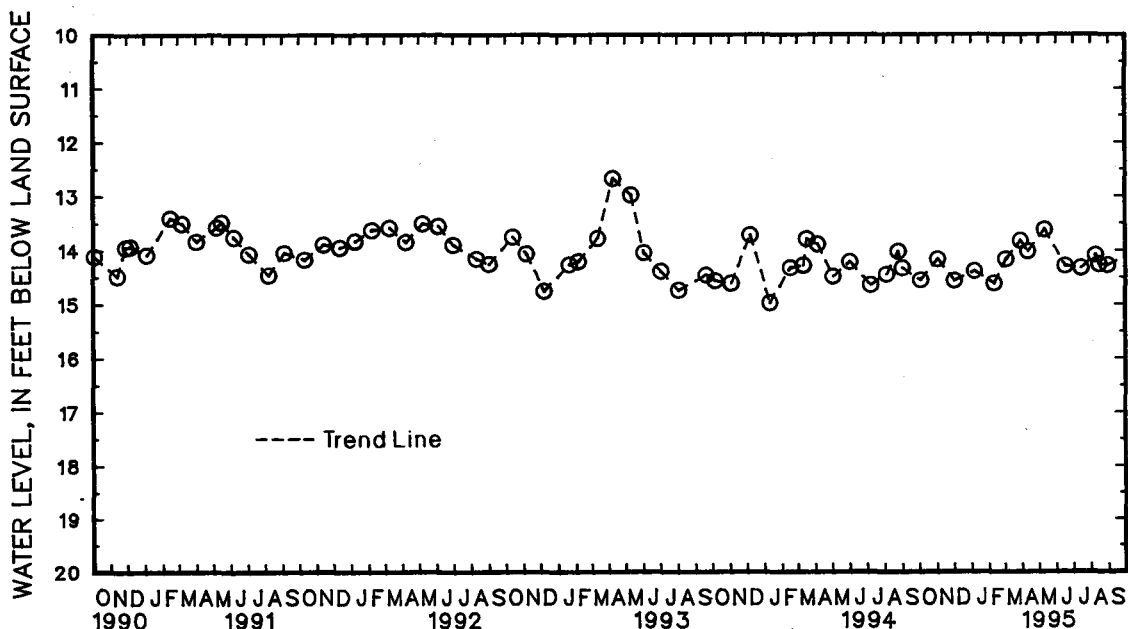
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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, 0.7 mi west of intersection MD Rt. 8, 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 12.01 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 2.20 ft above land surface.
REMARKS.--Kent Island ground-water monitoring network well. Measured twice yearly from September 1987 to April 1989.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	14.59	JAN 6	14.42	MAR 29	13.84	JUN 16	14.32	AUG 15	14.30
NOV 2	14.19	FEB 10	14.65	APR 11	14.04	JUL 14	14.36	30	14.32
DEC 1	14.60	MAR 3	14.19	MAY 11	13.63	AUG 9	14.12		
WATER YEAR 1995		HIGHEST	13.63	MAY 11, 1995	LOWEST	14.65	FEB 10, 1995		



GROUND-WATER LEVELS

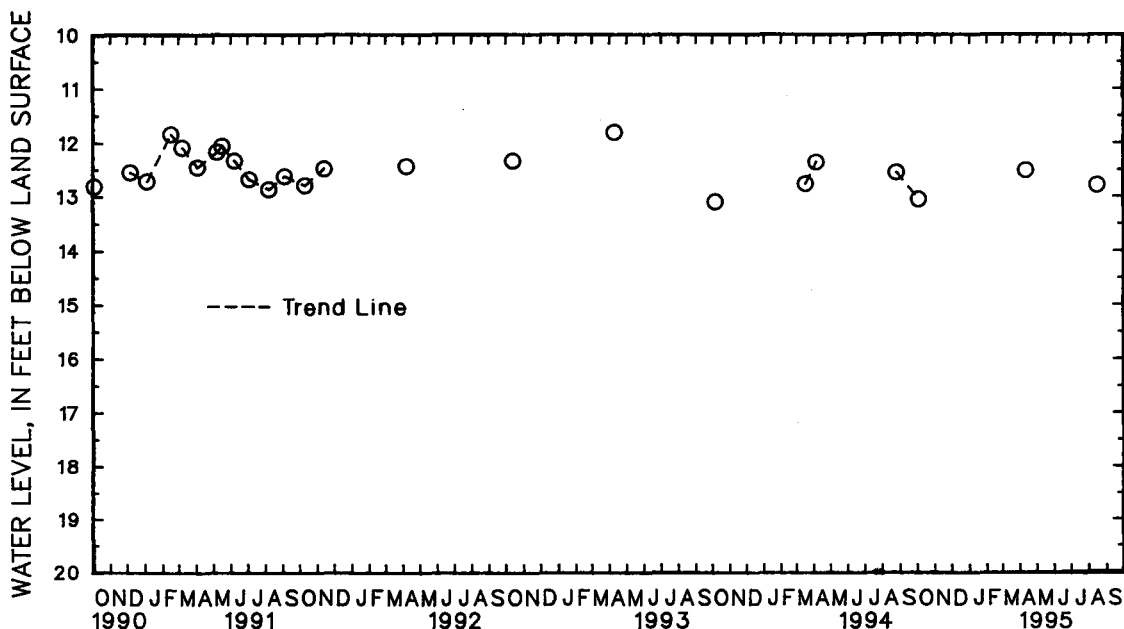
MARYLAND--Continued

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, 0.7 mi west
 of intersection with MD Rt. 8, 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.--Measured twice yearly with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 11.92 ft above National Geodetic Vertical Datum of 1929,
 from topographic map.
 Measuring point: Top of casing, 2.50 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Measured twice yearly from March 1988
 to April 1989.
 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	13.08	APR 11	12.53	AUG 15	12.81
WATER YEAR 1995 HIGHEST 12.53 APR 11, 1995 LOWEST 13.01 OCT 3, 1994					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 old U.S. Rt. 50.

Owner: Maryland State Highway Administration.

AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 21 ft; casing diameter 1.25 in., to 21 ft.

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

DATUM.--Elevation of land surface is 20 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of 2 in. coupling, 0.27 ft above land surface.

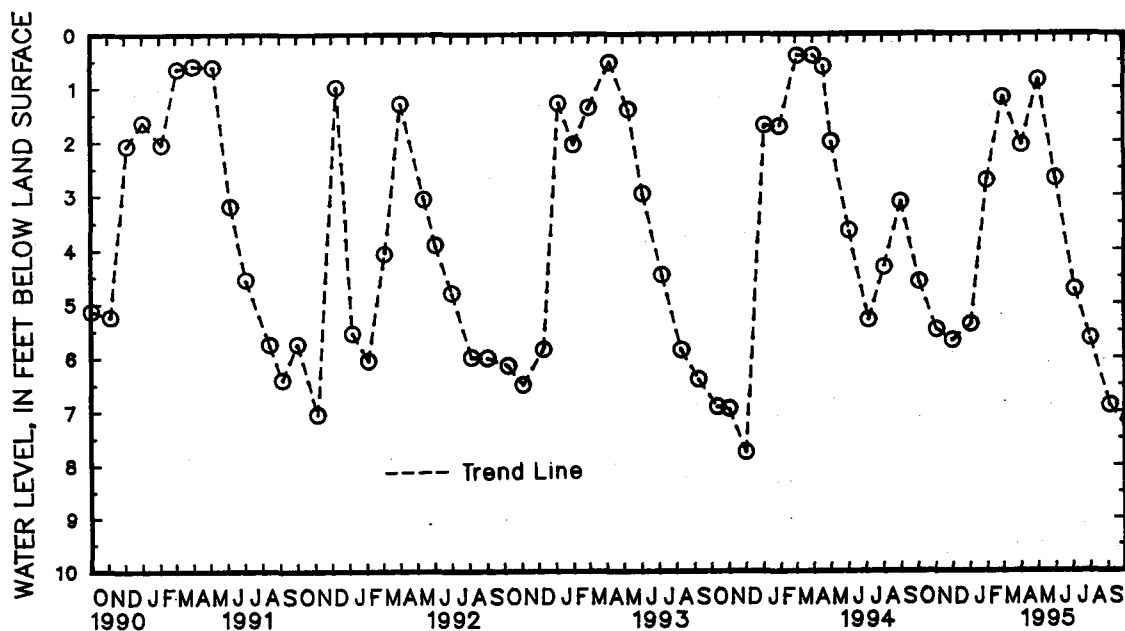
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--September 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.04 ft below land surface, May 8, 1958; lowest measured, 8.46 ft below land surface, Jan. 7, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	4.63	DEC 1	5.73	FEB 1	2.73	APR 3	2.08	JUN 1	2.71	AUG 1	5.69
NOV 3	5.52	JAN 3	5.42	MAR 2	1.19	MAY 3	.87	JUL 5	4.78	SEP 5	6.93
WATER YEAR 1995		HIGHEST		.87 MAY 3, 1995		LOWEST		6.93 SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, Tuckahoe State Park.

Owner: Md. Dept. of Natural Resources, Fisheries Division.

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 61.69 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1 1/2 in. riser pipe, 3.80 ft above land surface.

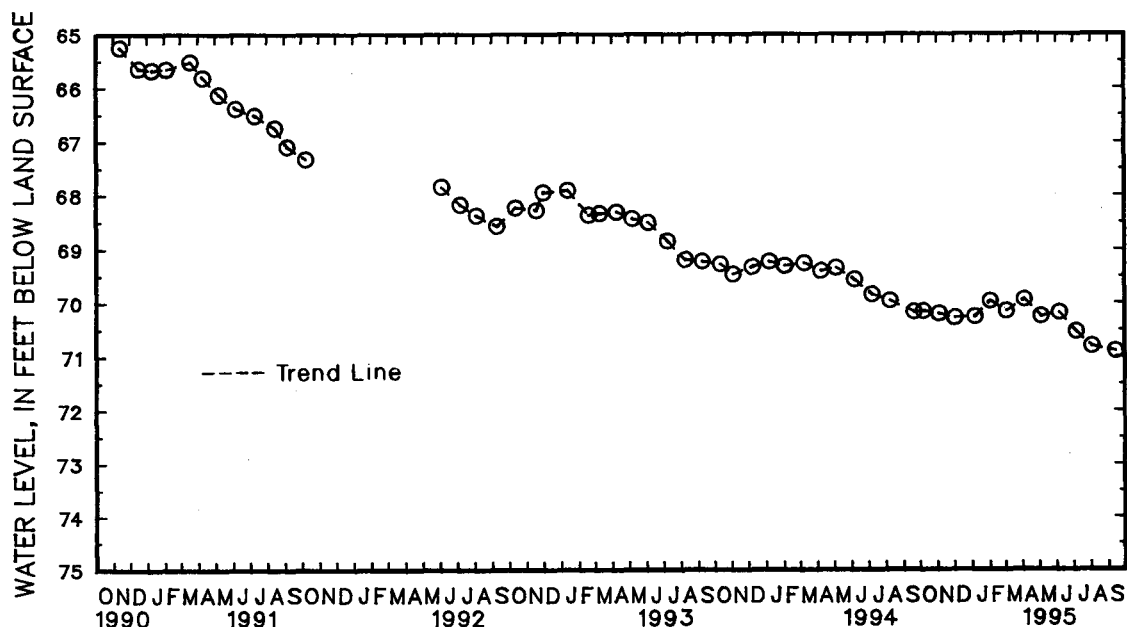
REMARKS.--Southern Maryland observation well network.

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, 70.95 ft below land surface, Sept. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	70.20	DEC 2	70.32	FEB 2	70.00	APR 4	69.97	JUN 6	70.22	AUG 3	70.86
NOV 4	70.24	JAN 6	70.30	MAR 3	70.19	MAY 4	70.29	JUL 6	70.58	SEP 14	70.95
WATER YEAR 1995		HIGHEST	69.97	APR 4, 1995	LOWEST	70.95	SEP 14, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing at land surface.

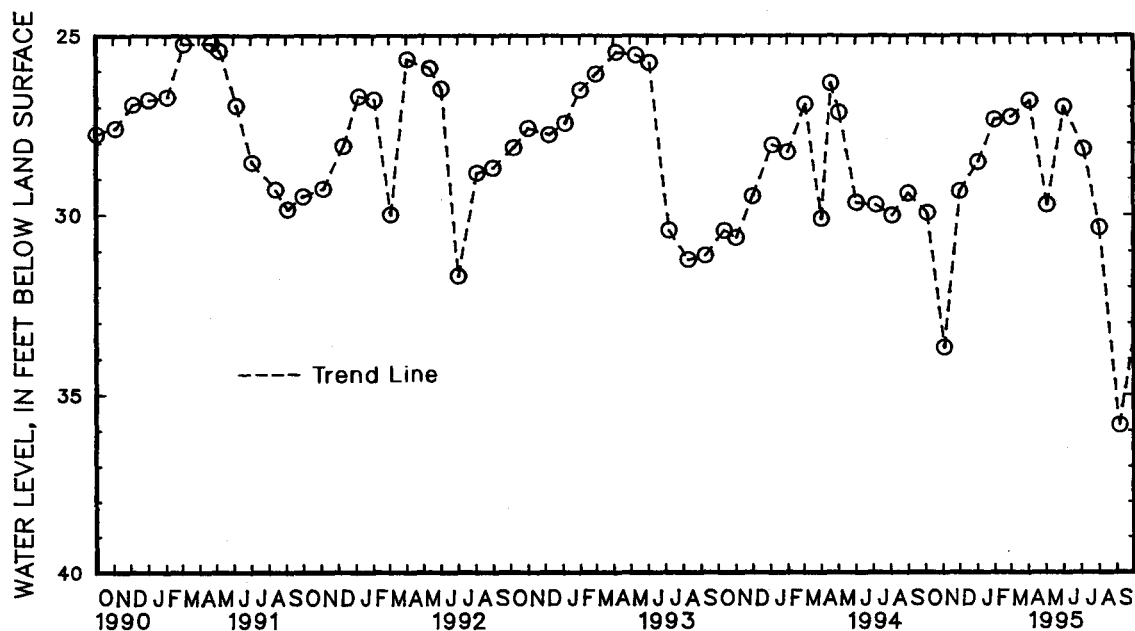
REMARKS.--Maryland Water-Level Network observation well.

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, 35.90 ft below land surface, Sept. 5, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 4	29.98	DEC 1	29.35	FEB 1	27.35	APR 3	26.82	JUN 1	27.00	AUG 1	30.39	
NOV 3	33.75	JAN 3	28.53	MAR 2	27.28	MAY 3	29.75	JUL 5	28.18	SEP 5	35.90	
WATER YEAR 1995		HIGHEST	26.82	APR 3, 1995	LOWEST	35.90	SEP 5, 1995					



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 165.30 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.10 ft above land surface.

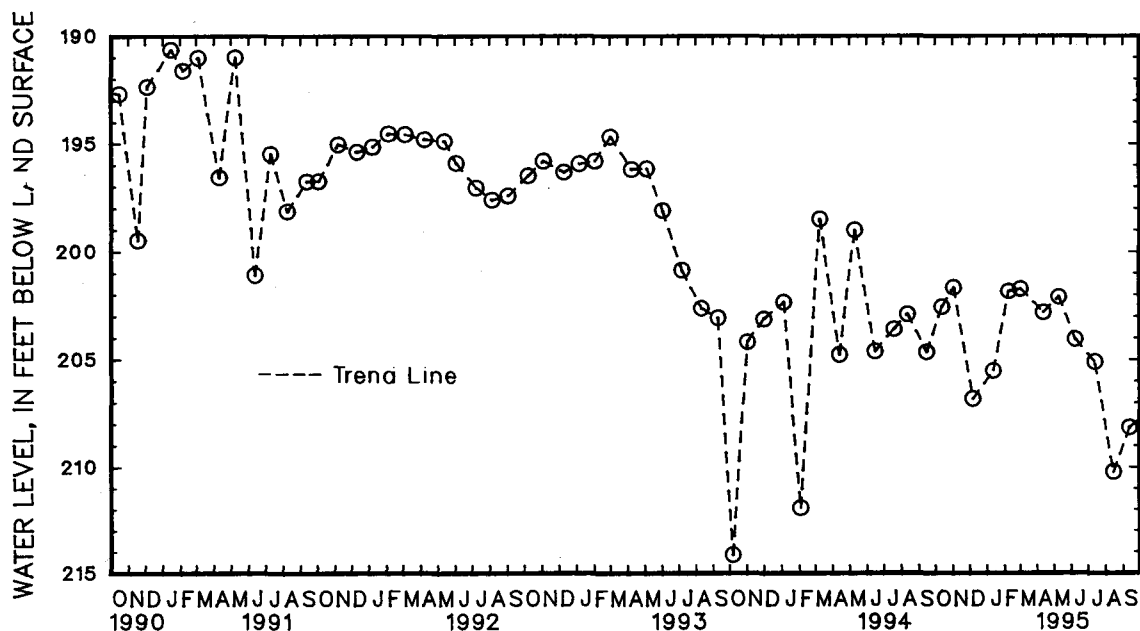
REMARKS.--Maryland Water-Level Network observation well. Water levels may be affected by nearby pumping.

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, 214.16 ft below land surface, Oct. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	202.61	DEC 6	206.92	FEB 9	201.86	APR 12	202.88	JUN 8	204.16	AUG 15	210.31
NOV 3	201.69	JAN 12	205.60	MAR 2	201.75	MAY 10	202.14	JUL 13	205.22	SEP 13	208.19
WATER YEAR 1995		HIGHEST	201.69	NOV 3, 1994	LOWEST	210.31	AUG 15, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 165.31 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.55 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels may be affected by nearby pumping.

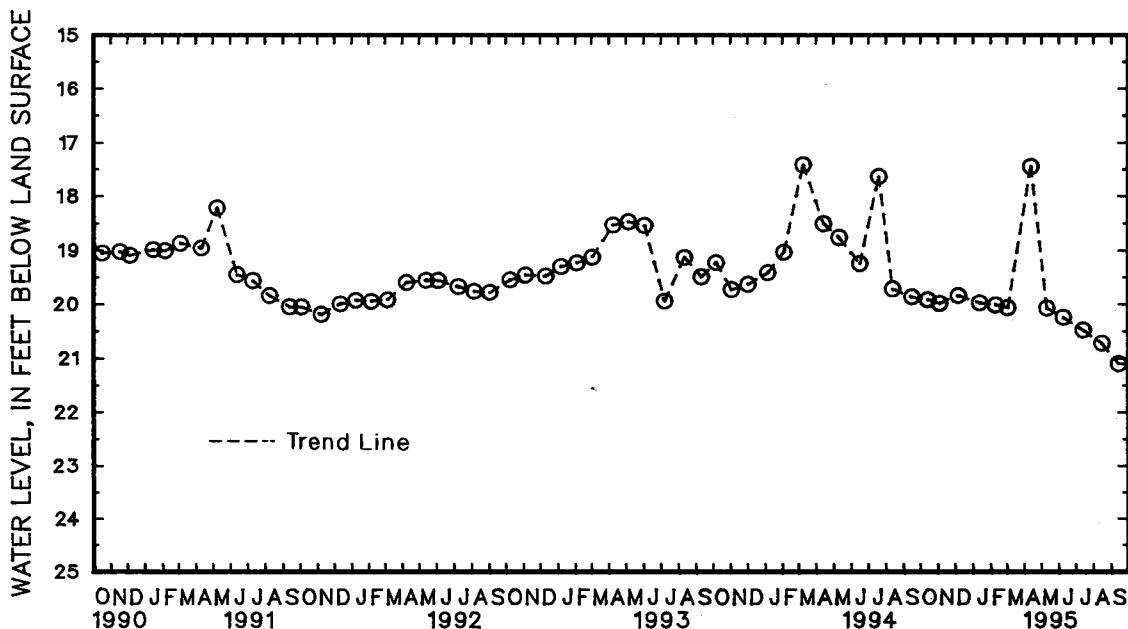
The July 12, 1989 water-level measured 27.95 ft below land surface declined due to nearby pump test.

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, 21.15 ft below land surface, Sept. 21, 1995--See Remarks.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	19.95	DEC 6	19.87	FEB 9	20.05	APR 12	17.45	JUN 8	20.28	AUG 15	20.77
NOV 3	20.02	JAN 12	20.01	MAR 2	20.10	MAY 10	20.11	JUL 13	20.52	SEP 13	21.15
WATER YEAR 1995		HIGHEST	17.45	APR 12, 1995		LOWEST	21.15	SEP 13, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

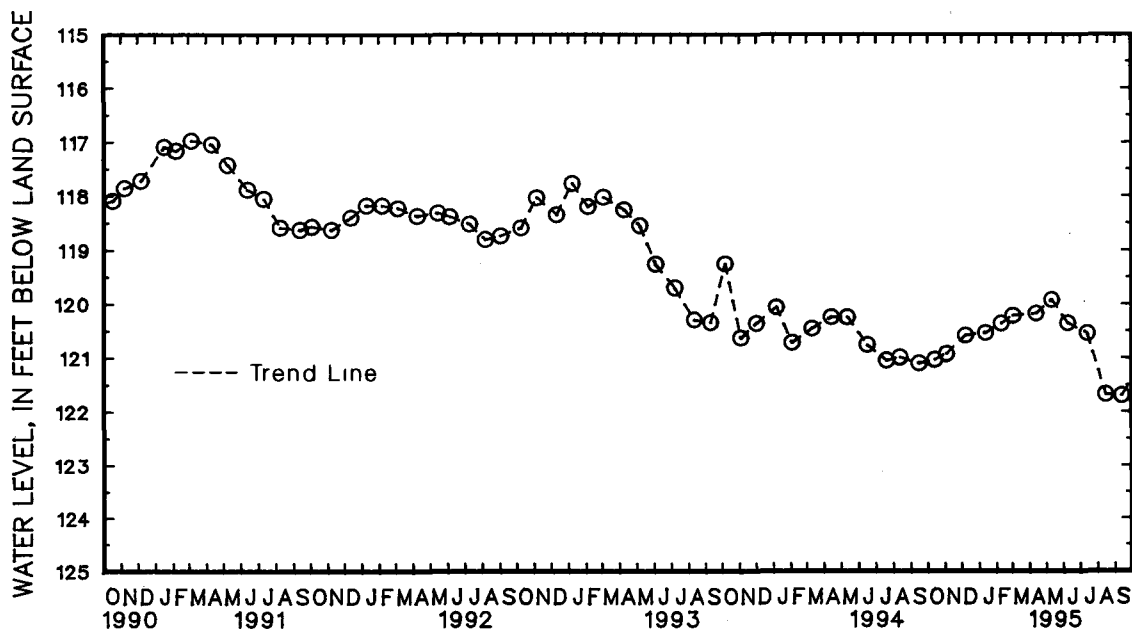
MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 46. SITE ID.--381616076364701. PERMIT NUMBER.--SM-73-1992.
 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 chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 118.84 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 2.90 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 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, 121.74 ft below land surface, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	121.08	DEC 7	120.62	FEB 9	120.39	APR 12	120.20	JUN 8	120.39	AUG 15	121.72
NOV 3	120.97	JAN 12	120.57	MAR 2	120.24	MAY 10	119.94	JUL 13	120.58	SEP 13	121.74
WATER YEAR 1995		HIGHEST 119.94		MAY 10, 1995		LOWEST 121.74		SEP 13, 1995			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 118.94 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.40 ft above land surface.

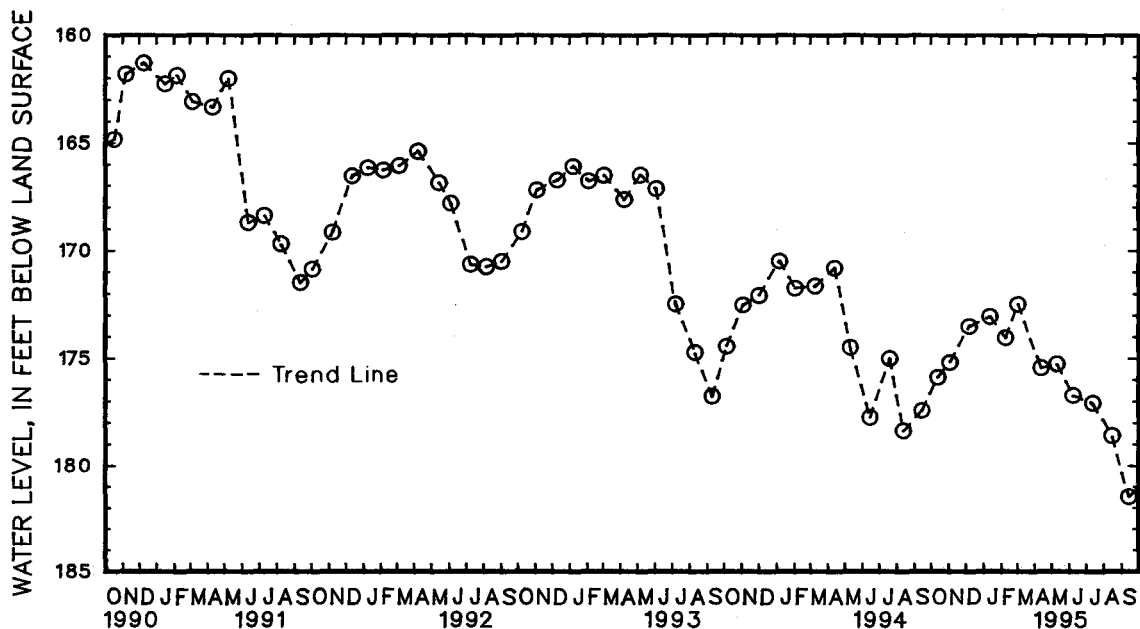
REMARKS.--Maryland Water-Level Network observation well.

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, 181.53 ft below land surface, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	175.92	DEC 7	173.53	FEB 9	174.09	APR 12	175.54	JUN 8	176.81	AUG 15	178.69
NOV 3	175.22	JAN 12	173.08	MAR 2	172.50	MAY 10	175.35	JUL 13	177.17	SEP 13	181.53
WATER YEAR 1995		HIGHEST	172.50	MAR 2, 1995		LOWEST	181.53	SEP 13, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 99.40 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.86 ft above land surface.

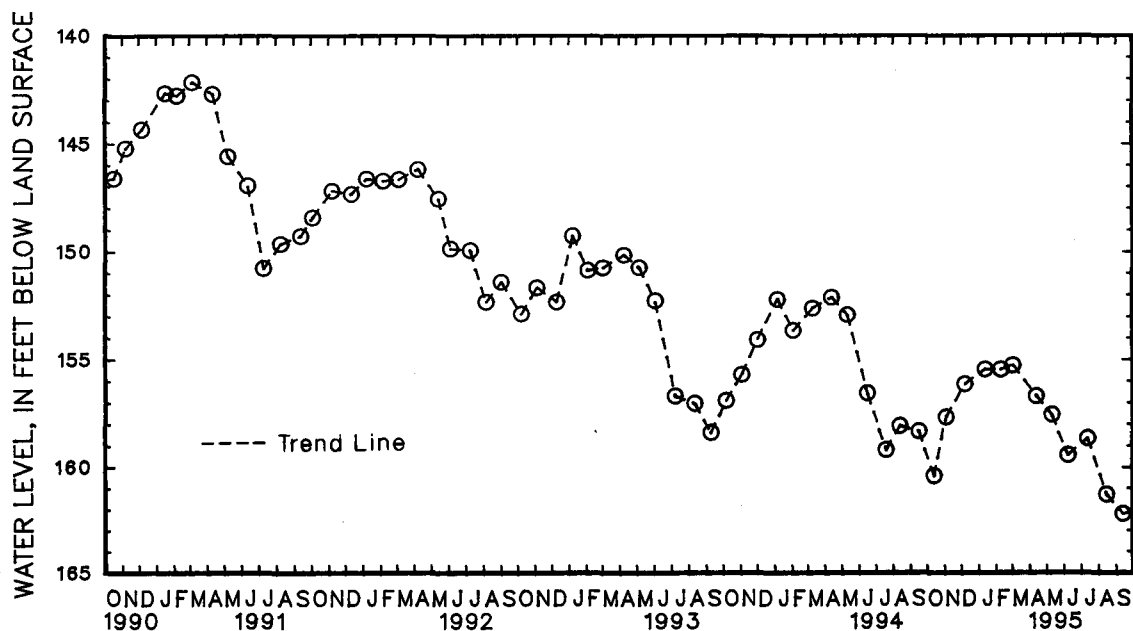
REMARKS.--Maryland Water-Level Network observation well.

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, 162.26 ft below land surface, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	160.49	DEC 7	156.16	FEB 9	155.48	APR 12	156.76	JUN 8	159.52	AUG 15	161.36
NOV 3	157.70	JAN 12	155.48	MAR 2	155.29	MAY 10	157.64	JUL 13	158.73	SEP 13	162.26
WATER YEAR 1995		HIGHEST	155.29	MAR 2, 1995		LOWEST	162.26	SEP 13, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 119.72 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Measured monthly from October 1977 to October 1986.

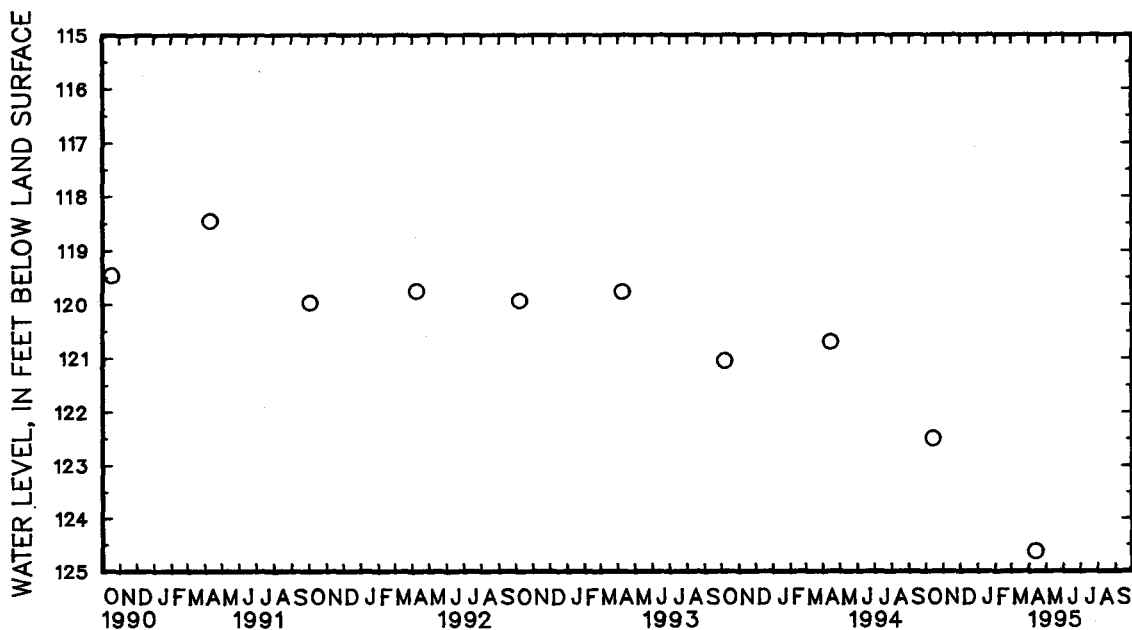
Measured twice yearly from April 1987 to current year.

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, 124.63 ft below land surface, April 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	122.53	APR 12	124.63
WATER YEAR 1995 HIGHEST 122.53 OCT 13, 1994 LOWEST 124.63 APR 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

ST. MARYS COUNTY

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 15 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

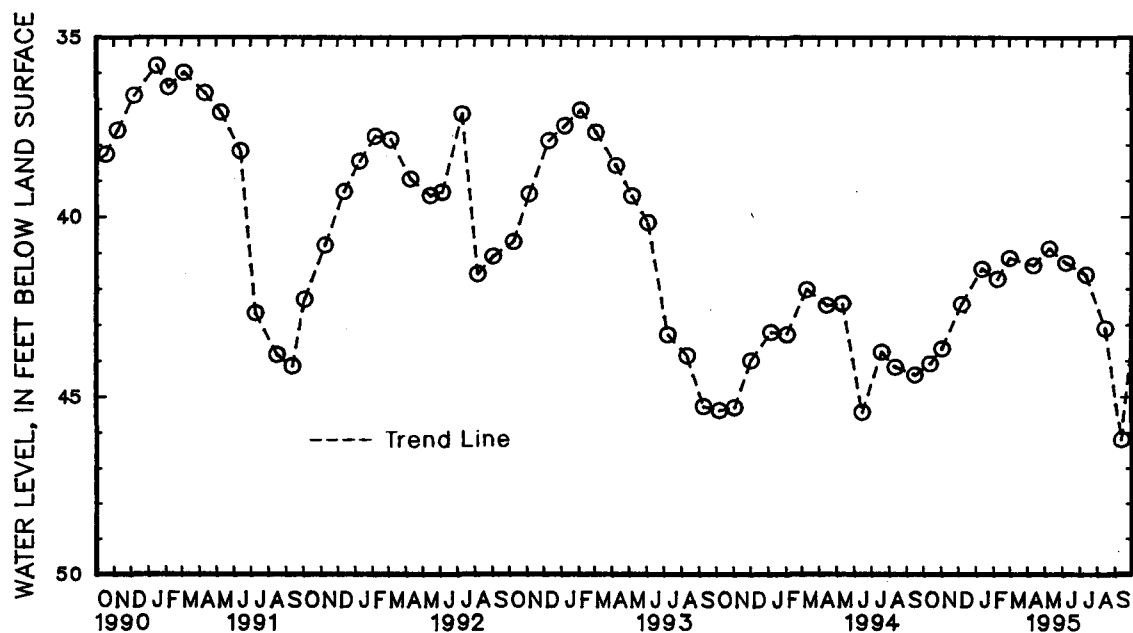
PERIOD OF RECORD.--July 1976 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	44.11	DEC 7	42.43	FEB 8	41.74	APR 11	41.36	JUN 7	41.29	AUG 15	43.15
NOV 3	43.68	JAN 12	41.45	MAR 1	41.15	MAY 9	40.88	JUL 12	41.63	SEP 12	46.25
WATER YEAR 1995		HIGHEST	40.88	MAY 9, 1995		LOWEST	46.25	SEP 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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.--Aguia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation,
casing diameter 2 in. from 420 to 550 ft; screen diameter 2 in. from 550 to 560 ft.

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

DATUM.--Elevation of land surface is 69.15 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.80 ft above land surface.

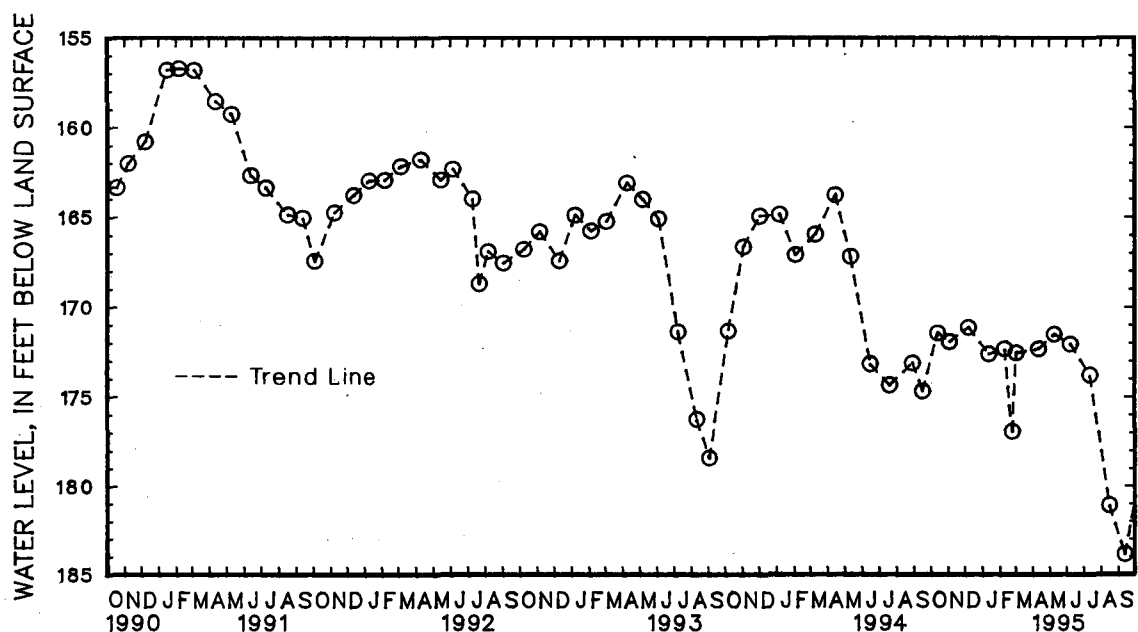
REMARKS.--Maryland Water-Level Network observation well.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.19 ft below land surface, May 1, 1980;
lowest measured, 183.88 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 13	171.50	DEC 7	171.19	FEB 9	172.42	APR 11	172.37	JUN 7	172.12	AUG 15	181.16	OCT 13	171.50	DEC 7	171.19
NOV 3	172.00	JAN 12	172.71	MAR 2	172.60	MAY 9	171.55	JUL 12	173.89	SEP 12	183.88	NOV 3	172.00	JAN 12	172.71
WATER YEAR 1995		HIGHEST 171.19		DEC 7, 1994		LOWEST 183.88		SEP 12, 1995							



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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.--Brightseat Formation of Lower Paleocene age. Aquifer code: 125BRGS.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 108.39 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.80 ft above land surface.

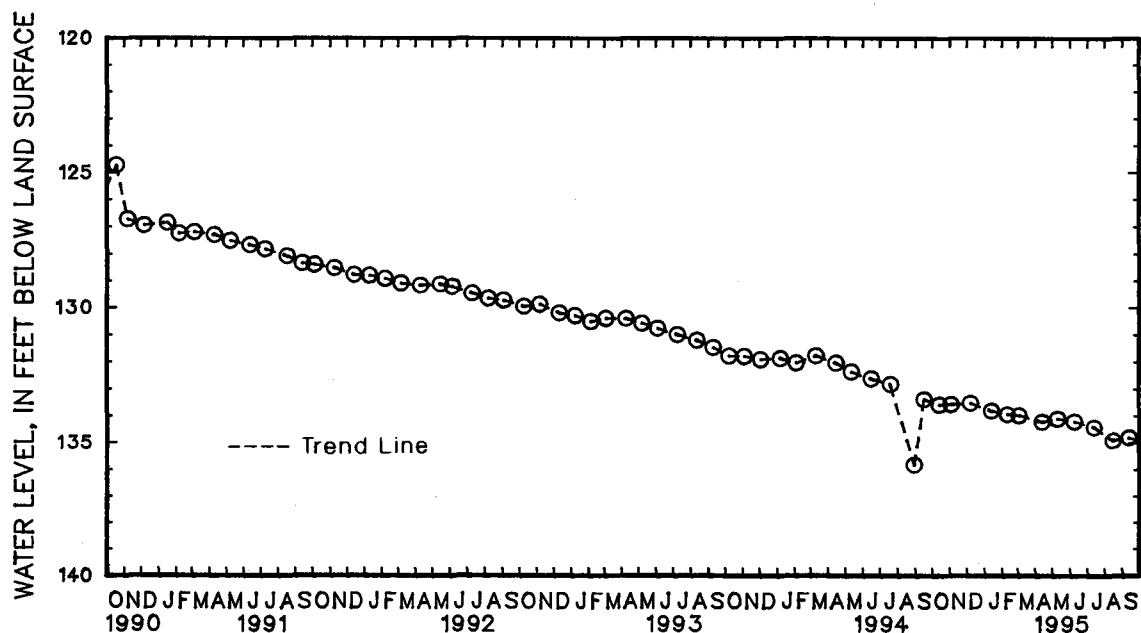
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 115.68 ft below land surface, Feb. 3, 1983;
lowest measured, 135.90 ft below land surface, Aug. 29, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 13	133.61	DEC 7	133.53	FEB 9	133.98	APR 12	134.27	JUN 7	134.25	AUG 15	134.98
NOV 3	133.58	JAN 12	133.85	MAR 2	134.02	MAY 9	134.15	JUL 12	134.48	SEP 12	134.87
WATER YEAR 1995		HIGHEST	133.53	DEC 7, 1994		LOWEST	134.98	AUG 15, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Ef 80. SITE ID.--381052076253001.

LOCATION.--Lat 38°10'52", long 76°25'30", Hydrologic Unit 02070011, 0.1 mi south of intersection of MD Rt 5, and Rosecroft Rd., St. Mary's City.

Owner: St. Mary's College of Maryland.

AQUIFER.--Omar Formation of Pleistocene age. Aquifer code: 112OMAR.

WELL CHARACTERISTICS.--Dug, unused, water-table well, depth 20.70 ft; casing diameter 42 in.

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

DATUM.--Elevation of land surface is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.50 ft above land surface.

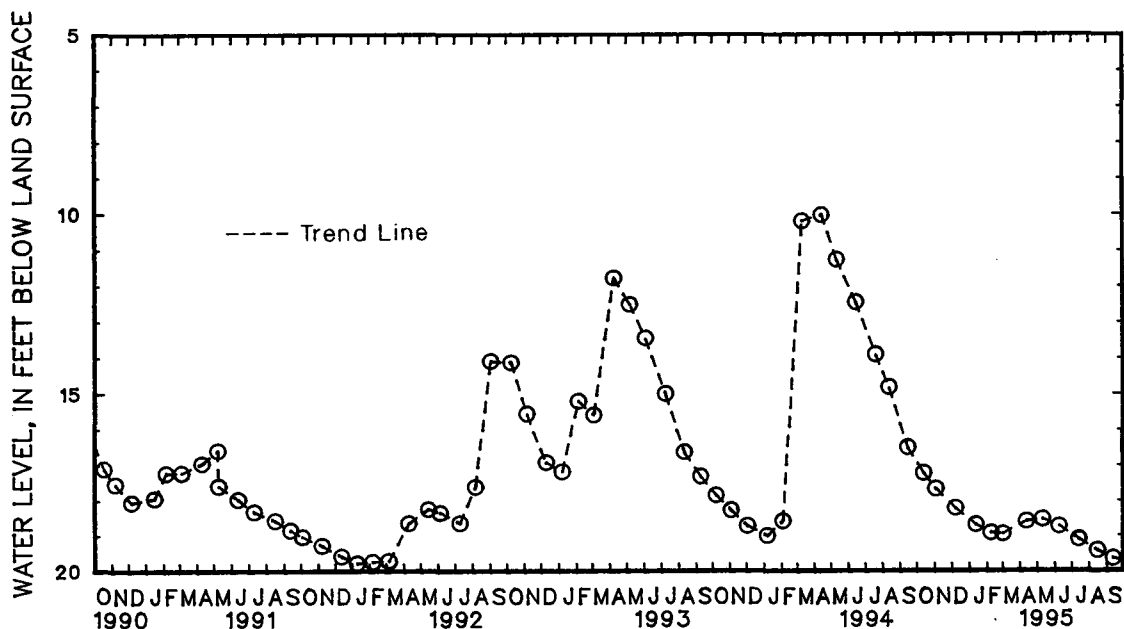
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--February 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.03 ft below land surface, April 14, 1994; lowest measured, 20.20 ft below land surface, March 1, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	17.28	DEC 7	18.26	FEB 8	18.95	APR 12	18.62	JUN 8	18.76	AUG 15	19.44
NOV 3	17.72	JAN 12	18.72	MAR 1	18.98	MAY 10	18.56	JUL 13	19.13	SEP 12	19.66
WATER YEAR 1995		HIGHEST	17.28	OCT 13, 1994		LOWEST	19.66	SEP 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.50 ft above land surface.

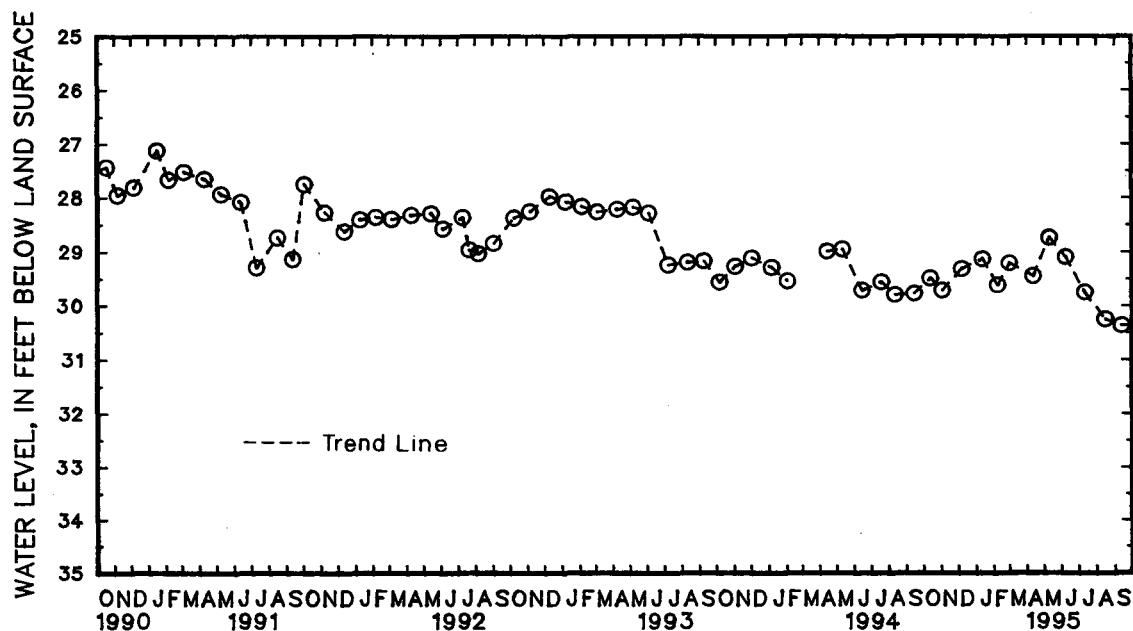
REMARKS.--Maryland Water-Level Network observation well.

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, 30.41 ft below land surface, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 13	29.52	DEC 7	29.34	FEB 8	29.65	APR 12	29.48	JUN 8	29.12	AUG 15	30.29
NOV 3	29.75	JAN 12	29.15	MAR 1	29.24	MAY 10	28.75	JUL 12	29.79	SEP 12	30.41
WATER YEAR 1995		HIGHEST	28.75	MAY 10, 1995		LOWEST	30.41	SEP 12, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, at water tower, 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 chalked steel tape by U.S. Geological Survey personnel.

Equipped with graphic water-level recorder from Oct. 12, 1988 to October 12, 1994.

DATUM.--Elevation of land surface is 9 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 3.8 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Missing data due to recorder malfunction.

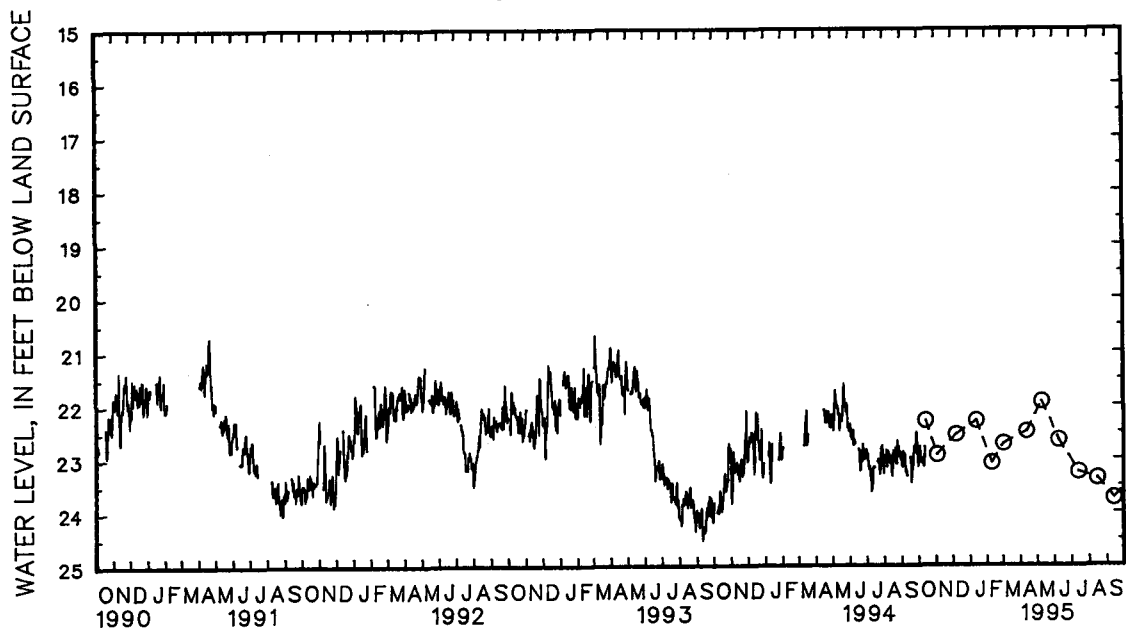
PERIOD OF RECORD.--August 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.24 ft below land surface, Oct. 6, 1976; lowest measured, 24.54 ft below land surface, Sept. 11, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	22.30	DEC 7	22.56	FEB 9	23.09	APR 12	22.50	JUN 8	22.66	AUG 15	23.38
NOV 3	22.94	JAN 12	22.30	MAR 2	22.73	MAY 10	21.94	JUL 13	23.27	SEP 13	23.75
WATER YEAR 1995		HIGHEST	21.94	MAY 10, 1995		LOWEST	23.75	SEP 13, 1995			

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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, at Piney Point Pumping Station, 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 8 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.60 ft above land surface.

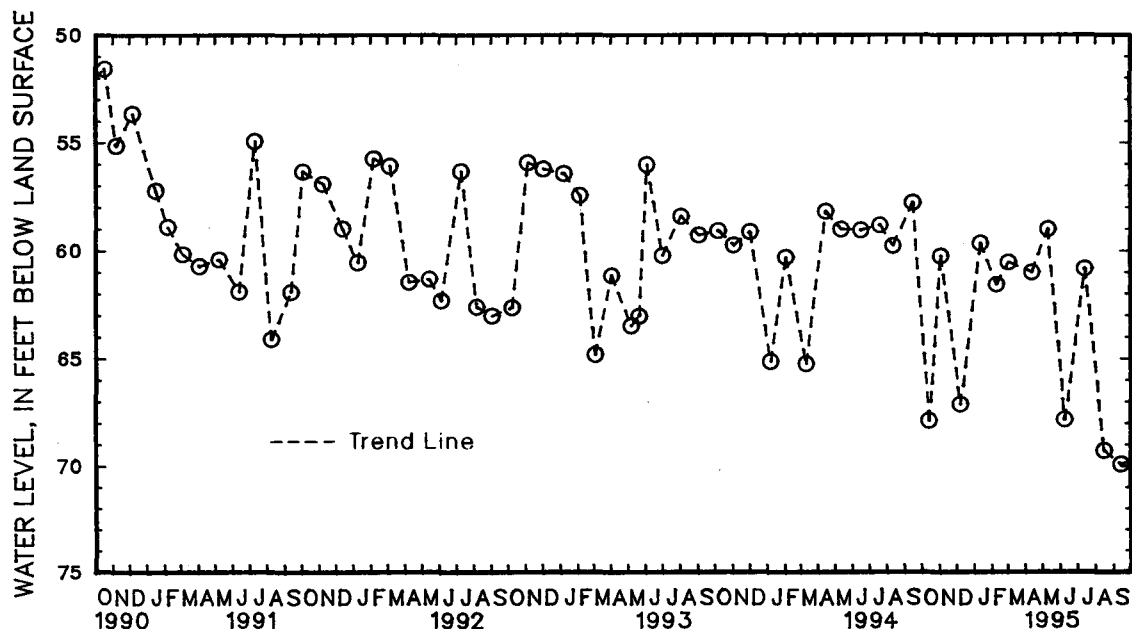
REMARKS.--Maryland Water-Level Network observation well. Water levels affected by nearby pumping.

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, 70.02 ft below land surface, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	68.00	DEC 7	67.23	FEB 9	61.64	APR 12	61.06	JUN 8	67.94	AUG 15	69.39
NOV 3	60.27	JAN 12	59.67	MAR 2	60.59	MAY 10	59.02	JUL 13	60.85	SEP 13	70.02
WATER YEAR 1995		HIGHEST	59.02	MAY 10, 1995	LOWEST	70.02	SEP 13, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

SOMERSET COUNTY

WELL NUMBER.--SO Be 42. SITE ID.--381156075412501.

LOCATION.--Lat 38°11'56", long 75°41'25", Hydrologic Unit 02060009, 0.1 mi northeast of US Rt. 13 and Hampden 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 17 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 2.28 ft above land surface.

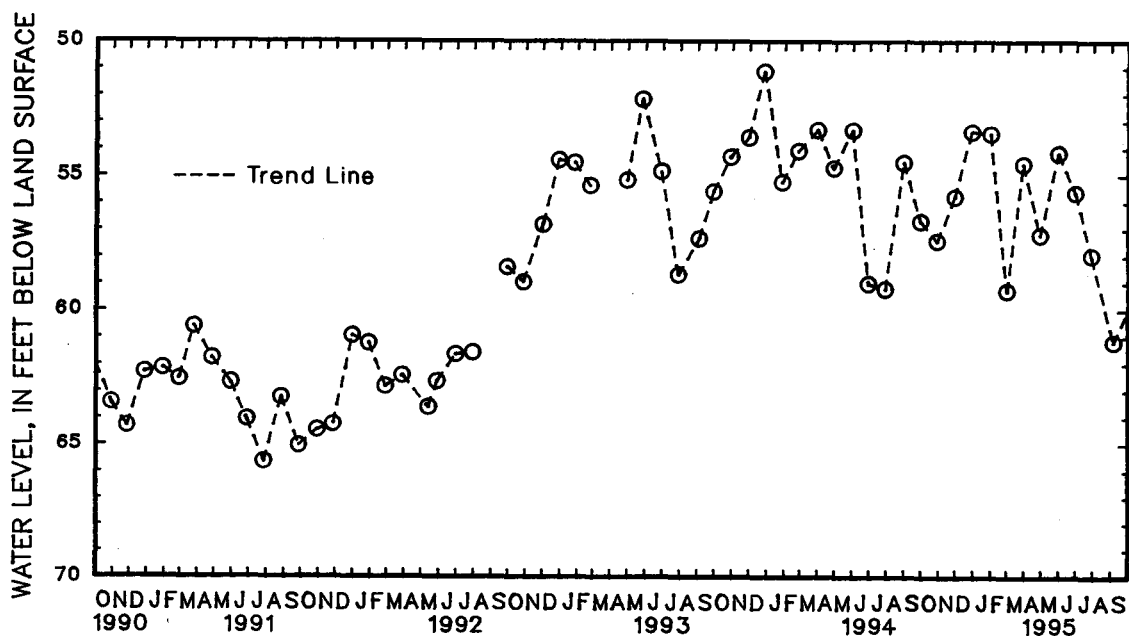
REMARKS.--Maryland Water-Level Network observation well.

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 65.72 ft below land surface, July 26, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	57.48	DEC 28	53.37	FEB 28	59.35	APR 28	57.25	JUN 29	55.66	SEP 5	61.27
NOV 28	55.81	JAN 30	53.45	MAR 29	54.57	MAY 30	54.17	JUL 28	58.02		
WATER YEAR 1995		HIGHEST	53.37	DEC 28, 1994	LOWEST	61.27	SEP 5, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 Miocene age. Aquifer code: 112PLSC.
 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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.
 Measuring Point: Top of recorder shelf, 1.6 ft above land surface.
 REMARKS.--Water levels affected by nearby pumping.
 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	39.06	38.89	39.18	38.96	38.78	38.68	37.51	37.35	36.84	36.71	36.84	36.71
2	39.05	38.88	39.31	38.98	38.76	38.59	37.45	37.31	36.87	36.77	36.78	36.64
3	39.02	38.87	39.34	39.25	38.73	38.60	37.45	37.35	36.91	36.79	36.76	36.62
4	39.08	38.88	39.31	39.17	38.72	38.58	37.39	37.29	36.84	36.55	36.76	36.61
5	39.13	38.98	39.28	39.11	38.65	38.35	37.42	37.36	36.84	36.67	36.79	36.65
6	39.15	38.97	39.23	39.04	38.53	38.39	37.38	37.23	36.87	36.84	36.76	36.61
7	39.15	38.98	39.27	39.18	38.48	38.33	37.23	37.09	36.90	36.85	36.83	36.68
8	39.12	38.97	39.24	39.12	38.56	38.44	37.28	37.22	36.89	36.85	36.81	36.60
9	39.47	39.11	39.18	39.11	38.53	38.40	37.23	37.18	36.85	36.89	36.88	36.65
10	39.68	39.47	39.20	39.12	38.45	38.22	37.23	37.19	36.92	36.89	36.93	36.88
11	39.73	39.59	39.19	39.14	38.31	38.18	37.24	37.18	36.91	36.88	36.93	36.91
12	39.68	39.50	39.21	39.10	38.34	38.26	37.47	37.20	36.99	36.88	36.98	36.91
13	39.63	39.52	39.15	39.08	38.27	38.16	37.58	37.45	37.03	36.96	36.99	36.92
14	39.78	39.53	39.17	39.08	38.23	38.10	37.57	37.48	37.03	36.94	37.00	36.91
15	40.06	39.76	39.27	39.09	38.16	38.03	37.48	37.28	37.06	36.92	37.02	36.91
16	40.00	39.85	39.31	39.21	38.20	38.06	37.36	37.22	36.87	36.82	37.02	36.88
17	39.96	39.79	39.28	39.10	38.21	38.05	37.35	37.28	37.05	36.92	37.03	36.87
18	39.80	39.65	39.25	39.03	38.18	37.98	37.34	37.19	37.07	36.96	37.10	36.95
19	39.83	39.64	39.28	39.12	38.14	38.00	37.29	37.05	37.05	36.95	37.10	36.94
20	39.83	39.63	39.29	39.14	38.11	37.96	37.13	36.69	37.00	36.84	37.07	36.93
21	39.75	39.59	39.22	38.84	38.08	37.98	37.10	36.86	36.92	36.77	37.07	36.79
22	39.70	39.49	39.07	38.92	38.04	37.90	37.10	36.98	37.06	36.92	37.13	36.99
23	39.60	39.36	39.11	38.97	37.93	37.72	37.05	36.95	37.10	36.94	37.15	37.08
24	39.54	39.38	39.14	39.04	37.78	37.60	37.03	36.94	37.32	37.09	37.15	37.10
25	39.45	39.34	39.04	38.95	37.75	37.63	37.06	37.01	37.40	37.26	37.16	37.07
26	39.45	39.37	39.02	38.97	37.75	37.66	37.06	36.99	37.28	37.19	37.17	37.04
27	39.43	39.37	39.01	38.74	37.72	37.59	37.05	36.96	37.19	36.98	37.11	36.98
28	39.43	39.35	38.79	38.60	37.63	37.50	37.02	36.95	36.98	36.75	37.05	36.95
29	39.41	39.34	38.80	38.66	37.65	37.53	37.00	36.91	---	---	37.07	36.94
30	39.38	39.28	38.79	38.71	37.67	37.61	36.94	36.76	---	---	37.08	36.94
31	39.32	39.12	---	---	37.64	37.50	36.88	36.73	---	---	37.08	36.94
MONTH	40.06	38.87	39.34	38.60	38.78	37.50	37.58	36.69	37.40	36.55	37.17	36.60

GROUND-WATER LEVELS

443

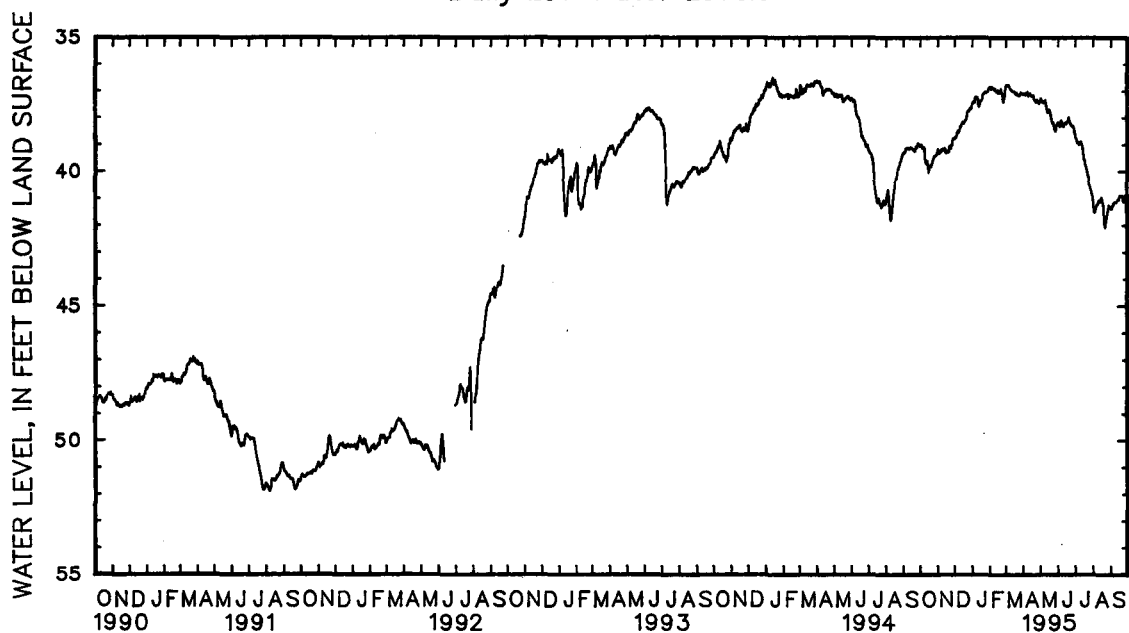
MARYLAND--Continued

SOMERSET COUNTY--Continued

SO Ce 42--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	37.11	36.98	37.33	37.20	38.17	38.06	38.65	38.47	41.00	40.84	41.37	41.23
2	37.10	36.97	37.27	37.08	38.22	38.09	38.78	38.60	41.32	41.00	41.40	41.31
3	37.11	36.99	37.34	37.11	38.26	38.15	38.82	38.71	41.53	41.32	41.40	41.18
4	37.09	36.85	37.40	37.21	38.31	38.21	38.93	38.78	41.53	41.40	41.31	41.15
5	37.13	37.09	37.37	37.19	38.30	38.13	38.94	38.83	41.48	41.32	41.27	41.15
6	37.12	37.06	37.42	37.32	38.15	38.03	38.92	38.81	41.36	41.21	41.22	41.12
7	37.07	37.02	37.42	37.29	38.09	37.99	39.00	38.82	41.29	41.07	41.20	41.06
8	37.08	36.94	37.43	37.33	38.18	38.00	38.99	38.88	41.24	41.04	41.17	41.02
9	37.03	36.96	37.41	37.26	38.29	38.10	38.98	38.83	41.23	41.06	41.14	40.96
10	37.18	36.98	37.34	37.17	38.31	38.18	38.93	38.81	41.19	41.03	41.15	40.93
11	37.15	37.07	37.50	37.23	38.32	38.08	38.91	38.74	41.10	40.94	41.15	40.99
12	37.12	36.99	37.60	37.36	38.21	38.02	38.97	38.76	41.11	40.95	41.12	40.96
13	37.08	36.92	37.73	37.45	38.22	38.06	39.06	38.83	41.12	40.97	41.08	40.91
14	37.13	36.98	37.80	37.61	38.18	38.01	39.16	38.91	41.12	40.92	41.04	40.94
15	37.17	37.05	37.70	37.51	38.20	38.02	39.36	39.07	41.03	40.86	41.07	40.98
16	37.18	37.06	37.74	37.54	38.20	38.09	39.57	39.34	40.98	40.84	41.03	40.91
17	37.19	37.04	37.71	37.50	38.16	38.05	39.58	39.45	41.01	40.91	40.93	40.68
18	37.17	37.01	37.74	37.51	38.14	38.03	39.74	39.57	41.14	40.99	40.90	40.82
19	37.16	37.01	37.90	37.62	38.08	37.94	39.82	39.70	41.25	41.04	40.91	40.79
20	37.30	37.11	38.02	37.84	37.98	37.93	39.93	39.78	41.60	41.18	40.91	40.79
21	37.32	37.22	38.13	37.98	38.11	37.94	40.03	39.85	41.96	41.52	40.94	40.79
22	37.35	37.27	38.20	38.08	38.17	38.04	40.16	39.85	42.11	41.91	40.92	40.75
23	37.41	37.32	38.20	38.12	38.22	38.07	40.20	40.08	42.06	41.83	41.09	40.86
24	37.32	37.14	38.18	38.09	38.28	38.12	40.31	40.09	41.84	41.70	41.13	41.00
25	37.32	37.14	38.31	38.07	38.31	38.16	40.48	40.26	41.74	41.60	41.08	40.86
26	37.39	37.24	38.42	38.25	38.29	38.18	40.53	40.34	41.60	41.41	40.97	40.76
27	37.40	37.31	38.48	38.35	38.33	38.20	40.58	40.45	41.49	41.29	40.93	40.74
28	37.43	37.24	38.50	38.36	38.33	38.17	40.65	40.51	41.38	41.19	40.91	40.77
29	37.46	37.34	38.36	38.19	38.44	38.20	40.71	40.56	41.27	41.04	40.92	40.78
30	37.41	37.20	38.25	38.13	38.58	38.39	40.81	40.67	41.27	41.06	40.87	40.63
31	---	---	38.23	38.12	---	---	40.89	40.75	41.33	41.19	---	---
MONTH	37.46	36.85	38.50	37.08	38.58	37.93	40.89	38.47	42.11	40.84	41.40	40.63
YEAR	42.11	36.55										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
SOMERSET COUNTY--Continued

WELL NUMBER.--SO C2 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 20 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.00 ft above land surface.

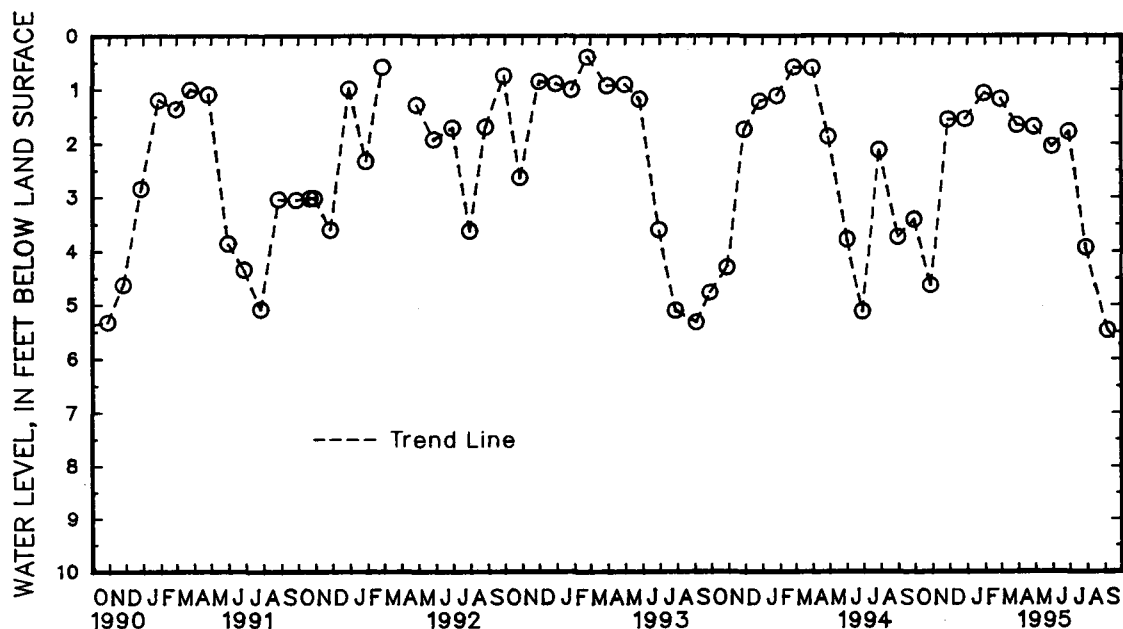
REMARKS.--Maryland Water-Level Network observation well.

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, 6.34 ft below land surface, Oct. 27, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	4.67	DEC 28	1.55	FEB 28	1.18	APR 28	1.70	JUN 29	1.79	SEP 5	5.52
NOV 28	1.56	JAN 30	1.07	MAR 29	1.67	MAY 30	2.07	JUL 28	3.97		
WATER YEAR 1995		HIGHEST	1.07	JAN 30, 1995		LOWEST	5.52	SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, at 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 42 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.50 ft above land surface.

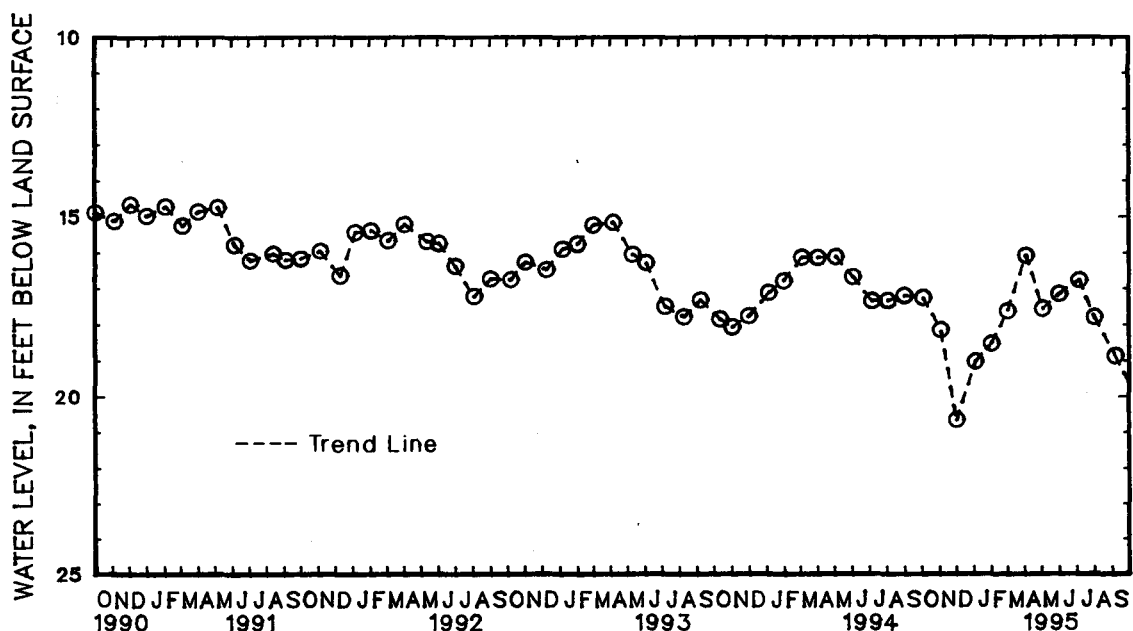
REMARKS.--Maryland Water-Level Network observation well. Water level reported by driller, 26 ft below land surface Dec. 16, 1955; water level measured 26.64 ft below land surface March 10, 1956. Measurements may be affected by nearby pumping.

PERIOD OF RECORD.--March 1956 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT	4	17.31		DEC	1	20.72		FEB	1	18.54		APR	3	16.09	
NOV	3	18.22		JAN	3	19.06		MAR	2	17.64		MAY	3	17.61	
WATER YEAR 1995		HIGHEST	16.09	APR 3, 1995		LOWEST		20.72	DEC 1, 1994						



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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, at 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 42 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.70 ft above land surface.

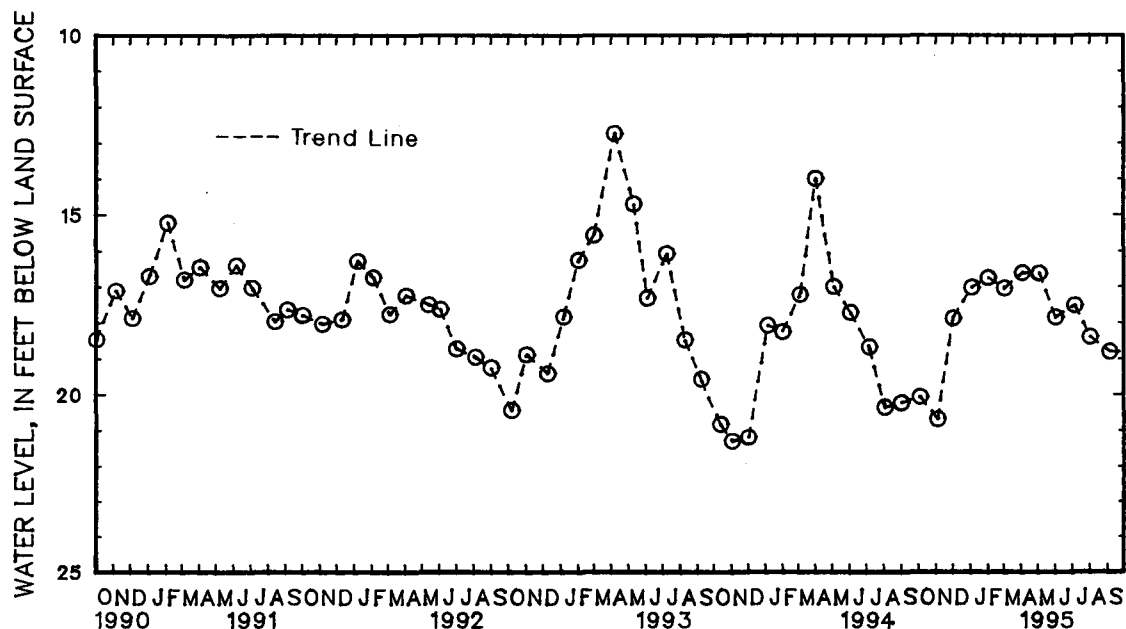
REMARKS.--Maryland Water-Level Network observation well.

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, Nov. 2, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	20.10	DEC 1	17.90	FEB 1	16.77	APR 3	16.63	JUN 1	17.90	AUG 1	18.46
NOV 3	20.75	JAN 3	17.04	MAR 2	17.07	MAY 3	16.64	JUL 5	17.57	SEP 5	18.88
WATER YEAR 1995		HIGHEST	16.63	APR 3, 1995		LOWEST	20.75	NOV 3, 1994			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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, at Tunis Mills.
Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124FNP.

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 5 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.28 ft above land surface.

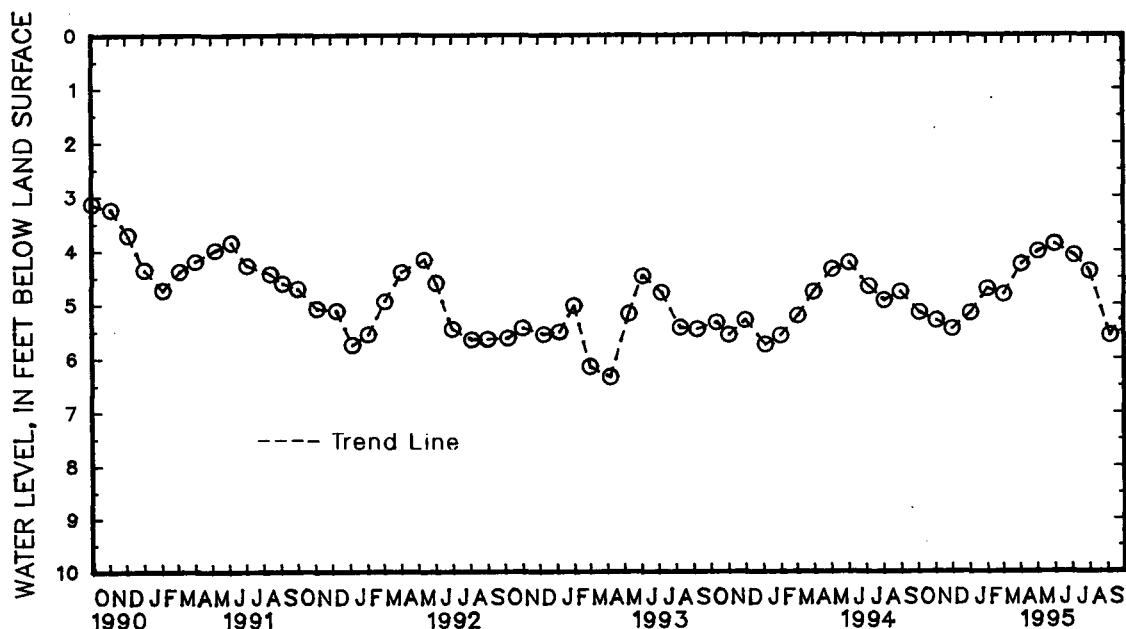
REMARKS.--Maryland Water-Level Network observation well.

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, 6.39 ft below land surface, April 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	5.19	DEC 1	5.50	FEB 1	4.73	APR 3	4.27	JUN 1	3.89	AUG 1	4.41
NOV 3	5.34	JAN 3	5.19	MAR 2	4.84	MAY 3	4.03	JUL 5	4.11	SEP 6	5.62
WATER YEAR 1995		HIGHEST	3.89	JUN 1, 1995	LOWEST	5.62	SEP 6, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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, at 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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 7 ft above National Geodetic Vertical of 1929, from topographic map.

Measuring point: Top of casing, 0.85 ft above land surface.

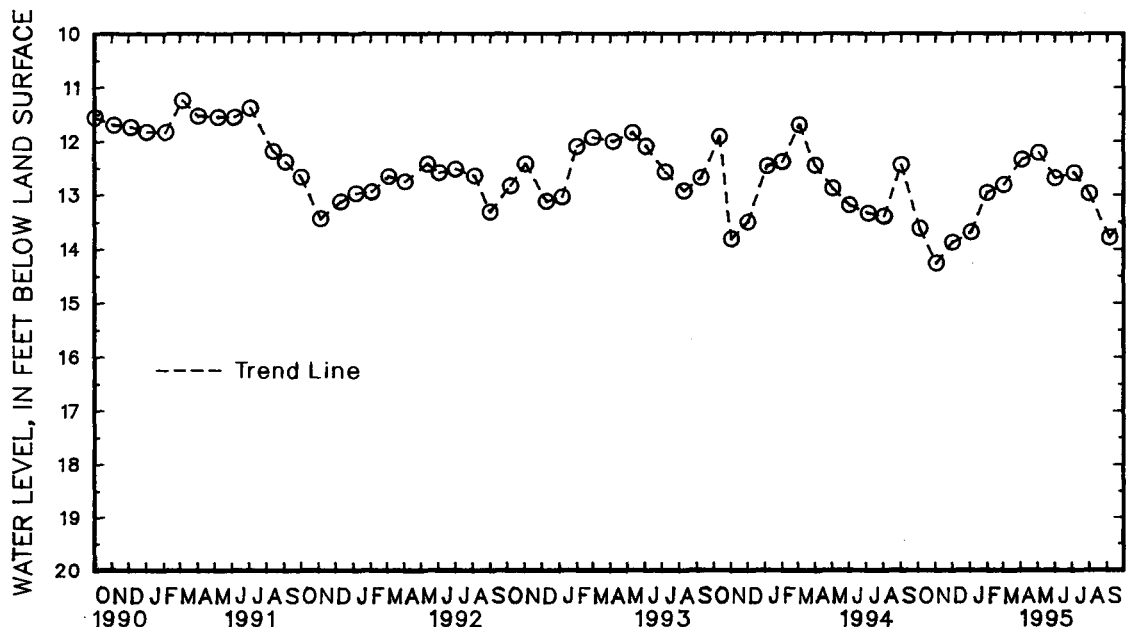
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	13.65	DEC 1	13.90	FEB 1	12.97	APR 3	12.35	JUN 1	12.70	AUG 1	12.99
NOV 3	14.30	JAN 3	13.71	MAR 2	12.82	MAY 3	12.22	JUL 5	12.60	SEP 5	13.82
WATER YEAR 1995		HIGHEST	12.22	MAY 3, 1995	LOWEST	14.30	NOV 3, 1994				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
TALBOT COUNTY--Continued

WELL NUMBER.--TA Co 7. SITE ID.--384643076043801.

LOCATION.--Lat 38°46'43", long 76°04'38", Hydrologic Unit 02060005, in Easton.

Owner: Easton Utilities Commission.

AQUIFER.--Calvert Formation of Miocene age. Aquifer code: 122CLVR.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, measured depth 104 ft; casing diameter 4 in., to unknown depth.

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

DATUM.--Elevation of land surface is 13 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.4 ft above land surface.

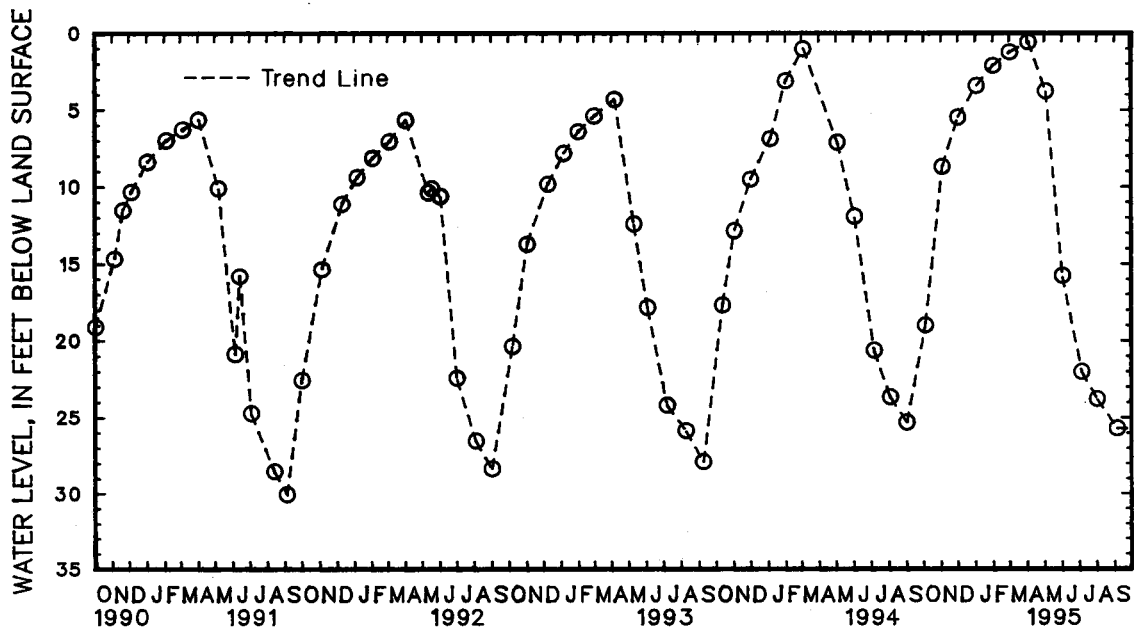
REMARKS.--Maryland Water-Level Network observation well. Water level reported 43.43 ft below land surface, Oct. 7, 1948; water levels may be affected by nearby pumping.

PERIOD OF RECORDS.--April 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.59 ft below land surface, April 3, 1995; lowest measured 75.36 ft below land surface, Aug. 2, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	19.05	DEC 1	5.49	FEB 1	2.14	APR 3	.59	JUN 1	15.92	AUG 1	23.95
NOV 3	8.72	JAN 3	3.44	MAR 2	1.25	MAY 3	3.84	JUL 5	22.19	SEP 5	25.86
WATER YEAR 1995		HIGHEST	.59	APR 3, 1995		LOWEST	25.86	SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

WASHINGTON COUNTY

WELL NUMBER.--WA Ac 1, SITE ID.--394154078103501.

LOCATION.--Lat 39°41'54", long 78°10'35", Hydrologic Unit 02070004, at Hancock.

Owner: Susan Creager.

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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of tile pipe, 0.20 ft above land surface.

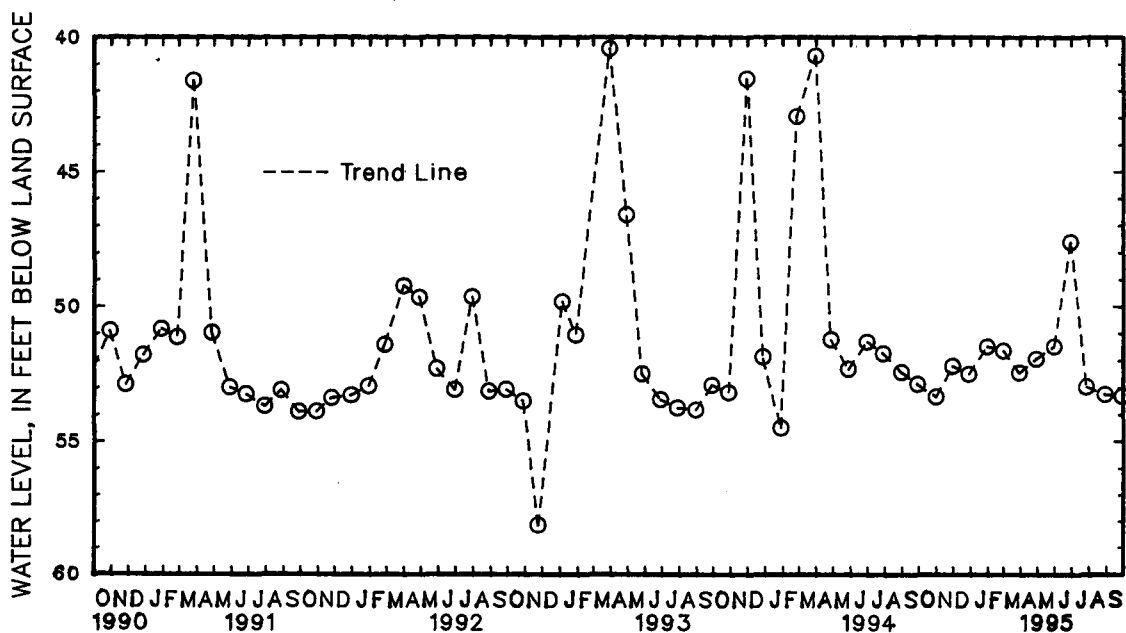
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	53.43	DEC 28	52.57	FEB 28	51.68	APR 28	51.99	JUN 29	47.61	AUG 29	53.33
NOV 29	52.27	JAN 30	51.52	MAR 29	52.52	MAY 30	51.52	JUL 27	53.05	SEP 28	53.39
WATER YEAR 1995		HIGHEST	47.61	JUN 29, 1995	LOWEST	53.43	OCT 31, 1994				



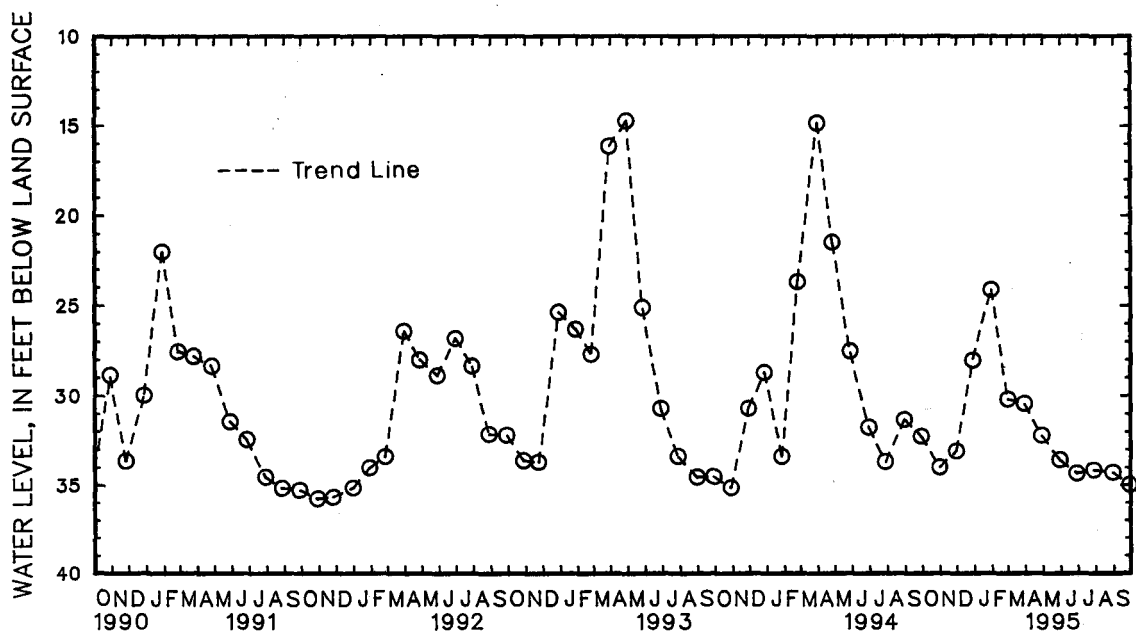
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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.
Owner: Fort Frederick State Park.
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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of stone sill, 0.80 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well.
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, 37.34 ft below land surface, April 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	34.11	DEC 28	28.08	FEB 28	30.31	APR 28	32.34	JUN 28	34.45	AUG 30	34.39
NOV 29	33.18	JAN 30	24.14	MAR 29	30.56	MAY 30	33.70	JUL 28	34.26	SEP 28	35.07
WATER YEAR 1995		HIGHEST	24.14	JAN 30, 1995		LOWEST	37.34	APR 28, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 Hagerstown Water Supply 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 National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of shelter shelf, 3.5 ft above land surface.

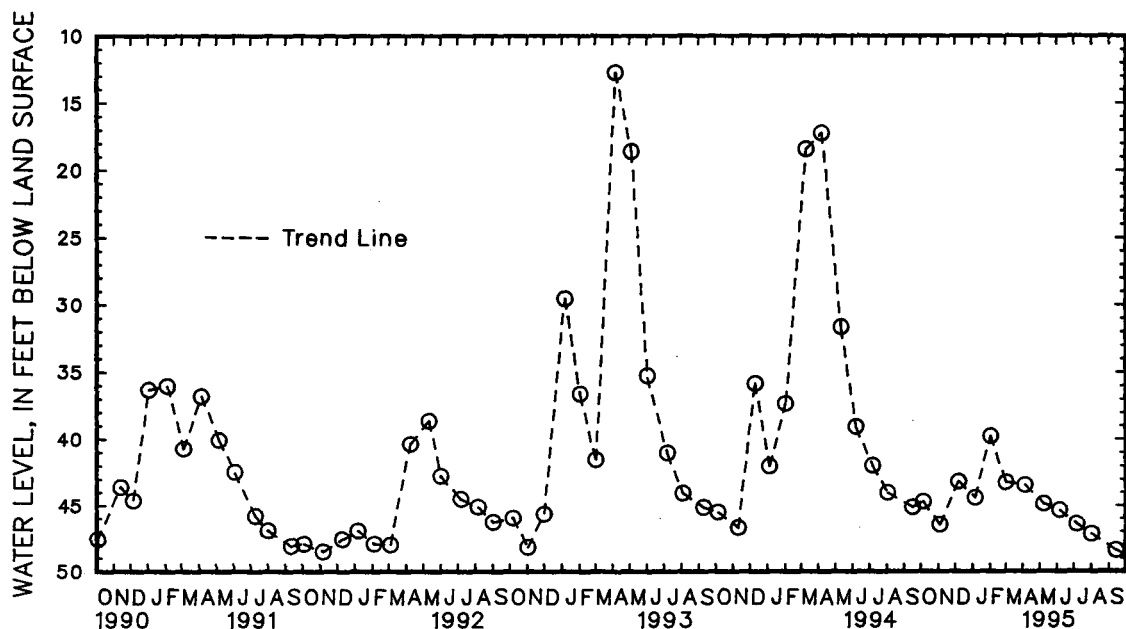
REMARKS.--Maryland Water-Level Network observation well. Missing data due to recorder malfunction.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	44.78	DEC 7	43.26	FEB 2	39.84	APR 5	43.56	JUN 6	45.45	AUG 1	47.23
NOV 3	46.54	JAN 5	44.46	MAR 2	43.36	MAY 8	44.98	JUL 6	46.50	SEP 13	48.45
WATER YEAR 1995		HIGHEST	39.84	FEB 2, 1995	LOWEST	48.45	SEP 13, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

MARYLAND--Continued

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Ch 106, SITE ID.--393414077461801. PERMIT NUMBER.--WA-73-2095.

LOCATION.--Lat 39°34'14", long 77°46'18", Hydrologic Unit 02070004, at Fountain Rock School.

Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 69 ft; casing diameter 6 in., to 41 ft; open hole.

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

Equipped with graphic water-level recorder from March 29, 1978 to June 19, 1981, Nov. 6, 1985 to May 3, 1987, and July 1, 1987 to June 1994.

DATUM.--Elevation of land surface is 520 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.45 ft above land surface.

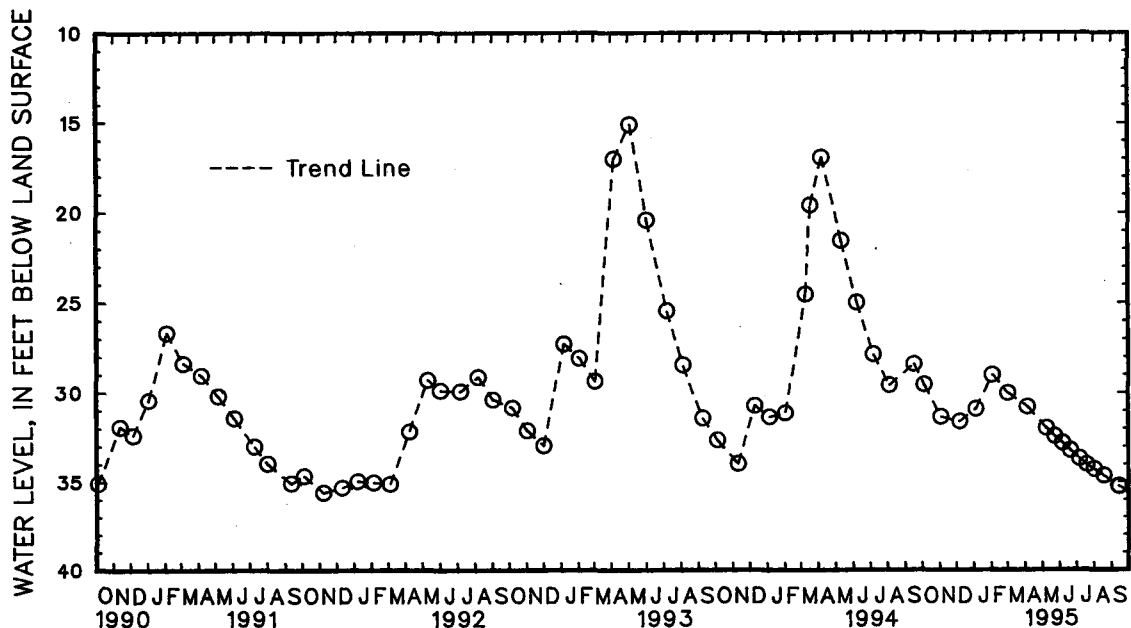
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--February 1978 to June 1981, April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.19 ft below land surface, April 29, 1993; lowest measured, 36.59 ft below land surface, Jan. 11, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	29.71	JAN 5	31.03	APR 5	30.93	JUN 6	32.97	JUL 19	34.16	SEP 13	35.35
NOV 3	31.50	FEB 2	29.09	MAY 8	32.14	20	33.38	AUG 1	34.42	14	35.36
DEC 7	31.76	MAR 2	30.14	23	32.59	JUL 6	33.83	18	34.77		
WATER YEAR 1995		HIGHEST	29.09	FEB 2, 1995	LOWEST	35.36	SEP 14, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA C1 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, Hagerstown.

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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing 2.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

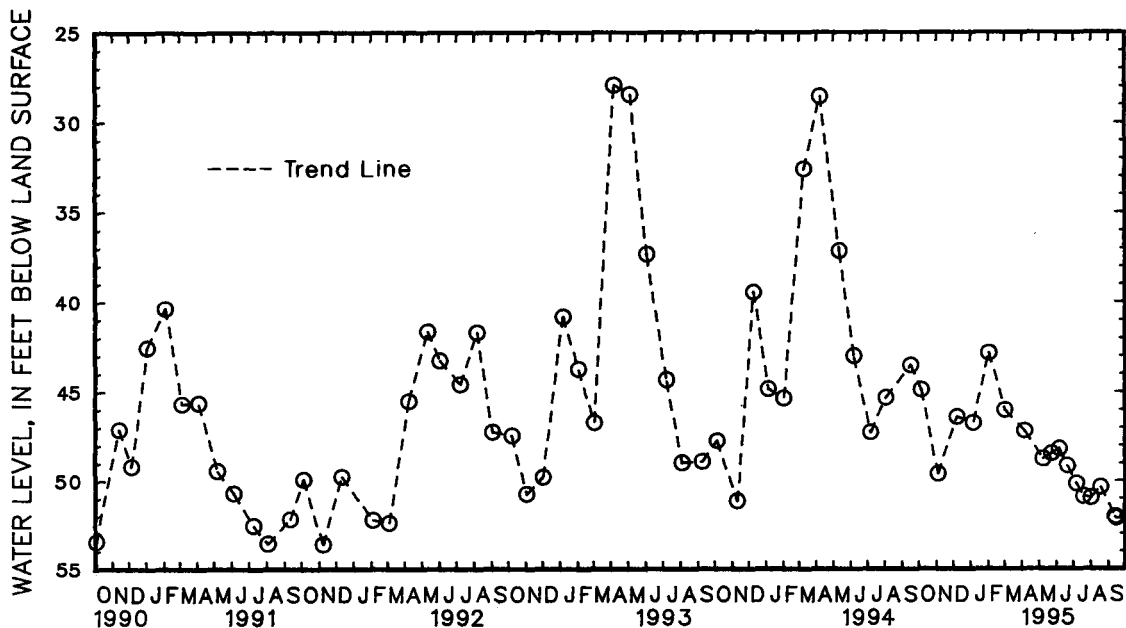
PERIOD OF RECORD.--February 1978 to current year.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	44.98	JAN 5	46.78	APR 5	47.29	JUN 6	48.30	JUL 19	50.97	SEP 13	52.10
NOV 3	49.71	FEB 2	42.87	MAY 8	48.88	20	49.26	AUG 1	51.04	14	52.17
DEC 7	46.46	MAR 2	46.13	23	48.57	JUL 6	50.26	18	50.44		

WATER YEAR 1995 HIGHEST 42.87 FEB 2, 1995 LOWEST 52.17 SEP 14, 1995



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
WASHINGTON COUNTY--Continued

WELL NUMBER.--WA D_j 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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of concrete cover, 0.25 ft above land surface.

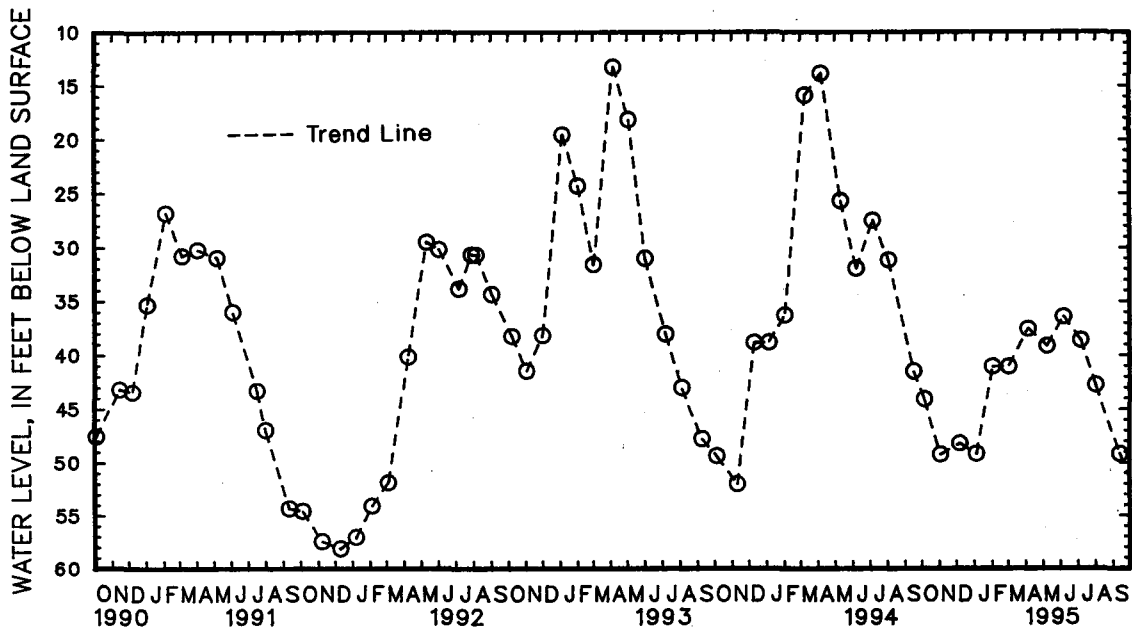
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--December 1956 to current year.

EXTREMES FOR PERIOD FOR RECORD.--Highest water level measured, 13.27 ft below land surface, April 6, 1993; lowest measured, 58.88 ft below land surface, Oct. 5, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	44.29	DEC 7	48.37	FEB 2	41.11	APR 5	37.61	JUN 6	36.47	AUG 1	42.94
NOV 3	49.44	JAN 5	49.36	MAR 2	41.10	MAY 8	39.23	JUL 6	38.71	SEP 13	49.37
WATER YEAR 1995		HIGHEST	36.47	JUN 6, 1995	LOWEST	49.44	NOV 3, 1994				



GROUND-WATER LEVELS

MARYLAND--Continued

WICOMICO COUNTY

WELL NUMBER.--WI Co 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 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 chalked steel 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 National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 1.04 ft above land surface.

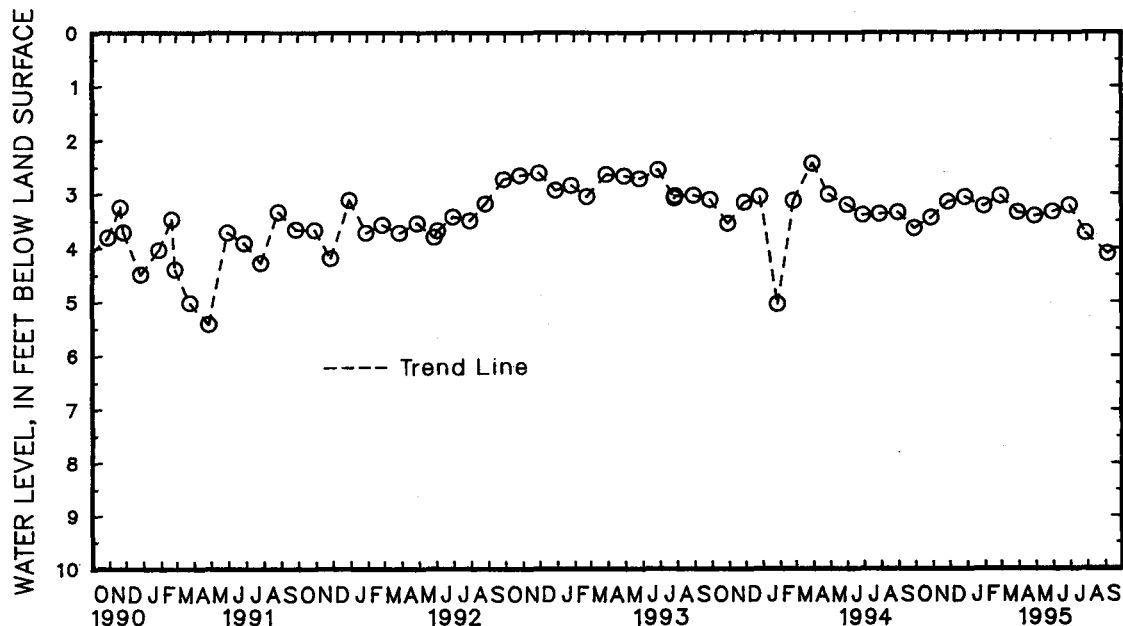
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 28	3.46	DEC 28	3.07	FEB 28	3.05	APR 28	3.43	JUN 29	3.23	SEP 5	4.14	
NOV 28	3.16	JAN 30	3.24	MAR 29	3.36	MAY 30	3.35	JUL 28	3.75			
WATER YEAR 1995		HIGHEST	3.05	FEB 28, 1995		LOWEST	4.14	SEP 5, 1995				



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Co 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 Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 113 ft; casing diameter 8 in., to 109 ft; screen diameter 3 in. from 109 to 113 ft.

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

DATUM.--Elevation of land surface is 28 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of shelter floor on cross-brace, 3.14 ft above land surface.

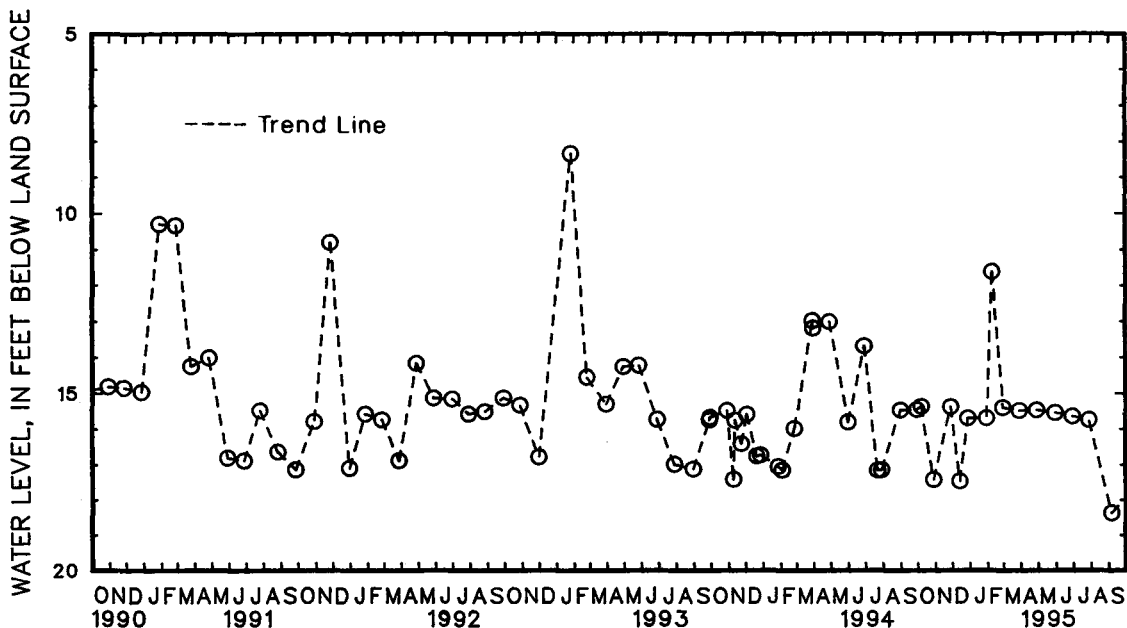
REMARKS.--Maryland Water-Level Network and Salisbury project observation well.

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, 17.47 ft below land surface, Nov. 9, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	15.38	DEC 13	17.51	FEB 8	11.63	APR 28	15.52	JUL 28	15.80
28	17.47	28	15.71	28	15.46	MAY 30	15.60	SEP 5	18.40
NOV 28	15.39	JAN 30	15.71	MAR 29	15.54	JUN 29	15.70		
WATER YEAR 1995		HIGHEST	11.63	FEB 8, 1995	LOWEST	18.40	SEP 5, 1995		



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Ce 210. SITE ID.--382439075355301. PERMIT NUMBER.--WI-67-0285.
 LOCATION.--Lat 38°24'39", long 75°35'53", Hydrologic Unit 02060007, north side of Naylor Mill Rd., near Salisbury.
 Owner: U.S. Geological Survey.
 AQUIFER.--Pensaiken Formation of the Salisbury aquifer of Miocene age. Aquifer code: 112SLBR.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 132 ft; casing diameter 4 in., to 122 ft; screen diameter 2 in. from 122 to 132 ft.
 INSTRUMENTATION.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--15-minute recorder interval from September 28, 1993 to current year.
 DATUM.--Elevation of land surface is 39 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 2.08 ft above land surface.
 REMARKS.--City of Salisbury contributing zone delineation study. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--September 28, 1993 to April 26, 1995.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.78 ft above sea level, April 11, 1994; lowest measured, 14.40 ft above sea level, March 25, 1995.

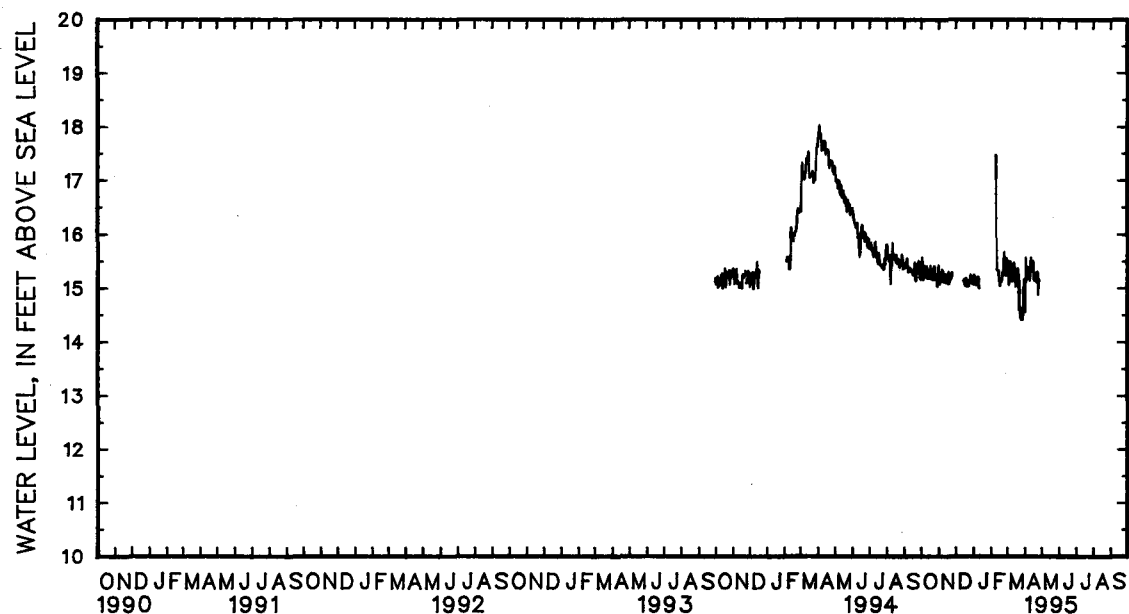
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.18	15.42	16.21	15.19	---	---	15.98	15.24	---	---	17.75	15.25
2	16.25	15.57	16.03	15.07	---	---	16.02	15.21	---	---	17.66	15.50
3	17.06	15.40	16.05	15.24	---	---	16.01	15.06	---	---	16.34	15.05
4	17.06	15.15	16.09	15.12	---	---	15.90	15.06	---	---	16.42	15.30
5	16.16	15.41	15.96	15.12	---	---	15.84	15.08	---	---	17.55	15.48
6	16.18	15.40	16.07	15.34	---	---	15.93	15.05	---	---	17.48	15.49
7	16.15	15.20	16.07	15.31	---	---	15.95	15.10	---	---	16.19	15.13
8	16.08	15.31	16.11	15.31	---	---	15.90	15.20	---	---	16.03	15.18
9	16.16	15.40	16.03	15.20	---	---	15.91	15.20	17.78	17.46	16.07	15.39
10	16.16	15.40	15.96	15.11	---	---	15.92	14.99	17.81	15.33	16.08	15.13
11	16.14	15.18	15.93	15.15	---	---	17.29	14.99	16.07	15.33	16.09	15.37
12	16.09	15.17	16.00	15.25	---	---	---	---	16.00	15.32	16.13	15.47
13	16.13	15.30	16.03	15.10	---	---	---	---	16.06	15.32	16.16	15.40
14	16.12	15.19	16.03	15.17	15.94	15.13	---	---	16.64	15.13	16.15	15.20
15	16.03	15.24	16.07	15.10	15.96	15.16	---	---	15.94	15.14	16.05	15.01
16	16.76	15.32	15.95	15.18	15.93	15.04	---	---	15.98	15.03	17.44	15.33
17	16.15	15.41	16.81	15.29	15.88	15.04	---	---	16.03	15.11	16.09	15.13
18	16.14	15.17	16.01	15.07	15.95	15.17	---	---	15.93	15.11	16.41	15.27
19	16.07	15.27	15.98	15.14	15.98	15.07	---	---	16.05	15.15	16.91	15.36
20	16.09	15.19	15.97	15.13	15.96	15.02	---	---	16.05	15.29	16.07	15.24
21	16.14	15.15	16.08	15.26	15.90	15.13	---	---	17.69	15.24	16.11	14.59
22	16.03	15.26	16.12	15.18	15.96	15.12	---	---	17.80	15.48	16.13	15.13
23	16.11	15.39	16.08	15.28	15.99	15.03	---	---	17.99	15.66	15.99	14.45
24	16.15	15.40	16.04	15.23	15.89	15.13	---	---	18.02	15.44	16.53	14.62
25	16.70	15.16	---	---	15.95	15.13	---	---	16.70	15.41	16.56	14.40
26	16.76	15.24	---	---	15.98	15.24	---	---	16.21	15.23	16.60	14.54
27	17.05	15.25	---	---	16.03	15.09	---	---	16.27	15.55	16.25	14.60
28	16.04	15.15	---	---	15.95	15.15	---	---	16.19	15.25	16.49	14.41
29	16.00	15.02	---	---	15.94	15.13	---	---	---	---	16.09	14.58
30	16.03	15.11	---	---	15.92	15.07	---	---	---	---	16.49	15.17
31	16.10	15.42	---	---	15.91	15.07	---	---	---	---	16.15	14.55
MONTH	17.06	15.02	16.81	15.07	16.03	15.02	17.29	14.99	18.02	15.03	17.75	14.40

GROUND-WATER LEVELS
 MARYLAND--Continued
 WICOMICO COUNTY--Continued
 WI Ce 210--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.15	14.55	---	---	---	---	---	---	---	---	---	---
2	16.17	15.57	---	---	---	---	---	---	---	---	---	---
3	16.30	15.13	---	---	---	---	---	---	---	---	---	---
4	16.02	15.26	---	---	---	---	---	---	---	---	---	---
5	16.11	15.39	---	---	---	---	---	---	---	---	---	---
6	17.25	15.25	---	---	---	---	---	---	---	---	---	---
7	16.19	15.28	---	---	---	---	---	---	---	---	---	---
8	17.45	15.34	---	---	---	---	---	---	---	---	---	---
9	17.77	15.14	---	---	---	---	---	---	---	---	---	---
10	17.81	15.48	---	---	---	---	---	---	---	---	---	---
11	16.31	15.56	---	---	---	---	---	---	---	---	---	---
12	17.61	15.31	---	---	---	---	---	---	---	---	---	---
13	16.17	15.42	---	---	---	---	---	---	---	---	---	---
14	17.78	15.42	---	---	---	---	---	---	---	---	---	---
15	17.86	15.50	---	---	---	---	---	---	---	---	---	---
16	16.28	15.17	---	---	---	---	---	---	---	---	---	---
17	16.18	15.16	---	---	---	---	---	---	---	---	---	---
18	15.99	15.14	---	---	---	---	---	---	---	---	---	---
19	16.03	15.23	---	---	---	---	---	---	---	---	---	---
20	16.07	15.28	---	---	---	---	---	---	---	---	---	---
21	16.14	15.12	---	---	---	---	---	---	---	---	---	---
22	16.05	15.25	---	---	---	---	---	---	---	---	---	---
23	16.05	15.30	---	---	---	---	---	---	---	---	---	---
24	16.14	14.87	---	---	---	---	---	---	---	---	---	---
25	15.94	15.09	---	---	---	---	---	---	---	---	---	---
26	16.01	15.15	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	17.86	14.55	---	---	---	---	---	---	---	---	---	---
YEAR	18.02	14.40										

Daily Low Water Levels



5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Ce 213. SITE ID.--382336075352101. PERMIT NUMBER.--WI-67-0288.
 LOCATION.--Lat 38°23'36", long 75°35'21", Hydrologic Unit 02060007, north side of Naylor Mill Rd., near Salisbury.
 Owner: U.S. Geological Survey.
 AQUIFER.--Pensauken Formation of the Salisbury aquifer of Miocene age. Aquifer code: 112SLBR.
 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.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--30-minute recorder interval from October 16, 1993 to current year.
 DATUM.--Elevation of land surface is 38 ft above National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder platform, 1.99 ft above land surface.
 REMARKS.--City of Salisbury contributing zone delineation study. Water levels are affected by nearby pumping.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 16, 1993 to July 17, 1995.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.13 ft above sea level, April 3, 1994;
 lowest measured, 10.95 ft above sea level, May 19, 1995.

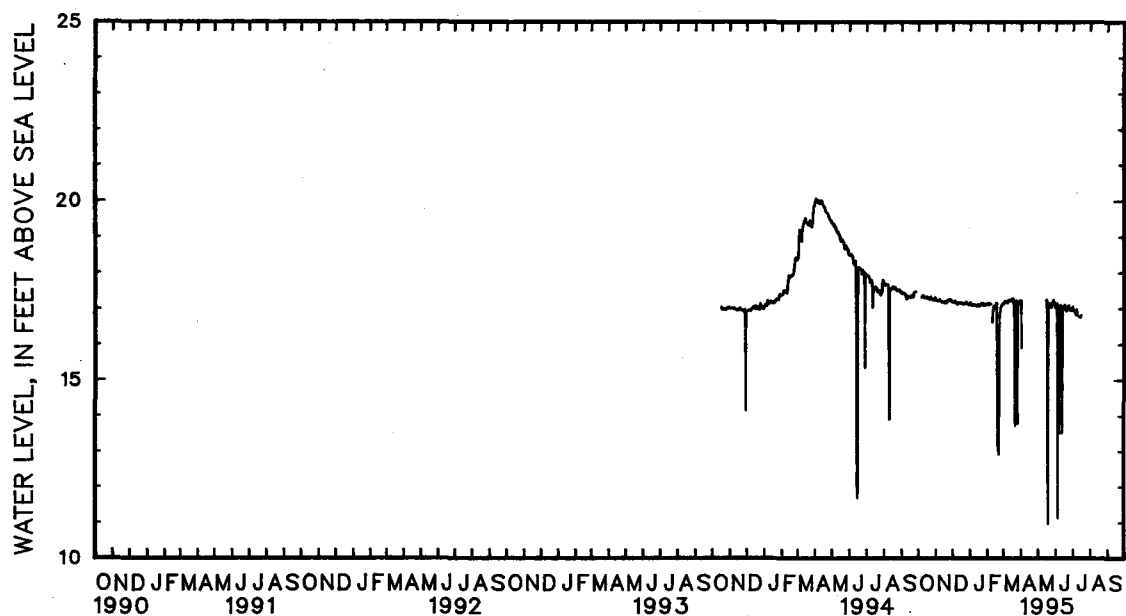
WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	17.39	17.25	17.28	17.18	17.24	17.17	17.22	17.13	17.22	17.13
2	---	---	17.33	17.22	17.26	17.17	17.25	17.11	17.21	17.10	17.24	17.15
3	---	---	17.32	17.23	17.25	17.17	17.19	17.10	17.19	17.09	17.26	17.20
4	---	---	17.31	17.21	17.26	17.19	17.20	17.08	17.29	17.14	17.27	17.21
5	---	---	17.30	17.21	17.32	17.21	17.15	17.07	17.24	17.12	17.27	17.18
6	---	---	17.33	17.24	17.25	17.16	17.18	17.11	17.21	17.12	17.27	17.18
7	17.42	17.32	17.31	17.23	17.29	17.15	17.30	17.11	17.19	17.12	17.35	17.20
8	17.43	17.36	17.33	17.25	17.23	17.12	17.19	17.12	---	---	17.29	17.16
9	17.46	17.37	17.32	17.22	17.24	17.14	17.19	17.11	16.90	16.63	17.32	17.17
10	17.43	17.33	17.28	17.18	17.29	17.13	17.17	17.08	17.02	16.89	17.34	17.23
11	17.40	17.29	17.26	17.18	17.30	17.16	17.23	17.08	17.09	17.00	17.33	17.22
12	17.40	17.33	17.28	17.19	17.25	17.16	17.18	17.09	17.15	17.07	17.29	17.21
13	17.42	17.32	17.27	17.19	17.37	17.16	17.16	17.06	17.14	17.06	17.33	17.22
14	17.40	17.31	17.28	17.18	17.25	17.15	17.15	17.07	17.15	17.06	17.34	17.25
15	17.39	17.29	17.26	17.16	17.25	17.15	17.19	17.11	17.20	17.08	17.34	17.23
16	17.39	17.32	17.25	17.17	17.23	17.14	17.22	17.11	17.22	17.13	17.35	17.27
17	17.41	17.32	17.28	17.20	17.24	17.14	17.18	17.07	17.22	17.16	17.36	17.27
18	17.39	17.29	17.27	17.16	17.25	17.15	17.13	17.06	17.20	13.20	17.40	17.28
19	17.39	17.30	17.25	17.18	17.23	17.14	17.18	17.10	16.83	13.05	17.37	17.25
20	17.38	17.29	17.24	17.16	17.19	17.11	17.23	17.13	16.63	12.90	17.38	16.36
21	17.36	17.25	17.33	17.19	17.21	17.13	17.20	17.11	16.75	14.13	17.46	13.69
22	17.36	17.29	17.34	17.23	17.25	17.13	17.20	17.12	16.94	16.74	17.25	14.59
23	17.39	17.32	17.36	17.23	17.25	17.14	17.22	17.15	17.05	16.90	17.36	17.18
24	17.38	17.29	17.34	17.22	17.24	17.15	17.21	17.09	17.24	17.01	17.32	17.22
25	17.38	17.24	17.34	17.24	17.21	17.18	17.18	17.09	17.23	17.07	17.33	13.78
26	17.35	17.26	17.30	17.22	17.21	17.13	17.17	17.11	17.24	17.08	17.21	17.09
27	17.35	17.26	17.35	17.25	17.21	17.13	17.16	17.09	17.28	17.14	17.29	17.16
28	17.32	17.25	17.39	17.24	17.24	17.13	17.16	17.09	17.17	17.11	17.27	17.17
29	17.33	17.23	17.30	17.20	17.20	17.10	17.17	17.10	---	---	17.30	17.20
30	17.33	17.25	17.30	17.18	17.19	17.10	17.22	17.13	---	---	17.34	17.21
31	17.36	17.30	---	---	17.23	17.10	17.27	17.12	---	---	17.34	17.23
MONTH	17.46	17.23	17.39	17.16	17.37	17.10	17.30	17.06	17.29	12.90	17.46	13.69

GROUND-WATER LEVELS
MARYLAND--Continued
WICOMICO COUNTY--Continued
WI Ce 213--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.35	17.23	---	---	17.25	17.08	17.13	17.02	---	---	---	---
2	17.34	15.90	---	---	17.22	17.01	17.14	17.06	---	---	---	---
3	---	---	---	---	17.21	17.05	17.13	16.94	---	---	---	---
4	---	---	---	---	17.23	17.14	17.15	16.93	---	---	---	---
5	---	---	---	---	17.23	11.11	17.11	16.92	---	---	---	---
6	---	---	---	---	17.19	17.10	17.09	16.86	---	---	---	---
7	---	---	---	---	17.24	13.48	17.05	16.85	---	---	---	---
8	---	---	---	---	17.14	16.99	17.05	16.82	---	---	---	---
9	---	---	---	---	17.13	16.96	17.06	16.97	---	---	---	---
10	---	---	---	---	17.16	17.05	17.06	16.83	---	---	---	---
11	---	---	---	---	17.19	17.10	17.01	16.80	---	---	---	---
12	---	---	---	---	17.22	13.49	16.98	16.78	---	---	---	---
13	---	---	---	---	16.94	13.64	16.98	16.76	---	---	---	---
14	---	---	---	---	17.09	16.94	16.98	16.77	---	---	---	---
15	---	---	---	---	17.12	17.04	16.96	16.75	---	---	---	---
16	---	---	17.30	17.23	17.16	17.08	16.95	16.77	---	---	---	---
17	---	---	17.40	17.24	17.18	17.00	17.03	16.81	---	---	---	---
18	---	---	17.37	11.03	17.18	17.10	---	---	---	---	---	---
19	---	---	17.35	10.95	17.21	17.03	---	---	---	---	---	---
20	---	---	17.20	17.06	17.19	16.98	---	---	---	---	---	---
21	---	---	17.23	17.13	17.14	16.93	---	---	---	---	---	---
22	---	---	17.23	17.16	17.13	16.94	---	---	---	---	---	---
23	---	---	17.21	17.08	17.13	17.05	---	---	---	---	---	---
24	---	---	17.21	17.03	17.14	17.06	---	---	---	---	---	---
25	---	---	17.20	17.02	17.16	17.09	---	---	---	---	---	---
26	---	---	17.30	17.11	17.15	17.00	---	---	---	---	---	---
27	---	---	17.23	17.10	17.15	16.96	---	---	---	---	---	---
28	---	---	17.28	17.18	17.12	16.94	---	---	---	---	---	---
29	---	---	17.44	17.24	17.13	16.96	---	---	---	---	---	---
30	---	---	17.30	17.18	17.14	16.95	---	---	---	---	---	---
31	---	---	17.26	17.17	---	---	---	---	---	---	---	---
MONTH	17.35	15.90	17.44	10.95	17.25	11.11	17.15	16.75	---	---	---	---
YEAR	17.46	10.95										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

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 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 chalked steel 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.00 ft above land surface.

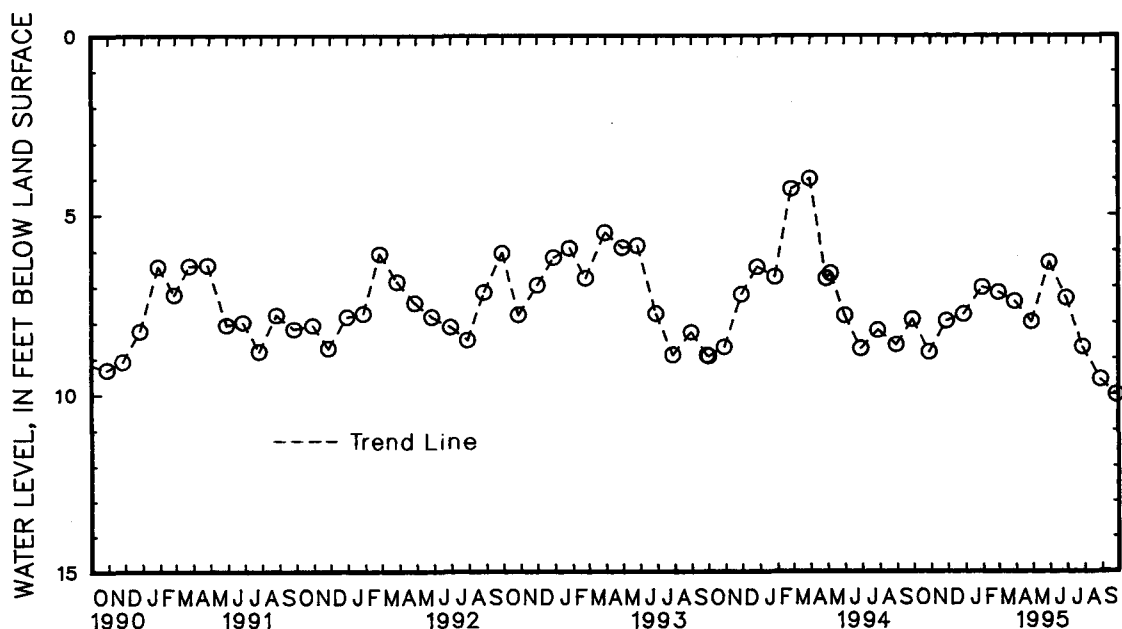
REMARKS.--Maryland Water-Level Network and Salisbury project observation well. Water level reported 7.2 ft below land surface, Oct. 26, 1942.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	8.90	DEC 28	7.81	FEB 28	7.19	APR 28	8.03	JUN 29	7.36	AUG 29	9.66
NOV 28	8.00	JAN 30	7.04	MAR 29	7.45	MAY 30	6.34	JUL 28	8.75	SEP 26	10.08
WATER YEAR 1995		HIGHEST	6.34	MAY 30, 1995		LOWEST	10.08	SEP 26, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 4 in. from 270 to 280 ft.

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

DATUM.--Elevation of land surface is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of 4 in. coupling, 3.52 ft above land surface.

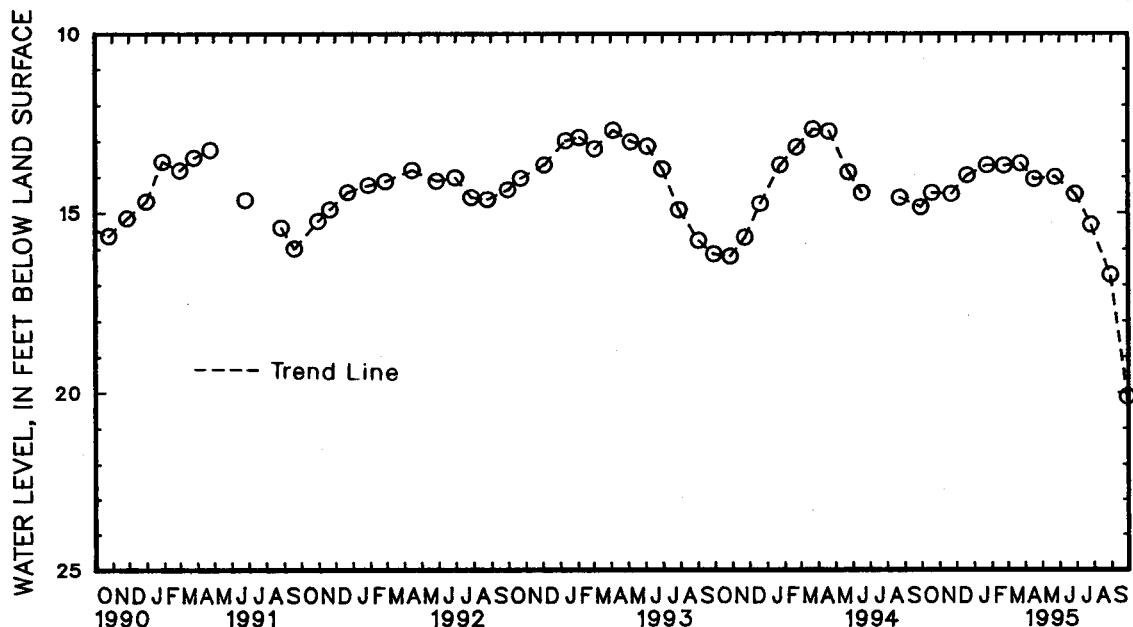
REMARKS.--Ocean City ground-water monitoring network well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	14.47	DEC 20	13.97	FEB 23	13.69	APR 17	14.08	JUN 28	14.50	AUG 30	16.78
NOV 22	14.50	JAN 24	13.68	MAR 24	13.63	MAY 24	14.02	JUL 26	15.38	SEP 28	20.18
WATER YEAR 1995		HIGHEST	13.63	MAR 24, 1995	LOWEST	20.18	SEP 28, 1995				



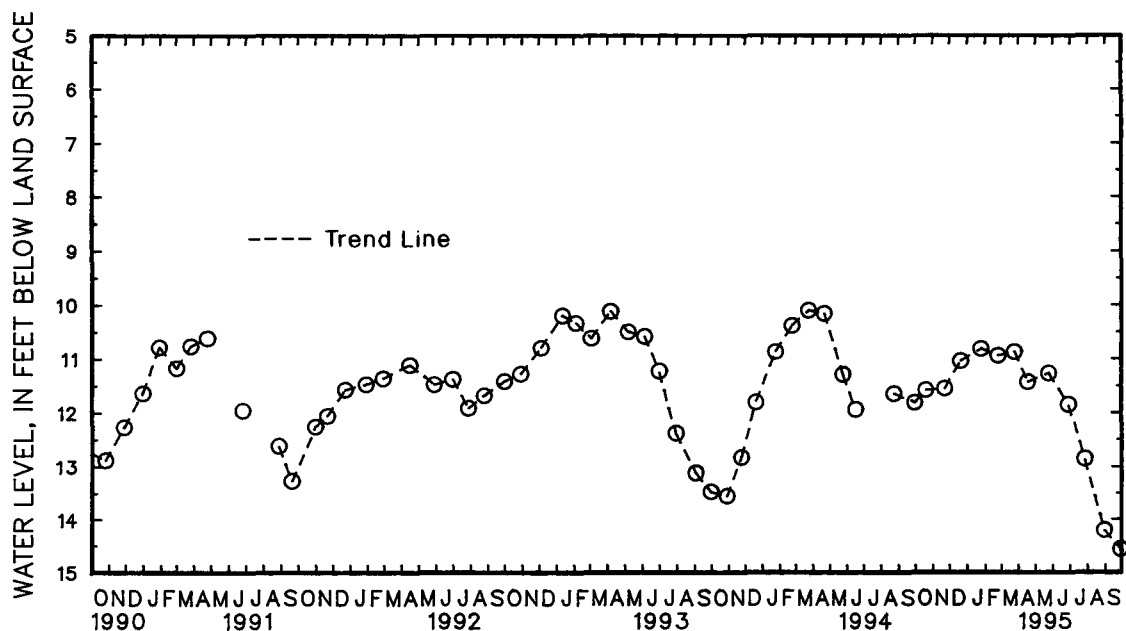
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued

WELL NUMBER.--WO A₆ 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 Whaleysville.
Owner: U.S. Geological Survey.
AQUIFER.--Ocean City aquifer of Miocene age. Aquifer code: 122OCNC.
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of 4 in. coupling, 4.4 ft above land surface.
REMARKS.--Ocean City ground-water monitoring network well.
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, 15.06 ft below land surface, Nov. 24, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	11.60	DEC 20	11.05	FEB 23	10.95	APR 17	11.45	JUN 28	11.88	AUG 30	14.22
NOV 22	11.57	JAN 24	10.82	MAR 24	10.88	MAY 24	11.29	JUL 26	12.89	SEP 28	14.57
WATER YEAR 1995		HIGHEST	10.82	JAN 24, 1995		LOWEST	14.57	SEP 28, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 Whalesville.

Owner: U.S. Geological Survey.

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 118 ft; casing diameter 4 in., to 108 ft; screened diameter 2 in. from 108 to 118 ft.

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

DATUM.--Elevation of land surface is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of 4 in. coupling, 3.6 ft above land surface.

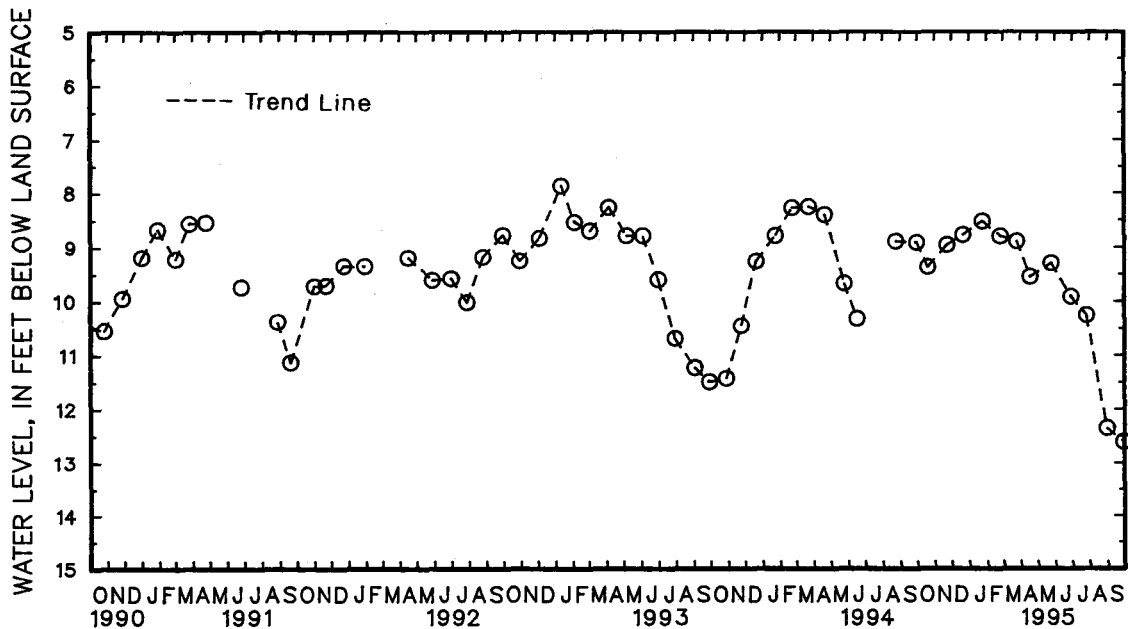
REMARKS.--Ocean City ground-water monitoring network well.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.79 ft below land surface, Nov. 20, 1975; lowest measured, 12.96 ft below land surface, Oct. 1 and 29, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	9.39	DEC 20	8.78	FEB 23	8.82	APR 17	9.58	JUN 28	9.95	AUG 30	12.40
NOV 22	8.97	JAN 24	8.53	MAR 24	8.91	MAY 24	9.32	JUL 26	10.30	SEP 28	12.65
WATER YEAR 1995		HIGHEST	8.53	JAN 24, 1995		LOWEST	12.65	SEP 28, 1995			



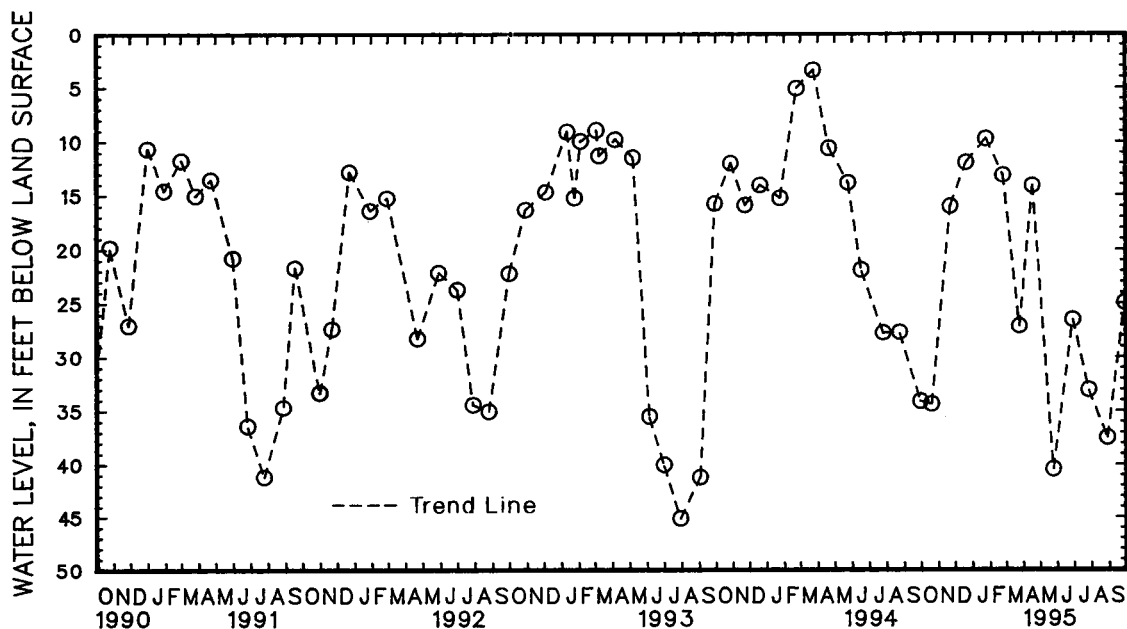
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 4 in., 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 National Geodetic Vertical Datum of 1929.
Measuring point: Top of shelter floor, 3.27 ft above land surface, when shelter removed, measuring point top of metal sleeve, 3.27 ft above land surface.
REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping. Recorder removed on February 1, 1994, due to poor water level response.
PERIOD OF RECORD.--September 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.48 ft above land surface, March 27, 1973; lowest measured, 52.46 ft below land surface, July 24, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	34.59	DEC 20	11.95	FEB 23	13.20	APR 17	14.13	JUN 28	26.54	AUG 28	37.67
NOV 22	16.05	JAN 24	9.75	MAR 24	27.35	MAY 24	40.63	JUL 26	33.21	SEP 28	24.94
WATER YEAR 1995		HIGHEST	9.75	JAN 24, 1995		LOWEST	40.63	MAY 24, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. coupling, 3.7 ft above land surface.

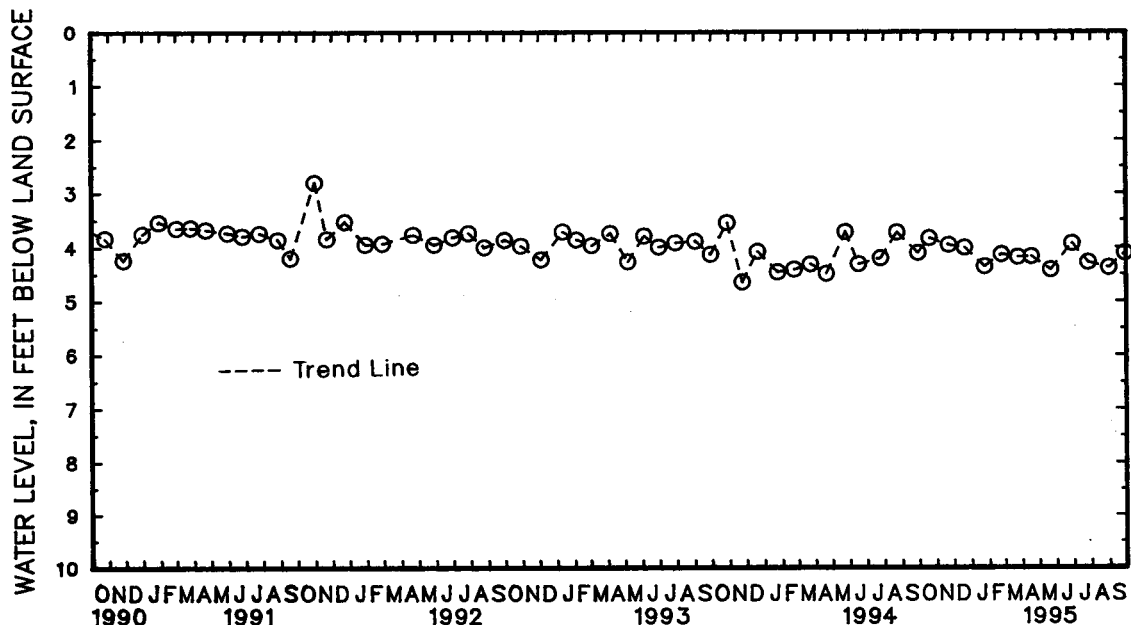
REMARKS.--Ocean City ground-water monitoring network well. Water levels may be affected by nearby pumping.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	3.86	DEC 20	4.04	FEB 23	4.17	APR 17	4.21	JUN 28	3.96	AUG 31	4.42
NOV 22	3.99	JAN 24	4.40	MAR 24	4.22	MAY 21	4.46	JUL 26	4.32	SEP 28	4.14
WATER YEAR 1995		HIGHEST	3.86	OCT 19, 1994		LOWEST	4.46	MAY 21, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. casing, 2.75 ft above land surface.

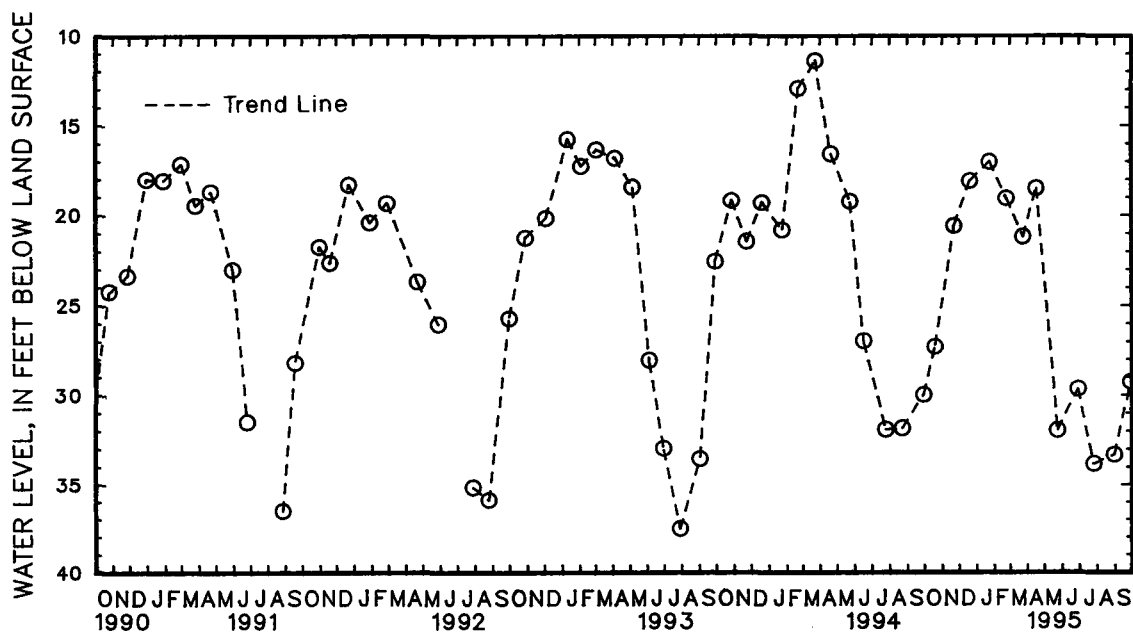
REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	27.33	DEC 20	18.10	FEB 23	19.11	APR 17	18.53	JUN 28	29.74	AUG 31	33.43
NOV 22	20.61	JAN 24	17.03	MAR 24	21.29	MAY 24	32.09	JUL 26	33.95	SEP 28	29.29
WATER YEAR 1995		HIGHEST	17.03	JAN 24, 1995		LOWEST	33.95	JUL 26, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of casing, 0.25 ft above land surface.

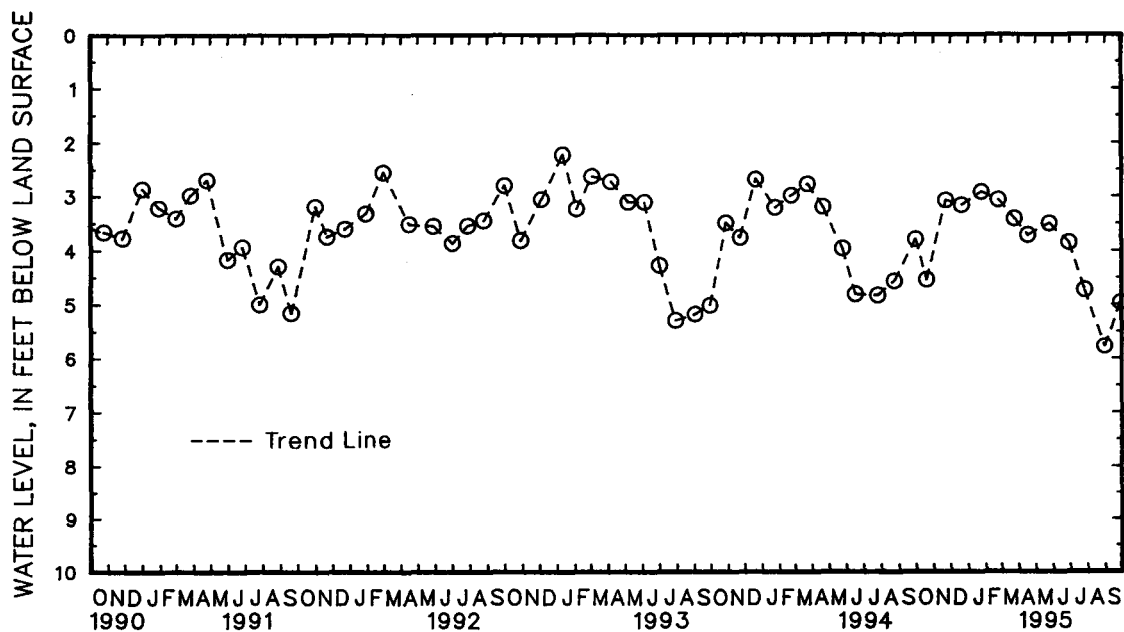
REMARKS.--Maryland Water-Level Network observation well.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	4.58	DEC 20	3.18	FEB 23	3.08	APR 17	3.75	JUN 28	3.89	AUG 30	5.83
NOV 22	3.09	JAN 24	2.94	MAR 24	3.44	MAY 25	3.53	JUL 26	4.77	SEP 28	4.99
WATER YEAR 1995		HIGHEST	2.94	JAN 24, 1995	LOWEST	5.83	AUG 30, 1995				



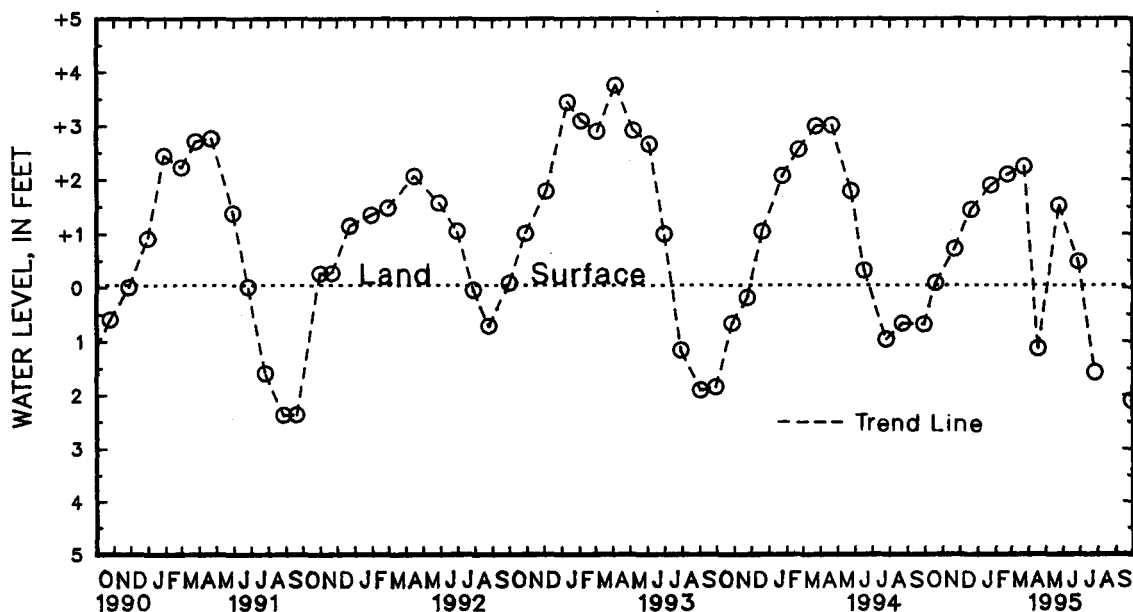
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 7 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of 6 in. casing, 5.94 ft above land surface.
REMARKS.--Ocean City ground-water monitoring network well. Water levels may be affected by nearby pumping.
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, 3.00 ft below land surface, Sept. 5, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 19	+0.06	DEC 20	+1.44	FEB 23	+2.09	APR 17	1.18	JUN 28	+0.46	SEP 28	2.15	
NOV 22	+0.71	JAN 24	+1.89	MAR 24	+2.24	MAY 24	+1.52	JUL 26	1.62			
WATER YEAR 1995		HIGHEST	+2.24	MAR 24, 1995		LOWEST	2.15	SEP 28, 1995				



GROUND-WATER LEVELS

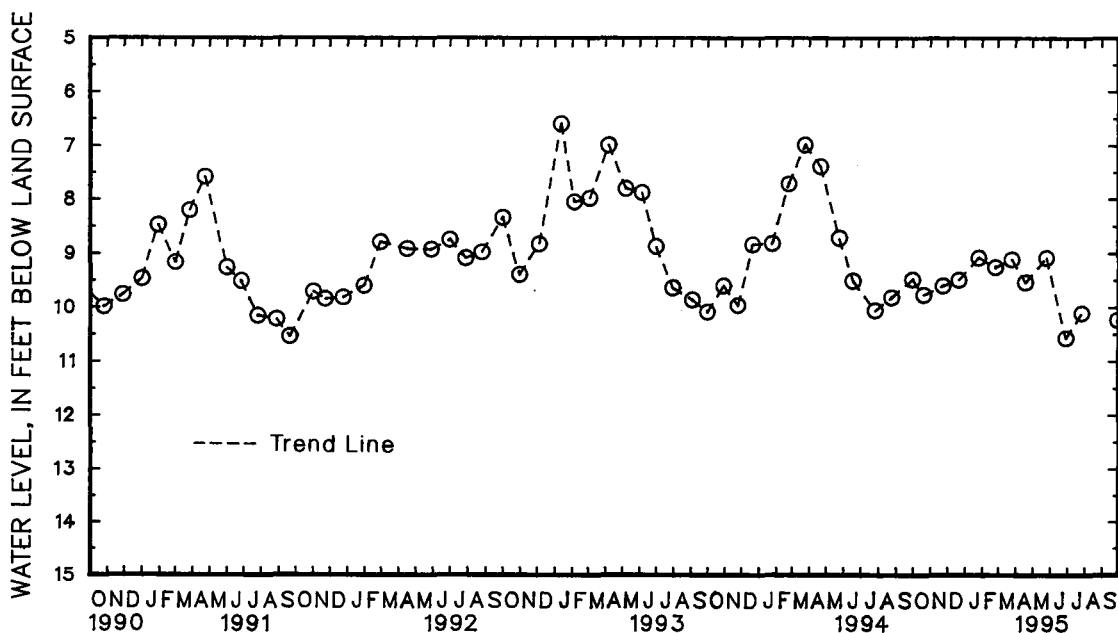
MARYLAND--Continued

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 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 National Geodetic Vertical Datum of 1929, from topographic map.
 Measuring point: Top of 2 in. casing, 1.6 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well.
 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, 10.62 ft below land surface, June 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	9.80	DEC 20	9.52	FEB 23	9.28	APR 17	9.57	JUN 28	10.62	SEP 28	10.27
NOV 22	9.63	JAN 24	9.10	MAR 24	9.13	MAY 24	9.10	JUL 26	10.14		
WATER YEAR 1995		HIGHEST	9.10	JAN 24, 1995		MAY 24, 1995	LOWEST	10.62	JUN 28, 1995		



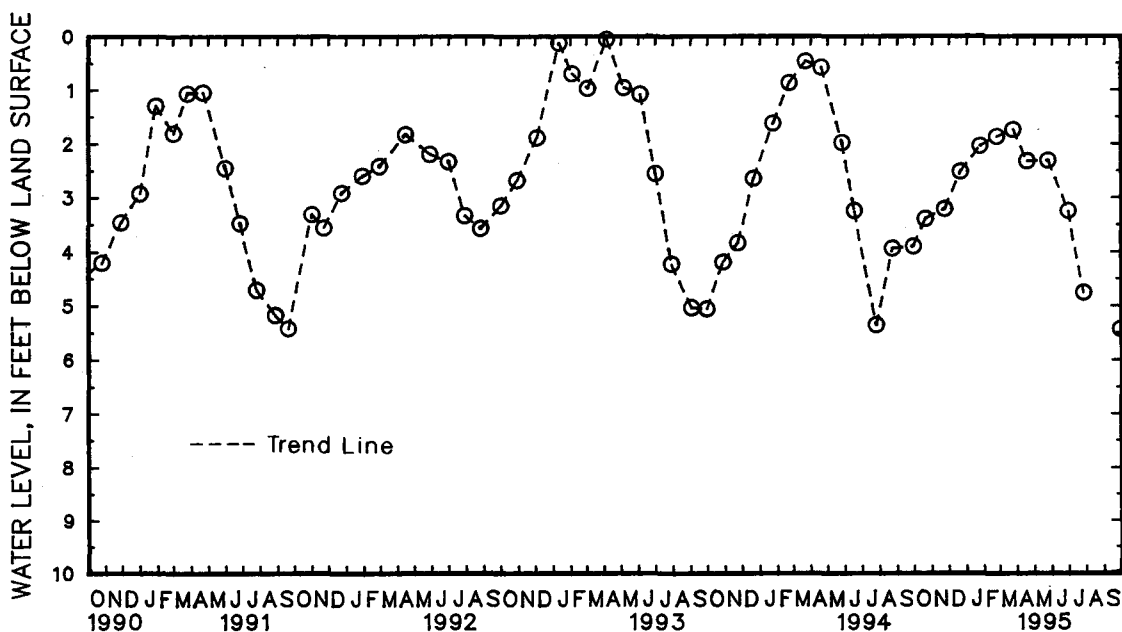
5 YEAR HYDROGRAPH
 OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 53.6 ft; casing diameter 4 in. from 53.6 to 164.2 ft and from 194.5 to 199.5 ft; screen diameter 6 in. from 164.2 to 194.55 ft.
INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 10 ft above National Geodetic Vertical Datum of 1929, 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 maybe affected by nearby pumping.
PERIOD OF RECORD.--October 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.22 ft above land surface, April 27, 1983; lowest measured, 5.74 ft below land surface, Aug. 26, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 19	3.40	DEC 20	2.52	FEB 23	1.87	APR 17	2.33	JUN 28	3.27	SEP 28	5.48	
NOV 22	3.22	JAN 24	2.03	MAR 24	1.74	MAY 24	2.32	JUL 26	4.80			
WATER YEAR 1995		HIGHEST	1.74	MAR 24, 1995		LOWEST	5.48	SEP 28, 1995				



GROUND-WATER LEVELS

MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 47. SITE ID.--382325075063301. 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.--Ocean City aquifer of Upper Miocene age. Aquifer code: 122OCNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 268 ft; casing diameter 4 in., to 258 ft; screen diameter 4 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 National Geodetic Vertical Datum of 1929, 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 affected by nearby pumping.

PERIOD OF RECORD.--September 1975 to current year.

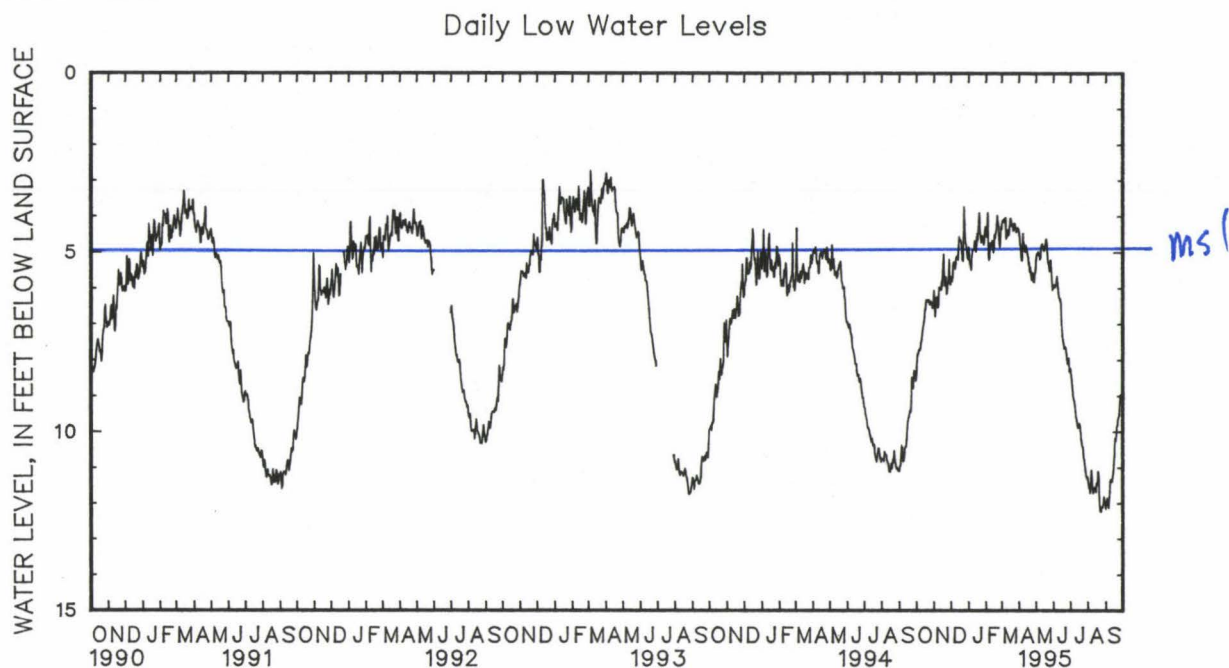
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.67 ft below land surface, March 13 and 14, 1992; lowest measured, 12.72 ft below land surface, Aug. 26, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.40	7.60	6.06	5.22	5.77	4.99	4.85	4.02	4.55	3.92	4.35	3.52
2	8.06	7.26	6.44	5.61	5.68	4.81	5.07	4.26	4.56	3.83	4.13	3.52
3	7.83	7.19	6.79	6.09	5.80	5.06	5.31	4.67	4.31	3.67	4.14	3.55
4	7.85	7.11	6.53	5.66	5.69	4.76	5.32	4.68	3.90	3.15	4.15	3.56
5	7.76	7.01	6.26	5.42	5.30	4.38	5.44	4.93	5.12	3.80	4.07	3.54
6	7.70	6.93	6.24	5.43	5.27	4.58	5.49	5.00	5.22	4.94	4.10	3.40
7	7.72	6.96	6.40	5.73	5.30	4.62	5.13	4.67	5.17	4.65	4.20	3.69
8	7.68	6.87	6.54	5.91	5.46	4.74	4.97	4.56	4.74	3.97	4.04	3.63
9	7.52	6.74	6.50	5.75	5.36	4.77	4.93	4.42	4.80	4.04	4.62	3.88
10	7.45	6.65	5.98	5.09	5.16	4.27	4.92	4.42	4.84	4.45	4.57	4.09
11	7.29	6.48	6.04	5.35	5.11	4.12	4.92	4.26	4.77	3.93	4.56	4.03
12	7.15	6.51	6.04	5.47	5.17	4.71	4.69	4.04	4.68	3.95	4.40	3.85
13	7.06	6.45	5.98	5.46	5.20	4.57	4.84	4.24	4.91	4.40	4.37	3.81
14	6.96	6.28	6.03	5.29	4.94	4.07	4.98	4.31	5.00	4.50	4.51	3.89
15	6.81	5.73	5.79	5.22	4.56	3.90	4.77	3.95	4.88	3.84	4.30	3.70
16	6.57	5.92	5.92	5.05	4.63	3.96	4.49	3.81	4.51	3.87	4.25	3.48
17	6.59	5.86	5.37	4.39	4.69	3.95	4.65	3.93	4.61	4.00	4.06	3.41
18	6.34	5.72	5.05	4.29	4.67	3.92	4.50	3.68	4.50	3.95	4.16	3.47
19	6.31	5.69	5.62	4.79	4.74	4.10	4.18	3.44	4.43	3.91	4.26	3.51
20	6.37	5.72	5.93	5.26	4.93	4.27	3.90	3.08	4.26	3.73	4.22	3.54
21	6.33	5.65	5.75	4.89	5.19	4.60	4.40	3.68	3.96	3.39	4.28	3.51
22	6.34	5.71	5.69	4.86	5.24	4.60	4.59	3.91	4.15	3.33	4.39	3.60
23	6.32	5.62	6.16	5.64	4.73	3.73	4.73	4.15	4.28	3.55	4.29	3.75
24	6.41	5.75	6.14	5.43	3.73	2.86	4.57	4.03	4.63	3.58	4.20	3.63
25	6.45	5.81	5.85	5.30	4.17	3.20	4.54	3.93	4.74	4.12	4.28	3.58
26	6.36	5.78	5.86	5.34	4.60	3.79	4.66	3.94	4.86	4.08	4.33	3.69
27	6.40	5.77	5.71	4.80	4.76	4.02	4.69	4.04	4.54	3.80	4.43	3.79
28	6.40	5.85	5.18	4.53	4.84	4.09	4.79	4.04	4.29	3.60	4.35	3.76
29	6.54	6.04	5.79	4.90	4.99	4.28	4.63	3.76	---	---	4.33	3.75
30	6.55	5.98	5.90	5.27	5.14	4.47	4.38	3.55	---	---	4.32	3.71
31	6.43	5.62	---	---	5.20	4.25	4.29	3.60	---	---	4.37	3.74
MONTH	8.40	5.62	6.79	4.29	5.80	2.86	5.49	3.08	5.22	3.15	4.62	3.40

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bg 47--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.43	3.79	5.20	4.43	6.00	5.34	8.26	7.67	11.32	10.72	12.16	11.41
2	4.57	3.81	5.04	4.35	5.90	5.33	8.41	7.68	11.45	10.85	12.01	11.27
3	4.78	4.01	5.08	4.31	5.93	5.27	8.57	7.82	11.58	10.96	11.87	11.12
4	4.94	4.16	5.08	4.51	5.97	5.33	8.73	8.08	11.60	10.97	11.99	11.27
5	5.13	4.42	4.99	4.45	5.94	5.41	8.88	8.26	11.73	10.90	12.09	11.34
6	5.22	4.75	5.06	4.42	5.88	5.35	9.06	8.49	11.45	10.51	12.14	11.30
7	4.96	4.31	5.08	4.48	5.66	5.05	9.13	8.47	11.07	10.18	11.88	11.08
8	4.48	4.03	5.20	4.63	5.86	5.17	9.16	8.45	11.27	10.49	11.71	10.90
9	4.72	3.98	5.16	4.30	5.98	5.34	9.26	8.55	11.60	10.83	11.38	10.59
10	4.83	4.31	4.87	4.28	6.14	5.38	9.44	8.68	11.72	10.90	11.34	10.64
11	4.97	4.44	4.79	4.00	6.26	5.45	9.60	8.76	11.62	10.85	11.41	10.75
12	4.99	4.37	4.77	4.07	6.34	5.46	9.67	8.83	11.57	10.85	11.40	10.76
13	4.81	4.20	4.87	4.07	6.30	5.40	9.76	8.88	11.63	10.88	11.30	10.66
14	4.86	4.22	4.85	4.01	6.42	5.43	9.89	9.02	11.65	10.99	11.17	10.54
15	4.97	4.25	4.94	4.08	6.88	5.68	9.90	9.15	11.69	11.03	10.92	10.22
16	5.09	4.32	4.95	4.08	7.17	6.16	9.82	9.16	11.45	10.82	10.69	9.93
17	5.13	4.37	4.83	4.08	7.33	6.55	9.78	9.12	11.50	10.91	10.19	9.67
18	5.33	4.40	4.76	4.03	7.44	6.77	9.84	9.22	11.44	10.80	10.26	9.73
19	5.29	4.58	4.64	3.98	7.53	6.94	10.02	9.45	11.12	10.47	10.13	9.44
20	5.55	4.60	4.75	3.91	7.69	7.11	10.23	9.65	11.30	10.70	9.86	9.15
21	5.42	4.88	5.02	4.14	7.65	6.92	10.31	9.68	11.85	11.27	9.82	9.15
22	5.54	4.79	5.26	4.53	7.64	7.02	10.42	9.76	12.22	11.55	9.66	8.96
23	5.77	5.08	5.34	4.82	7.70	7.04	10.44	9.79	12.11	11.45	9.60	8.99
24	5.77	4.91	5.38	4.86	7.81	7.14	10.64	9.97	12.24	11.63	9.54	8.71
25	5.58	5.00	5.52	4.83	8.00	7.32	10.78	10.09	12.14	11.47	9.24	8.52
26	5.79	5.24	5.23	4.47	8.11	7.42	10.88	10.23	12.13	11.52	9.05	8.37
27	5.83	5.13	5.22	4.60	8.00	7.11	11.02	10.34	12.11	11.49	8.97	8.28
28	5.67	4.98	5.43	4.78	7.96	7.15	11.11	10.40	12.00	11.21	9.15	8.56
29	5.59	4.89	5.70	4.92	8.32	7.40	11.24	10.46	11.83	11.18	9.04	8.26
30	5.50	4.64	6.06	5.19	8.34	7.67	11.30	10.67	11.95	11.30	8.78	7.97
31	---	---	6.03	5.34	---	---	11.27	10.71	12.07	11.44	---	---
MONTH	5.83	3.79	6.06	3.91	8.34	5.05	11.30	7.67	12.24	10.18	12.16	7.97
YEAR	12.24	2.86										



GROUND-WATER LEVELS

MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg. 48. SITE ID.--382325075063302. 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.--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 4 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 National Geodetic Vertical Datum of 1929, 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 affected by nearby pumping.

Missing data due to recorder malfunctions.

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.59 ft below land surface, March 13 and 14, 1993; lowest measured, 13.68 ft below land surface, Sept. 6, 1995.

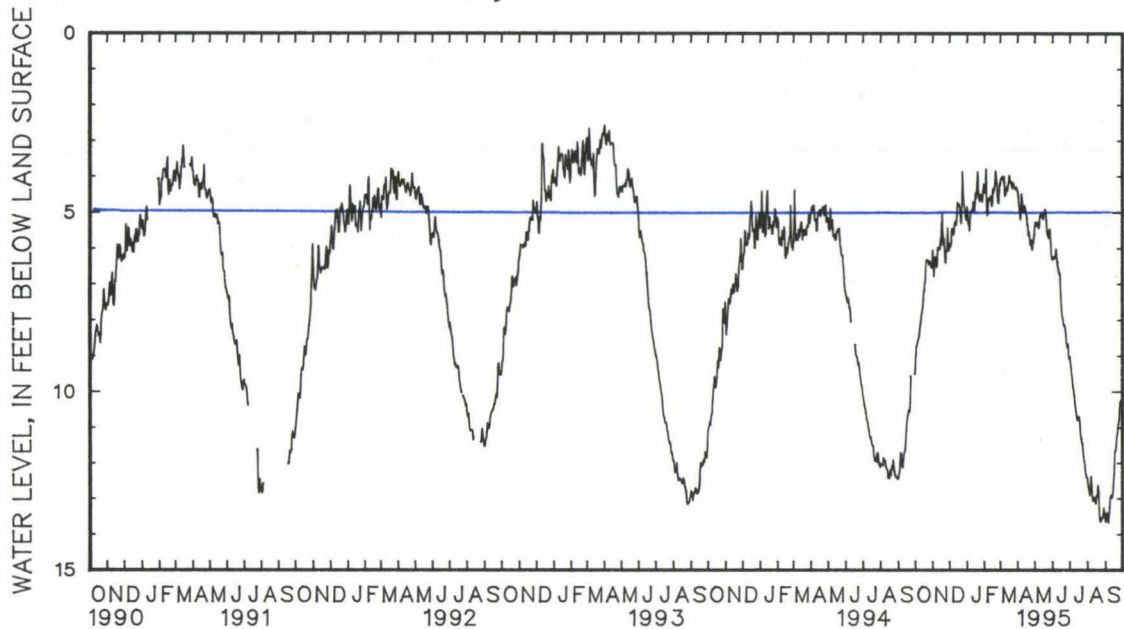
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.36	8.63	6.05	5.21	5.97	5.31	4.84	4.13	4.43	3.90	4.23	3.54
2	8.99	8.27	6.43	5.60	5.87	5.14	5.02	4.33	4.45	3.82	4.05	3.54
3	8.73	8.20	6.78	6.08	5.95	5.35	5.32	4.74	4.25	3.66	4.07	3.57
4	8.71	8.09	6.52	5.65	5.85	5.07	5.32	4.78	3.79	3.15	4.07	3.58
5	8.61	7.97	6.25	5.41	5.48	4.70	5.51	5.00	4.96	3.55	4.00	3.52
6	8.53	7.88	6.23	5.42	5.45	4.84	5.49	5.06	5.09	4.84	4.01	3.42
7	8.51	7.87	6.39	5.72	5.46	4.86	5.11	4.71	5.04	4.57	4.15	3.67
8	8.43	7.39	6.53	5.90	5.62	5.01	4.98	4.64	4.60	3.89	4.01	3.66
9	8.25	7.49	6.49	5.74	5.53	5.00	4.94	4.51	4.62	3.96	4.55	3.85
10	8.14	6.98	5.97	5.08	5.31	4.53	4.93	4.52	4.65	4.33	4.51	4.12
11	8.00	6.98	6.03	5.34	5.25	4.34	4.93	4.38	4.59	3.85	4.49	4.04
12	7.85	7.30	6.03	5.46	5.33	4.91	4.70	4.14	4.54	3.87	4.34	3.87
13	7.75	7.22	5.97	5.45	5.35	4.78	4.84	4.32	4.72	4.33	4.29	3.81
14	7.63	7.03	6.01	5.27	5.09	4.32	4.95	4.40	4.82	4.42	4.39	3.90
15	7.46	6.49	5.77	5.20	4.72	4.14	4.74	4.03	4.72	3.77	4.24	3.72
16	7.19	6.64	5.90	5.03	4.77	4.20	4.46	3.87	4.35	3.80	4.18	3.51
17	7.20	6.56	5.35	4.37	4.81	4.17	4.59	4.01	4.45	3.95	3.98	3.44
18	6.97	5.96	5.03	4.27	4.77	4.13	4.50	3.77	4.38	3.90	4.08	3.51
19	6.91	5.69	5.60	4.77	4.84	4.30	4.19	3.51	4.30	3.86	4.18	3.54
20	6.37	5.72	5.91	5.24	5.03	4.50	3.87	3.16	4.13	3.63	4.14	3.56
21	6.33	5.65	5.73	4.87	5.28	4.78	4.39	3.71	3.85	3.34	4.22	3.52
22	6.34	5.71	5.95	4.87	5.31	4.70	4.57	3.97	4.05	3.33	4.33	3.63
23	6.32	5.62	6.39	5.94	4.80	3.86	4.69	4.22	4.19	3.54	4.25	3.79
24	6.41	5.75	6.41	5.79	3.86	3.06	4.53	4.08	4.54	3.57	4.18	3.68
25	6.45	5.81	6.08	5.63	4.27	3.37	4.50	3.99	4.68	4.11	4.23	3.64
26	6.36	5.78	6.08	5.66	4.67	3.94	4.60	3.97	4.74	4.08	4.29	3.73
27	6.40	5.77	5.93	5.13	4.80	4.19	4.62	4.08	4.45	3.78	4.35	3.83
28	6.39	5.84	5.41	4.83	4.89	4.24	4.70	4.07	4.20	3.60	4.31	3.81
29	6.53	6.03	5.98	5.17	5.06	4.42	4.54	3.82	---	---	4.31	3.82
30	6.54	5.97	6.07	5.56	5.17	4.62	4.31	3.58	---	---	4.30	3.79
31	6.42	5.61	---	---	5.22	4.42	4.21	3.62	---	---	4.37	3.84
MONTH	9.36	5.61	6.78	4.27	5.97	3.06	5.51	3.16	5.09	3.15	4.55	3.42

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bg 48--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.42	3.88	5.41	4.76	6.33	5.75	9.04	8.52	12.46	11.94	13.65	13.02
2	4.52	3.89	5.28	4.71	6.25	5.78	9.19	8.54	12.62	12.09	13.52	12.91
3	4.73	4.07	5.37	4.68	6.24	5.73	9.34	8.70	12.76	12.24	13.40	12.78
4	4.90	4.21	5.38	4.89	6.29	5.75	9.51	8.96	12.79	12.25	13.52	12.91
5	5.12	4.49	5.28	4.83	6.26	5.81	9.65	9.13	12.92	12.23	13.61	12.97
6	5.20	4.80	5.33	4.80	6.21	5.77	9.83	9.33	12.71	11.89	13.68	12.96
7	4.95	4.38	5.31	4.84	6.02	5.52	9.92	9.36	12.38	11.64	13.43	12.77
8	4.49	4.11	5.44	4.93	6.27	5.63	9.97	9.37	12.62	11.96	13.27	12.60
9	4.67	4.02	5.40	4.67	6.40	5.86	10.10	9.46	12.95	12.28	12.99	12.27
10	4.85	4.35	5.12	4.63	6.53	5.88	10.29	9.62	13.08	12.41	12.91	12.32
11	4.98	4.53	5.06	4.38	6.61	5.92	10.45	9.76	13.03	12.39	12.98	12.43
12	5.00	4.47	5.03	4.45	6.71	5.95	10.56	9.86	12.98	12.39	12.98	12.45
13	4.82	4.33	5.13	4.45	6.70	5.93	10.67	9.91	13.05	12.43	12.90	12.34
14	4.88	4.35	5.05	4.33	6.86	5.98	10.79	10.04	13.09	12.55	12.73	12.16
15	4.96	4.36	5.15	4.43	7.31	6.23	10.81	10.20	13.14	12.60	12.44	11.83
16	5.06	4.43	5.19	4.44	7.62	6.74	10.74	10.21	12.93	12.38	12.14	11.48
17	5.15	4.46	5.07	4.44	7.80	7.11	10.70	10.17	12.95	12.45	11.65	11.14
18	5.35	4.53	5.02	4.40	7.91	7.32	10.80	10.26	12.92	12.35	11.67	11.21
19	5.34	4.71	4.92	4.35	7.99	7.48	11.00	10.49	12.64	12.05	11.57	10.96
20	5.63	4.77	4.99	4.29	8.16	7.66	11.23	10.74	12.81	12.23	11.30	10.67
21	5.55	5.07	5.22	4.47	8.14	7.55	11.32	10.80	13.27	12.78	11.19	10.63
22	5.67	5.01	5.53	4.82	8.18	7.67	11.45	10.89	13.63	13.06	11.02	10.37
23	5.89	5.30	5.63	5.17	8.27	7.74	11.46	10.92	13.53	12.98	10.89	10.36
24	5.89	5.16	5.60	5.15	8.41	7.86	11.67	11.11	13.64	13.13	10.81	10.05
25	5.78	5.28	5.72	5.14	8.62	8.06	11.81	11.26	13.58	13.01	10.49	9.82
26	6.01	5.56	5.49	4.83	8.77	8.19	11.93	11.40	13.56	13.03	10.31	9.74
27	6.05	5.45	5.47	4.93	8.71	7.94	12.07	11.51	13.53	13.01	10.24	9.66
28	5.87	5.29	5.63	5.10	8.69	7.99	12.18	11.59	13.43	12.75	10.38	9.82
29	5.78	5.18	5.85	5.21	9.06	8.24	12.32	11.66	13.26	12.74	10.23	9.52
30	5.67	4.92	6.23	5.47	9.10	8.51	12.41	11.85	13.40	12.85	9.93	9.23
31	---	---	6.31	5.70	---	---	12.40	11.92	13.55	13.02	---	---
MONTH	6.05	3.88	6.31	4.29	9.10	5.52	12.41	8.52	13.64	11.64	13.68	9.23
YEAR	13.68	3.06										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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°08'59", 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: 122OCNC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 243 ft; casing diameter 4 in., to 233 ft; screen diameter 4 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 National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of recorder shelf, 2.12 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network. Water levels affected by nearby pumping.
 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.

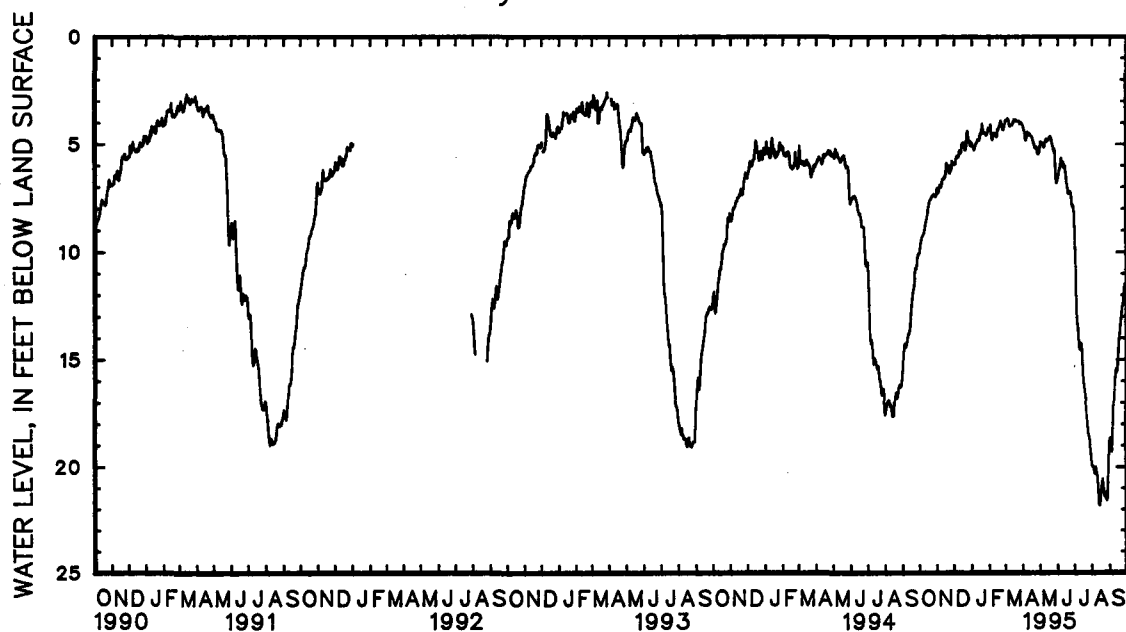
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.04	9.82	7.08	6.74	5.94	5.84	4.93	4.76	4.38	4.23	4.02	3.86
2	9.82	9.59	7.21	6.84	5.91	5.76	5.01	4.75	4.39	4.25	3.90	3.81
3	9.59	9.41	7.26	7.18	5.94	5.83	5.08	4.99	4.34	4.11	3.80	3.82
4	9.45	9.30	7.23	7.00	5.91	5.67	5.12	4.99	4.11	3.83	3.90	3.82
5	9.34	9.22	7.02	6.84	5.68	5.46	5.22	5.10	4.50	3.89	3.86	3.76
6	9.27	9.15	6.92	6.77	5.58	5.47	5.29	5.20	4.76	4.50	3.81	3.72
7	9.22	9.09	6.97	6.85	5.56	5.43	5.21	5.07	4.80	4.69	3.91	3.80
8	9.18	9.00	7.00	6.91	5.61	5.50	5.08	4.96	4.72	4.40	3.88	3.80
9	9.07	8.86	7.00	6.83	5.61	5.52	4.99	4.91	4.52	4.35	4.14	3.79
10	8.93	8.74	6.83	6.54	5.53	5.22	4.97	4.88	4.58	4.52	4.15	4.07
11	8.78	8.59	6.63	6.50	5.32	5.09	4.92	4.81	4.55	4.34	4.17	4.09
12	8.64	8.52	6.63	6.53	5.44	5.30	4.81	4.67	4.48	4.26	4.12	4.04
13	8.53	8.37	6.63	6.51	5.43	5.28	4.82	4.71	4.58	4.48	4.11	4.00
14	8.38	8.21	6.61	6.47	5.30	5.01	4.84	4.77	4.67	4.58	4.11	4.00
15	8.22	7.84	6.50	6.37	5.02	4.88	4.79	4.51	4.66	4.22	4.02	3.89
16	7.97	7.81	6.51	6.26	5.00	4.89	4.55	4.44	4.30	4.22	3.95	3.81
17	7.93	7.76	6.26	5.81	4.98	4.85	4.57	4.47	4.36	4.26	3.86	3.75
18	7.77	7.64	5.90	5.69	4.93	4.79	4.52	4.33	4.29	4.20	3.86	3.75
19	7.66	7.56	6.08	5.75	4.97	4.86	4.33	4.06	4.21	4.13	3.93	3.80
20	7.61	7.51	6.23	6.08	5.18	4.97	4.06	3.85	4.13	3.99	3.88	3.78
21	7.55	7.42	6.18	5.82	5.25	5.18	4.27	3.98	3.99	3.78	3.91	3.75
22	7.50	7.42	6.01	5.82	5.29	5.14	4.45	4.24	3.92	3.75	3.93	3.77
23	7.45	7.31	6.31	6.01	5.14	4.62	4.51	4.40	3.96	3.84	3.94	3.86
24	7.42	7.31	6.36	6.23	4.62	4.13	4.50	4.41	4.15	3.85	3.92	3.81
25	7.38	7.32	6.25	6.13	4.40	4.12	4.47	4.36	4.31	4.14	3.91	3.80
26	7.34	7.24	6.22	6.15	4.64	4.39	4.53	4.37	4.33	4.23	3.96	3.85
27	7.37	7.23	6.17	5.81	4.80	4.61	4.57	4.45	4.25	4.09	4.05	3.90
28	7.37	7.27	5.81	5.53	4.82	4.69	4.60	4.47	4.10	3.97	4.05	3.90
29	7.44	7.33	5.91	5.62	4.99	4.79	4.53	4.38	---	---	3.99	3.90
30	7.44	7.30	5.93	5.87	5.06	4.93	4.41	4.17	---	---	4.00	3.90
31	7.37	7.08	---	---	5.09	4.93	4.25	4.17	---	---	4.04	3.90
MONTH	10.04	7.08	7.26	5.53	5.94	4.12	5.29	3.85	4.80	3.75	4.17	3.72

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bg 49--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.11	3.98	5.14	4.92	6.66	6.48	8.92	8.23	19.93	19.65	18.77	18.53
2	4.17	4.04	4.92	4.78	6.55	6.33	9.96	8.92	20.06	19.88	18.69	18.51
3	4.33	4.13	4.95	4.76	6.38	6.20	10.99	9.96	20.11	19.93	18.89	18.67
4	4.37	4.22	5.03	4.88	6.25	6.13	12.29	10.99	20.11	19.94	19.33	18.89
5	4.52	4.31	4.97	4.87	6.16	6.01	13.15	12.29	20.28	20.03	19.33	18.86
6	4.83	4.51	5.05	4.86	6.03	5.71	13.46	13.14	20.41	20.15	18.87	18.08
7	4.84	4.70	5.07	4.93	5.71	5.56	13.66	13.43	20.26	19.96	18.08	17.28
8	4.70	4.46	5.16	4.98	5.71	5.55	14.02	13.66	20.11	19.96	17.28	16.74
9	4.46	4.34	5.13	4.97	5.85	5.71	14.39	14.02	20.32	20.00	16.74	16.04
10	4.47	4.39	4.97	4.85	5.91	5.76	14.65	14.36	20.43	20.20	16.04	15.74
11	4.58	4.45	4.87	4.71	5.87	5.76	14.45	14.26	20.59	20.29	15.75	15.38
12	4.60	4.49	4.79	4.70	6.14	5.86	14.38	14.24	21.04	20.49	15.43	15.22
13	4.51	4.42	4.90	4.73	6.03	5.88	14.40	14.25	21.75	21.04	15.57	15.41
14	4.57	4.45	4.85	4.62	6.05	5.88	14.66	14.29	21.88	21.66	15.51	15.19
15	4.61	4.47	4.79	4.62	6.36	5.96	15.25	14.65	21.88	21.58	15.19	14.68
16	4.65	4.50	4.83	4.65	6.58	6.26	15.91	15.24	21.64	21.22	14.68	14.13
17	4.68	4.53	4.73	4.58	6.74	6.52	16.19	15.88	21.26	20.89	14.13	13.89
18	4.71	4.53	4.68	4.56	6.93	6.67	16.43	16.17	21.08	20.74	13.90	13.68
19	4.82	4.60	4.65	4.54	7.16	6.87	16.56	16.34	20.79	20.45	13.68	13.32
20	4.98	4.68	4.68	4.56	7.35	7.13	16.75	16.48	20.63	20.52	13.32	12.99
21	4.97	4.83	4.78	4.60	7.36	7.15	17.02	16.75	21.01	20.63	13.04	12.80
22	5.17	4.84	4.96	4.74	7.27	7.13	17.40	17.02	21.27	21.01	12.80	12.53
23	5.21	5.08	5.06	4.93	7.27	7.14	17.80	17.40	21.43	21.22	12.54	12.40
24	5.20	4.97	5.19	5.02	7.31	7.16	18.12	17.80	21.29	21.19	12.43	12.09
25	5.16	5.00	5.34	5.16	7.48	7.23	18.37	18.12	21.34	21.25	12.09	11.76
26	5.32	5.16	5.26	5.10	7.83	7.40	18.59	18.37	21.55	21.25	11.77	11.52
27	5.48	5.32	5.31	5.10	7.94	7.71	18.69	18.56	21.64	21.54	11.53	11.41
28	5.44	5.33	5.93	5.31	7.91	7.70	18.73	18.57	21.54	20.84	11.52	11.36
29	5.48	5.31	6.59	5.93	8.08	7.77	19.05	18.68	20.84	20.14	11.41	11.13
30	5.35	5.04	6.84	6.59	8.23	8.04	19.42	19.05	20.14	19.32	11.20	10.95
31	---	---	6.79	6.65	---	---	19.69	19.41	19.32	18.77	---	---
MONTH	5.48	3.98	6.84	4.54	8.23	5.55	19.69	8.23	21.88	18.77	19.33	10.95
YEAR	21.88	3.72										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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: 122OCNC.
 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder shelf, 3.44 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping. 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, 51.03 ft below land surface, July 27, 1986.

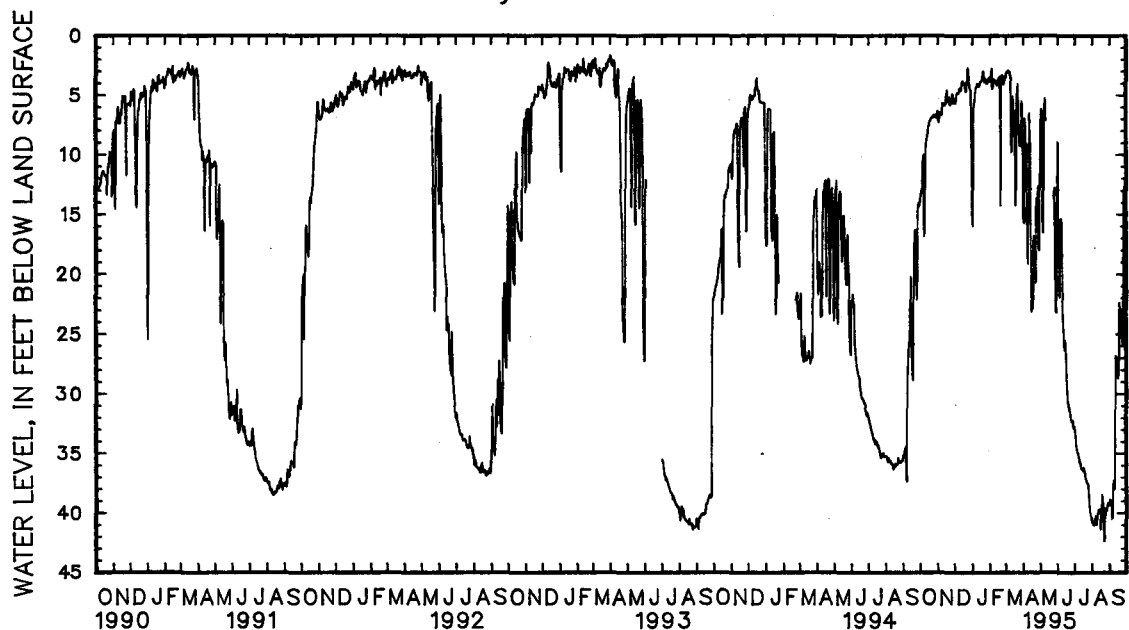
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.00	12.82	6.31	4.93	5.45	4.06	15.51	12.43	3.84	2.67	3.44	1.99
2	13.63	12.33	7.07	5.33	5.39	3.89	16.03	6.57	3.75	2.44	3.04	1.91
3	13.30	10.97	7.26	5.91	5.67	4.17	7.18	5.17	3.35	2.21	3.08	2.01
4	13.22	9.85	6.88	5.32	5.42	3.80	5.99	4.61	2.80	1.65	3.03	1.98
5	10.82	9.26	6.54	5.05	4.97	3.40	5.62	4.54	4.19	2.03	2.92	1.88
6	10.30	8.87	6.45	5.05	4.83	3.61	5.47	4.37	4.46	3.79	2.96	1.89
7	10.04	8.65	6.62	5.28	4.84	3.67	4.81	3.96	4.25	3.57	3.12	2.21
8	16.90	8.37	6.70	5.55	4.83	3.75	4.45	3.77	3.70	3.69	3.05	2.28
9	16.57	10.21	6.58	5.36	4.82	3.87	4.33	3.57	3.92	3.16	3.52	2.41
10	10.47	8.80	5.66	4.57	4.45	3.36	4.22	3.48	3.87	3.28	3.56	2.74
11	9.33	8.04	5.88	4.89	4.48	3.14	4.07	3.31	3.79	2.62	9.84	2.78
12	8.86	7.81	5.78	4.97	4.61	3.72	4.03	2.99	3.93	2.47	8.16	5.79
13	8.54	7.54	5.82	4.94	4.56	3.62	4.26	3.20	4.05	3.05	8.45	4.71
14	8.24	7.18	5.81	4.73	4.23	3.08	4.26	3.24	4.16	3.18	5.07	3.39
15	7.96	6.39	5.63	4.59	3.83	2.79	4.09	2.83	3.97	2.37	7.47	2.98
16	7.56	6.60	5.66	4.35	3.89	2.88	3.85	2.64	3.59	2.48	7.79	3.62
17	7.54	6.38	4.96	3.59	4.01	2.89	3.85	2.62	3.68	2.51	6.33	3.02
18	7.19	6.19	4.57	3.46	3.97	2.81	3.67	2.35	3.53	2.44	12.42	6.33
19	7.11	6.04	5.18	4.05	4.03	2.98	3.25	2.11	3.42	2.29	14.29	8.15
20	7.05	5.99	5.56	4.46	4.30	3.24	3.00	1.72	14.37	2.30	9.32	4.05
21	6.93	5.85	5.35	4.15	4.63	3.62	3.53	2.54	3.85	2.50	4.88	3.35
22	6.88	5.88	5.17	4.04	4.68	3.48	3.74	2.60	3.34	2.30	6.12	3.30
23	6.80	5.75	5.82	4.91	3.99	2.33	3.90	2.92	3.44	2.13	4.01	3.21
24	6.83	5.85	5.78	4.74	2.71	1.68	3.68	2.78	3.78	2.13	7.57	2.78
25	6.82	5.85	5.52	4.68	3.32	2.03	3.73	2.61	4.08	2.77	8.70	6.97
26	6.64	5.79	5.51	4.68	3.80	2.62	3.89	2.63	4.08	2.72	9.27	7.82
27	6.67	5.74	5.11	4.11	4.00	2.85	4.03	2.77	3.58	2.35	9.27	5.03
28	6.67	5.86	4.90	3.76	4.20	2.92	4.02	2.77	3.36	2.12	9.10	7.93
29	6.86	6.07	5.66	4.09	4.55	3.10	3.86	2.37	---	---	9.29	4.96
30	6.87	5.93	5.65	4.45	4.62	3.26	3.57	2.13	---	---	5.51	3.59
31	6.71	5.47	---	---	12.43	3.06	3.48	2.18	---	---	6.99	3.46
MONTH	16.90	5.47	7.26	3.46	12.43	1.68	16.03	1.72	14.37	1.65	14.29	1.88

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bh 31--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.92	6.99	8.89	5.94	8.90	7.18	32.79	31.89	40.60	39.42	39.12	38.02
2	15.68	9.17	6.60	5.41	13.68	7.15	33.13	32.02	40.85	39.72	38.89	37.83
3	15.78	6.85	6.14	4.92	18.52	13.26	33.76	32.42	40.82	39.78	39.13	37.89
4	6.98	4.89	8.13	4.93	21.97	17.91	34.41	33.04	41.01	39.92	39.24	38.10
5	9.14	4.89	15.59	8.13	17.91	15.78	34.73	33.55	41.04	40.01	40.53	38.21
6	9.44	5.97	16.63	10.95	16.00	15.04	35.02	33.88	40.97	39.70	40.42	30.48
7	9.21	8.64	11.52	6.55	15.37	14.20	35.02	34.01	40.30	39.11	38.36	29.40
8	17.40	8.46	6.68	5.36	15.72	14.63	35.25	33.81	40.59	34.99	37.30	27.80
9	19.25	7.29	5.81	4.76	21.48	14.75	35.46	33.90	40.98	39.76	37.53	28.65
10	15.39	5.79	5.20	4.05	23.41	15.87	35.77	34.24	40.94	39.09	37.99	29.16
11	15.41	6.22	7.11	3.64	24.51	22.78	35.85	34.59	40.05	38.71	34.41	26.46
12	6.51	4.64	---	---	26.05	23.56	36.05	34.65	39.74	38.44	26.84	20.13
13	8.93	4.18	---	---	26.37	19.51	36.33	34.80	39.86	38.48	26.89	18.56
14	13.97	7.99	---	---	25.61	23.55	36.37	35.03	39.82	38.55	28.38	19.57
15	21.83	7.71	---	---	26.52	24.95	36.39	35.13	39.70	38.51	28.43	20.70
16	23.17	10.64	---	---	27.97	25.59	36.50	35.10	40.55	37.43	28.68	27.83
17	21.98	12.32	---	---	29.48	27.39	36.26	35.44	41.51	38.17	28.33	21.07
18	22.99	16.13	---	---	30.40	28.72	36.48	35.35	40.17	37.57	26.60	17.90
19	17.34	15.68	---	---	30.86	29.54	36.70	35.78	38.43	37.54	22.36	15.20
20	16.84	15.68	---	---	31.25	28.41	37.01	35.94	39.02	37.67	23.31	14.23
21	18.73	11.47	---	---	31.21	28.20	37.22	36.14	39.55	38.24	22.93	13.71
22	20.22	15.79	---	---	31.37	30.34	37.40	36.21	39.70	38.77	23.87	15.08
23	20.76	14.83	---	---	31.52	30.42	37.51	36.30	42.36	38.72	25.42	18.77
24	14.83	12.50	---	---	31.79	30.63	37.55	36.62	42.37	38.85	25.86	19.54
25	13.63	10.97	13.56	6.60	32.21	31.23	37.71	36.77	39.63	38.54	19.54	13.49
26	15.73	8.65	12.84	6.38	32.34	31.32	38.57	36.92	39.70	38.61	14.10	12.08
27	12.63	11.50	20.31	10.90	32.31	31.03	39.46	38.20	39.79	38.68	12.88	11.55
28	17.84	11.53	21.98	20.31	32.31	30.82	39.84	38.72	39.44	38.34	12.48	11.13
29	18.02	11.38	23.15	17.38	32.88	31.75	40.17	39.10	39.18	37.99	11.88	10.53
30	12.38	8.89	23.28	12.36	32.91	31.91	40.39	39.38	39.32	38.11	11.21	9.98
31	---	---	12.36	8.35	---	---	40.49	39.40	39.35	38.20	---	---
MONTH	23.17	4.18	23.28	3.64	32.91	7.15	40.49	31.89	42.37	34.99	40.53	9.98
YEAR	42.37	1.65										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 2.5 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 National Geodetic Vertical Datum of 1929, 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 affected by nearby pumping.

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.

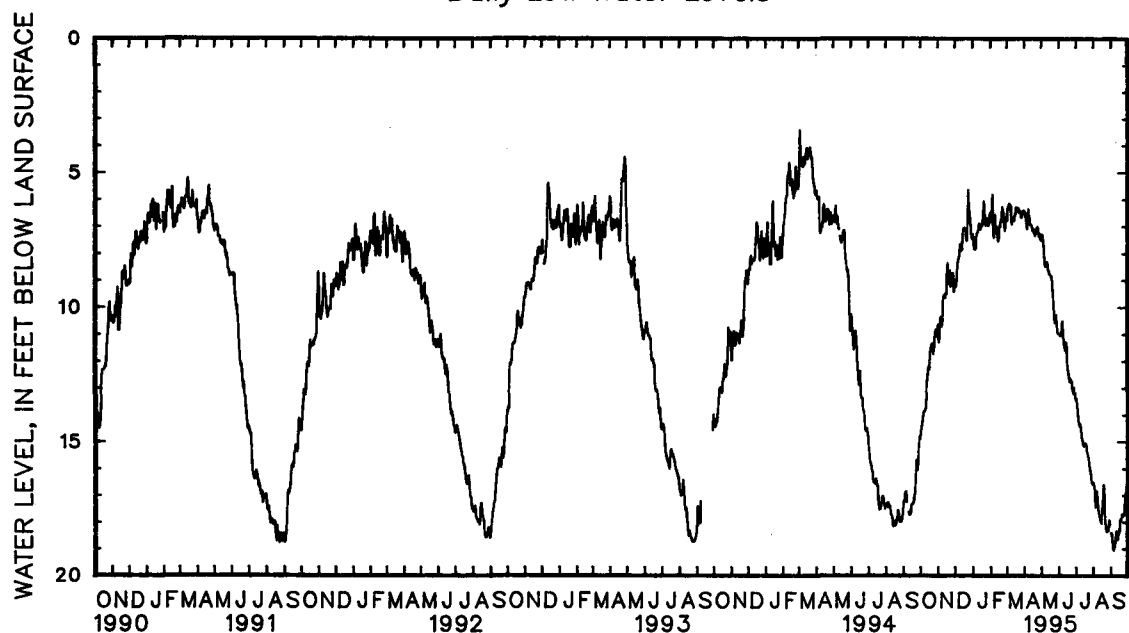
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.74	13.71	10.64	9.31	9.12	7.78	7.30	5.94	6.82	5.73	6.77	5.35
2	14.52	13.45	11.13	9.63	8.98	7.54	7.55	6.24	6.75	5.49	6.32	5.31
3	14.41	13.30	11.30	9.96	9.25	7.85	7.84	6.63	6.30	5.28	6.27	5.26
4	14.26	13.01	10.80	9.36	9.03	7.49	7.74	6.63	5.78	4.77	6.20	5.30
5	14.08	12.77	10.42	9.04	8.56	7.10	7.83	6.95	7.13	5.17	6.15	5.27
6	13.90	12.59	10.35	9.08	8.30	7.13	7.85	6.96	7.42	6.69	6.26	5.27
7	13.86	12.55	10.62	9.41	8.21	7.12	7.40	6.74	7.24	6.55	6.39	5.62
8	13.85	12.56	10.69	9.66	8.13	7.17	7.26	6.61	6.55	5.90	6.22	5.67
9	13.79	12.67	10.52	9.41	7.99	7.15	7.22	6.55	7.04	6.05	6.82	5.86
10	13.72	12.56	9.60	8.59	7.64	6.67	7.17	6.54	7.02	6.52	6.93	6.21
11	13.37	12.23	9.60	8.76	7.70	6.43	7.07	6.40	7.00	6.01	6.75	6.28
12	12.94	12.03	9.52	8.81	7.89	7.07	6.88	6.01	7.23	5.92	6.66	6.00
13	12.72	11.81	9.65	8.83	7.86	7.06	7.10	6.16	7.41	6.48	6.78	5.87
14	12.47	11.52	9.64	8.71	7.57	6.54	7.10	6.23	7.55	6.69	6.78	5.86
15	12.19	10.94	9.47	8.61	7.12	6.20	7.00	5.91	7.39	5.90	6.56	5.65
16	12.28	11.20	9.50	8.28	7.05	6.11	6.91	5.83	7.00	5.98	6.52	5.32
17	12.30	11.11	8.75	7.47	7.09	6.07	6.95	5.89	7.02	5.92	6.28	5.20
18	11.86	10.82	8.36	7.29	7.05	5.99	6.87	5.66	6.85	5.86	6.32	5.25
19	11.61	10.60	8.82	7.81	7.09	6.15	6.47	5.31	6.77	5.78	6.43	5.24
20	11.49	10.49	9.15	8.19	7.30	6.37	6.05	4.81	6.62	5.54	6.31	5.17
21	11.35	10.37	8.96	7.80	7.49	6.58	6.56	5.58	6.26	5.48	6.32	5.17
22	11.41	10.56	8.62	7.61	7.54	6.44	6.78	5.76	6.44	5.34	6.47	5.29
23	11.49	10.60	9.23	8.43	6.87	5.36	6.97	6.09	6.50	5.57	6.40	5.57
24	11.74	10.85	9.21	8.34	5.62	4.60	6.69	5.97	6.88	5.45	6.41	5.45
25	11.48	10.60	8.99	8.26	6.17	4.97	6.69	5.70	7.15	5.98	6.47	5.55
26	11.16	10.36	9.01	8.33	6.42	5.43	6.82	5.74	7.15	6.04	6.66	5.60
27	10.96	10.17	8.74	7.89	6.70	5.58	6.96	5.81	6.79	5.70	6.66	5.71
28	10.83	10.15	8.74	7.59	6.91	5.75	6.96	5.84	6.65	5.53	6.56	5.57
29	10.96	10.25	9.42	7.98	7.29	5.92	6.85	5.53	---	---	6.48	5.48
30	11.07	10.26	9.42	8.28	7.43	6.18	6.64	5.34	---	---	6.40	5.38
31	11.05	9.92	---	---	7.47	6.06	6.49	5.27	---	---	6.39	5.42
MONTH	14.74	9.92	11.30	7.29	9.25	4.60	7.85	4.81	7.55	4.77	6.93	5.17

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bh 34--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.45	5.49	7.31	6.37	11.00	10.15	13.40	12.58	16.53	15.69	18.41	17.30
2	6.47	5.62	7.31	6.18	11.00	10.18	13.58	12.83	16.63	15.79	18.42	17.51
3	6.65	5.72	7.32	6.24	11.06	10.20	13.79	12.79	16.75	15.87	18.59	17.63
4	6.73	5.83	7.56	6.60	11.07	10.34	14.07	13.17	17.16	16.23	18.86	17.96
5	7.01	6.04	7.74	6.90	11.00	10.31	14.24	13.44	17.45	16.38	19.04	17.94
6	7.10	6.44	8.16	7.13	10.83	10.16	14.41	13.58	17.25	16.08	18.99	17.74
7	6.69	6.03	8.43	7.57	10.53	9.70	14.45	13.47	16.85	15.64	18.86	17.68
8	6.33	5.79	8.49	7.87	10.86	9.89	14.36	13.26	17.10	15.86	18.90	17.70
9	6.62	5.77	8.34	7.57	11.15	10.17	14.44	13.27	17.49	16.29	18.66	17.35
10	6.69	6.05	8.44	7.63	11.35	10.19	14.66	13.37	17.61	16.36	18.38	17.33
11	6.93	6.09	8.31	7.20	11.52	10.23	14.85	13.42	17.75	16.52	18.32	17.26
12	6.93	6.11	8.39	7.31	11.63	10.18	14.95	13.59	17.82	16.71	18.51	17.53
13	6.94	5.97	8.62	7.43	11.31	9.85	15.06	13.78	17.90	16.89	18.65	17.79
14	7.03	6.02	8.65	7.27	11.44	10.15	15.17	14.01	18.01	17.01	18.44	17.56
15	7.15	5.96	8.78	7.39	11.87	10.42	15.19	14.09	18.04	17.01	18.34	17.59
16	7.18	5.93	8.79	7.48	12.23	10.78	15.11	14.06	17.72	16.82	18.35	17.51
17	7.10	5.85	8.81	7.64	12.35	11.20	15.06	14.10	17.47	16.61	17.89	17.30
18	7.23	5.98	8.89	7.69	12.45	11.44	15.09	14.24	17.22	16.36	17.96	17.33
19	7.14	6.00	8.87	7.71	12.60	11.71	15.16	14.40	16.59	15.72	17.90	17.12
20	7.34	6.03	9.15	7.90	12.79	11.98	15.37	14.59	16.71	15.90	17.71	16.84
21	7.23	6.35	9.42	8.29	12.66	11.77	15.44	14.63	17.62	16.51	17.78	16.91
22	7.10	6.24	9.78	8.79	12.72	11.90	15.56	14.69	18.01	17.17	17.71	16.82
23	7.19	6.31	10.16	9.24	12.73	11.87	15.59	14.74	18.14	17.29	17.73	16.80
24	7.02	5.99	10.48	9.60	12.79	11.91	15.82	14.95	18.37	17.52	17.65	16.45
25	7.07	6.08	10.60	9.64	13.07	12.16	15.99	15.09	18.33	17.38	17.31	16.10
26	7.35	6.43	10.31	9.25	13.24	12.30	16.11	15.19	18.33	17.41	17.06	15.91
27	7.38	6.44	10.30	9.42	13.09	11.94	16.22	15.25	18.33	17.31	16.91	15.70
28	7.28	6.28	10.56	9.68	13.00	12.15	16.32	15.41	18.17	17.00	16.86	15.77
29	7.44	6.51	10.80	9.99	13.36	12.45	16.52	15.65	17.93	16.88	16.55	15.41
30	7.52	6.45	10.99	10.06	13.45	12.51	16.59	15.67	18.08	17.10	16.30	15.21
31	---	---	10.97	10.06	---	---	16.55	15.68	---	---	---	---
MONTH	7.52	5.49	10.99	6.18	13.45	9.70	16.59	12.58	18.37	15.64	19.04	15.21
YEAR	19.04	4.60										

Daily Low Water Levels



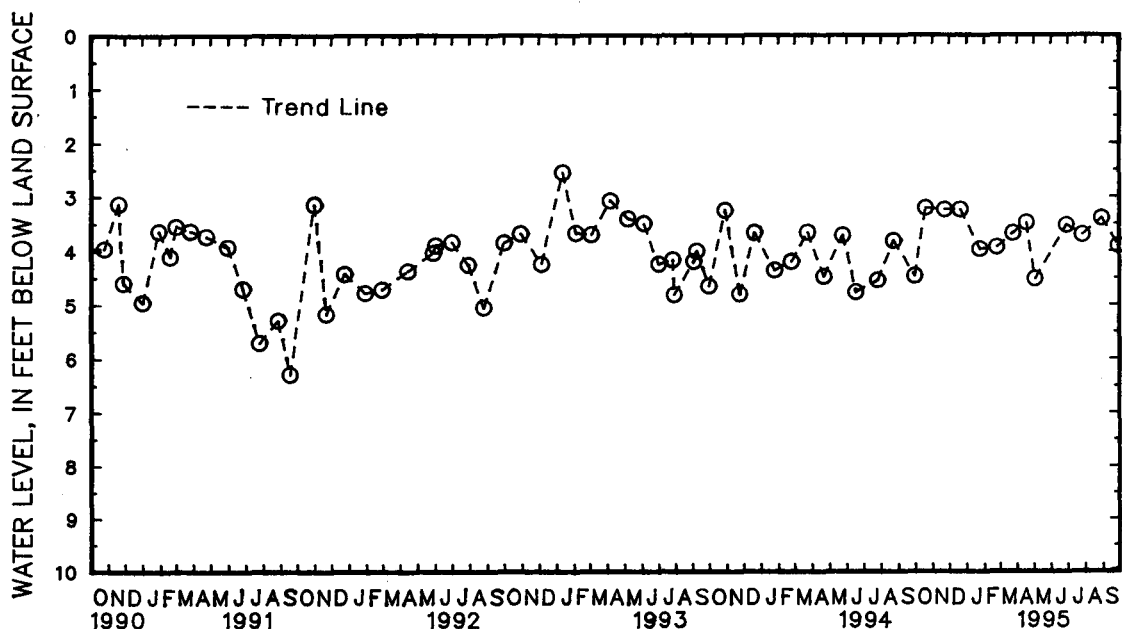
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
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°04'19", Hydrologic Unit 02060010, west end of 44th St., Ocean City.
Owner: U.S. Geological Survey.
AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 122CLMB.
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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of 4 in. coupling, 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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	3.22	DEC 20	3.25	FEB 23	3.95	APR 17	3.50	JUN 28	3.55	AUG 29	3.41
NOV 22	3.25	JAN 24	4.00	MAR 24	3.70	MAY 2	4.56	JUL 26	3.72	SEP 28	3.93
WATER YEAR 1995		HIGHEST	3.22	OCT 19, 1994		LOWEST	4.56	MAY 2, 1995			



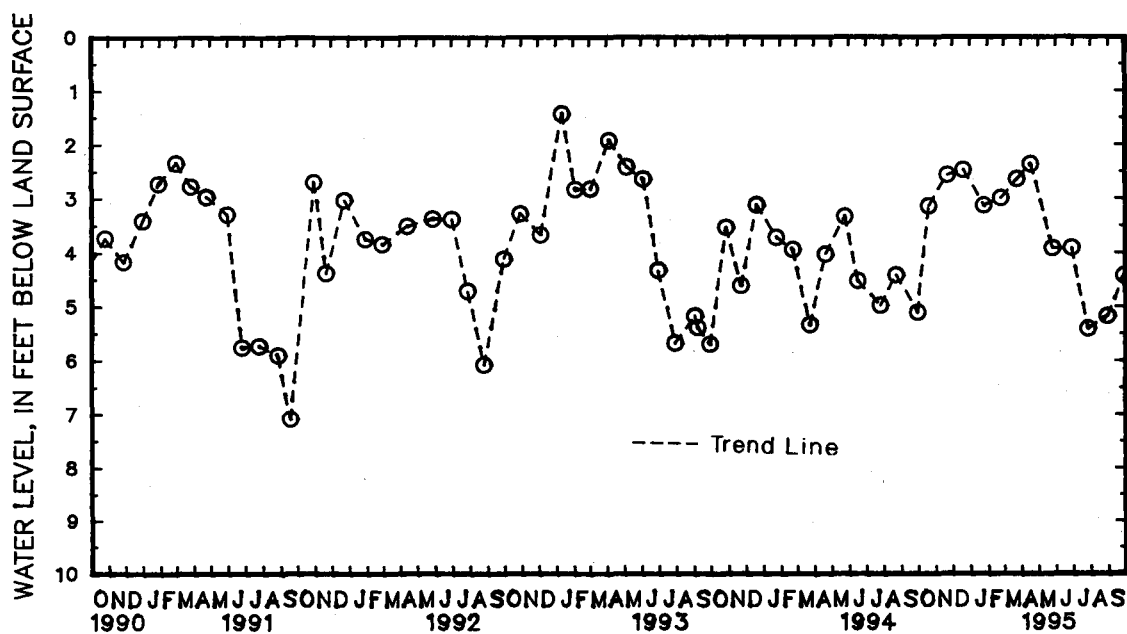
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
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 National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of 4 in. coupling, 1.78 ft above land surface.
REMARKS.--Ocean City ground-water monitoring network well. Water levels maybe affected by seasonal pumping.
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, 7.48 ft below land surface, Sept. 15, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	3.15	DEC 20	2.48	FEB 23	3.01	APR 17	2.37	JUN 28	3.95	AUG 29	5.22
NOV 22	2.57	JAN 24	3.15	MAR 24	2.65	MAY 25	3.96	JUL 26	5.46	SEP 28	4.44
WATER YEAR 1995		HIGHEST	2.37	APR 17, 1995		LOWEST	5.46	JUL 26, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 500 ft; casing diameter 4 in., to 388 ft; screen diameter 4 in. from 388 to 500 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of recorder shelf, 2.84 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping.
 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, 39.83 ft below land surface, Aug. 6, 1987.

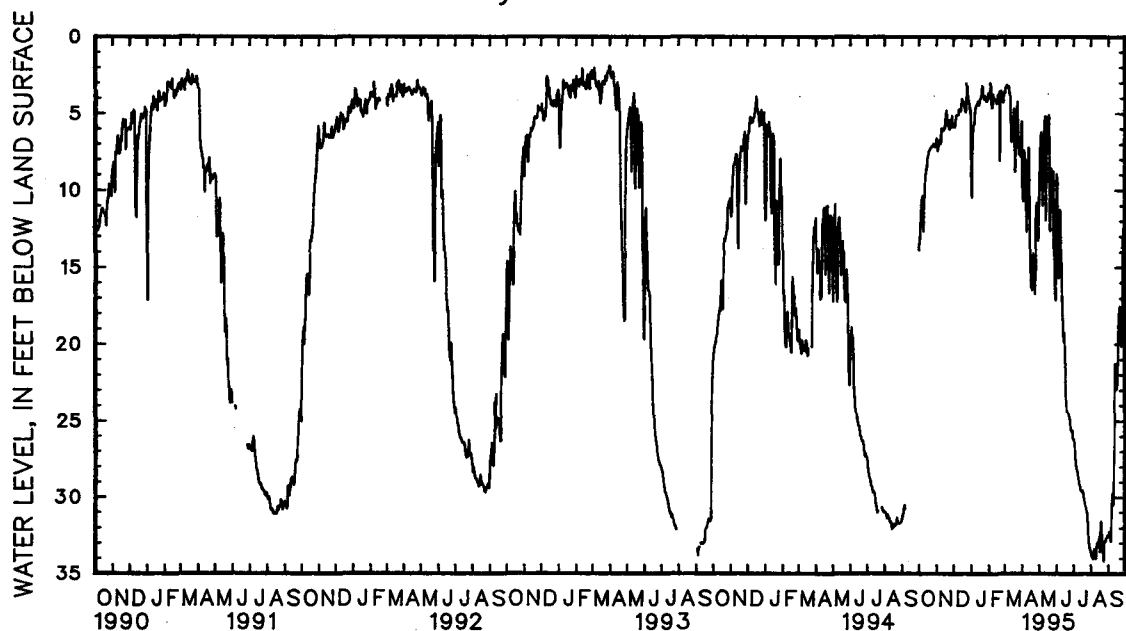
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.80	12.68	6.60	5.34	5.69	4.44	9.83	6.69	3.99	2.97	3.65	2.33
2	13.39	12.19	7.26	5.72	5.63	4.25	10.51	6.75	3.93	2.74	3.26	2.24
3	13.06	11.28	7.49	6.30	5.89	4.54	7.25	5.40	3.54	2.51	3.29	2.35
4	11.91	10.23	7.12	5.74	5.66	4.17	6.12	4.87	3.00	1.95	3.25	2.32
5	11.09	9.68	6.81	5.46	5.21	3.79	5.63	4.84	4.34	2.30	3.14	2.23
6	10.59	9.28	6.72	5.45	5.09	3.97	5.65	4.71	4.66	4.10	3.19	2.22
7	10.35	9.05	6.85	5.66	5.09	4.02	5.00	4.29	4.46	3.76	3.36	2.54
8	11.64	8.78	6.94	5.92	5.09	4.09	4.85	4.06	3.76	2.98	3.27	2.61
9	12.69	10.59	6.83	5.74	5.06	4.21	4.53	3.87	4.11	3.45	3.73	2.76
10	10.74	9.17	5.95	4.95	4.72	3.72	4.42	3.78	4.11	3.57	3.80	3.06
11	9.64	8.44	6.14	5.25	4.71	3.50	4.35	3.59	4.04	2.94	5.05	3.11
12	9.18	8.20	6.05	5.30	4.83	4.06	4.22	3.29	4.09	2.81	6.53	4.20
13	8.86	7.94	6.06	5.29	4.83	3.94	4.43	3.49	4.19	3.35	6.86	4.97
14	8.60	7.60	6.06	5.07	4.48	3.42	4.45	3.53	4.35	3.48	5.25	3.70
15	8.31	6.81	5.84	4.96	4.02	3.13	4.28	3.12	4.15	2.69	5.75	3.31
16	7.88	7.01	5.90	4.69	4.12	3.22	4.04	2.92	3.78	2.80	6.22	3.92
17	7.85	6.80	5.21	3.97	4.23	3.23	4.03	2.93	3.86	2.82	4.65	3.27
18	7.52	6.62	4.82	3.80	4.20	3.15	3.86	2.66	3.72	2.73	6.70	4.65
19	7.42	6.48	5.41	4.40	4.25	3.32	3.44	2.42	3.60	2.60	8.86	6.61
20	7.37	6.43	5.78	4.79	4.52	3.57	3.19	2.01	8.14	2.58	7.68	4.34
21	7.24	6.26	5.57	4.47	4.83	3.94	3.72	2.77	4.00	2.87	5.07	3.71
22	7.19	6.30	5.43	4.37	4.90	3.81	3.92	2.89	3.53	2.60	4.83	3.62
23	7.11	6.17	6.05	5.23	4.22	2.73	4.07	3.21	3.64	2.64	4.24	3.53
24	7.13	6.25	6.02	5.08	2.89	2.02	3.85	3.07	3.97	2.58	6.00	3.12
25	7.13	6.26	5.79	5.02	3.55	2.37	3.90	2.89	4.26	3.09	7.07	5.46
26	6.97	6.18	5.77	5.03	4.00	2.94	4.06	2.92	4.26	3.04	7.69	6.32
27	6.98	6.15	5.37	4.47	4.21	3.16	4.19	3.07	3.79	2.69	7.69	5.36
28	6.97	6.26	5.15	4.12	4.40	3.24	4.20	3.08	3.58	2.47	7.55	6.51
29	7.15	6.48	5.89	4.46	4.74	3.42	4.02	2.67	---	---	7.83	5.38
30	7.15	6.32	5.89	4.81	4.77	3.59	3.76	2.45	---	---	5.85	4.08
31	7.04	5.89	---	---	6.69	3.39	3.66	2.49	---	---	5.52	3.97
MONTH	13.80	5.89	7.49	3.80	6.69	2.02	10.51	2.01	8.14	1.95	8.86	2.22

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bh 89--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.59	5.52	10.59	9.06	8.95	7.35	26.22	25.42	33.57	32.65	32.50	31.41
2	10.52	7.91	9.06	6.06	9.56	7.25	26.48	25.45	33.80	32.90	32.25	31.22
3	10.74	7.37	6.64	5.57	12.27	9.13	26.98	25.77	33.86	32.95	32.25	31.22
4	7.37	5.49	6.19	5.07	15.75	12.27	27.57	26.37	33.93	32.99	32.45	31.44
5	7.93	5.47	6.58	5.06	13.89	11.73	27.98	26.94	34.05	32.98	32.88	31.72
6	8.20	6.52	10.01	6.58	11.94	11.04	28.18	27.31	33.90	32.70	32.88	28.43
7	8.05	7.53	11.01	9.24	11.28	10.44	28.28	27.38	33.39	32.18	30.84	27.44
8	10.87	7.35	9.73	6.67	11.47	10.59	28.43	27.28	33.46	31.66	29.73	25.84
9	12.75	7.96	6.72	5.44	15.20	10.73	28.69	27.55	34.00	32.89	30.25	26.62
10	10.28	6.38	5.87	4.92	16.94	13.66	28.93	27.82	34.04	32.37	30.50	27.28
11	10.34	6.94	5.27	4.23	17.97	16.65	29.15	27.91	33.33	32.00	27.39	24.65
12	7.19	5.42	5.16	4.07	19.25	17.62	29.28	28.05	33.00	31.89	25.03	20.21
13	7.75	5.01	11.99	4.21	19.84	15.12	29.48	28.29	32.94	31.87	21.26	18.69
14	11.10	7.19	9.35	6.68	19.29	16.94	29.59	28.50	32.95	31.96	22.63	19.46
15	14.83	8.11	6.98	4.88	20.20	18.50	29.61	28.58	32.90	31.92	22.69	20.55
16	16.36	11.12	5.92	4.39	21.43	19.22	29.63	28.51	32.58	31.61	22.94	22.11
17	15.47	11.25	5.48	4.10	22.81	20.83	29.57	28.79	33.59	31.59	22.67	21.25
18	16.50	14.04	5.10	3.79	23.67	22.12	29.74	28.79	32.34	31.00	21.25	18.09
19	14.61	13.10	6.98	3.77	24.15	22.98	30.00	29.14	31.55	30.81	18.09	15.43
20	14.12	13.06	12.64	6.98	24.52	23.60	30.23	29.44	32.12	31.14	17.96	14.48
21	14.80	11.24	12.64	8.46	24.50	23.57	30.46	29.60	32.65	31.76	17.53	14.00
22	16.22	13.56	8.59	6.61	24.68	23.89	30.56	29.71	32.94	32.00	18.22	15.14
23	16.77	15.65	9.48	6.62	24.80	24.02	30.75	29.96	34.06	32.14	19.61	15.87
24	15.70	11.47	---	---	25.05	24.25	30.93	30.10	34.21	32.14	20.14	19.14
25	11.97	10.75	9.48	6.68	25.52	24.65	31.07	30.26	32.91	31.84	19.48	13.81
26	11.29	8.59	8.79	6.62	25.68	24.79	31.68	30.48	32.84	31.92	14.35	12.45
27	10.79	9.77	13.89	8.71	25.65	24.52	32.45	31.53	32.86	31.90	13.18	11.95
28	11.84	9.80	15.56	13.89	25.65	24.83	32.86	31.99	32.71	31.56	12.79	11.53
29	13.02	11.84	16.74	14.99	26.16	25.22	33.20	32.30	---	---	12.19	10.96
30	13.29	9.94	17.18	12.27	26.26	25.34	33.34	32.50	32.52	31.50	11.53	10.40
31	---	---	12.27	8.48	---	---	33.44	32.55	32.61	31.61	---	---
MONTH	16.77	5.01	17.18	3.77	26.26	7.25	33.44	25.42	34.21	30.81	32.88	10.40
YEAR	34.21	1.95										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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: 122OCNC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 310 ft; casing diameter 4 in., to 255 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 National Geodetic Vertical Datum of 1929.
 Measuring Point: Top of casing, 2.52 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping. 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, 35.70 ft below land surface, Aug. 1, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

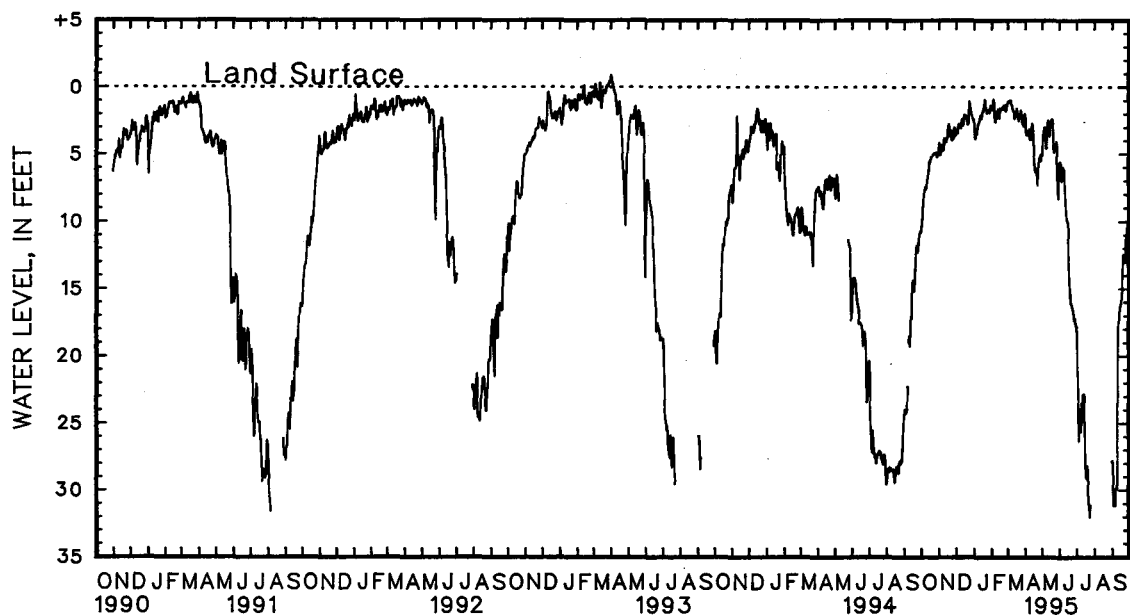
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.17	10.37	5.13	4.17	4.18	3.30	3.85	2.65	2.45	1.66	2.06	1.10
2	10.80	9.90	5.68	4.50	4.10	3.15	4.91	3.81	2.44	1.63	1.73	1.01
3	10.46	9.47	5.86	5.06	4.31	3.40	4.91	3.84	2.10	1.44	1.73	1.09
4	9.88	8.64	5.60	4.62	4.15	3.10	4.31	3.46	1.62	.88	1.71	1.06
5	9.18	8.15	5.29	4.34	3.74	2.74	4.10	3.44	2.78	1.14	1.61	.98
6	8.75	7.85	5.18	4.30	3.59	2.84	4.03	3.45	3.17	2.52	1.65	.98
7	8.53	7.64	5.29	4.47	3.61	2.88	3.55	3.02	3.03	2.58	1.82	1.23
8	8.30	7.41	5.39	4.70	3.63	2.94	3.21	2.78	2.64	1.77	1.76	1.31
9	8.49	7.59	5.32	4.55	3.61	3.03	3.07	2.62	2.61	1.84	2.13	1.38
10	8.46	7.49	4.57	3.81	3.34	2.60	3.02	2.53	2.64	2.29	2.22	1.70
11	7.82	6.98	4.64	3.99	3.26	2.39	2.96	2.38	2.60	1.75	2.24	1.76
12	7.45	6.79	4.58	4.09	3.40	2.84	2.72	2.09	2.44	1.61	2.75	1.82
13	7.18	6.55	4.61	4.07	3.40	2.76	2.80	2.24	2.66	2.12	3.04	2.35
14	6.98	6.25	4.61	3.88	3.12	2.28	2.95	2.32	2.86	2.28	3.05	2.16
15	6.71	5.56	4.40	3.77	2.68	2.04	2.81	1.98	2.73	1.59	2.55	1.86
16	6.26	5.67	4.44	3.53	2.73	2.12	2.54	1.75	2.32	1.65	2.73	2.01
17	6.26	5.52	3.85	2.93	2.84	2.16	2.53	1.77	2.41	1.70	2.54	1.60
18	5.97	5.37	3.42	2.74	2.82	2.11	2.38	1.52	2.28	1.62	2.73	1.83
19	5.86	5.22	3.93	3.20	2.86	2.23	1.99	1.26	2.18	1.54	3.50	2.29
20	5.82	5.18	4.27	3.62	3.08	2.46	1.68	.88	2.63	1.47	3.48	2.48
21	5.71	5.04	4.15	3.31	3.37	2.78	2.18	1.43	2.20	1.59	2.99	2.15
22	5.64	5.03	3.96	3.21	3.45	2.65	2.37	1.65	2.02	1.34	2.74	2.09
23	5.58	4.92	4.52	3.96	2.89	1.94	2.55	1.92	2.08	1.43	2.48	2.03
24	5.59	4.98	4.54	3.88	1.94	1.02	2.43	1.81	2.34	1.33	2.52	1.73
25	5.60	4.99	4.31	3.79	2.09	1.22	2.38	1.69	2.66	1.75	3.06	2.05
26	5.46	4.91	4.29	3.80	2.53	1.73	2.50	1.71	2.66	1.77	3.51	2.56
27	5.45	4.87	3.96	3.29	2.76	1.99	2.54	1.84	2.26	1.46	3.51	2.68
28	5.48	5.00	3.66	2.97	2.92	2.10	2.66	1.89	2.03	1.26	3.40	2.75
29	5.65	5.19	4.31	3.23	3.13	2.28	2.52	1.56	---	---	3.56	2.88
30	5.66	5.08	4.31	3.60	3.23	2.44	2.25	1.34	---	---	3.35	2.27
31	5.54	4.69	---	---	3.34	2.34	2.14	1.35	---	---	2.81	1.99
MONTH	11.17	4.69	5.86	2.74	4.31	1.02	4.91	.88	3.17	.88	3.56	.98

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued
WO Bh 98--Continued

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DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.46	2.24	5.68	4.75	7.07	5.88	20.74	17.82	---	---	28.36	27.80
2	4.13	3.29	5.22	3.80	6.17	5.59	22.48	20.74	---	---	30.30	28.36
3	4.44	3.56	4.18	3.51	6.39	5.59	24.37	22.48	---	---	31.39	30.17
4	4.31	3.29	3.94	3.20	7.98	6.10	27.74	24.37	---	---	31.40	31.17
5	3.86	3.28	3.53	2.99	7.85	7.04	28.36	26.39	---	---	31.17	31.17
6	4.04	3.55	4.09	2.97	7.18	6.48	26.39	24.23	---	---	31.17	31.16
7	3.78	3.34	5.05	3.86	6.60	6.02	25.64	23.96	---	---	31.16	31.15
8	4.10	3.13	5.02	4.58	6.68	6.08	25.96	24.01	---	---	31.15	29.86
9	4.75	3.92	4.65	3.57	7.46	6.20	26.98	25.67	---	---	29.86	29.85
10	4.58	3.47	3.87	3.11	8.59	7.36	26.98	24.32	---	---	29.85	29.84
11	4.51	3.89	3.50	2.59	9.38	8.48	24.73	23.20	---	---	29.84	19.96
12	4.18	3.06	3.21	2.47	11.81	9.29	23.86	22.84	---	---	20.14	18.17
13	3.44	2.69	4.40	2.59	12.36	9.86	23.72	22.84	---	---	18.21	16.82
14	4.05	2.94	4.75	3.67	10.81	9.99	25.02	22.99	---	---	17.05	16.55
15	5.13	3.88	4.28	3.11	11.40	10.17	28.51	25.02	---	---	16.83	16.24
16	6.27	5.13	3.77	2.80	13.48	10.71	30.06	28.34	---	---	16.65	16.08
17	6.53	5.64	3.50	2.57	15.03	13.26	30.56	29.14	---	---	16.13	15.75
18	7.32	5.98	3.23	2.40	15.83	14.62	29.60	28.39	---	---	16.05	15.29
19	7.18	6.33	3.12	2.38	16.39	15.43	29.67	28.19	---	---	15.31	13.74
20	7.12	6.31	4.81	2.61	16.80	16.07	29.99	28.60	---	---	13.79	12.96
21	6.84	6.11	6.17	4.64	16.83	16.20	31.49	29.99	---	---	13.02	12.44
22	7.68	6.46	5.95	4.91	16.94	16.36	31.74	30.95	---	---	12.70	12.44
23	8.39	7.31	5.06	4.46	17.06	16.49	32.08	31.34	---	---	13.16	12.52
24	8.33	6.42	5.19	4.56	17.24	16.66	32.65	32.05	---	---	13.43	13.01
25	6.73	5.91	5.21	4.47	17.60	16.99	32.68	31.16	---	---	13.50	11.84
26	6.37	5.43	4.95	4.08	18.19	17.34	---	---	---	---	12.03	10.88
27	6.00	5.28	6.32	4.55	18.17	17.25	---	---	---	---	11.22	10.46
28	5.82	5.05	7.87	6.32	17.94	17.40	---	---	---	---	10.90	10.14
29	6.18	5.49	9.05	7.87	18.31	17.59	---	---	---	---	10.42	9.62
30	6.33	5.26	9.58	8.32	18.41	17.79	---	---	---	---	9.80	9.15
31	---	---	8.57	6.83	---	---	---	---	27.86	27.85	---	---
MONTH	8.39	2.24	9.58	2.38	18.41	5.59	32.68	17.82	27.86	27.85	31.40	9.15
YEAR	32.68	.88										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

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 chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 5 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of 6 in. flange, 3.0 ft above land surface.

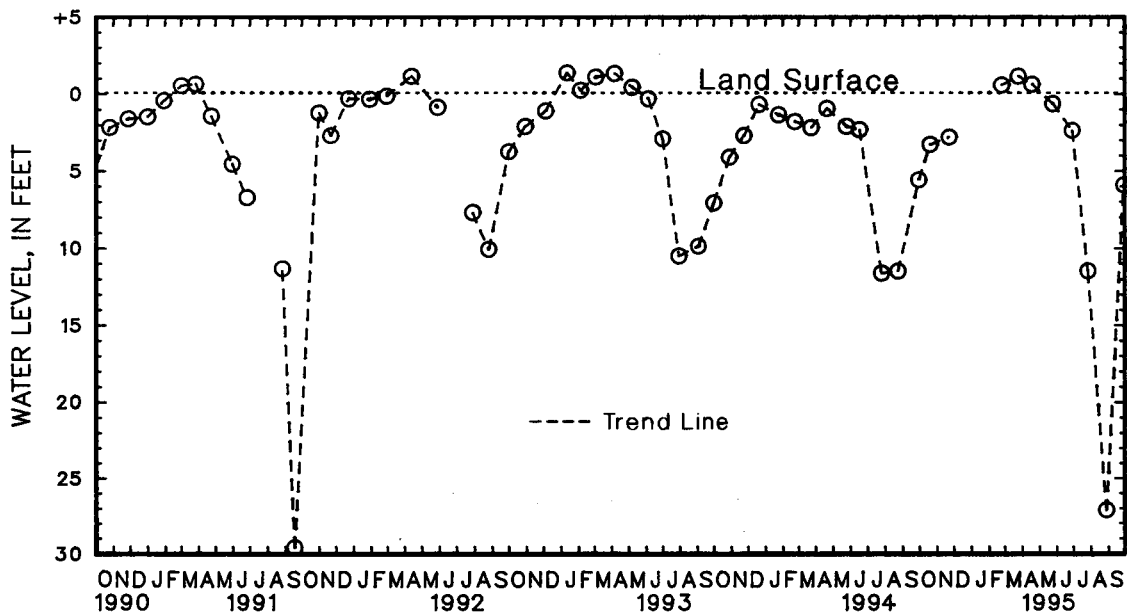
REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping.

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, 29.85 ft below land surface, July 14, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	3.28	FEB 23	+ .58	APR 17	+ .62	JUN 28	2.40	AUG 28	27.15
NOV 22	2.80	MAR 24	+1.16	MAY 24	.65	JUL 26	11.60	SEP 28	5.92
WATER YEAR 1995		HIGHEST	+1.16	MAR 24, 1995		LOWEST	27.15	AUG 28, 1995	

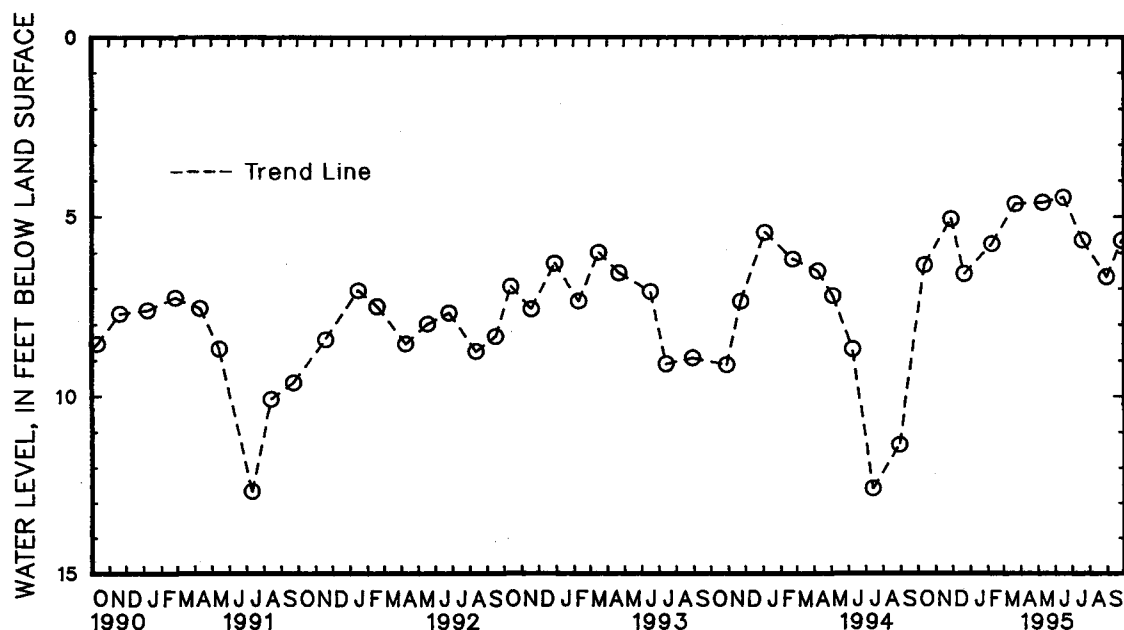


5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 13 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of casing extension, 0.40 ft below land surface.
REMARKS.--Maryland Water-Level Network observation well. Water levels affected by nearby pumping.
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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 12	6.35	DEC 21	6.63	MAR 22	4.66	JUN 15	4.48	AUG 30	6.72		
NOV 28	5.07	FEB 8	5.78	MAY 9	4.62	JUL 19	5.69	SEP 26	5.68		
WATER YEAR 1995		HIGHEST	4.48	JUN 15, 1995		LOWEST	6.72	AUG 30, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS

MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Dg 21. SITE ID.--381427075081102. PERMIT NUMBER.--WO-73-0519.

LOCATION.--Lat 38°14'27", long 75°08'11", Hydrologic Unit 020060010, at Assateague Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of 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 6 ft above National Geodetic Vertical Datum of 1929, from topographic map.

Measuring point: Top of metal sleeve, 4.06 ft above land surface.

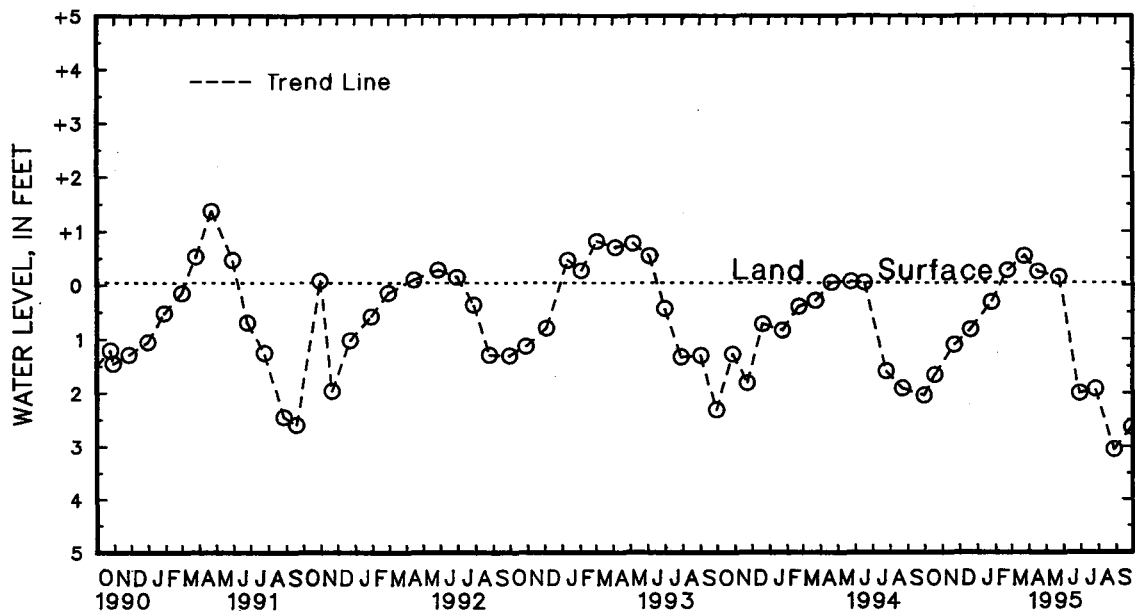
REMARKS.--Ocean City ground-water monitoring network well. Water levels affected by nearby pumping.

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 LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	1.69	DEC 20	.83	FEB 23	+ .27	APR 17	+ .24	JUN 28	2.04	AUG 28	3.09
NOV 22	1.11	JAN 25	.32	MAR 24	+ .54	MAY 24	+ .14	JUL 26	1.96	SEP 28	2.66
WATER YEAR 1995		HIGHEST	+ .54	MAR 24, 1995		LOWEST	3.09	AUG 28, 1995			



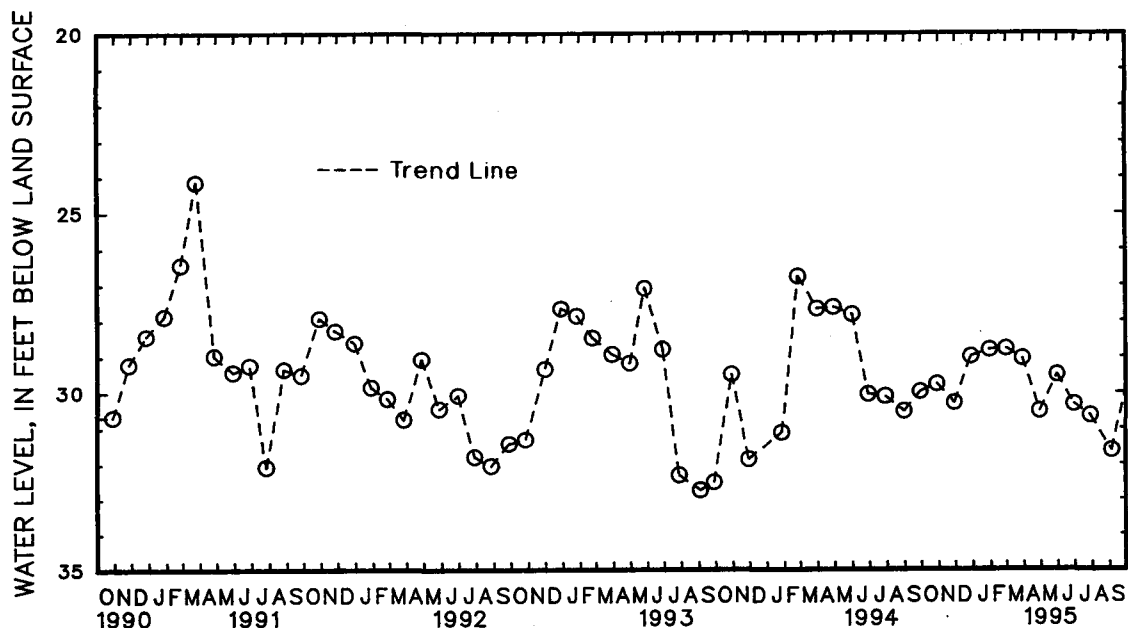
5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

GROUND-WATER LEVELS
MARYLAND--Continued
WORCESTER COUNTY--Continued

WELL NUMBER.--WO Fb 2. SITE ID.--380408075335701.
LOCATION.--Lat 38°04'08", long 75°33'57", Hydrologic Unit 02060009, near 7th and Young Sts., 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 chalked steel tape by U.S. Geological Survey personnel.
DATUM.--Elevation of land surface is 15 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Measuring point: Top of 1.5 in. casing extension, 3.40 ft above land surface.
REMARKS.--Maryland Water-Level Network observation well. Water level reported 30 ft below land surface, Oct. 3, 1947; water levels may be affected by nearby pumpage.
PERIOD OF RECORD.--January 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.61 ft below land surface, Feb. 20, 1953; lowest measured, 49.70 ft below land surface, July 1, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	29.80	DEC 28	29.02	FEB 28	28.80	APR 28	30.58	JUN 29	30.37	SEP 5	31.68
NOV 28	30.34	JAN 30	28.83	MAR 29	29.08	MAY 30	29.54	JUL 28	30.70		
WATER YEAR 1995		HIGHEST	28.80	FEB 28, 1995		LOWEST	31.68	SEP 5, 1995			



5 YEAR HYDROGRAPH
OCTOBER 1, 1990 THROUGH SEPTEMBER 30, 1995

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.

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. Full implementation of the protocols will take place during the 1995 water year.

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
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
CECIL COUNTY, MARYLAND

DATE	TIME	STATION	NUMBER	GEO-LOGIC UNIT	SITE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTERVAL (FT)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT)
CE Ab 85	07-13-94	1350	394038076061701	300WSCK	GW	41.84	115.00	38	115
CE Ad 67	07-14-94	0930	394127075583101	300WSCK	GW	20.16	107.00	82	107
ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN)	FLOW RATE, INSTANTANEOUS (G/M)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)	
CE Ab 85	400	30	3.0	225	5.7	14.0	28.0	755	9.7
CE Ad 67	420	30	3.0	141	6.3	13.0	28.0	755	6.6
ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3	ALKA-LINITY WAT WH TOT IT FIELD MG/L AS CACO3	BICARBONATE WATER WH IT FIELD MG/L AS HCO3	HARDNESS TOTAL (MG/L AS CACO3)	BROMIDE DIS-SOLVED (MG/L AS BR)	CALCIUM DIS-SOLVED (MG/L AS CA)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	POTASSIUM, DIS-SOLVED (MG/L AS K)
CE Ab 85	13	13	16	75	0.020	22	11	<0.10	1.8
CE Ad 67	42	42	51	43	0.040	7.3	6.3	<0.10	2.5
SILICA, DIS-SOLVED (MG/L AS SIO2)	SODIUM, DIS-SOLVED (MG/L AS NA)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
CE Ab 85	23	9.1	35	175	153	9.1	<0.010	8.70	<0.010
CE Ad 67	31	10	1.5	96	103	--	<0.010	2.90	0.010
NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	RADON 222 TOTAL (PCI/L)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)
CE Ab 85	0.40	0.160	0.020	18	10	--	--	2600	46
CE Ad 67	<0.20	0.020	0.030	50	9	-7.40	-43.3	6200	68
URANIUM NATURAL DIS-SOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS. (UG/L)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	FREON-113 WATER UNFLTRD REC (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	BROMO-BENZENE WATER, WHOLE, (UG/L)	BROMOFORM TOTAL (UG/L)	BENZENE TOTAL (UG/L)	1,2,3-TRICHLORO BENZENE WAT, WH REC (UG/L)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L)
CE Ab 85	<1.0	0.1	0.60	--	<0.02	--	--	--	--
CE Ad 67	<0.40	0.0	0.20	<0.200	<0.02	<0.200	<0.200	<0.200	<0.200

Geologic unit (aquifer): 300WSCK - Wissahickon Formation

Site type: GW - Groundwater

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

CECIL COUNTY, MARYLAND -- Continued

	BENZENE 124-TRI METHYL UNFLTRD RECOVER (UG/L)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)
CE Ab 85	--	--	--	--	--	--	--	--	--	--
CE Ad 67	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L)
CE Ab 85	--	--	--	--	--	--	--	--	--	--
CE Ad 67	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)	STYRENE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)
CE Ab 85	--	--	--	--	--	--	--	--	--	--
CE Ad 67	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L)
CE Ab 85	--	--	--	--	--	--	--	--	--	--
CE Ad 67	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	1,2- TRANSDI CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	
CE Ab 85	--	--	--	--	--	--	--	--	--	
CE Ad 67	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	
CE Ab 85	--	--	<0.006	<0.009	<0.007	0.080	<0.013	<0.008	<0.046	
CE Ad 67	<0.200	<0.200	<0.006	<0.009	<0.007	<0.017	<0.013	<0.008	<0.046	

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

CECIL COUNTY, MARYLAND -- Continued

		CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT
CE Ab	85	<0.013	<0.005	<0.013	<0.008	<0.004	0.600	--	<0.008	80.0
CE Ad	67	<0.013	<0.005	<0.013	<0.008	<0.004	0.005	<1.00	<0.008	60.0
		DI- ELDRIN DIS- SOLVED (UG/L)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)
CE Ab	85	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011	<0.039	<0.010
CE Ad	67	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011	<0.039	<0.010
		METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPHTH- ALENE TOTAL (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L)
CE Ab	85	<0.038	<0.035	0.084	<0.012	<0.007	--	<0.010	<0.022	<0.009
CE Ad	67	<0.038	<0.035	<0.009	<0.012	<0.007	<0.200	<0.010	<0.022	<0.009
		PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)
CE Ab	85	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016	<0.006
CE Ad	67	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016	<0.006
		SI- MAZINE, WATER, DISS, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	1,1-DI CHLORO- PRO- PENE, WH TOTAL (UG/L)
CE Ab	85	<0.008	<0.015	<0.030	<0.012	124	<0.008	<0.008	<0.012	--
CE Ad	67	<0.008	<0.015	<0.030	<0.012	109	<0.008	<0.008	<0.012	<0.200

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HARFORD COUNTY, MARYLAND

	DATE	TIME	STATION	NUMBER	GEO-LOGIC UNIT	SITE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTERVAL (FT)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT)
HA Be 39	07-13-94	1000	393504076133601	300WSCK	GW		49.97	125.00	40	125
HA Bb 104	07-21-94	1450	393828076294501	300WSCK	GW		22.31	175.00	71	175
HA Ad 15	07-20-94	0950	394209076164301	300PRTB	GW		22.20	100.00	68	100
HA Ab 12	07-19-94	0930	394240076263501	300WSCK	GW		42.30	150.00	26	150

	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN)	FLOW RATE, INSTANTANEOUS (G/M)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD ARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (PERCENT SATURATION)
HA Be 39	300	33	3.0	275	5.6	13.5	30.0	754	9.5
HA Bb 104	500	32	3.0	191	6.1	13.5	23.0	757	6.9
HA Ad 15	280	35	3.0	75	6.0	13.0	28.0	760	9.7
HA Ab 12	610	44	5.0	160	5.6	13.0	28.0	750	9.0

	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CAC03)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3)	HARDNESS TOTAL (MG/L AS CAC03)	BROMIDE DIS-SOLVED (MG/L AS BR)	CALCIUM DIS-SOLVED (MG/L AS CA)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	POTASSIUM, DIS-SOLVED (MG/L AS K)
HA Be 39	13	13	16	90	0.010	13	17	<0.10	14	1.1
HA Bb 104	26	26	32	66	0.040	17	14	0.10	5.8	1.9
HA Ad 15	14	14	17	23	0.020	6.4	7.0	<0.10	1.7	0.60
HA Ab 12	3	2	4	44	0.020	5.3	14	<0.10	7.5	1.9

	SILICA, DIS-SOLVED (MG/L AS SiO2)	SODIUM, DIS-SOLVED (MG/L AS NA)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
HA Be 39	22	14	38	176	180	--	<0.010	12.0	12.0	<0.010
HA Bb 104	17	7.3	14	125	119	6.3	<0.010	5.90	5.90	0.080
HA Ad 15	9.1	3.9	1.0	55	48	--	<0.010	2.20	2.20	0.020
HA Ab 12	7.9	7.4	0.20	101	99	--	<0.010	12.0	12.0	0.010

	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	RADON 222 TOTAL (PCI/L)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)
HA Be 39	<0.20	0.050	0.040	9	<1	130	-6.90	-40.7	4100	57
HA Bb 104	0.40	<0.010	<0.010	<3	33	100	--	--	3300	51
HA Ad 15	<0.20	<0.010	0.010	<3	<1	20	-7.37	-45.0	--	--
HA Ab 12	<0.20	<0.010	<0.010	41	52	30	--	--	--	--

Geologic unit (aquifer): 300PRTB - Prettyboy Schist
300WSCK - Wissahickon Formation

Site type: GW - Groundwater

HARFORD COUNTY, MARYLAND -- Continued

URANIUM NATURAL DIS- SOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS. (UG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	FREON- 113 WATER UNFLTRD REC (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)
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BENZENE 124-TRI METHYL UNFLT RECOVER (UG/L)	BENZENE 135-TRI METHYL WATER UNFLT REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE N-PROPYL WATER UNFLT REC (UG/L)	BENZENE N-BUTYL WATER UNFLT REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLT REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLT REC (UG/L)	CARBON- TETRA- CHLORO- RIDE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)
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[illegible]

METHYL- TERT- BUTYL ETHER WAT UNF REC (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE STYRENE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)
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TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	ETHANE, 1,1,2,2- TETRA- CHLORO- WAT UNF REC (UG/L)
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QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HARFORD COUNTY, MARYLAND -- Continued

	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE (UG/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	1,2- TRANSDI CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)
HA Be 39	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
HA Bb 104	--	--	--	--	--	--	--	--	--
HA Ad 15	--	--	--	--	--	--	--	--	--
HA Ab 12	--	--	--	--	--	--	--	--	--

	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2,2-DI- CHLORO- PRO- PANE WAT. WH TOTAL (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)
HA Be 39	<0.200	<0.200	<0.006	0.061	<0.007	0.006	<0.013	<0.008	<0.046
HA Bb 104	--	--	<0.006	<0.009	<0.007	0.720	<0.013	<0.008	<0.046
HA Ad 15	--	--	<0.006	<0.009	<0.007	<0.017	<0.013	<0.008	<0.046
HA Ab 12	--	--	<0.006	<0.009	<0.007	0.350	<0.013	<0.008	<0.046

	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT. REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT
HA Be 39	<0.013	<0.005	<0.013	<0.008	<0.004	0.340	<1.00	<0.008	80.0
HA Bb 104	0.037	<0.008	<0.013	<0.060	<0.004	0.600	--	<0.008	60.0
HA Ad 15	<0.013	<0.008	<0.013	<0.060	<0.004	<0.005	--	<0.008	2.70
HA Ab 12	<0.013	<0.008	<0.013	<0.060	<0.004	1.00	--	<0.008	70.0

	DI- ELDRIN DIS- SOLVED (UG/L)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER FLTRD DISS REC (UG/L)	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)
HA Be 39	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011	<0.039	<0.010
HA Bb 104	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011	<0.039	<0.014
HA Ad 15	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011	<0.039	<0.014
HA Ab 12	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011	<0.039	<0.014

	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPHTH- ALENE TOTAL (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L)
HA Be 39	<0.038	<0.035	0.560	<0.012	<0.007	<0.200	<0.010	<0.022	<0.009
HA Bb 104	<0.050	<0.035	0.700	<0.012	<0.007	--	<0.010	<0.022	<0.009
HA Ad 15	<0.050	<0.035	<0.009	<0.012	<0.007	--	<0.010	<0.022	<0.009
HA Ab 12	<0.050	<0.035	0.760	<0.012	<0.007	--	<0.010	<0.022	<0.009

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HARFORD COUNTY, MARYLAND -- Continued

	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO-METON, WATER, DISS, REC (UG/L)	PROP-CHLOR, WATER, DISS, REC (UG/L)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)
HA Be 39	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016	<0.006
HA Bb 104	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016	<0.008
HA Ad 15	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016	<0.008
HA Ab 12	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016	<0.008

	SI-MAZINE, WATER, DISS, REC (UG/L)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)
HA Be 39	<0.008	<0.015	<0.030	<0.012	116	<0.008	<0.008	<0.012	<0.200
HA Bb 104	0.013	<0.015	<0.030	<0.012	90.5	<0.008	<0.008	<0.012	--
HA Ad 15	0.021	<0.015	<0.030	<0.012	82.5	<0.008	<0.008	<0.012	--
HA Ab 12	<0.008	<0.015	<0.030	<0.012	95.6	<0.008	<0.008	<0.012	--

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HOWARD COUNTY, MARYLAND

	DATE	TIME	STATION	NUMBER	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)
HO Cd 78	06-08-94	1300	391440076555402	300LCRV	GW		4040	7.98	19.00	9.0
	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	FLOW RATE, INSTAN-TANEOUS (G/M)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	ALKA-LINITY WAT WH TOT IT FIELD MG/L AS CACO3
HO Cd 78	19	426	30	2.0	100	5.4	11.5	26.0	8.5	7
	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SODIUM, DIS-SOLVED (MG/L AS NA)	SULFATE DIS-SOLVED (MG/L AS SO4)	
HO Cd 78	31	5.2	10	<0.10	4.3	1.6	13	3.3	4.6	
	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	
HO Cd 78	74	67	<0.010	4.50	4.50	<0.010	0.020	<0.010	20	
	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ALA-CHLOR, WATER, DISS, REC (UG/L)	ALPHA BHC DIS-SOLVED (UG/L)	ATRA-ZINE, WATER, DISS, REC (UG/L)	
HO Cd 78	5	<10	3	0.10	<0.02	<0.006	0.022	<0.007	0.091	
	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L)	BUTYL-ATE, WATER, DISS, REC (UG/L)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR-PYRIFOS DIS-SOLVED (UG/L)	CYANA-ZINE, WATER, DISS, REC (UG/L)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L)	
HO Cd 78	<0.013	<0.008	<0.046	0.240	<0.005	0.027	<0.008	<0.004	0.460	

Geologic unit (aquifer): 300LCRV - Loch Raven Schist

Site type: GW - Groundwater

Sampling method: 4040 - Submersible pump

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HOWARD COUNTY, MARYLAND -- Continued

		DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT	DI- ELDRIN DIS- SOLVED (UG/L)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)	LINDANE DIS- SOLVED (UG/L)
HO Cd	78	0.008	76.7	<0.008	<0.02	<0.005	<0.013	<0.012	<0.008	<0.011
		LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PARA- THION, DIS- SOLVED (UG/L)
HO Cd	78	<0.039	<0.010	<0.038	<0.035	0.074	<0.012	<0.007	<0.010	<0.022
		PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P, P' DDE DISSOLV (UG/L)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)
HO Cd	78	<0.009	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016
		PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)
HO Cd	78	<0.006	<0.008	<0.015	<0.030	<0.012	109	<0.008	<0.008	<0.012

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

KENT COUNTY, DELAWARE

WELL NUMBER	DATE	TIME	STATION	NUMBER	SITE	SAM- PLING METHOD, CODES	DEPTH ABOVE LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)
IB1-C-GW	05-22-95	1330	390724075352102		PIEZ	4080	+0.4	1.30	45.0	5
WELL NUMBER	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	HARD- NESS TOTAL (MG/L AS CACO3)	BROMIDE DIS- SOLVED (MG/L AS BR)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
IB1-C-GW	0.1	276	6.0	19.0	1.5	33	110	0.040	26	14
WELL NUMBER	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
IB1-C-GW	<0.10	11	1.4	12	3.6	37	165	160	8.2	7.89
WELL NUMBER	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	N15/N14 NO3 FRAC WATER FLTRD 0.45 U PER MIL
IB1-C-GW	0.010	7.90	7.90	0.050	0.30	<0.010	<0.010	20	8	6.1

Site type: PIEZ - Piezometer

Sampling method: 4080 - Peristaltic pump

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
NEW CASTLE COUNTY, DELAWARE

WELL NUMBER	DATE	TIME	STATION	NUMBER	SITE	SAM- PLING METHOD, CODES	DEPTH ABOVE LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)
CB11-B-GW	05-22-95	1115	391815075433802		PIEZ	4080	+0.4	1.30	70.0	5
WELL NUMBER	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	HARD- NESS TOTAL (MG/L AS CACO3)	BROMIDE DIS- SOLVED (MG/L AS BR)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
CB11-B-GW	0.1	216	5.5	17.0	1.2	10	49	0.010	12	9.5
WELL NUMBER	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
CB11-B-GW	<0.10	4.6	3.5	14	6.6	24	109	104	5.4	5.09
WELL NUMBER	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	N15/N14 NO3 FRAC WATER FLTRD 0.45 U PER MIL
CB11-B-GW	0.010	5.10	5.10	0.040	0.30	0.020	0.020	30	32	8.3

Site type: PIEZ - Piezometer

Sampling method: 4080 - Peristaltic pump

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

SUSSEX COUNTY, DELAWARE

WELL NUMBER	DATE	TIME	STATION	NUMBER	SITE	SAM- PLING METHOD, CODES	DEPTH ABOVE LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)
BB2-J-GW	05-16-95	1345	384129075380602		PIEZ	4080	+0.6	1.30	35.0	5
BB6-L-GW	05-16-95	1515	384203075395602		PIEZ	4080	+0.6	2.30	45.0	5
GD3-F-GW	05-16-95	1000	384528075245702		PIEZ	4080	+0.6	2.00	40.0	5
GD4-H-GW	05-16-95	1130	384608075245202		PIEZ	4080	+0.5	2.30	45.0	5
PB6-C-GW	05-15-95	1430	383917075130702		PIEZ	4080	+0.2	1.60	15.0	5
PB7-B-GW	05-15-95	1315	383930075123102		PIEZ	4080	+0.4	2.30	10.0	5

WELL NUMBER	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	HARD- NESS TOTAL (MG/L AS CACO3)	BROMIDE DIS- SOLVED (MG/L AS BR)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
BB2-J-GW	0.1	157	5.6	23.0	5.0	5	37	0.030	11	13
BB6-L-GW	0.1	61	6.0	20.0	3.5	17	6	0.030	1.6	5.0
GD3-F-GW	0.1	102	6.4	18.5	6.6	42	4	0.10	1.2	4.8
GD4-H-GW	0.1	96	4.9	19.0	3.1	1	11	0.050	1.3	21
PB6-C-GW	0.1	139	5.4	16.0	6.3	4	38	0.030	8.8	13
PB7-B-GW	0.1	112	5.8	18.0	3.7	10	27	0.040	8.1	10

WELL NUMBER	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
BB2-J-GW	<0.10	2.3	2.7	16	8.2	<0.10	119	--	10	<0.010
BB6-L-GW	<0.10	0.51	1.2	29	7.6	0.70	61	57	--	<0.010
GD3-F-GW	<0.10	0.34	1.0	32	6.0	0.30	76	72	--	<0.010
GD4-H-GW	<0.10	1.9	3.0	11	8.8	3.1	66	52	--	<0.010
PB6-C-GW	<0.10	3.8	2.1	15	6.2	<0.10	106	--	--	<0.010
PB7-B-GW	<0.10	1.6	1.3	22	7.8	2.4	93	82	5.08	0.020

WELL NUMBER	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	N15/N14 NO3 FRAC WATER FILTRD 0.45 U PER MIL
BB2-J-GW	9.70	9.70	0.050	0.40	<0.010	<0.010	40	5	--
BB6-L-GW	0.580	0.580	0.020	<0.20	0.040	0.040	17	5	5.8
GD3-F-GW	--	<0.050	0.070	<0.20	<0.010	0.010	18000	98	--
GD4-H-GW	0.060	0.060	0.030	<0.20	<0.010	<0.010	120	6	--
PB6-C-GW	9.40	9.40	<0.015	<0.20	<0.010	<0.010	5	5	4.4
PB7-B-GW	5.10	5.10	<0.015	<0.20	<0.010	<0.010	8	1	--

Site type: PIEZ - Piezometer

Sampling method: 4080 - Peristaltic pump

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
ALLEGANY COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
AL Ah 27	06-16-95	0930	394116078252401	341HMPR	GW		4040	272.00	272	1080
WELL NUMBER	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
AL Ah 27	74	3.0	192	8.1	12.5	19.5	743	1.9	18	94
WELL NUMBER	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3	HARD- NESS TOTAL (MG/L AS CACO3)	BROMIDE DIS- SOLVED (MG/L AS BR)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)
AL Ah 27	115	85	0.010	19	1.2	<0.10	9.1	1.0	15	7.7
WELL NUMBER	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
AL Ah 27	6.9	113	118	<0.010	0.350	0.350	<0.015	<0.20	0.060	0.060
WELL NUMBER	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	RADON 222 TOTAL (PCI/L)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)	TRITIUM TOTAL (PCI/L)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)
AL Ah 27	<3	<1	2200	51	5.0	1.0	5.2	1.6	0.20	<0.006
WELL NUMBER	ACETO- CHLOR, WATER, FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)
AL Ah 27	<0.009	<0.009	<0.007	<0.017	<0.013	<0.008	<0.046	<0.013	<0.005	<0.013

Geologic unit (aquifer): 341HMPR - Hampshire Formation

Site type: GW - Groundwater

Sampling method: 4040 - Submersible pump

QUALITY OF GROUND WATER

511

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

ALLEGANY COUNTY, MARYLAND--Continued

WELL NUMBER	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT	DI- ELDRIN DIS- SOLVED (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)
AL Ah 27	<0.060	<0.004	<0.003	<0.008	105	<0.008	<0.005	<0.013	<0.012	<0.008

WELL NUMBER	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PARA- THION, DIS- SOLVED (UG/L)
AL Ah 27	<0.011	<0.039	<0.014	<0.038	<0.035	<0.009	<0.012	<0.007	<0.010	<0.022

WELL NUMBER	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)
AL Ah 27	<0.009	<0.016	<0.011	<0.018	<0.010	<0.009	<0.008	<0.015	<0.016

WELL NUMBER	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)
AL Ah 27	<0.006	<0.008	<0.015	<0.030	<0.012	92.8	<0.008	<0.008	<0.012

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
BALTIMORE COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
BA Ab 51	04-18-95	1000	394206076470201	300PRTB	GW	8030	8030	79.88	150.00	55
BA Ab 52	07-06-95	1400	394011076465601	300PRTB	GW	8030	8030	--	100.00	24
BA Ac 151	11-30-94	1100	394057076423301	300PRTB	GW	8030	8030	--	198.00	57
BA Ad 145	12-01-94	1400	394130076360101	300PRTB	GW	8030	8030	--	240.00	40
BA Ad 146	03-27-95	1100	394019076374501	300PRTB	GW	8030	8030	61.39	100.00	48
BA Ad 147	05-11-95	1300	394243076383201	300PRTB	GW	8030	8030	48.94	200.00	64
	05-11-95	1310		300PRTB	GW	--	--	48.94	200.00	64
BA Ad 148	05-16-95	1500	394303076355401	300PRTB	GW	8030	8030	--	403.00	42
BA Ad 149	05-23-95	1000	394250076370801	300PRTB	GW	8030	8030	--	300.00	73
BA Ae 19	11-21-94	1400	394013076343001	300PRTB	GW	8030	8030	--	225.00	65
BA Bb 138	10-31-94	1400	393543076451301	300PRTB	GW	8030	8030	32.51	120.00	37
BA Bb 139	12-29-94	1100	393843076462401	300PRTB	GW	8030	8030	45.97	200.00	25
BA Bb 140	02-22-95	1200	393746076470001	300PRTB	GW	8030	8030	58.60	116.00	35
BA Bb 141	03-01-95	1600	393723076471401	300PRTB	GW	8030	8030	--	125.00	39
BA Bb 143	03-14-95	1300	393607076485001	300PRTB	GW	8030	8030	13.19	252.00	86
BA Bb 144	03-20-95	1100	393544076463401	300PRTB	GW	8030	8030	13.93	110.00	48
BA Bb 145	03-21-95	1100	393540076455801	300PRTB	GW	8030	8030	32.70	225.00	72
BA Bb 147	05-18-95	1000	393641076493501	300PRTB	GW	8030	8030	--	200.00	55
BA Bb 148	06-20-95	1000	393707076450801	300PRTB	GW	8030	8030	--	300.00	28
BA Bb 150	07-24-95	1300	393639076480601	300PRTB	SP	4010	4010	--	--	--
BA Bb 151	07-24-95	1200	393643076480201	300PRTB	GW	4040	4040	38.90	200.00	38
BA Bc 267	12-21-94	1200	393633076443801	300PRTB	GW	8030	8030	31.90	150.00	39
	05-09-95	1200		300PRTB	GW	8030	8030	--	150.00	39
	06-13-95	1330		300PRTB	GW	8030	8030	--	150.00	39
	07-13-95	1300		300PRTB	GW	8030	8030	--	150.00	39
	08-07-95	1300		300PRTB	GW	8030	8030	--	150.00	39
	09-12-95	1100		300PRTB	GW	8030	8030	--	150.00	39
BA Bc 268	12-13-94	1100	393929076441301	300PRTB	GW	8030	8030	--	120.00	63
BA Bc 270	04-11-95	1100	393918076412801	300PRTB	GW	8030	8030	68.52	250.00	84
BA Bc 271	04-19-95	1000	393818076411501	300PRTB	GW	8030	8030	65.90	300.00	50
BA Bc 272	05-16-95	1000	393803076420101	300PRTB	GW	8030	8030	49.83	385.00	29
BA Bc 273	05-18-95	1400	393755076402801	300PRTB	GW	8030	8030	46.44	350.00	95
BA Bc 274	06-07-95	1000	393639076435501	300PRTB	GW	8030	8030	30.11	325.00	69
BA Bc 275	07-05-95	1400	393534076401601	300PNRN	GW	8030	8030	36.86	225.00	49
BA Bd 225	11-21-94	1100	393902076371301	300PRTB	GW	8030	8030	--	150.00	21
BA Bd 226	12-12-94	1000	393936076352101	300PRTB	GW	8030	8030	29.23	300.00	70
BA Bd 227	12-07-94	1000	393928076381301	300PRTB	GW	8030	8030	--	200.00	20
BA Bd 229	01-11-95	1500	393741076380601	300PLGV	GW	8030	8030	45.35	147.00	23
	01-19-95	1512		300PLGV	GW	8030	8030	--	147.00	23
BA Bd 231	05-23-95	1500	393732076354101	300LCRV	GW	8030	8030	20.92	150.00	20
BA Bd 232	07-19-95	1400	393554076384401	300PNRN	GW	8030	8030	57.46	200.00	69
BA Be 38	01-19-95	1100	393519076344701	300STRS	GW	8030	8030	39.71	175.00	57
BA Ca 66	07-19-95	1000	393355076501901	300PRTB	GW	8030	8030	39.72	210.00	94
BA Ca 69	04-10-95	1100	393222076510501	300PRTB	GW	8030	8030	23.97	148.00	40
BA Cb 136	11-09-94	1230	393119076454501	400BLMR	GW	8030	8030	32.19	100.00	60
	05-09-95	1300		400BLMR	GW	8030	8030	--	100.00	60
	06-12-95	1500		400BLMR	GW	8030	8030	--	100.00	60
	07-12-95	1530		400BLMR	GW	8030	8030	--	100.00	60
	08-08-95	1600		400BLMR	GW	8030	8030	--	100.00	60
	09-11-95	1330		400BLMR	GW	8030	8030	--	100.00	60
BA Cb 137	12-22-94	1100	393403076454201	300PLGV	GW	8030	8030	--	160.00	78
	05-09-95	1400		300PLGV	GW	8030	8030	--	160.00	78
	06-13-95	1500		300PLGV	GW	8030	8030	--	160.00	78
	07-13-95	1400		300PLGV	GW	8030	8030	--	160.00	78
	08-07-95	1430		300PLGV	GW	8030	8030	--	160.00	78

Geologic unit (aquifer): 300CCKV - Cockeysville Marble
 300LCRV - Loch Raven Schist
 300MMSG - Mount Washington Amphibolite
 300PLGV - Pleasant Grove Schist
 300PNRN - Piney Run Formation
 300PRTB - Prettyboy Schist
 300STRS - Setters Formation
 300UMFC - Ultramafic Rocks
 370HLFD - Holofield Layered
 400BLMR - Baltimore Gneiss
 400SGTS - Slaughterhouse Gneiss

Site type: GW - Groundwater
 SP - Spring

Sampling method: 4010 - Thief sample
 4040 - Submersible pump
 8030 - Grab sample at
 water supply tap

QUALITY OF GROUND WATER

513

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
BA Ab 51	150	860	36	2.5	132	5.1	12.0	17.5	8.9	3
BA Ab 52	100	740	20	1.4	86	5.3	14.0	30.0	8.4	7
BA Ac 151	198	760	55	5.0	32	5.9	11.5	9.0	9.3	9
BA Ad 145	240	690	65	2.1	159	6.0	12.0	6.0	8.1	21
BA Ad 146	100	720	42	2.2	26	5.8	11.5	12.0	9.0	8
BA Ad 147	200	780	30	2.1	106	5.1	13.5	21.5	8.9	3
	200	780	30	2.1	106	5.1	13.5	21.5	8.9	3
BA Ad 148	403	620	40	1.5	229	6.4	13.5	26.0	6.0	31
BA Ad 149	300	720	32	1.5	47	6.4	14.0	21.0	7.9	11
BA Ae 19	225	660	65	6.0	38	5.7	11.5	12.5	8.8	--
BA Bb 138	120	685	48	2.0	304	6.1	13.5	19.0	6.6	--
BA Bb 139	200	620	58	2.0	69	6.2	10.5	4.5	8.8	17
BA Bb 140	116	660	101	2.7	266	6.2	12.5	2.5	8.0	17
BA Bb 141	125	640	59	3.8	--	--	11.5	4.5	8.3	--
BA Bb 143	252	760	39	2.3	139	6.6	11.0	21.5	5.5	20
BA Bb 144	110	660	48	1.4	94	6.2	12.5	16.0	6.4	24
BA Bb 145	225	690	44	2.3	92	6.4	13.0	14.0	7.9	24
BA Bb 147	200	800	30	1.6	37	5.7	12.0	20.5	9.5	11
BA Bb 148	300	700	40	2.1	172	5.3	13.0	32.0	8.7	4
BA Bb 150	--	620	--	--	465	7.1	18.5	28.0	--	68
BA Bb 151	200	660	50	15	407	--	13.5	28.0	9.4	25
BA Bc 267	150	630	50	2.6	413	5.7	12.0	10.0	8.0	15
	150	630	15	1.2	424	5.5	13.0	--	--	--
	150	630	30	1.3	426	5.5	14.0	24.5	--	--
	150	630	20	1.3	426	5.6	14.0	32.5	--	--
	150	630	30	1.9	431	5.7	14.0	23.5	--	--
	150	630	25	1.6	427	5.7	14.0	23.5	--	--
BA Bc 268	120	620	72	4.6	99	6.2	12.0	1.0	8.1	22
BA Bc 270	250	775	30	2.0	52	5.6	12.0	8.5	9.4	--
BA Bc 271	300	690	35	1.9	82	6.5	12.0	24.0	5.4	38
BA Bc 272	385	760	20	1.5	170	5.4	13.5	21.5	5.4	17
BA Bc 273	350	660	25	1.3	721	5.7	12.5	20.0	8.3	11
BA Bc 274	325	610	41	1.8	172	6.7	13.5	29.5	6.3	32
BA Bc 275	225	620	35	1.0	861	5.3	15.0	27.5	1.1	25
BA Bd 225	150	580	37	3.0	84	--	12.5	13.0	8.4	--
BA Bd 226	300	700	45	4.0	169	6.6	12.5	-3.0	4.8	40
BA Bd 227	200	590	50	4.0	224	5.6	12.0	--	9.6	7
BA Bd 229	147	400	62	3.0	129	6.0	11.5	1.0	9.8	8
	147	400	70	2.6	139	--	12.0	--	--	--
BA Bd 231	150	520	30	1.5	340	7.1	12.5	27.0	8.3	152
BA Bd 232	200	600	25	2.1	43	5.9	13.5	29.0	9.1	7
BA Be 38	175	470	67	3.0	87	6.8	12.5	6.5	7.2	28
BA Ca 66	210	790	40	2.0	97	5.6	14.0	27.0	7.9	23
BA Ca 69	148	650	63	2.5	130	5.8	12.0	8.5	7.9	17
BA Cb 136	100	440	55	2.4	296	6.0	15.0	22.5	7.7	14
	100	440	20	1.8	299	5.8	12.5	--	--	--
	100	440	35	2.4	299	5.9	14.0	17.0	--	--
	100	440	56	2.3	313	5.7	17.0	31.0	--	--
	100	440	20	2.0	300	5.9	20.0	25.0	--	--
	100	440	45	1.8	294	6.0	16.5	21.5	--	--
BA Cb 137	160	630	63	3.0	132	5.8	12.5	3.0	9.1	12
	160	630	20	2.3	133	5.5	13.5	--	--	--
	160	630	30	1.5	135	5.5	14.5	19.5	--	--
	160	630	28	1.6	135	5.6	15.0	38.0	--	--
	160	630	20	3.5	134	5.6	14.5	23.5	--	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
BA Ab 51	38	5.3	13	<0.10	6.0	1.2	5.7	5.5	<0.10	84
BA Ab 52	26	4.8	7.5	<0.10	3.3	1.0	12	3.2	1.5	64
BA Ac 151	10	2.6	1.7	<0.10	0.75	0.30	9.6	2.1	0.50	20
BA Ad 145	49	14	10	<0.10	3.5	2.5	15	6.3	8.0	118
BA Ad 146	9	1.8	2.2	<0.10	1.1	0.30	7.9	1.5	0.20	18
BA Ad 147	32	5.0	5.9	<0.10	4.7	0.80	6.3	2.9	<0.10	66
BA Ad 148	81	26	11	<0.10	3.9	2.2	15	5.9	13	140
BA Ad 149	14	3.5	2.8	0.10	1.2	0.20	13	2.8	1.5	38
BA Ae 19	11	2.7	2.0	<0.10	1.1	0.40	8.8	2.1	0.40	24
BA Bb 138	100	28	21	0.20	7.5	1.7	63	13	14	--
BA Bb 139	26	7.8	3.9	<0.10	1.6	0.70	13	3.7	3.3	54
BA Bb 140	88	25	54	<0.10	6.3	1.3	18	9.6	1.0	176
BA Bb 141	23	5.9	3.1	<0.10	2.0	0.70	16	3.9	1.7	46
BA Bb 143	47	15	4.8	<0.10	2.4	0.50	18	5.4	1.9	94
BA Bb 144	29	7.2	4.4	<0.10	2.7	1.9	23	5.1	3.5	70
BA Bb 145	33	9.1	3.1	<0.10	2.5	0.60	18	4.3	3.8	70
BA Bb 147	9	2.3	3.2	<0.10	0.85	0.40	12	3.3	0.10	20
BA Bb 148	51	10	21	<0.10	6.4	2.3	8.3	6.1	0.60	96
BA Bb 150	160	46	68	<0.10	10	2.9	8.9	21	11	334
BA Bb 151	150	37	74	<0.10	15	1.7	20	8.0	3.4	332
BA Bc 267	130	34	82	<0.10	11	2.2	14	16	6.8	252
--	--	--	80	--	--	--	--	--	--	--
--	--	--	82	--	--	--	--	--	--	--
--	--	--	82	--	--	--	--	--	--	--
--	--	--	80	--	--	--	--	--	--	--
--	--	--	75	--	--	--	--	--	--	--
BA Bc 268	34	9.9	7.4	<0.10	2.3	0.90	14	3.9	2.3	74
BA Bc 270	14	3.3	2.7	<0.10	1.5	0.60	7.8	2.7	<0.10	32
BA Bc 271	36	11	2.2	<0.10	2.1	0.50	13	3.1	2.9	54
BA Bc 272	38	8.0	29	<0.10	4.4	0.80	8.9	15	1.3	96
BA Bc 273	140	31	190	<0.10	14	1.8	13	69	0.70	416
BA Bc 274	59	19	16	<0.10	2.7	0.70	14	5.5	1.6	104
BA Bc 275	230	43	230	<0.10	30	5.7	18	52	3.4	596
BA Bd 225	25	3.5	6.9	<0.10	4.0	0.60	8.2	2.9	0.70	48
BA Bd 226	64	19	8.8	<0.10	3.9	0.70	13	4.6	2.7	104
BA Bd 227	74	18	17	<0.10	7.1	1.4	11	5.7	0.60	146
BA Bd 229	27	5.0	20	<0.10	3.6	0.60	8.8	10	7.5	76
BA Bd 231	170	14	2.3	<0.10	32	0.90	16	1.8	17	180
BA Bd 232	10	2.1	5.0	<0.10	1.1	0.90	11	3.3	0.60	26
BA Be 38	26	5.0	3.1	0.30	3.2	2.9	21	4.6	7.7	66
BA Ca 66	31	8.7	3.4	<0.10	2.2	0.60	19	5.1	6.6	74
BA Ca 69	43	12	11	<0.10	3.2	0.90	14	4.6	0.50	68
BA Cb 136	96	25	49	<0.10	8.2	2.6	29	9.3	8.9	194
--	--	--	51	--	--	--	--	--	--	--
--	--	--	50	--	--	--	--	--	--	--
--	--	--	52	--	--	--	--	--	--	--
--	--	--	53	--	--	--	--	--	--	--
--	--	--	50	--	--	--	--	--	--	--
BA Cb 137	36	9.5	10	<0.10	3.1	1.1	14	6.9	<0.10	84
--	37	9.4	10	<0.10	3.3	1.0	14	7.4	<0.10	98
--	--	--	11	--	--	--	--	--	--	--
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
BA Ab 51	--	<0.010	8.20	8.20	<0.015	<0.010	0.020	<1	<1	24
BA Ab 52	58	<0.010	4.30	4.30	0.020	<0.010	0.010	<1	<1	29
BA Ac 151	27	<0.010	0.840	0.840	<0.015	0.020	0.030	<1	<1	<2
BA Ad 145	103	<0.010	6.80	6.80	<0.015	0.560	<0.010	<1	<1	<2
BA Ad 146	22	<0.010	0.310	0.310	<0.015	0.020	0.020	<1	<1	<2
BA Ad 147	--	<0.010	9.00	9.00	<0.015	0.020	0.010	<1	<1	16
BA Ad 148	140	<0.010	9.10	9.10	0.020	<0.010	<0.010	<1	<1	6
BA Ad 149	37	<0.010	0.800	0.800	0.020	<0.010	0.020	<1	<1	<2
BA Ae 19	27	<0.010	0.180	0.180	<0.015	0.010	0.010	<1	<1	4
BA Bb 138	212	<0.010	9.70	9.70	<0.015	0.040	0.020	<1	<1	11
BA Bb 139	52	<0.010	0.620	0.620	<0.015	0.060	0.030	<1	<1	3
BA Bb 140	142	<0.010	2.80	2.80	0.020	0.030	0.030	<1	<1	6
BA Bb 141	49	<0.010	--	<0.050	<0.015	0.020	<0.010	<1	<1	6
BA Bb 143	98	<0.010	7.50	7.50	0.020	<0.010	<0.010	<1	<1	<2
BA Bb 144	73	<0.010	2.40	2.40	<0.015	0.020	0.020	<1	<1	<2
BA Bb 145	68	<0.010	2.30	2.30	<0.015	<0.010	0.020	<1	<1	<2
BA Bb 147	31	<0.010	0.120	0.120	<0.015	0.050	0.050	<1	<1	<2
BA Bb 148	99	<0.010	9.10	9.10	0.030	0.010	<0.010	<1	<1	75
BA Bb 150	244	<0.010	7.50	7.50	<0.015	<0.010	<0.010	--	--	--
BA Bb 151	221	<0.010	9.00	9.00	<0.015	<0.010	0.020	<1	<1	60
BA Bc 267	214	<0.010	8.50	8.50	<0.015	0.010	0.030	<1	<1	44
	--	--	9.80	9.80	--	--	--	--	--	--
	--	--	10.0	10.0	--	--	--	--	--	--
	--	--	2.00	2.00	--	--	--	--	--	--
	--	--	10.0	10.0	--	--	--	--	--	--
	--	--	11.0	11.0	--	--	--	--	--	--
BA Bc 268	67	<0.010	2.90	2.90	<0.015	0.010	<0.010	<1	<1	3
BA Bc 270	--	<0.010	3.40	3.40	<0.015	0.020	0.030	<1	<1	<2
BA Bc 271	58	<0.010	0.110	0.110	<0.015	0.020	0.020	<1	<1	10
BA Bc 272	94	<0.010	3.60	3.60	0.020	0.030	0.030	<1	<1	21
BA Bc 273	331	<0.010	0.590	0.590	<0.015	<0.010	<0.010	<1	<1	190
BA Bc 274	101	<0.010	4.70	4.70	0.020	<0.010	0.020	<1	<1	18
BA Bc 275	407	<0.010	2.10	2.10	<0.015	<0.010	<0.010	<1	<1	140
BA Bd 225	52	<0.010	4.70	4.70	<0.015	0.020	0.010	<1	<1	14
BA Bd 226	105	<0.010	6.10	6.10	<0.015	0.010	<0.010	<1	<1	7
BA Bd 227	136	<0.010	16.0	16.0	<0.015	<0.010	<0.010	<1	<1	33
BA Bd 229	71	<0.010	2.50	2.50	<0.015	0.020	0.020	<1	<1	12
BA Bd 231	184	<0.010	1.00	1.00	<0.015	<0.010	0.010	<1	<1	7
BA Bd 232	34	<0.010	1.10	1.10	<0.015	<0.010	<0.010	<1	<1	8
BA Be 38	65	<0.010	--	<0.050	<0.015	<0.010	<0.010	<1	3	14
BA Ca 66	71	<0.010	2.30	2.30	0.020	0.050	0.060	<1	<1	<2
BA Ca 69	81	<0.010	5.40	5.40	<0.015	<0.010	<0.010	<1	<1	7
BA Cb 136	175	<0.010	7.40	7.40	<0.015	0.010	0.010	<1	<1	100
	--	--	7.20	7.20	--	--	--	--	--	--
	--	--	7.90	7.90	--	--	--	--	--	--
	--	--	10.0	10.0	--	--	--	--	--	--
	--	--	8.80	8.80	--	--	--	--	--	--
	--	--	7.40	7.40	--	--	--	--	--	--
BA Cb 137	--	<0.010	8.10	8.10	<0.015	0.040	0.020	<1	<1	<2
	--	<0.010	8.40	8.40	<0.015	0.030	0.020	--	--	--
	--	--	9.00	9.00	--	--	--	--	--	--
	--	--	5.80	5.80	--	--	--	--	--	--
	--	--	8.50	8.50	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	CYANIDE DIS- SOLVED (MG/L AS CN)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
BA Ab 51	<10	<1.0	<1	64	<0.01	160	<3	16	40	29
BA Ab 52	<10	<1.0	<1	11	<0.01	50	8	<1	<10	6
BA Ac 151	<0.5	<1.0	<1	6	<0.01	1600	12	<1	<10	2
BA Ad 145	<0.5	<1.0	<1	4	<0.01	2600	6	<1	30	16
BA Ad 146	<10	<1.0	<1	15	<0.01	140	<3	4	10	<1
BA Ad 147	<10	<1.0	<1	15	<0.01	40	<3	2	20	13
BA Ad 148	<10	<1.0	<1	22	<0.01	70	3	<1	<10	1
BA Ad 149	<10	<1.0	<1	6	<0.01	40	4	<1	<10	<1
BA Ae 19	<0.5	<1.0	<1	10	<0.01	4000	7	2	10	3
BA Bb 138	<0.5	<1.0	<1	74	<0.01	120	<3	8	20	8
BA Bb 139	<10	<1.0	<1	9	<0.01	20	<3	2	<10	<1
BA Bb 140	<10	<1.0	<1	2	<0.01	60	11	<1	<10	<1
BA Bb 141	<10	<1.0	<1	10	<0.01	10	<3	<1	<10	<1
BA Bb 143	<10	<1.0	<1	8	<0.01	380000	5	<1	90	5
BA Bb 144	<10	<1.0	<1	2	<0.01	17000	18	<1	<10	3
BA Bb 145	<10	<1.0	<1	8	<0.01	100	8	<1	20	14
BA Bb 147	<10	<1.0	<1	12	<0.01	20	<3	<1	<10	<1
BA Bb 148	<10	<1.0	<1	22	<0.01	<10	4	12	110	110
BA Bb 150	--	--	--	--	--	110	41	--	40	41
BA Bb 151	<10	<1.0	<1	1	<0.01	12000	29	<1	290	7
BA Bc 267	<0.5	<1.0	<1	34	<0.01	840	4	2	10	7
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BA Bc 268	<0.5	<1.0	<1	10	<0.01	320	32	<1	<10	3
BA Bc 270	<10	<1.0	<1	23	<0.01	6400	<3	4	30	9
BA Bc 271	<10	<1.0	<1	9	<0.01	20	<3	<1	<10	4
BA Bc 272	<10	<1.0	<1	53	<0.01	10	<3	4	60	59
BA Bc 273	<10	<1.0	<1	23	<0.01	80	24	6	40	39
BA Bc 274	<10	<1.0	<1	9	<0.01	1000	<3	<1	<10	7
BA Bc 275	<10	<1.0	<1	1	<0.01	130	110	<1	130	96
BA Bd 225	<0.5	<1.0	<1	11	<0.01	40	<3	2	<10	3
BA Bd 226	<0.5	<1.0	<1	2	<0.01	<10	<3	3	<10	6
BA Bd 227	<0.5	<1.0	<1	5	<0.01	<10	<3	3	<10	<1
BA Bd 229	<10	<1.0	<1	10	<0.01	10	<3	<1	<10	<1
BA Bd 231	<10	<1.0	10	5	<0.01	130	8	1	10	<1
BA Bd 232	<10	<1.0	<1	16	<0.01	<10	7	2	<10	2
BA Be 38	<0.5	<1.0	<1	<1	<0.01	17000	37	<1	40	24
BA Ca 66	<10	<1.0	<1	17	<0.01	670	4	<1	<10	2
BA Ca 69	<10	<1.0	<1	9	<0.01	7600	10	<1	20	4
BA Cb 136	<0.5	<1.0	<1	18	<0.01	210	6	2	<10	<1
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BA Cb 137	<0.5	<1.0	<1	9	<0.01	140	4	<1	<10	7
	--	--	--	--	--	50	<3	--	<10	2
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADON 222 TOTAL (PCI/L)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	FREON- 113 WATER UNFLTRD REC (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
BA Ab 51	<0.1	2	<1	<1	20	2300	44	1.6	<3.00	<0.02
BA Ab 52	<0.1	<1	<1	<1	<10	2100	43	0.40	<3.00	<0.02
BA Ac 151	<0.1	<1	<1	<1	<3	3700	56	0.10	<3.00	<0.02
BA Ad 145	<0.1	<1	<1	<1	<3	5900	67	1.1	<3.00	<0.02
BA Ad 146	<0.1	<1	<1	<1	<10	8400	80	0.90	<3.00	<0.02
BA Ad 147	<0.1	<1	<1	<1	<10	4300	57	0.80	<3.00	<0.02
BA Ad 148	<0.1	<1	<1	<1	<10	520	23	0.30	<3.00	<0.02
BA Ad 149	<0.1	<1	<1	<1	<10	4100	58	0.10	<3.00	<0.02
BA Ae 19	<0.1	<1	<1	<1	<3	4200	55	0.10	<3.00	0.02
BA Bb 138	<0.1	1	<1	--	11	3300	50	0.60	<3.00	0.03
BA Bb 139	<0.1	<1	<1	<1	<10	1900	39	0.40	<3.00	<0.02
BA Bb 140	<0.1	<1	<1	<1	<10	4600	59	0.80	<3.00	<0.02
BA Bb 141	<0.1	<1	<1	<1	<10	1200	31	0.20	<3.00	<0.02
BA Bb 143	<0.1	<1	<1	<1	<10	670	26	2.7	<3.00	<0.02
BA Bb 144	<0.1	<1	<1	<1	<10	1800	39	0.40	<3.00	<0.02
BA Bb 145	<0.1	<1	<1	<1	<10	2700	47	0.20	<3.00	<0.02
BA Bb 147	<0.1	<1	<1	<1	<10	3000	49	0.50	<3.00	<0.02
BA Bb 148	<0.1	2	<1	<1	<10	4500	60	0.10	<3.00	<0.02
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	<0.1	<1	<1	<1	20	110	18	0.40	<3.00	<0.02
BA Bc 267	<0.1	1	<1	<1	<3	2900	47	0.50	<3.00	<0.02
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BA Bc 268	0.1	<1	<1	<1	3	3100	50	0.80	<3.00	0.04
BA Bc 270	<0.1	<1	<1	<1	<10	3300	51	4.3	<3.00	<0.02
BA Bc 271	<0.1	<1	<1	<1	<10	3900	56	2.1	<3.00	<0.02
BA Bc 272	<0.1	<1	<1	<1	20	2100	42	1.3	<3.00	<0.02
BA Bc 273	0.1	9	<1	<1	40	2900	46	0.40	<3.00	<0.02
BA Bc 274	<0.1	<1	<1	<1	<10	8300	82	0.30	<3.00	0.03
BA Bc 275	0.2	7	<1	<1	<10	--	--	0.70	<3.00	0.08
BA Bd 225	<0.1	1	<1	<1	14	2400	43	0.20	<3.00	0.05
BA Bd 226	<0.1	<1	<1	<1	5	4000	57	0.10	<3.00	<0.02
BA Bd 227	<0.1	<1	<1	<1	<3	4300	58	0.20	<3.00	<0.02
BA Bd 229	0.1	<1	<1	<1	<10	--	--	0.30	<3.00	<0.02
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BA Bd 231	<0.1	4	<1	<1	<10	81	15	1.7	<3.00	<0.02
BA Bd 232	<0.1	<1	<1	<1	<10	4600	60	0.20	<3.00	<0.02
BA Be 38	<0.1	<1	<1	<1	8	1700	39	0.50	<3.00	<0.02
BA Ca 66	<0.1	<1	<1	<1	<10	3200	50	0.60	<3.00	<0.02
BA Ca 69	<0.1	<1	<1	<1	<10	2600	45	0.40	<3.00	<0.02
BA Cb 136	<0.1	3	<1	<1	6	2800	48	0.30	<3.00	<0.02
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BA Cb 137	<0.1	<1	<1	<1	<3	4300	57	0.40	<3.00	<0.02
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QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	BENZENE TOTAL (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 124-TRI METHYL UNFLT RECOVER (UG/L)	BENZENE 135-TRI METHYL WATER UNFLT RD REC (UG/L)	BENZENE 14BRFL- SURROG VOC UNFLT RD REC PERCENT	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE N-PROPY WATER UNFLT RD REC (UG/L)
BA Ab 51	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	95.0	<3.00	<3.00
BA Ab 52	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	111	<3.00	<3.00
BA Ac 151	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Ad 145	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	95.0	<3.00	<3.00
BA Ad 146	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00	<3.00
BA Ad 147	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	105	<3.00	<3.00
BA Ad 148	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	91.0	<3.00	<3.00
BA Ad 149	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	102	<3.00	<3.00
BA Ae 19	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bb 138	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bb 139	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00	<3.00
BA Bb 140	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bb 141	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bb 143	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bb 144	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00	<3.00
BA Bb 145	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00	<3.00
BA Bb 147	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00	<3.00
BA Bb 148	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	112	<3.00	<3.00
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00	<3.00
BA Bc 267	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
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BA Bc 268	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bc 270	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	97.0	<3.00	<3.00
BA Bc 271	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	91.0	<3.00	<3.00
BA Bc 272	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	95.0	<3.00	<3.00
BA Bc 273	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	96.0	<3.00	<3.00
BA Bc 274	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	96.0	<3.00	<3.00
BA Bc 275	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	101	<3.00	<3.00
BA Bd 225	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bd 226	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bd 227	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00	<3.00
BA Bd 229	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Bd 231	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	95.0	<3.00	<3.00
BA Bd 232	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	105	<3.00	<3.00
BA Be 38	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Ca 66	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	103	<3.00	<3.00
BA Ca 69	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
BA Cb 136	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00	<3.00
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BA Cb 137	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	101	<3.00	<3.00
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BALTIMORE COUNTY, MARYLAND--Continued

		BENZENE N-BUTYL- WATER UNFLTRD REC	BENZENE SEC BUTYL- WATER UNFLTRD REC	BENZENE TERT- BUTYL- WATER UNFLTRD REC	CARBON- TETRA- CHLO- RIDE TOTAL	CHLORO- BENZENE TOTAL	CHLORO- DI- BROMO- METHANE TOTAL	CHLORO- ETHANE TOTAL	CHLORO- FORM TOTAL	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL	CIS 1,3-DI- CHLORO- PROPENE TOTAL
WELL NUMBER		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
BA Ab	51	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ab	52	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ac	151	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ad	145	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ad	146	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Ad	147	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ad	148	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ad	149	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ae	19	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bb	138	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	139	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	140	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	141	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	143	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bb	144	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	145	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	147	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	148	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bb	150	--	--	--	--	--	--	--	--	--	--
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BA Bb	151	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bc	267	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bc	268	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bc	270	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bc	271	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bc	272	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bc	273	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bc	274	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bc	275	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bd	225	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bd	226	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bd	227	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Bd	229	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bd	231	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Bd	232	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Be	38	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ca	66	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ca	69	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cb	136	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb	137	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

Baltimore County, Maryland--Continued

WELL NUMBER			2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO-CHLOR, WATER FLTRD REC (UG/L)	ALA-CHLOR TOTAL RECOVER (UG/L)	ALA-CHLOR, WATER, DISS, REC, (UG/L)	ALDI-CARB WATER WHOLE TOT. REC (UG/L)	ALPHA BHC DIS-SOLVED (UG/L)	AME-TRYNE TOTAL (UG/L)	ATRA-ZINE, WATER, DISS, REC (UG/L)	ATRA-ZINE WATER UNFLTRD REC (UG/L)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L)
BA Ab 51			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Ab 52			<0.003	<0.002	--	<0.002	<0.500	<0.002	--	0.100	--	<0.002
BA Ac 151			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Ad 145			<0.006	<0.000	--	0.010	<0.500	<0.007	--	0.046	--	<0.013
BA Ad 146			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Ad 147			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	E0.016	--	<0.013
			--	--	<0.100	--	--	--	<0.100	--	<0.100	--
BA Ad 148			<0.006	<0.009	--	0.012	<0.500	<0.007	--	0.540	--	<0.013
BA Ad 149			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Ae 19			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bb 138			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	E0.003	--	<0.013
BA Bb 139			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bb 140			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	E0.003	--	<0.013
BA Bb 141			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bb 143			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bb 144			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	E0.011	--	<0.013
BA Bb 145			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bb 147			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bb 148			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	0.063	--	<0.013
BA Bb 150			--	--	--	--	--	--	--	--	--	--
BA Bb 151			<0.003	<0.002	--	<0.002	<0.500	<0.002	--	0.024	--	<0.002
BA Bc 267			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	0.290	--	<0.013
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BA Bc 268			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bc 270			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bc 271			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bc 272			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bc 273			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bc 274			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	0.066	--	<0.013
BA Bc 275			<0.003	<0.002	--	<0.002	<0.500	<0.002	--	0.089	--	<0.002
BA Bd 225			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	0.100	--	<0.013
BA Bd 226			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	0.033	--	<0.013
BA Bd 227			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	0.140	--	<0.013
BA Bd 229			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
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BA Bd 231			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Bd 232			<0.003	<0.002	--	<0.002	<0.500	<0.002	--	0.012	--	<0.002
BA Be 38			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	<0.017	--	<0.013
BA Ca 66			<0.003	<0.002	--	<0.002	<0.500	<0.002	--	0.006	--	<0.002
BA Ca 69			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	E0.002	--	<0.013
BA Cb 136			<0.006	<0.000	--	<0.009	<0.500	<0.007	--	0.530	--	<0.013
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BA Cb 137			<0.006	<0.009	--	<0.009	<0.500	<0.007	--	0.800	--	<0.013
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Baltimore County, Maryland--Continued

WELL NUMBER	BROM- ACIL WATER WHLREC (UG/L)	BUTA- CHLOR WATER WHLREC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	BUTYL- ATE WATER WHLREC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER WHOLE TOT.REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, EC (UG/L)	CARBOX- IN WATER WHOLE RECOV- ERABLE (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYAN AZINE TOTAL (UG/L)
BA Ab 51	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Ab 52	--	--	<0.002	--	<0.003	<0.500	<0.003	--	<0.004	--
BA Ac 151	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Ad 145	--	--	<0.008	--	<0.046	<0.500	E0.006	--	<0.005	--
BA Ad 146	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Ad 147	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Ad 148	<0.200	<0.100	--	<0.100	--	--	--	<0.200	--	<0.200
BA Ad 149	--	--	<0.008	--	<0.046	<0.500	E0.063	--	<0.005	--
BA Ae 19	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 138	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 139	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 140	--	--	<0.008	--	<0.046	<0.500	E0.016	--	<0.005	--
BA Bb 141	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 143	--	--	<0.008	--	<0.046	<0.500	E0.023	--	<0.005	--
BA Bb 144	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 145	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 147	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 148	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	--	--	<0.002	--	<0.003	<0.500	<0.003	--	<0.004	--
BA Bc 267	--	--	<0.008	--	<0.046	<0.500	E0.017	--	<0.005	--
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BA Bc 268	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bc 270	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bc 271	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bc 272	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bc 273	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bc 274	--	--	<0.008	--	<0.046	<0.500	E0.062	--	<0.005	--
BA Bc 275	--	--	<0.002	--	<0.003	<0.500	E0.052	--	<0.004	--
BA Bd 225	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bd 226	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bd 227	--	--	<0.008	--	<0.046	<0.500	E0.030	--	<0.005	--
BA Bd 229	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
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BA Bd 231	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Bd 232	--	--	<0.002	--	<0.003	<0.500	<0.003	--	<0.004	--
BA Be 38	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Ca 66	--	--	<0.002	--	<0.003	<0.500	<0.003	--	<0.004	--
BA Ca 69	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
BA Cb 136	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
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BA Cb 137	--	--	<0.008	--	<0.046	<0.500	<0.013	--	<0.005	--
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	CYCLO- ATE WATER WHOLE RECOV- ERABLE (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT. REC (UG/L)	DEETHYL ATRA- ZINE, WATER, WHOLE, TOTAL (UG/L)	DE-ISO PROPYL ATRAZIN WATER, WHOLE, TOTAL (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT
BA Ab 51	--	<0.013	<0.060	<0.004	E0.031	<3.00	--	--	<0.008	87.0
BA Ab 52	--	<0.004	<0.017	<0.002	E0.110	<3.00	--	--	<0.002	103
BA Ac 151	--	<0.013	<0.060	<0.004	E0.011	<3.00	--	--	<0.008	107
BA Ad 145	--	<0.013	<0.060	<0.004	E0.280	<3.00	--	--	<0.008	123
BA Ad 146	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	111
BA Ad 147	--	<0.013	<0.060	<0.004	E0.230	<3.00	--	--	<0.008	98.7
	<0.100	--	--	--	--	--	0.660	<0.200	--	--
BA Ad 148	--	<0.013	<0.060	<0.004	E1.00	<3.00	--	--	<0.008	91.6
BA Ad 149	--	<0.013	<0.060	<0.004	E0.002	<3.00	--	--	<0.008	93.8
BA Ae 19	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	148
BA Bb 138	--	<0.013	<0.060	<0.004	E0.004	<3.00	--	--	<0.008	82.1
BA Bb 139	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	73.9
BA Bb 140	--	<0.013	<0.060	<0.004	E0.083	<3.00	--	--	<0.008	77.0
BA Bb 141	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	84.3
BA Bb 143	--	<0.013	<0.060	<0.004	E0.074	<3.00	--	--	<0.008	97.1
BA Bb 144	--	<0.013	<0.060	<0.004	E0.056	<3.00	--	--	<0.008	137
BA Bb 145	--	<0.013	<0.060	<0.004	E0.003	<3.00	--	--	<0.008	114
BA Bb 147	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	99.1
BA Bb 148	--	<0.013	<0.060	<0.004	E0.430	<3.00	--	--	<0.008	71.7
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	--	<0.004	<0.017	<0.002	E0.630	<3.00	--	--	<0.002	120
BA Bc 267	--	<0.013	<0.060	<0.004	E0.230	<3.00	--	--	<0.008	93.9
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BA Bc 268	--	<0.013	<0.060	<0.004	E0.004	<3.00	--	--	<0.008	86.8
BA Bc 270	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	93.9
BA Bc 271	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	87.8
BA Bc 272	--	<0.013	<0.060	<0.004	E0.001	<3.00	--	--	<0.008	87.3
BA Bc 273	--	<0.013	<0.060	<0.004	E0.005	<3.00	--	--	<0.008	99.1
BA Bc 274	--	<0.013	<0.060	<0.004	E0.430	<3.00	--	--	<0.008	101
BA Bc 275	--	<0.004	<0.017	<0.002	E0.170	<3.00	--	--	<0.002	86.3
BA Bd 225	--	<0.013	<0.060	<0.004	E0.087	<3.00	--	--	<0.008	129
BA Bd 226	--	<0.013	<0.060	<0.004	E0.270	<3.00	--	--	<0.008	87.5
BA Bd 227	--	<0.013	<0.060	<0.004	E0.450	<3.00	--	--	<0.008	136
BA Bd 229	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	91.2
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BA Bd 231	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	106
BA Bd 232	--	<0.004	<0.017	<0.002	E0.650	<3.00	--	--	<0.002	76.7
BA Be 38	--	<0.013	<0.060	<0.004	<0.003	<3.00	--	--	<0.008	93.6
BA Ca 66	--	<0.004	<0.017	<0.002	E0.016	<3.00	--	--	<0.002	77.6
BA Ca 69	--	<0.013	<0.060	<0.004	E0.450	<3.00	--	--	<0.008	87.4
BA Cb 136	--	<0.013	<0.060	<0.004	E1.10	<3.00	--	--	<0.008	104
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BA Cb 137	--	<0.013	<0.060	<0.004	E1.30	<3.00	--	--	<0.008	92.1
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	DICAMBA TOTAL (UG/L)	DI- ELDRIN DIS- SOLVED (UG/L)	DIPHEN- AMID WATER WHOLE RECOV- ERABLE (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)	HEXAZI- NONE WATER WHOLE RECOV- ERABLE (UG/L)	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)
BA Ab 51	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ab 52	<0.010	<0.001	--	<0.002	<0.004	<0.003	<0.003	--	<0.004	<0.002
BA Ac 151	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ad 145	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ad 146	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ad 147	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ad 148	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ad 149	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ae 19	<0.010	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 138	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 139	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 140	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 141	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 143	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 144	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 145	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 147	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 148	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	--	<0.001	--	<0.002	<0.004	<0.003	<0.003	--	<0.004	<0.002
BA Bc 267	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
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BA Bc 268	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bc 270	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bc 271	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bc 272	<0.010	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bc 273	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bc 274	<0.010	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bc 275	--	<0.001	--	<0.002	<0.004	0.004	<0.003	--	<0.004	<0.002
BA Bd 225	<0.010	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bd 226	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bd 227	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bd 229	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bd 231	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Bd 232	<0.010	<0.001	--	<0.002	<0.004	<0.003	<0.003	--	<0.004	<0.002
BA Be 38	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Ca 66	--	<0.001	--	<0.002	<0.004	<0.003	<0.003	--	<0.004	<0.002
BA Ca 69	<0.010	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
BA Cb 136	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
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BA Cb 137	--	<0.008	--	<0.005	<0.013	<0.012	<0.008	--	<0.011	<0.039
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	MALA- THION, DIS- SOLVED (UG/L)	METHIO- CARB WATER WHOLE RECOV. (UG/L)	METHO- MYL TOTAL (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT. REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN WATER WHOLE TOT. REC (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)
BA Ab 51	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.004	--	<0.012	<0.007
BA Ab 52	<0.005	<0.500	<0.500	<0.001	<0.006	--	0.009	--	<0.004	<0.004
BA Ac 151	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.064	--	<0.012	<0.007
BA Ad 145	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.058	--	<0.012	<0.007
BA Ad 146	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Ad 147	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.020	--	<0.012	<0.007
BA Ad 148	<0.014	<0.500	<0.500	<0.038	<0.035	<0.200	0.590	<0.100	<0.012	<0.007
BA Ad 149	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Ae 19	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 138	<0.010	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 139	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 140	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.011	--	<0.012	<0.007
BA Bb 141	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 143	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.003	--	<0.012	<0.007
BA Bb 144	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 145	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 147	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bb 148	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.007	--	<0.012	<0.007
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	<0.005	<0.500	<0.500	<0.001	<0.006	--	0.042	--	<0.004	<0.004
BA Bc 267	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.200	--	<0.012	<0.007
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BA Bc 268	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bc 270	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.001	--	<0.012	<0.007
BA Bc 271	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bc 272	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.001	--	<0.012	<0.007
BA Bc 273	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.004	--	<0.012	<0.007
BA Bc 274	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.140	--	<0.012	<0.007
BA Bc 275	<0.005	<0.500	<0.500	<0.001	<0.006	--	0.046	--	<0.004	<0.004
BA Bd 225	<0.014	<0.500	<0.500	<0.038	<0.035	--	<0.009	--	<0.012	<0.007
BA Bd 226	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.010	--	<0.012	<0.007
BA Bd 227	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.130	--	<0.012	<0.007
BA Bd 229	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.003	--	<0.012	<0.007
BA Bd 231	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.001	--	<0.012	<0.007
BA Bd 232	<0.005	<0.500	<0.500	<0.001	<0.006	--	0.063	--	<0.004	<0.004
BA Be 38	<0.014	<0.500	<0.500	<0.038	<0.035	--	E0.002	--	<0.012	<0.007
BA Ca 66	<0.005	<0.500	<0.500	<0.001	<0.006	--	0.006	--	<0.004	<0.004
BA Ca 69	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.190	--	<0.012	<0.007
BA Cb 136	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.089	--	<0.012	<0.007
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BA Cb 137	<0.014	<0.500	<0.500	<0.038	<0.035	--	0.028	--	<0.012	<0.007
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER		NAPHTH- ALENE TOTAL (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	PFB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	PIC- LORAM UNFILT RECOVER (UG/L)	P, P' DDE DISSOLV (UG/L)	PROM- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)
BA Ab 51		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ab 52		<3.00	<0.003	<0.004	<0.004	<0.005	<0.002	<0.004	<0.010	<0.006	<0.003
BA Ac 151		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ad 145		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ad 146		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ad 147		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ad 148		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ad 149		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Ae 19		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010	<0.010	<0.009
BA Bb 138		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 139		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 140		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 141		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 143		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 144		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 145		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 147		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 148		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bb 150		--	--	--	--	--	--	--	--	--	--
BA Bb 151		<3.00	<0.003	<0.004	<0.004	<0.005	<0.002	<0.004	--	<0.006	<0.003
BA Bc 267		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
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BA Bc 268		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	E0.001	<0.009
BA Bc 270		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bc 271		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bc 272		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010	<0.010	<0.009
BA Bc 273		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bc 274		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010	<0.010	<0.009
BA Bc 275		<3.00	<0.003	<0.004	<0.004	<0.005	<0.002	<0.004	--	<0.006	<0.003
BA Bd 225		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010	<0.010	<0.009
BA Bd 226		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bd 227		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bd 229		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	E0.001	<0.009
BA Bd 231		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
BA Bd 232		<3.00	<0.003	<0.004	<0.004	<0.005	<0.002	<0.004	<0.010	<0.006	<0.003
BA Be 38		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	E0.001	<0.009
BA Ca 66		<3.00	<0.003	<0.004	<0.004	<0.005	<0.002	<0.004	--	<0.006	<0.003
BA Ca 69		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010	<0.010	<0.009
BA Cb 136		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
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BA Cb 137		<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	--	<0.010	<0.009
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	PROME- TRYNE TOTAL (UG/L)	PROME- TONE TOTAL (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	PROPA- CHLOR WATER WHOLE RECOV. (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	PROPO- BXUR WATER WHOLE RECOV. (UG/L)
BA Ab 51	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ab 52	--	--	<0.018	--	<0.007	<0.004	<0.013	--	<0.500	<0.500
BA Ac 151	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ad 145	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ad 146	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ad 147	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ad 148	<0.100	<0.200	--	<0.100	--	--	--	<0.100	--	--
BA Ad 149	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ae 19	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 138	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 139	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 140	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 141	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 143	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 144	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 145	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 147	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 148	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bb 150	--	--	--	--	--	--	--	--	--	--
BA Bb 151	--	--	<0.018	--	<0.007	<0.004	<0.013	--	<0.500	<0.500
BA Bc 267	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
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BA Bc 268	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bc 270	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bc 271	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bc 272	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bc 273	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bc 274	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bc 275	--	--	<0.018	--	<0.007	<0.004	<0.013	--	<0.500	<0.500
BA Bd 225	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bd 226	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bd 227	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bd 229	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bd 231	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Bd 232	--	--	<0.018	--	<0.007	<0.004	<0.013	--	<0.500	<0.500
BA Be 38	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Ca 66	--	--	<0.018	--	<0.007	<0.004	<0.013	--	<0.500	<0.500
BA Ca 69	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
BA Cb 136	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
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BA Cb 137	--	--	<0.008	--	<0.015	<0.016	<0.006	--	<0.500	<0.500
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	CARB- ARYL UNFILTR RECOVER (UG/L)	SILVEX, TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	SIME- TRYNE TOTAL (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER WHOLE RECOV. (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT
BA Ab 51	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	101
BA Ab 52	<0.500	<0.010	--	<0.005	--	<0.010	--	<0.007	<0.013	108
BA Ac 151	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	101
BA Ad 145	<0.500	--	--	0.008	--	<0.015	--	<0.030	<0.012	121
BA Ad 146	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	98.9
BA Ad 147	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	112
BA Ad 148	<0.500	--	<0.100	<0.008	<0.100	<0.015	<0.200	<0.030	<0.012	--
BA Ad 149	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	106
BA Ae 19	<0.500	<0.010	--	<0.008	--	<0.015	--	<0.030	<0.012	105
BA Bb 138	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	119
BA Bb 139	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	97.6
BA Bb 140	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	85.1
BA Bb 141	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	115
BA Bb 143	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	94.5
BA Bb 144	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	114
BA Bb 145	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	119
BA Bb 147	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	106
BA Bb 148	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	106
BA Bb 150	--	--	--	--	--	--	--	--	--	104
BA Bb 151	<0.500	--	--	<0.005	--	<0.010	--	<0.007	<0.013	--
BA Bc 267	<0.500	--	--	<0.008	--	<0.015	--	E0.027	<0.012	119
	--	--	--	--	--	--	--	--	--	99.8
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BA Bc 268	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	--
BA Bc 270	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	109
BA Bc 271	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	110
BA Bc 272	<0.500	<0.010	--	<0.008	--	<0.015	--	<0.030	<0.012	101
BA Bc 273	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	99.1
BA Bc 274	<0.500	<0.010	--	<0.008	--	<0.015	--	<0.030	<0.012	106
BA Bc 275	<0.500	--	--	0.014	--	<0.010	--	<0.007	<0.013	115
BA Bd 225	<0.500	<0.010	--	<0.008	--	<0.015	--	<0.030	<0.012	115
BA Bd 226	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	121
BA Bd 227	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	109
BA Bd 229	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	126
BA Bd 231	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	102
BA Bd 232	<0.500	<0.010	--	<0.005	--	<0.010	--	<0.007	<0.013	--
BA Be 38	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	114
BA Ca 66	<0.500	--	--	<0.005	--	<0.010	--	<0.007	<0.013	86.0
BA Ca 69	<0.500	<0.010	--	<0.008	--	<0.015	--	<0.030	<0.012	100
BA Ch 136	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	86.9
	--	--	--	--	--	--	--	--	--	102
	--	--	--	--	--	--	--	--	--	116
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BA Ch 137	<0.500	--	--	<0.008	--	<0.015	--	<0.030	<0.012	--
	--	--	--	--	--	--	--	--	--	113
	--	--	--	--	--	--	--	--	--	--
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	1-NAPH- THOL WATER WHOLE REC (UG/L)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	VER- NOLATE WATER WHOLE RECOV. (UG/L)
BA Ab 51	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ab 52	<0.002	<0.001	<0.002	<0.500	<3.00	<0.010	<0.010	<0.010	--
BA Ac 151	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ad 145	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ad 146	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ad 147	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ad 148	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	<0.100
BA Ad 149	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ae 19	<0.008	<0.008	<0.012	<0.500	<3.00	<0.010	<0.010	<0.010	--
BA Bb 138	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 139	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 140	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 141	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 143	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 144	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 145	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 147	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 148	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bb 150	--	--	--	--	--	--	--	--	--
BA Bb 151	<0.002	<0.001	<0.002	<0.500	<3.00	--	--	--	--
BA Bc 267	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
BA Bc 268	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bc 270	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bc 271	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bc 272	<0.008	<0.008	<0.012	<0.500	<3.00	<0.010	<0.010	0.010	--
BA Bc 273	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bc 274	<0.008	<0.008	<0.012	<0.500	<3.00	<0.010	<0.010	<0.010	--
BA Bc 275	<0.002	<0.001	<0.002	<0.500	<3.00	--	--	--	--
BA Bd 225	<0.008	<0.008	<0.012	<0.500	<3.00	<0.010	<0.010	<0.010	--
BA Bd 226	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bd 227	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bd 229	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bd 231	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Bd 232	<0.002	<0.001	<0.002	<0.500	<3.00	<0.010	<0.010	<0.010	--
BA Be 38	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
BA Ca 66	<0.002	<0.001	<0.002	<0.500	<3.00	--	--	--	--
BA Ca 69	<0.008	<0.008	<0.012	<0.500	<3.00	<0.010	<0.010	<0.010	--
BA Cb 136	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
BA Cb 137	<0.008	<0.008	<0.012	<0.500	<3.00	--	--	--	--
	--	--	--	--	--	--	--	--	--
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QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
BA Cb 137	09-12-95	1300	393403076454201	300PLGV	GW		8030	--	160.00	78
BA Cb 138	02-21-95	1200	393237076495601	300PRTB	GW		8030	--	205.00	70
	05-08-95	1600		300PRTB	GW		8030	--	205.00	70
	06-13-95	1730		300PRTB	GW		8030	--	205.00	70
	07-13-95	1700		300PRTB	GW		8030	--	205.00	70
	08-09-95	1800		300PRTB	GW		8030	--	205.00	70
	09-12-95	1700		300PRTB	GW		8030	--	205.00	70
BA Cb 139	04-19-95	1400	393228076493201	300PLGV	GW		8030	49.73	255.00	68
BA Cb 141	03-08-95	1500	393456076494601	300PRTB	GW		8030	--	200.00	69
	05-10-95	1200		300PRTB	GW		8030	--	200.00	69
BA Cb 142	03-22-95	1100	393221076483401	300PLGV	GW		8030	--	180.00	19
	05-08-95	1500		300PLGV	GW		8030	--	180.00	19
	06-13-95	1630		300PLGV	GW		8030	--	180.00	19
	07-13-95	1530		300PLGV	GW		8030	--	180.00	19
	08-07-95	1600		300PLGV	GW		8030	--	180.00	19
BA Cc 253	09-12-95	1430		300PLGV	GW		8030	--	180.00	19
	05-08-95	1330	393427076412201	300LCRV	GW		8030	--	300.00	53
	06-13-95	1230		300LCRV	GW		8030	--	300.00	53
	07-13-95	1130		300LCRV	GW		8030	--	300.00	53
	08-07-95	1100		300LCRV	GW		8030	--	300.00	53
	09-12-95	1000		300LCRV	GW		8030	--	300.00	53
BA Cc 255	11-09-94	1600	393002076334501	300LCRV	GW		8030	--	250.00	30
BA Cc 256	01-04-95	1200	393117076440101	400BLMR	GW		8030	15.99	172.00	31
BA Cc 257	01-18-95	1100	393058076441701	400BLMR	GW		8030	--	225.00	40
BA Cc 258	03-13-95	1300	393340076442501	300PNRN	GW		8030	60.18	350.00	69
BA Cd 231	10-20-94	1000	393402076350901	400BLMR	GW		8030	45.86	260.00	60
BA Cd 232	11-01-94	1100	393442076375301	400BLMR	GW		8030	--	400.00	28
BA Cd 234	12-06-94	1000	393352076365301	400BLMR	GW		8030	--	200.00	47
BA Cd 235	11-30-94	1400	393313076373701	400BLMR	GW		8030	57.41	200.00	20
BA Cd 236	01-11-95	1100	393219076371901	400BLMR	GW		8030	--	223.00	49
BA Cd 237	04-20-95	1100	393212076365901	400BLMR	SP		4010	--	--	--
BA Cd 238	05-02-95	1000	393221076375701	400BLMR	GW		8030	--	300.00	31
BA Cd 239	06-19-95	1300	393155076385301	400BLMR	GW		8030	--	200.00	46
BA Cd 241	06-20-95	1400	393019076391401	400BLMR	GW		8030	39.30	300.00	30
BA Ce 311	11-14-94	1200	393002076354001	300LCRV	GW		8030	--	300.00	40
BA Ce 312	04-18-95	1600	393035076331701	300LCRV	GW		8030	--	105.00	60
BA Ce 313	04-24-95	1100	393143076332601	300LCRV	GW		8030	17.96	250.00	67
	08-11-95	1100		300LCRV	GW		8030	--	250.00	67
BA Da 123	05-31-95	1100	392538076510101	300LCRV	GW		8030	10.87	200.00	60
BA Dc 445	05-08-95	1200	392841076400201	300CCKV	GW		8030	--	300.00	90
	06-12-95	1630		300CCKV	GW		8030	--	300.00	90
	07-12-95	1730		300CCKV	GW		8030	--	300.00	90
	08-09-95	1630		300CCKV	GW		8030	--	300.00	90
	09-11-95	1600		300CCKV	GW		8030	--	300.00	90
BA Dc 448	01-31-95	1000	392730076420301	300LCRV	GW		8030	--	325.00	41
BA Dc 449	06-06-95	1400	392808076412401	300LCRV	GW		8030	5.54	250.00	20
BA Dc 450	06-19-95	0900	392650076433901	300LCRV	GW		8030	--	150.00	28
BA Dd 300	02-27-95	1200	392928076380601	300LCRV	GW		8030	40.44	150.00	20
BA De 632	10-20-94	1400	392923076324901	300LCRV	SP		8030	--	--	--
BA De 633	11-17-94	1000	392859076323601	300LCRV	GW		8030	--	110.00	48
	05-08-95	1030		300LCRV	GW		8030	--	110.00	48
	06-13-95	1030		300LCRV	GW		8030	--	110.00	48
	07-13-95	1000		300LCRV	GW		8030	--	110.00	48
	08-09-95	1500		300LCRV	GW		8030	--	110.00	48
	09-11-95	1700		300LCRV	GW		8030	--	110.00	48

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
BA Cb 137	160	630	35	2.6	133	5.5	14.5	26.5	--	--
BA Cb 138	205	690	97	2.8	276	6.1	12.0	5.5	6.8	28
	205	690	25	1.1	286	6.0	12.5	--	--	--
	205	690	20	1.7	290	5.9	13.0	21.0	--	--
	205	690	20	2.4	290	6.0	13.5	31.5	--	--
	205	690	20	2.6	290	6.0	13.0	23.5	--	--
	205	690	20	3.5	288	6.0	12.5	23.0	--	--
BA Cb 139	255	660	30	1.9	336	5.8	11.5	30.0	8.2	9
BA Cb 141	200	830	60	3.5	85	5.9	12.0	6.5	8.2	10
	200	830	26	1.4	85	--	12.5	--	--	--
BA Cb 142	180	625	43	1.5	183	6.0	13.0	14.0	8.6	31
	180	625	15	2.1	191	5.9	13.5	--	--	--
	180	625	25	1.1	197	6.0	14.0	21.5	--	--
	180	625	25	1.8	197	6.1	14.0	32.0	--	--
	180	625	25	1.8	234	6.2	14.0	24.0	--	--
BA Cc 253	180	625	42	2.5	205	6.1	14.0	22.5	--	--
	300	630	20	1.4	600	5.9	12.5	--	--	--
	300	630	20	2.2	615	5.8	13.0	20.0	--	--
	300	630	20	3.4	648	5.8	13.0	28.5	--	--
	300	630	25	3.6	618	5.9	13.0	20.0	--	--
	300	630	40	1.5	627	5.9	12.5	19.0	--	--
BA Cc 255	250	510	33	3.0	253	6.0	13.0	--	7.4	25
BA Cc 256	172	350	57	4.0	150	6.0	13.0	-1.5	5.8	39
BA Cc 257	225	410	65	2.0	193	6.5	12.5	6.5	8.3	53
BA Cc 258	350	590	63	2.0	84	5.7	11.5	22.0	8.8	15
BA Cd 231	260	600	75	2.7	167	--	13.0	14.5	1.6	60
BA Cd 232	400	470	85	3.0	196	6.6	13.5	18.5	<1.0	44
BA Cd 234	200	400	42	3.6	90	6.3	13.5	17.0	6.9	25
BA Cd 235	200	410	69	3.6	265	6.0	12.5	9.0	8.4	34
BA Cd 236	223	370	72	4.0	205	6.7	11.5	-0.5	6.1	52
BA Cd 237	--	390	--	--	163	5.9	11.5	18.5	7.5	39
BA Cd 238	300	420	60	1.5	280	5.8	12.5	7.0	7.0	36
BA Cd 239	200	440	30	2.3	179	5.8	13.0	31.0	8.4	23
BA Cd 241	300	320	35	1.3	267	7.1	14.5	30.0	2.4	96
BA Ce 311	300	520	30	3.8	127	5.4	13.0	18.0	9.2	--
BA Ce 312	105	570	38	1.5	76	5.4	11.5	15.0	7.6	10
BA Ce 313	250	540	45	1.5	105	7.1	12.0	8.5	1.2	33
	250	540	30	1.6	105	6.8	13.0	25.5	--	--
BA Da 123	200	620	30	1.5	182	6.7	13.5	23.0	2.9	65
BA Dc 445	300	320	30	1.8	516	7.4	13.5	--	--	--
	300	320	35	1.6	520	--	15.0	17.0	--	--
	300	320	55	1.4	527	7.5	15.5	28.0	--	--
	300	320	25	2.0	526	7.4	14.5	25.0	--	--
	300	320	30	2.1	525	7.5	15.5	23.0	--	--
BA Dc 448	325	530	98	3.1	--	6.3	12.5	6.0	7.2	53
BA Dc 449	250	400	33	1.5	75	5.4	14.5	23.5	7.1	12
BA Dc 450	150	600	30	1.5	91	5.1	13.0	22.0	8.0	4
BA Dd 300	150	490	53	1.8	139	5.6	11.5	-0.5	8.1	13
BA De 632	--	520	55	3.4	167	5.2	14.5	19.0	5.2	--
BA De 633	110	450	35	3.0	148	5.7	13.0	10.0	6.8	--
	110	450	25	2.8	140	5.6	13.5	--	--	--
	110	450	25	2.3	148	5.7	14.5	20.0	--	--
	110	450	25	3.1	142	5.7	14.5	27.0	--	--
	110	450	40	2.8	153	5.6	14.5	28.0	--	--
	110	450	30	3.3	141	5.5	14.5	20.5	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SODIUM, DIS- SOLVED (MG/L AS Na)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
BA Cb 137	--	--	11	--	--	--	--	--	--	--
BA Cb 138	92	26	32	<0.10	6.6	1.0	20	9.3	2.3	164
	--	--	33	--	--	--	--	--	--	--
	--	--	35	--	--	--	--	--	--	--
	--	--	33	--	--	--	--	--	--	--
	--	--	34	--	--	--	--	--	--	--
	--	--	34	--	--	--	--	--	--	--
BA Cb 139	120	26	22	<0.10	13	1.4	15	8.8	15	234
BA Cb 141	26	6.5	4.2	<0.10	2.4	0.60	8.5	3.8	1.3	52
	--	--	4.2	--	--	--	--	--	--	--
BA Cb 142	68	19	6.8	<0.10	4.9	1.6	12	4.4	20	110
	--	--	8.2	--	--	--	--	--	--	--
	--	--	9.3	--	--	--	--	--	--	--
	--	--	9.2	--	--	--	--	--	--	--
	--	--	15	--	--	--	--	--	--	--
	--	--	8.7	--	--	--	--	--	--	--
BA Cc 253	--	--	150	--	--	--	--	--	--	--
	--	--	160	--	--	--	--	--	--	--
	--	--	160	--	--	--	--	--	--	--
	--	--	160	--	--	--	--	--	--	--
	--	--	160	--	--	--	--	--	--	--
	--	--	160	--	--	--	--	--	--	--
BA Cc 255	83	22	41	<0.10	6.7	2.1	30	9.4	7.6	166
BA Cc 256	57	14	3.4	<0.10	5.4	1.3	33	6.4	20	112
BA Cc 257	74	17	3.9	<0.10	7.6	1.1	45	5.9	12	148
BA Cc 258	27	5.1	5.2	<0.10	3.4	1.5	11	3.4	0.50	54
BA Cd 231	63	19	5.0	0.10	3.8	3.4	30	5.6	13	88
BA Cd 232	61	13	4.2	0.10	6.9	4.2	32	6.7	39	132
BA Cd 234	26	6.1	3.0	<0.10	2.5	2.1	29	5.1	10	66
BA Cd 235	87	25	21	<0.10	6.0	3.4	28	11	41	172
BA Cd 236	72	15	11	<0.10	8.4	3.3	27	6.6	2.8	130
BA Cd 237	56	15	6.9	<0.10	4.6	3.6	15	6.6	19	88
BA Cd 238	82	21	34	<0.10	7.1	2.3	23	15	9.6	170
BA Cd 239	56	17	13	<0.10	3.4	2.6	23	7.2	10	132
BA Cd 241	100	35	6.8	0.30	4.2	3.2	16	9.4	21	170
BA Ce 311	34	6.7	11	<0.10	4.2	1.9	13	6.4	0.40	84
BA Ce 312	21	3.7	8.3	<0.10	2.9	1.5	11	4.8	0.30	50
BA Ce 313	36	10	1.6	0.20	2.6	2.7	28	4.8	10	82
	--	--	--	--	--	--	--	--	--	--
BA Da 123	68	11	11	<0.10	9.8	3.8	28	5.0	3.7	128
BA Dc 445	--	--	16	--	--	--	--	--	--	--
	--	--	16	--	--	--	--	--	--	--
	--	--	17	--	--	--	--	--	--	--
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	--	--	18	--	--	--	--	--	--	--
BA Dc 448	62	14	19	0.10	6.5	3.5	23	7.9	10	116
BA Dc 449	22	3.3	8.1	<0.10	3.3	1.3	11	3.5	3.8	42
BA Dc 450	22	3.1	3.9	<0.10	3.5	1.3	9.3	5.2	0.60	62
BA Dd 300	45	7.4	21	<0.10	6.4	1.6	12	4.1	3.4	82
BA De 632	42	7.5	29	<0.10	5.6	2.9	11	9.1	3.8	100
BA De 633	41	9.2	12	<0.10	4.3	2.5	17	7.0	4.3	88
	--	--	11	--	--	--	--	--	--	--
	--	--	12	--	--	--	--	--	--	--
	--	--	12	--	--	--	--	--	--	--
	--	--	13	--	--	--	--	--	--	--
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)
BA Cb 137	--	--	--	8.40	8.40	--	--	--	--	--
BA Cb 138	167	--	<0.010	12.0	12.0	<0.015	<0.010	0.010	<1	<1
	--	--	--	11.0	11.0	--	--	--	--	--
	--	--	--	12.0	12.0	--	--	--	--	--
	--	--	--	12.0	12.0	--	--	--	--	--
	--	--	--	11.0	11.0	--	--	--	--	--
	--	--	--	12.0	12.0	--	--	--	--	--
BA Cb 139	205	--	<0.010	21.0	21.0	<0.015	0.010	0.050	<1	<1
BA Cb 141	57	--	<0.010	5.30	5.30	<0.015	<0.010	<0.010	<1	<1
	--	--	--	6.10	6.10	--	--	--	--	--
BA Cb 142	114	--	<0.010	6.10	6.10	<0.015	<0.010	<0.010	<1	<1
	--	--	--	6.10	6.10	--	--	--	--	--
	--	--	--	6.70	6.70	--	--	--	--	--
	--	--	--	7.40	7.40	--	--	--	--	--
	--	--	--	7.80	7.80	--	--	--	--	--
BA Cc 253	--	--	--	6.50	6.50	--	--	--	--	--
	--	--	--	0.210	0.210	--	--	--	--	--
	--	--	--	0.200	0.200	--	--	--	--	--
	--	--	--	0.180	0.180	--	--	--	--	--
	--	--	--	0.200	0.200	--	--	--	--	--
	--	--	--	0.190	0.190	--	--	--	--	--
BA Cc 255	152	--	<0.010	2.90	2.90	<0.015	0.020	0.020	<1	<1
BA Cc 256	114	--	<0.010	1.40	1.40	<0.015	0.030	0.030	<1	<1
BA Cc 257	147	--	<0.010	4.30	4.30	0.020	0.020	0.020	<1	<1
BA Cc 258	56	--	<0.010	3.90	3.90	<0.015	<0.010	<0.010	<1	<1
BA Cd 231	117	--	<0.010	0.260	0.260	<0.015	<0.010	0.020	<1	<1
BA Cd 232	133	--	<0.010	0.060	0.060	<0.015	<0.010	<0.010	<1	<1
BA Cd 234	78	--	<0.010	1.20	1.20	<0.015	0.030	0.010	<1	<1
BA Cd 235	170	--	<0.010	3.10	3.10	<0.015	0.010	0.010	<1	<1
BA Cd 236	136	--	<0.010	7.70	7.70	0.020	0.030	<0.010	<1	<1
BA Cd 237	103	--	<0.010	2.10	2.10	<0.015	<0.010	0.020	<1	<1
BA Cd 238	163	5.68	0.020	5.70	5.70	<0.015	0.040	0.030	<1	<1
BA Cd 239	118	--	<0.010	5.80	5.80	<0.015	0.020	0.020	<1	<1
BA Cd 241	155	0.100	0.030	0.130	0.130	0.030	0.030	<0.010	<1	<1
BA Ce 311	49	--	--	--	--	--	--	--	<1	<1
BA Ce 312	52	--	<0.010	2.70	2.70	<0.015	0.020	0.010	<1	<1
BA Ce 313	82	--	<0.010	0.060	0.060	<0.015	0.010	0.010	<1	<1
	--	--	--	--	--	--	--	--	--	--
BA Da 123	114	--	<0.010	0.620	0.620	0.030	0.050	0.050	<1	<1
BA Dc 445	--	--	--	8.20	8.20	--	--	--	--	--
	--	--	--	9.10	9.10	--	--	--	--	--
	--	--	--	5.80	5.80	--	--	--	--	--
	--	--	--	9.00	9.00	--	--	--	--	--
	--	--	--	9.00	9.00	--	--	--	--	--
BA Dc 448	105	--	<0.010	0.530	0.530	<0.015	<0.010	<0.010	<1	<1
BA Dc 449	46	--	<0.010	0.640	0.640	<0.015	<0.010	<0.010	<1	<1
BA Dc 450	64	--	<0.010	7.70	7.70	<0.015	<0.010	<0.010	<1	<1
BA Dd 300	80	--	<0.010	3.70	3.70	<0.015	<0.010	0.010	<1	<1
BA De 632	92	--	<0.010	4.00	4.00	<0.015	<0.010	0.020	<1	<1
BA De 633	96	--	<0.010	5.90	5.90	<0.015	0.020	0.020	<1	<1
	--	--	--	5.30	5.30	--	--	--	--	--
	--	--	--	5.80	5.80	--	--	--	--	--
	--	--	--	5.40	5.40	--	--	--	--	--
	--	--	--	5.60	5.60	--	--	--	--	--
	--	--	--	5.90	5.90	--	--	--	--	--

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	CYANIDE DIS- SOLVED (MG/L AS CN)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
BA Cb 137	--	--	--	--	--	--	--	--	--	--
BA Cb 138	<2	<10	<1.0	<1	5	<0.01	9200	25	<1	<10
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BA Cb 139	15	<10	<1.0	1	16	<0.01	90	7	3	<10
BA Cb 141	8	<10	<1.0	<1	9	<0.01	500	38	1	20
	--	--	--	--	--	--	--	--	--	--
BA Cb 142	9	<10	<1.0	<1	9	<0.01	330	4	1	<10
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BA Cc 253	--	--	--	--	--	--	--	--	--	--
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BA Cc 255	69	<0.5	<1.0	<1	40	<0.01	10	<3	4	<10
BA Cc 256	92	<10	<1.0	2	12	<0.01	380	<3	<1	<10
BA Cc 257	24	<10	<1.0	6	6	<0.01	450	<3	2	<10
BA Cc 258	14	<10	<1.0	<1	22	<0.01	110	7	5	<10
BA Cd 231	31	<0.5	<1.0	<1	2	<0.01	2200	140	<1	60
BA Cd 232	41	<0.5	<1.0	<1	<1	<0.01	10000	4900	<1	60
BA Cd 234	43	<0.5	<1.0	<1	45	<0.01	800	6	1	10
BA Cd 235	40	<0.5	<1.0	<1	12	<0.01	100	4	<1	<10
BA Cd 236	17	<10	<1.0	<1	6	<0.01	10	4	<1	<10
BA Cd 237	27	<10	<1.0	<1	<1	<0.01	20	<3	<1	<10
BA Cd 238	150	<10	<1.0	1	35	<0.01	1100	<3	4	10
BA Cd 239	22	<10	<1.0	1	15	<0.01	40	5	3	<10
BA Cd 241	19	<10	<1.0	<1	8	<0.01	10	<3	<1	30
BA Ce 311	34	<0.5	<1.0	<1	25	<0.01	130	6	4	<10
BA Ce 312	23	<10	<1.0	<1	18	<0.01	20	6	4	<10
BA Ce 313	14	<10	<1.0	<1	<1	<0.01	22000	120	<1	50
	--	--	--	--	--	--	--	--	--	--
BA Da 123	29	<10	<1.0	<1	<1	<0.01	10000	28	<1	100
BA Dc 445	--	--	--	--	--	--	--	--	--	--
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BA Dc 448	3	<10	<1.0	<1	2	<0.01	14000	4	<1	110
BA Dc 449	9	<10	<1.0	<1	22	<0.01	<10	<3	12	20
BA Dc 450	45	<10	<1.0	<1	12	<0.01	50	5	13	20
BA Dd 300	33	<10	<1.0	<1	26	<0.01	40	4	10	<10
BA De 632	48	<0.5	<1.0	<1	20	<0.01	<10	9	3	<10
BA De 633	22	<0.5	<1.0	<1	7	<0.01	280	<3	2	10
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADON 222 TOTAL (PCI/L)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	FREON- 113 WATER UNFLTRD REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--	--
BA Cb 138	6	<0.1	<1	<1	<1	<10	4100	56	0.50	<3.00
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BA Cb 139	3	<0.1	2	1	<1	100	2800	53	0.60	<3.00
BA Cb 141	14	<0.1	1	<1	<1	<10	5400	63	2.2	<3.00
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BA Cb 142	<1	<0.1	<1	1	<1	<10	5200	63	7.7	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--	--
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BA Cc 255	<1	<0.1	<1	<1	<1	<3	1200	32	0.40	<3.00
BA Cc 256	<1	<0.1	<1	<1	<1	<10	1100	31	0.30	<3.00
BA Cc 257	<1	<0.1	<1	<1	<1	<10	420	22	1.5	<3.00
BA Cc 258	5	<0.1	<1	<1	<1	<10	2700	46	0.90	<3.00
BA Cd 231	39	<0.1	1	<1	<1	<3	650	26	0.10	<3.00
BA Cd 232	43	<0.1	<1	<1	<1	5	7200	73	0.30	<3.00
BA Cd 234	4	<0.1	7	<1	<1	5	5300	65	0.10	<3.00
BA Cd 235	2	<0.1	<1	<1	<1	13	2600	46	0.90	<3.00
BA Cd 236	<1	<0.1	<1	<1	<1	<10	3900	55	0.30	<3.00
BA Cd 237	<1	<0.1	<1	1	<1	<10	4500	60	2.6	<3.00
BA Cd 238	3	<0.1	1	<1	<1	<10	290	20	3.4	<3.00
BA Cd 239	<1	<0.1	<1	2	<1	<10	1500	36	0.40	<3.00
BA Cd 241	23	<0.1	<1	<1	<1	20	180	20	0.70	<3.00
BA Ce 311	4	<0.1	<1	<1	<1	10	3800	54	0.40	<3.00
BA Ce 312	4	<0.1	1	<1	<1	<10	390	21	1.4	<3.00
BA Ce 313	25	<0.1	<1	<1	<1	<10	1000	31	1.8	<3.00
BA Da 123	68	<0.1	<1	<1	<1	<10	5000	64	3.4	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--	--
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BA Dc 448	110	<0.1	<1	<1	<1	<10	1200	32	0.40	<3.00
BA Dc 449	24	<0.1	<1	<1	<1	<10	3700	56	0.30	<3.00
BA Dc 450	10	<0.1	4	<1	<1	<10	1500	36	<0.10	<3.00
BA Dd 300	6	<0.1	1	<1	<1	<10	670	25	0.30	<3.00
BA De 632	4	<0.1	1	<1	<1	<3	1200	32	0.40	<3.00
BA De 633	4	<0.1	2	<1	<1	6	400	22	0.50	<3.00

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	BENZENE TOTAL (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 124-TRI METHYL UNFILTR RECOVER (UG/L)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--	--
BA Cb 138	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Cb 139	0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cb 141	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
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BA Cb 142	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--	--
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BA Cc 255	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cc 256	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cc 257	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cc 258	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 231	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 232	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 234	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
BA Cd 235	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cd 236	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 237	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
BA Cd 238	0.21	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 239	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
BA Cd 241	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	106	<3.00
BA Ce 311	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Ce 312	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Ce 313	0.03	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Da 123	0.08	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	105	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--	--
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BA Dc 448	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	86.0	<3.00
BA Dc 449	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Dc 450	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	97.0	<3.00
BA Dd 300	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA De 632	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA De 633	<0.02	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--	--
BA Cb 138	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb 139	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cb 141	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb 142	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--	--
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BA Cc 255	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 256	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 257	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 258	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 231	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 232	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 234	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 235	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 236	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 237	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 238	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 239	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 241	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 311	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 312	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 313	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Da 123	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--	--
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BA Dc 448	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 449	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 450	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dd 300	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA De 632	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA De 633	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	DI- BROMO- METHANE WHOLE RECOVER (UG/L)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	METHANE BROMO- CHLORO- WAT UNFILTRD REC (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--	--
BA Cb 138	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb 139	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cb 141	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb 142	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--	--
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BA Cc 255	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 256	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 257	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 258	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 231	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 232	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 234	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 235	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 236	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 237	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 238	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 239	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 241	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 311	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 312	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 313	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Da 123	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--	--
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BA Dc 448	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 449	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 450	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dd 300	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA De 632	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA De 633	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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WELL NUMBER	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)	STYRENE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLURO- METHANE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTDR REC (UG/L)	D8 SURROG VOC UNFLTDR REC PERCENT	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--	--
BA Cb 138	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Cb 139	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cb 141	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
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BA Cb 142	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--	--
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BA Cc 255	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
BA Cc 256	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cc 257	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	97.0	<3.00
BA Cc 258	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cd 231	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cd 232	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
BA Cd 234	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cd 235	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
BA Cd 236	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cd 237	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
BA Cd 238	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
BA Cd 239	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Cd 241	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	96.0	<3.00
BA Ce 311	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Ce 312	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Ce 313	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
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BA Da 123	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--	--
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BA Dc 448	<3.00	<3.00	<3.00	<3.00	<					

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT	ETHANE, 1,1,2,2- TETRA- CHLORO- WAT UNF REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Cb 139	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	100	<3.00
BA Cb 141	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Cb 142	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cc 256	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	90.0	<3.00
BA Cc 257	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	89.0	<3.00
BA Cc 258	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	96.0	<3.00
BA Cd 231	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 232	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 234	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 235	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	94.0	<3.00
BA Cd 236	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	87.0	<3.00
BA Cd 237	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 238	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Cd 239	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	106	<3.00
BA Cd 241	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	95.0	<3.00
BA Ce 311	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Ce 312	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	98.0	<3.00
BA Ce 313	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	92.0	<3.00
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BA Da 123	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	101	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA Dc 449	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA Dc 450	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	104	<3.00
BA Dd 300	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
BA De 632	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	99.0	<3.00
BA De 633	<3.00	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<0.00	<3.00
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	ETHANE, 1112-TETRA- CHLORO- WAT UNF REC (UG/L)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb 139	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cb 141	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cb 142	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 256	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 257	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cc 258	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 231	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 232	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 234	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 235	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 236	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 237	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 238	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 239	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Cd 241	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 311	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 312	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Ce 313	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BA Da 123	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 449	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dc 450	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA Dd 300	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA De 632	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
BA De 633	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (UG/L)	2,6-DI- ETHYL- ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER, FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALDI- CARB WATER WHOLE TOT REC (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	E0.004
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BA Cb 139	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	E0.012
BA Cb 141	<3.00	<3.00	<3.00	<0.006	<0.009	E0.006	<0.500	<0.007	E0.002
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BA Cb 142	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	0.026
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	0.031
BA Cc 256	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	E0.005
BA Cc 257	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA Cc 258	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Cd 231	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA Cd 232	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA Cd 234	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA Cd 235	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA Cd 236	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	E0.003
BA Cd 237	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Cd 238	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	0.065
BA Cd 239	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	0.700
BA Cd 241	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Ce 311	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA Ce 312	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Ce 313	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
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BA Da 123	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Dc 449	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Dc 450	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA Dd 300	<3.00	<3.00	<3.00	<0.006	<0.009	<0.009	<0.500	<0.007	<0.017
BA De 632	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
BA De 633	<3.00	<3.00	<3.00	<0.006	<0.000	<0.009	<0.500	<0.007	<0.017
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER WHOLE TOT.REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<0.013	<0.008	<0.046	<0.500	E0.008	<0.005	<0.013	<0.060	<0.004
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BA Cb 139	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cb 141	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
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BA Cb 142	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cc 256	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cc 257	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cc 258	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 231	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 232	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 234	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 235	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 236	<0.013	<0.008	<0.046	<0.500	E0.130	<0.005	<0.013	<0.060	<0.004
BA Cd 237	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 238	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 239	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Cd 241	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Ce 311	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Ce 312	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Ce 313	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
	<0.002	<0.002	<0.003	--	<0.003	<0.004	<0.004	<0.017	<0.002
BA Da 123	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Dc 449	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Dc 450	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA Dd 300	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA De 632	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
BA De 633	<0.013	<0.008	<0.046	<0.500	<0.013	<0.005	<0.013	<0.060	<0.004
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT	DI- ELDRIN DIS- SOLVED (UG/L)	EPTC WATER FLT RD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLT RD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	E0.051	<3.00	<0.008	79.1	<0.008	<0.005	<0.013	<0.012	<0.008
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BA Cb 139	E0.580	<3.00	<0.008	86.3	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cb 141	E0.260	<3.00	<0.008	77.3	<0.008	<0.005	<0.013	<0.012	<0.008
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BA Cb 142	E0.015	<3.00	<0.008	119	<0.008	<0.005	<0.013	<0.012	<0.008
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	E0.140	<3.00	<0.008	104	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cc 256	E0.023	<3.00	<0.008	83.3	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cc 257	E0.004	<3.00	<0.008	96.5	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cc 258	<0.003	<3.00	<0.008	89.7	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 231	<0.003	<3.00	<0.008	106	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 232	<0.007	<3.00	<0.008	86.3	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 234	<0.003	<3.00	<0.008	120	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 235	<0.003	<3.00	<0.008	127	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 236	E0.750	<3.00	<0.008	101	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 237	<0.003	<3.00	<0.008	87.4	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 238	E0.110	<3.00	<0.008	206	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 239	E0.270	<3.00	<0.008	67.6	<0.008	<0.005	<0.013	<0.012	<0.008
BA Cd 241	<0.003	<3.00	<0.008	72.6	<0.008	<0.005	<0.013	<0.012	<0.008
BA Ce 311	E0.008	<3.00	<0.008	102	<0.008	<0.005	<0.013	<0.012	<0.008
BA Ce 312	<0.003	<3.00	<0.008	89.6	<0.008	<0.005	<0.013	<0.012	<0.008
BA Ce 313	E0.005	<3.00	<0.008	--	<0.008	<0.005	<0.013	<0.012	<0.008
	E0.007	--	E0.003	44.5	<0.001	<0.002	<0.004	<0.003	<0.003
BA Da 123	<0.003	<3.00	<0.008	96.9	<0.008	<0.005	<0.013	<0.012	<0.008
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<0.003	<3.00	<0.008	83.4	<0.008	<0.005	<0.013	<0.012	<0.008
BA Dc 449	E0.003	<3.00	<0.008	144	<0.008	<0.005	<0.013	<0.012	<0.008
BA Dc 450	E0.004	<3.00	<0.008	67.7	<0.008	<0.005	<0.013	<0.012	<0.008
BA Dd 300	<0.003	<3.00	<0.008	89.9	<0.008	<0.005	<0.013	<0.012	<0.008
BA De 632	<0.003	<3.00	<0.008	114	<0.008	<0.005	<0.013	<0.012	<0.008
BA De 633	<0.003	<3.00	<0.008	119	<0.008	<0.005	<0.013	<0.012	<0.008
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)	METHIO- CARB WATER WHOLE RECOV. (UG/L)	METHO- MYL TOTAL (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
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BA Cb 139	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	0.091	<0.012
BA Cb 141	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	0.060	<0.012
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BA Cb 142	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	E0.002	<0.012
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	E0.005	<0.012
BA Cc 256	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cc 257	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cc 258	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cd 231	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cd 232	<0.011	<0.039	<0.010	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cd 234	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cd 235	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cd 236	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	0.470	<0.012
BA Cd 237	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Cd 238	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	0.010	<0.012
BA Cd 239	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	5.40	<0.012
BA Cd 241	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	E0.003	<0.012
BA Ce 311	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Ce 312	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Ce 313	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
	<0.004	<0.002	<0.005	--	--	<0.001	<0.006	<0.002	<0.004
BA Da 123	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Dc 449	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA Dc 450	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	0.040	<0.012
BA Dd 300	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA De 632	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
BA De 633	<0.011	<0.039	<0.014	<0.500	<0.500	<0.038	<0.035	<0.009	<0.012
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Baltimore County, Maryland--Continued

WELL NUMBER	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPHTH- ALENE TOTAL (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
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BA Cb 139	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cb 141	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
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BA Cb 142	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cc 256	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cc 257	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	E0.001
BA Cc 258	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 231	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 232	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 234	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 235	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 236	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	E0.001
BA Cd 237	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 238	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 239	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Cd 241	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Ce 311	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Ce 312	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Ce 313	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
	<0.004	--	<0.003	<0.004	<0.004	<0.005	<0.002	<0.004	<0.006
BA Da 123	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	E0.010	<0.018	<0.010
BA Dc 449	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Dc 450	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA Dd 300	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA De 632	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
BA De 633	<0.007	<3.00	<0.010	<0.022	<0.009	<0.016	<0.011	<0.018	<0.010
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	PROPHAM TOTAL (UG/L)	PROPO- BXUR WATER RECOV. (UG/L)	CARB- ARYL UNFILT RECOVER (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
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BA Cb 139	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cb 141	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
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BA Cb 142	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cc 256	<0.009	0.047	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cc 257	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cc 258	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 231	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 232	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 234	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 235	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 236	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 237	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Cd 238	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	0.013
BA Cd 239	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	0.012
BA Cd 241	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Ce 311	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Ce 312	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Ce 313	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
	<0.003	<0.018	<0.007	<0.004	<0.013	--	--	--	<0.005
BA Da 123	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Dc 445	--	--	--	--	--	--	--	--	--
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BA Dc 448	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Dc 449	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Dc 450	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA Dd 300	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA De 632	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
BA De 633	<0.009	<0.008	<0.015	<0.016	<0.006	<0.500	<0.500	<0.500	<0.008
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BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	1-NAPH- THOL WATER WHOLE REC (UG/L)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)
BA Cb 137	--	--	--	--	--	--	--	--	--
BA Cb 138	<0.015	<0.030	<0.012	96.1	<0.008	<0.008	<0.012	<0.500	<3.00
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BA Cb 139	<0.015	<0.030	<0.012	95.8	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cb 141	<0.015	<0.030	<0.012	80.4	<0.008	<0.008	<0.012	<0.500	<3.00
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BA Cb 142	<0.015	<0.030	<0.012	103	<0.008	<0.008	<0.012	<0.500	<3.00
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BA Cc 253	--	--	--	--	--	--	--	--	--
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BA Cc 255	<0.015	<0.030	<0.012	117	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cc 256	<0.015	<0.030	<0.012	102	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cc 257	<0.015	<0.030	<0.012	106	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cc 258	<0.015	<0.030	<0.012	106	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 231	<0.015	<0.030	<0.012	92.3	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 232	<0.015	<0.030	<0.012	86.7	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 234	<0.015	<0.030	<0.012	104	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 235	<0.015	<0.030	<0.012	116	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 236	<0.015	<0.030	<0.012	106	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 237	<0.015	<0.030	<0.012	108	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 238	<0.015	<0.030	<0.012	156	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 239	<0.015	<0.030	<0.012	102	<0.008	<0.008	<0.012	<0.500	<3.00
BA Cd 241	<0.015	<0.030	<0.012	102	<0.008	<0.008	<0.012	<0.500	<3.00
BA Ce 311	<0.015	<0.030	<0.012	113	<0.008	<0.008	<0.012	<0.500	<3.00
BA Ce 312	<0.015	<0.030	<0.012	105	<0.008	<0.008	<0.012	<0.500	<3.00
BA Ce 313	<0.015	<0.030	<0.012	--	<0.008	<0.008	<0.012	<0.500	<3.00
	<0.010	<0.007	<0.013	73.1	<0.002	<0.001	<0.002	--	--
BA Da 123	<0.015	<0.030	<0.012	106	<0.008	<0.008	<0.012	<0.500	<3.00
BA Dc 445	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
BA Dc 448	<0.015	<0.030	<0.012	111	<0.008	<0.008	<0.012	<0.500	<3.00
BA Dc 449	<0.015	<0.030	<0.012	126	<0.008	<0.008	<0.012	<0.500	<3.00
BA Dc 450	<0.015	<0.030	<0.012	107	<0.008	<0.008	<0.012	<0.500	<3.00
BA Dd 300	<0.015	<0.030	<0.012	93.7	<0.008	<0.008	<0.012	<0.500	<3.00
BA De 632	<0.015	<0.030	<0.012	93.2	<0.008	<0.008	<0.012	<0.500	<3.00
BA De 633	<0.015	<0.030	<0.012	132	<0.008	<0.008	<0.012	<0.500	<3.00
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
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QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
BA De 635	01-26-95	1100	392656076312001	300LCRV	GW	8030	8030	33.03	250.00	40
BA De 636	03-07-95	1000	392959076310401	300LCRV	GW	8030	8030	51.31	305.00	39
BA De 637	04-12-95	1000	392837076333401	300LCRV	GW	8030	8030	43.29	125.00	62
BA De 638	07-05-95	1000	392546076334501	300LCRV	GW	8030	8030	12.64	98.00	37
BA Df 351	04-26-95	1100	392605076254601	300BLMR	GW	8030	8030	18.72	175.00	36
	08-09-95	1130		300BLMR	GW	8030	8030	--	175.00	36
BA Df 352	07-20-95	1000	392814076271101	300LCRV	GW	8030	8030	--	173.00	30
BA Dg 117	03-28-95	1100	392610076241701	300BLMR	GW	8030	8030	7.11	300.00	58
BA Ea 90	08-08-95	1230	392206076503201	300BLMR	GW	8030	8030	--	203.00	33
BA Ea 92	02-02-95	1200	392341076521801	300UMFC	GW	8030	8030	--	420.00	41
	08-14-95	1114		300UMFC	GW	8030	8030	--	420.00	41
BA Ea 93	02-14-95	1200	392358076500901	300LCRV	GW	8030	8030	--	120.00	51
	05-09-95	1100		300LCRV	GW	8030	8030	--	120.00	51
	06-12-95	1300		300LCRV	GW	8030	8030	--	120.00	51
	07-12-95	1330		300LCRV	GW	8030	8030	--	120.00	51
	08-08-95	1400		300LCRV	GW	8030	8030	--	120.00	51
	09-11-95	1130		300LCRV	GW	8030	8030	--	120.00	51
BA Ea 95	06-06-95	1000	392159076520101	400BLMR	GW	8030	8030	2.60	200.00	60
BA Eb 291	10-05-94	1100	392025076465301	300MMSG	GW	8030	8030	38.90	200.00	102
BA Ec 203	01-25-95	1100	392430076410301	400SGTS	GW	8030	8030	33.20	190.00	36
BA Ec 204	07-06-95	1000	392434076404301	400SGTS	GW	8030	8030	39.91	300.00	20
BA Fb 81	01-10-95	1100	391857076474301	370HLFD	GW	8030	8030	57.66	125.00	28
	05-09-95	1000		370HLFD	GW	8030	8030	--	125.00	28
	06-12-95	1100		370HLFD	GW	8030	8030	--	125.00	28
	07-12-95	1200		370HLFD	GW	8030	8030	--	125.00	28
	08-08-95	1100		370HLFD	GW	8030	8030	--	125.00	28
	09-11-95	1000		370HLFD	GW	8030	8030	--	125.00	28

WELL NUMBER	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
BA De 635	250	420	75	4.8	75	5.7	12.5	0.0	7.1	9
BA De 636	305	590	42	1.8	167	5.4	12.0	8.5	1.5	12
BA De 637	125	490	47	1.8	543	5.1	12.5	10.0	3.9	9
BA De 638	98	400	35	1.6	357	6.2	13.5	27.0	2.5	78
BA Df 351	175	240	34	1.5	104	6.1	12.5	17.0	5.0	27
	175	240	25	4.6	115	6.2	14.5	26.0	--	--
BA Df 352	173	460	25	2.3	149	7.0	13.0	25.0	<2.0	37
BA Dg 117	300	230	34	1.3	157	6.6	11.5	6.5	0.5	68
BA Ea 90	203	490	20	1.2	121	--	15.0	24.0	--	--
BA Ea 92	420	540	60	2.0	107	6.6	13.0	4.5	7.4	43
	420	540	54	3.3	122	--	14.0	--	--	--
BA Ea 93	120	580	63	1.6	498	6.3	12.0	1.5	3.8	65
	120	580	15	2.4	509	6.0	13.0	--	--	--
	120	580	25	1.5	508	6.1	13.5	16.5	--	--
	120	580	27	3.2	514	6.3	13.0	30.0	--	--
	120	580	30	3.3	498	6.1	13.0	23.0	--	--
	120	580	39	3.5	492	6.2	13.0	20.0	--	--
BA Ea 95	200	440	25	1.7	198	5.9	15.5	24.0	8.7	22
BA Eb 291	200	465	90	2.2	212	--	13.5	14.5	5.2	82
BA Ec 203	190	450	63	1.5	129	5.3	12.0	5.0	7.6	7
BA Ec 204	300	420	53	2.0	129	6.1	17.5	31.5	5.3	28
BA Fb 81	125	230	63	4.0	1220	6.3	12.0	0.0	7.6	79
	125	230	20	1.4	1470	6.2	13.5	--	--	--
	125	230	40	1.3	1390	6.3	14.0	19.0	--	--
	125	230	31	1.6	1130	6.3	14.5	36.0	--	--
	125	230	25	1.6	1490	6.3	14.5	22.5	--	--
	125	230	35	1.2	1090	6.4	14.0	20.5	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

WELL NUMBER	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
BA De 635	20	3.9	5.5	<0.10	2.6	2.0	13	3.4	2.9	62
BA De 636	36	6.3	11	<0.10	4.8	2.6	23	13	22	110
BA De 637	81	17	130	<0.10	9.3	4.5	11	58	0.50	308
BA De 638	130	30	32	<0.10	14	4.8	28	8.8	14	214
BA Df 351	--	--	4.9	<0.10	--	--	25	--	0.90	88
	46	12	4.7	<0.10	4.0	0.60	27	5.0	1.6	86
BA Df 352	43	11	9.6	0.20	3.8	3.0	30	8.1	14	112
BA Dg 117	60	15	5.1	0.20	5.5	5.0	63	2.2	0.20	138
BA Ea 90	--	--	--	--	--	--	--	--	--	--
BA Ea 92	46	8.0	4.0	<0.10	6.3	1.4	21	2.2	1.3	78
	--	--	--	--	--	--	--	--	--	--
BA Ea 93	210	34	81	<0.10	31	0.40	29	4.8	28	270
	--	--	76	--	--	--	--	--	--	--
	--	--	76	--	--	--	--	--	--	--
	--	--	80	--	--	--	--	--	--	--
	--	--	75	--	--	--	--	--	--	--
	--	--	79	--	--	--	--	--	--	--
BA Ea 95	60	16	8.9	<0.10	4.8	2.6	22	10	17	130
BA Eb 291	100	14	2.5	<0.10	16	0.20	53	2.8	18	154
BA Ec 203	32	7.8	19	0.10	3.0	3.3	16	6.5	1.5	86
BA Ec 204	40	11	2.9	0.20	3.1	2.0	26	6.1	15	96
BA Fb 81	480	98	280	<0.10	56	0.90	37	12	31	718
	--	--	370	--	--	--	--	--	--	--
	--	--	370	--	--	--	--	--	--	--
	--	--	390	--	--	--	--	--	--	--
	--	--	390	--	--	--	--	--	--	--
	--	--	260	--	--	--	--	--	--	--
WELL NUMBER	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
BA De 635	53	<0.010	3.20	3.20	<0.015	<0.010	<0.010	<1	<1	28
BA De 636	111	<0.010	4.50	4.50	<0.015	<0.010	<0.010	<1	<1	23
BA De 637	263	<0.010	5.90	5.90	0.020	<0.010	<0.010	<1	<1	280
BA De 638	206	<0.010	5.30	5.30	0.020	0.020	0.020	<1	<1	220
BA Df 351	--	<0.010	2.20	2.20	<0.015	0.010	0.010	--	<1	--
	90	<0.010	2.10	2.10	<0.015	<0.010	<0.010	--	--	5
BA Df 352	104	<0.010	0.060	0.060	0.020	<0.010	0.010	<1	<1	4
BA Dg 117	140	<0.010	--	<0.050	<0.015	0.150	0.150	<1	<1	150
BA Ea 90	--	--	--	--	--	--	--	--	--	--
BA Ea 92	75	<0.010	1.20	1.20	<0.015	0.020	0.020	<1	1	15
	--	--	--	--	--	--	--	--	--	--
BA Ea 93	265	<0.010	0.640	0.640	<0.015	<0.010	<0.010	<1	<1	13
	--	--	0.670	0.670	--	--	--	--	--	--
	--	--	0.520	0.520	--	--	--	--	--	--
	--	--	0.600	0.600	--	--	--	--	--	--
	--	--	0.740	0.740	--	--	--	--	--	--
	--	--	0.810	0.810	--	--	--	--	--	--
BA Ea 95	131	<0.010	7.80	7.80	0.020	0.040	<0.010	<1	<1	43
BA Eb 291	162	<0.010	0.810	0.810	<0.015	0.030	0.030	<1	<1	<2
BA Ec 203	82	<0.010	4.50	4.50	<0.015	0.020	0.010	<1	<1	210
BA Ec 204	93	<0.010	1.80	1.80	0.030	<0.010	<0.010	<1	<1	69
BA Fb 81	563	<0.010	0.320	0.320	<0.015	<0.010	0.010	<1	<1	<2
	--	--	0.380	0.380	--	--	--	--	--	--
	--	--	0.430	0.430	--	--	--	--	--	--
	--	--	0.430	0.430	--	--	--	--	--	--
	--	--	0.420	0.420	--	--	--	--	--	--
	--	--	0.320	0.320	--	--	--	--	--	--

WATER-QUALITY DATA. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

[illegible][illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

WATER-QUALITY DATA. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

BALTIMORE COUNTY, MARYLAND--Continued

[illegible][illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

BALTIMORE COUNTY, MARYLAND--Continued

[illegible]

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

CALVERT COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
CA Fc 13	10-19-94	1350	382343076302901	122CSPK	GW	4040	4040	27.95	34.00	29
	10-19-94	1355						27.95	34.00	29
	11-28-94	1320						28.62	34.00	29
	11-28-94	1325						28.62	34.00	29
	03-15-95	1030						28.38	34.00	29
	04-25-95	1050						28.94	34.00	29
	05-23-95	0945						29.28	34.00	29
	06-27-95	1300						29.53	34.00	29
	08-09-95	0950						29.32	34.00	29
	10-19-94	1250						16.23	23.00	18
CA Fc 16	10-19-94	1255	382340076303002	122CSPK	GW	4040	4040	16.23	23.00	18
	11-28-94	1230						16.82	23.00	18
	11-28-94	1235						16.82	23.00	18
	03-15-95	1320						16.49	23.00	18
	04-25-95	1340						16.68	23.00	18
	05-23-95	1100						16.92	23.00	18
	06-27-95	1200						17.18	23.00	18
	08-09-95	1330						18.80	23.00	18
	10-19-94	1140						7.72	23.00	18
	10-19-94	1145						7.72	23.00	18
CA Fc 18	11-28-94	1100	382340076303801	122CSPK	GW	4040	4040	8.11	23.00	18
	11-28-94	1105						8.11	23.00	18
	03-15-95	1210						7.96	23.00	18
	04-25-95	1230						8.13	23.00	18
	05-23-95	1230						8.25	23.00	18
	06-27-95	1130						8.23	23.00	18
	08-09-95	1200						8.56	23.00	18
	10-20-94	1040		111LLND	LYS	4030	--	3.56	3.18	
	11-29-94	1030			LYS	4030	--	3.56	3.18	
	11-29-94	1035			LYS	4030	--	3.56	3.18	
CA Fc 28	03-16-95	1020	382340076303401	111LLND	LYS	4030	4030	--	3.56	3.18
	04-27-95	1020						--	3.56	3.18
	05-25-95	1035						--	3.56	3.18
	06-28-95	1215						--	3.56	3.18
	08-10-95	1220						--	3.56	3.18
	10-20-94	1050		111LLND	LYS	4030	--	8.52	8.14	
	11-29-94	1050			LYS	4030	--	8.52	8.14	
	03-16-95	1025			LYS	4030	--	8.52	8.14	
	04-27-95	1025			LYS	4030	--	8.52	8.14	
	05-25-95	1040			LYS	4030	--	8.52	8.14	
CA Fc 29	06-28-95	1216	382340076303402	111LLND	LYS	4030	4030	--	8.52	8.14
	10-20-94	1100						--	13.70	13.32
	10-20-94	1105						--	13.70	13.32
	11-29-94	1040						--	13.70	13.32
	03-16-95	1030						--	13.70	13.32
	04-27-95	1030						--	13.70	13.32
	05-25-95	1045						--	13.70	13.32
	06-28-95	1217						--	13.70	13.32
	08-10-95	1230						--	13.70	13.32
	10-20-94	0940						--	2.50	2.12
CA Fc 30	10-20-94	0945	382340076303403	111LLND	LYS	4030	4030	--	2.50	2.12
	11-29-94	0940						--	2.50	2.12
	11-29-94	0945						--	2.50	2.12
	03-16-95	1000						--	2.50	2.12
	04-27-95	0955						--	2.50	2.12
CA Fc 31	10-20-94	0940	382340076303802	111LLND	LYS	4030	4030	--	2.50	2.12
	11-29-94	0945						--	2.50	2.12
	11-29-94	0945						--	2.50	2.12
	03-16-95	1000						--	2.50	2.12
	04-27-95	0955						--	2.50	2.12

Geologic unit (aquifer): 111LLND - Lowland Deposits
122CSPK - Chesapeake Group

Site type: GW - Groundwater
LYS - Lysimeter

Sampling method: - 4020 - Open top bailer
4030 - Suction pump
4040 - Submersible pump

E: Estimated

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

CALVERT COUNTY, MARYLAND--Continued

WELL NUMBER	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
CA Fc 13	34	47.44	20	1.0	551	7.1	15.5	20.0	4.4
	34	47.44	20	1.0	551	7.1	15.5	20.0	4.4
	34	47.44	20	1.0	550	7.1	16.0	17.0	6.4
	34	47.44	20	1.0	550	7.1	16.0	17.0	6.4
	34	47.44	5	0.8	569	7.1	15.5	10.5	6.2
	34	47.44	12	0.5	573	6.9	16.0	14.5	5.7
	34	47.44	15	--	561	7.0	17.0	21.0	7.0
	34	47.44	25	0.3	--	7.0	16.0	24.5	5.8
	34	47.44	20	0.3	561	6.4	17.0	--	3.2
	23	30.75	20	1.0	469	7.4	17.0	20.0	5.1
CA Fc 16	23	30.75	20	1.0	469	7.4	17.0	20.0	5.1
	23	30.75	20	1.0	474	7.4	15.5	17.0	5.2
	23	30.75	20	1.0	474	7.4	15.5	17.0	5.2
	23	30.75	10	1.0	484	7.4	15.0	19.0	6.1
	23	30.75	10	0.7	365	6.9	14.5	16.0	7.1
	23	30.75	10	<1.0	495	7.2	15.0	--	7.6
	23	30.75	--	--	--	7.1	14.5	24.5	6.9
	23	30.75	7	1.0	499	6.2	16.0	--	3.6
	23	15.56	20	1.0	610	7.1	17.0	19.0	5.6
	23	15.56	20	1.0	610	7.1	17.0	19.0	5.6
CA Fc 18	23	15.56	16	1.0	547	--	16.5	15.0	8.4
	23	15.56	16	1.0	547	--	16.5	15.0	8.4
	23	15.56	30	1.0	553	7.1	13.0	14.0	7.1
	23	15.56	31	0.9	562	6.8	13.5	16.5	6.2
	23	15.56	20	--	558	6.7	15.0	--	7.0
	23	15.56	18	1.0	--	7.1	15.0	24.5	6.4
	23	15.56	30	1.0	548	6.2	17.0	--	2.4
	3.56	31.4	--	--	--	--	--	--	--
	3.56	31.4	--	--	534	7.7	13.5	15.0	--
	3.56	31.4	--	--	534	7.7	13.5	15.0	--
CA Fc 28	3.56	31.4	--	--	--	--	--	--	--
	3.56	31.4	--	--	--	--	--	--	--
	3.56	31.4	--	--	491	7.3	23.0	--	--
	3.56	31.4	--	--	--	--	--	--	--
	3.56	31.4	--	--	--	7.1	--	--	--
	8.52	31.4	--	--	--	--	--	--	--
	8.52	31.4	--	--	--	6.2	12.0	--	--
	8.52	31.4	--	--	182	6.3	14.0	--	--
	8.52	31.4	--	--	151	6.2	16.5	21.0	--
	8.52	31.4	--	--	156	6.1	26.0	--	--
CA Fc 29	8.52	31.4	--	--	--	--	--	24.0	--
	13.7	31.4	--	--	--	--	--	--	--
	13.7	31.4	--	--	--	--	--	--	--
	13.7	31.4	--	--	--	--	--	--	--
	13.7	31.4	--	--	--	4.8	12.5	--	--
	13.7	31.4	--	--	--	4.9	15.0	16.5	--
	13.7	31.4	--	--	356	5.4	16.5	21.0	--
	13.7	31.4	--	--	336	4.9	23.0	--	--
	13.7	31.4	--	--	--	--	--	24.0	--
	13.7	31.4	--	--	--	--	--	--	--
CA Fc 30	2.5	15.5	--	--	448	7.5	19.0	18.5	--
	2.5	15.5	--	--	448	7.5	19.0	18.5	--
	2.5	15.5	--	--	410	7.1	12.5	13.0	--
	2.5	15.5	--	--	410	7.1	12.5	13.0	--
	2.5	15.5	--	--	405	7.1	15.0	16.5	--
	2.5	15.5	--	--	321	6.8	16.5	21.0	--
	2.5	15.5	--	--	--	--	--	--	--
	2.5	15.5	--	--	--	--	--	--	--
	2.5	15.5	--	--	--	--	--	--	--
	2.5	15.5	--	--	--	--	--	--	--
CA Fc 31	2.5	15.5	--	--	448	7.5	19.0	18.5	--
	2.5	15.5	--	--	448	7.5	19.0	18.5	--
	2.5	15.5	--	--	410	7.1	12.5	13.0	--
	2.5	15.5	--	--	410	7.1	12.5	13.0	--
	2.5	15.5	--	--	405	7.1	15.0	16.5	--
	2.5	15.5	--	--	321	6.8	16.5	21.0	--
	2.5	15.5	--	--	--	--	--	--	--
	2.5	15.5	--	--	--	--	--	--	--
	2.5	15.5	--	--	--	--	--	--	--
	2.5	15.5	--	--	--	--	--	--	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

CALVERT COUNTY, MARYLAND--Continued

WELL NUMBER	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
CA Fc 13	--	--	<0.010	7.20	7.20	<0.015	<0.20	0.140
	6.7	--	<0.010	7.20	7.20	0.020	<0.20	0.130
	--	--	<0.010	7.50	7.50	<0.015	<0.20	0.120
	7.3	--	<0.010	7.00	7.00	0.020	0.30	0.130
	--	--	<0.010	7.00	7.00	0.030	<0.20	0.120
	--	--	<0.010	7.10	7.10	0.020	<0.20	0.140
	--	--	<0.010	7.10	7.10	0.020	<0.20	0.140
	--	6.79	0.010	6.80	6.80	0.030	<0.20	0.110
	--	--	<0.010	6.80	6.80	0.020	<0.20	0.130
	--	--	<0.010	12.0	12.0	0.030	<0.20	0.190
CA Fc 16	<12	--	<0.010	11.0	11.0	0.030	0.60	0.170
	11	11.0	0.010	11.0	11.0	<0.015	0.30	0.100
	<0.10	--	<0.010	12.0	12.0	0.020	<0.20	0.160
	--	--	<0.010	11.0	11.0	0.040	<0.20	0.150
	--	--	<0.010	11.0	11.0	<0.015	<0.20	0.160
	--	--	<0.010	11.0	11.0	0.020	<0.20	0.180
	--	11.0	0.010	11.0	11.0	0.020	<0.20	0.150
	--	--	<0.010	11.0	11.0	0.030	<0.20	0.170
	--	--	<0.010	11.0	11.0	0.020	<0.20	0.140
	<0.10	11.0	0.020	11.0	11.0	0.020	<0.20	0.130
CA Fc 18	--	--	<0.010	11.0	11.0	<0.015	<0.20	0.120
	<11	--	<0.010	11.0	11.0	0.020	0.30	0.120
	--	--	<0.010	11.0	11.0	<0.015	<0.20	0.110
	--	--	<0.010	8.60	8.60	<0.015	<0.20	0.140
	--	9.99	0.010	10.0	10.0	0.020	<0.20	0.140
	--	9.99	0.010	10.0	10.0	<0.015	<0.20	0.120
	--	--	<0.010	7.60	7.60	0.030	<0.20	0.140
	6.8	6.49	0.010	6.50	6.50	<0.015	0.30	0.200
	--	--	<0.010	6.90	6.90	<0.015	<0.20	0.220
	8.2	--	<0.010	6.80	6.80	<0.010	<0.20	0.220
CA Fc 28	--	--	--	--	--	--	0.30	--
	--	0.840	0.010	0.850	0.850	0.050	<0.20	0.100
	--	--	<0.010	1.60	1.60	0.020	<0.20	0.220
	2.6	1.87	0.030	1.90	1.90	<0.015	0.70	0.110
	--	--	<0.010	1.40	1.40	<0.015	<0.20	0.220
	0.69	0.120	0.070	0.190	0.190	0.220	0.50	0.140
	--	--	<0.010	--	<0.050	0.020	0.20	0.030
	0.26	--	<0.010	0.060	0.060	<0.015	0.20	<0.010
	--	--	<0.010	--	<0.050	0.020	0.30	<0.010
	--	--	<0.010	--	<0.050	0.020	<0.20	0.010
CA Fc 29	1.7	0.130	0.020	0.150	0.150	0.070	1.5	<0.010
	--	--	--	--	--	--	--	--
	<0.10	--	<0.010	--	<0.050	0.030	0.40	0.030
	0.48	--	<0.010	0.080	0.080	0.020	0.40	0.020
	--	--	<0.010	0.060	0.060	0.030	<0.20	<0.010
	--	--	<0.010	--	<0.050	0.030	0.20	0.020
	--	--	<0.010	--	<0.050	0.030	0.50	0.160
	1.1	0.050	0.010	0.060	0.060	0.090	1.0	0.010
	--	--	--	--	--	--	--	--
	8.0	--	<0.010	7.10	7.10	0.030	0.90	0.110
CA Fc 30	7.8	--	<0.010	6.80	6.80	0.020	1.0	0.100
	11	--	<0.010	10.0	10.0	<0.015	1.0	0.090
	<11	--	<0.010	10.0	10.0	0.020	0.90	0.100
	4.5	--	<0.010	3.90	3.90	<0.015	0.60	0.050
	0.69	--	<0.010	0.090	0.090	0.020	0.60	0.050
CA Fc 31	--	--	<0.010	7.10	7.10	0.030	0.90	0.110
	7.8	--	<0.010	6.80	6.80	0.020	1.0	0.100
	11	--	<0.010	10.0	10.0	<0.015	1.0	0.090
	<11	--	<0.010	10.0	10.0	0.020	0.90	0.100
	4.5	--	<0.010	3.90	3.90	<0.015	0.60	0.050
	0.69	--	<0.010	0.090	0.090	0.020	0.60	0.050

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

CALVERT COUNTY, MARYLAND--Continued

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)
CA Fc 32	10-20-94	0950	382340076303803		111LLND	LYS	4030	--	5.00
	10-20-94	0955			111LLND	LYS	4030	--	5.00
	11-29-94	0950			111LLND	LYS	4030	--	5.00
	11-29-94	0955			111LLND	LYS	4030	--	5.00
	03-16-95	1005			111LLND	LYS	4030	--	5.00
CA Fc 34	04-27-95	0950	382339076304202		111LLND	LYS	4030	--	5.00
	06-28-95	1115			111LLND	LYS	4030	--	5.00
	08-10-95	1135			111LLND	LYS	4030	--	5.00
	10-19-94	1100			111LLND	GW	4020	7.82	17.80
	10-19-94	1105			111LLND	GW	4020	7.82	17.80
	11-28-94	1130			111LLND	GW	4020	--	17.80
	11-28-94	1135			111LLND	GW	4020	--	17.80
	03-15-95	1120			111LLND	GW	4020	8.05	17.80
	04-25-95	1130			111LLND	GW	4020	7.77	17.80
	05-23-95	1315			111LLND	GW	4020	8.13	17.80
	06-27-95	0930			111LLND	GW	4020	8.23	17.80
	08-09-95	1100			111LLND	GW	4020	8.11	17.80

WELL NUMBER	TO TOP OF SAMPLE INTER- VAL (FT)	TO BOT- TOM OF SAMPLE INTER- VAL (FT)	OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
CA Fc 32	4.62	5.0	15.5	516	7.1	18.5	19.0	--
	4.62	5.0	15.5	516	7.1	18.5	19.0	--
	4.62	5.0	15.5	370	7.1	13.5	13.0	--
	4.62	5.0	15.5	370	7.1	13.5	13.0	--
	4.62	5.0	15.5	373	6.9	12.0	16.5	--
CA Fc 34	4.62	5.0	15.5	343	6.7	15.0	21.0	--
	4.62	5.0	15.5	535	6.8	21.0	24.0	--
	4.62	5.0	15.5	373	6.4	23.5	30.0	--
	15.8	17.8	12.01	662	7.1	18.5	--	5.4
	15.8	17.8	12.01	662	7.1	18.5	--	5.4
	15.8	17.8	12.01	635	7.1	16.5	17.0	5.5
	15.8	17.8	12.01	635	7.1	16.5	17.0	5.5
	15.8	17.8	12.01	656	7.0	13.0	--	2.8
	15.8	17.8	12.01	651	6.8	13.5	16.0	2.5
	15.8	17.8	12.01	645	7.0	14.5	20.0	4.5
	15.8	17.8	12.01	--	6.7	14.5	24.5	4.4
	15.8	17.8	12.01	630	6.5	17.0	--	3.2

WELL NUMBER	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
CA Fc 32	8.1	--	<0.010	7.90	7.90	<0.015	0.20	0.070
	8.0	--	<0.010	7.80	7.80	<0.010	0.20	0.060
	--	--	<0.010	5.00	5.00	<0.015	<0.20	0.070
	5.2	--	<0.010	5.00	5.00	0.020	0.20	0.060
	--	--	<0.010	5.80	5.80	<0.015	<0.20	0.070
CA Fc 34	5.1	--	<0.010	4.90	4.90	0.020	0.20	0.080
	1.7	1.19	0.010	1.20	1.20	0.030	0.50	0.060
	--	--	<0.010	--	<0.050	<0.015	<0.20	0.080
	--	--	<0.010	10.0	10.0	0.030	<0.20	0.130
	<10	--	<0.010	10.0	10.0	0.050	0.40	0.120
	10	--	<0.010	9.80	9.80	<0.015	0.30	0.060
	<10	--	<0.010	10.0	10.0	0.030	0.20	0.120
	10	--	<0.010	9.80	9.80	0.050	0.40	0.110
	10	--	<0.010	10.0	10.0	0.040	0.30	0.120
	--	9.98	0.020	10.0	10.0	0.030	<0.20	0.120
	10	9.98	0.020	10.0	10.0	0.090	0.30	0.110
	--	--	<0.010	10.0	10.0	0.060	<0.20	0.120

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
CAROLINE COUNTY, MARYLAND

	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
CO Dc 146	06-05-95	1400	385302075540101		112PCPC	GW	4070	7.00

	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)
CO Dc 146	20.00	17	20	45.0	196	5.0	13.0	28.0

	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
CO Dc 146	1	<0.010	9.40	9.40	0.020	<0.010	<0.010

Geologic unit (aquifer): 112PCPC - Pleistocene-Pliocene Series

Site type: GW - Groundwater

Sampling method: 4070 - Gas lift

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

CARROLL COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
CL Bf 184	07-26-95	1130	393754076512401	300PRTB	GW	4030	0.85	340.00	50	
WELL NUMBER	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
CL Bf 184	340	785	60	30	219	6.5	12.0	27.0	35	<0.010
WELL NUMBER	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)
CL Bf 184	11.0	11.0	0.020	0.010	0.010	<0.003	<0.002	<0.100	<0.002	<0.002
WELL NUMBER	AME- TRYNE TOTAL (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	ATRA- ZINE WATER UNFLTRD REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	BROM- ACIL WATER WHLREC (UG/L)	BUTA- CHLOR WATER WHLREC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	BUTYL- ATE WATER WHLREC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)
CL Bf 184	<0.100	0.190	0.200	<0.002	<0.200	<0.100	<0.002	<0.100	<0.003	E0.040
WELL NUMBER	CARBOBX- IN BWATER BWHOLE RECOV- ERABLE (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYAN- AZINE TOTAL (UG/L)	CYCLO- ATE WATER WHOLE RECOV- ERABLE (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, WHOLE, TOTAL (UG/L)	DE-ISO PROPYL ATRAZIN WATER, WHOLE, TOTAL (UG/L)
CL Bf 184	<0.200	<0.004	<0.200	<0.100	<0.004	<0.017	<0.002	E0.210	0.320	<0.200
WELL NUMBER	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT	DI- ELDRIN DIS- SOLVED (UG/L)	DIPHEN- AMID WATER WHOLE RECOV- ERABLE (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)	HEXAZI- NONE WATER WHOLE RECOV- ERABLE (UG/L)	LINDANE DIS- SOLVED (UG/L)
CL Bf 184	<0.002	136	<0.001	<0.100	<0.002	<0.004	<0.003	<0.003	<0.200	<0.004
WELL NUMBER	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, WAT FLT 0.7 U GF, REC (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	METO- LACHLOR WATER WHOLE DISSOLV (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)	METRI- BUZIN WATER WHOLE DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)
CL Bf 184	<0.002	<0.005	<0.001	<0.006	<0.200	0.120	<0.100	<0.004	<0.004	<0.003

Geologic unit (aquifer): 300PRTB - Prettyboy Schist

Site type: GW - Groundwater

Sampling method: 4030 - Suction Pump

E: Estimated

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

CARROLL COUNTY, MARYLAND--Continued

WELL NUMBER	PARA- THION, DIS- SOLVED (UG/L)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P, P' DDE DISSOLV (UG/L)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PROME- TRYNE TOTAL (UG/L)	PROME- TONE TOTAL (UG/L)
CL Bf 184	<0.004	<0.004	<0.005	<0.002	<0.004	<0.006	<0.003	<0.100	<0.200
WELL NUMBER	PRO- METON, WATER, DISS, REC (UG/L)	PROPA- CHLOR WATER WHOLE RECOV. (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	SIME- TRYNE TOTAL (UG/L)
CL Bf 184	<0.018	<0.100	<0.007	<0.004	<0.013	<0.100	<0.100	<0.005	<0.100
WELL NUMBER	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER WHOLE RECOV. (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	VER- NOLATE WATER WHOLE RECOV. (UG/L)
CL Bf 184	<0.010	<0.200	<0.007	<0.013	119	<0.002	<0.001	<0.002	<0.100

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

FREDERICK COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)
FR Cf 36	07-18-95	1400	393000077193601	377FDCK	GW	8030	95.00	23	95
FR De 58	02-23-95	1200	392826077244801	377FDCK	GW	4040	70.00	41	70
	07-25-95	1230		377FDCK	GW	4040	70.00	41	70
FR De 76	07-18-95	1200	392719077202801	377FDCK	GW	8030	70.00	37	70
FR Fd 16	07-17-95	1400	391537077284601	377FDCK	GW	8030	49.00	18	49
FR Fd 90	07-18-95	0900	391910077260002	377FDCK	GW	8030	75.00	34	75

WELL NUMBER	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3	HARD- NESS TOTAL (MG/L AS CACO3)
FR Cf 36	360	32	2.8	1000	7.1	14.5	31.5	2.2	246	360
FR De 58	310	40	1.4	409	7.2	11.5	6.0	--	--	200
	310	26	3.0	355	7.4	13.5	36.0	--	135	170
FR De 76	310	25	2.0	685	7.0	15.0	30.0	3.3	257	320
FR Fd 16	270	40	1.0	567	7.0	19.5	33.5	8.1	163	250
FR Fd 90	300	35	2.6	573	7.3	15.0	27.5	6.1	178	--

WELL NUMBER	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
FR Cf 36	120	140	0.10	14	1.6	9.5	46	27	576	512
FR De 58	73	7.4	<0.10	4.1	0.80	5.5	2.3	15	232	205
	62	8.1	<0.10	4.0	0.80	7.5	2.4	6.4	192	196
FR De 76	110	37	0.20	11	4.0	16	7.1	34	408	377
FR Fd 16	79	28	0.30	12	0.90	9.7	9.1	31	334	327
FR Fd 90	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
FR Cf 36	<0.010	1.50	1.50	0.040	<0.010	<0.010	30	10	<10	<1
FR De 58	--	--	--	--	--	--	<10	<3	<10	<1
	<0.010	5.50	5.50	0.020	0.010	0.020	40	4	10	<1
FR De 76	<0.010	2.80	2.80	0.030	<0.010	0.010	20	13	<10	1
FR Fd 16	<0.010	13.0	13.0	0.020	<0.010	<0.010	20	6	10	<1
FR Fd 90	<0.010	14.0	14.0	0.020	<0.010	0.010	--	--	--	--

Geologic unit (aquifer): 377FDCK - Frederick Limestone

Site type: GW - Groundwater

Sampling method: 4040 - Submersible pump
8030 - Grab sample at water supply tap

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

FREDERICK COUNTY, MARYLAND--Continued

WELL NUMBER	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	AME- TRYNE TOTAL (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	ATRA- ZINE WATER UNFLTRD (UG/L)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)
FR Cf 36	<0.003	<0.002	--	<0.002	<0.002	--	0.012	--	<0.002
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.003	<0.002	<0.100	<0.002	<0.002	<0.100	0.110	0.100	<0.002
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	<0.003	<0.002	--	<0.002	<0.002	--	0.063	--	<0.002
FR Fd 90	<0.003	<0.002	<0.100	<0.002	<0.002	<0.100	0.036	0.100	<0.002

WELL NUMBER	BROM- ACIL WATER WHLREC (UG/L)	BUTA- CHLOR WATER WHLREC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	BUTYL- ATE WATER WHLREC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CARBOBX- IN BWATER BWHL RECOV- ERABLE (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYAN- AZINE TOTAL (UG/L)
FR Cf 36	--	--	<0.002	--	<0.003	<0.003	--	<0.004	--
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.200	<0.100	<0.002	<0.100	<0.003	<0.003	<0.200	<0.004	<0.200
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	--	--	<0.002	--	<0.003	<0.003	--	<0.004	--
FR Fd 90	<0.200	<0.100	<0.002	<0.100	<0.003	<0.003	<0.200	<0.004	<0.200

WELL NUMBER	CYCLO- ATE BWATER BWHL RECOV- ERABLE (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, WHOLE, TOTAL (UG/L)	DE-ISO PROPYL ATRAZIN WATER, WHOLE, TOTAL (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT
FR Cf 36	--	<0.004	<0.017	<0.002	E0.013	--	--	<0.002	78.1
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.100	<0.004	<0.017	<0.002	E0.140	0.220	<0.200	<0.002	134
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	--	<0.004	<0.017	<0.002	E0.150	--	--	<0.002	71.5
FR Fd 90	<0.100	<0.004	<0.017	<0.002	E0.050	<0.200	<0.200	<0.002	73.9

WELL NUMBER	DI- ELDRIN DIS- SOLVED (UG/L)	DIPHEN- AMID WATER WHOLE RECOV- ERABLE (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	FONOFOS WATER DISS REC (UG/L)	HEXAZI- NONE WATER WHOLE RECOV- ERABLE (UG/L)	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)
FR Cf 36	<0.001	--	<0.002	<0.004	<0.003	<0.003	--	<0.004	<0.002
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.001	<0.100	<0.002	<0.004	<0.003	<0.003	<0.200	<0.004	<0.002
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	<0.001	--	<0.002	<0.004	<0.003	<0.003	--	<0.004	<0.002
FR Fd 90	<0.001	<0.100	<0.002	<0.004	<0.003	<0.003	<0.200	<0.004	<0.002

WELL NUMBER	MALA- THION, DIS- SOLVED (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)
FR Cf 36	<0.005	<0.001	<0.006	--	E0.002	--	<0.004	<0.004	<0.003
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.005	<0.001	<0.006	<0.200	0.004	<0.100	<0.004	<0.004	<0.003
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	<0.005	<0.001	<0.006	--	E0.002	--	<0.004	<0.004	<0.003
FR Fd 90	<0.005	<0.001	<0.006	<0.200	E0.002	<0.100	<0.004	<0.004	<0.003

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

FREDERICK COUNTY, MARYLAND--Continued

WELL NUMBER	PARA- THION, DIS- SOLVED (UG/L)	FEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PHORATE WATER FILTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PRON- AMIDE WATER FILTRD 0.7 U GF, REC (UG/L)	PROME- TRYNE TOTAL (UG/L)	PROME- TONE TOTAL (UG/L)
FR Cf 36	<0.004	<0.004	<0.005	<0.002	<0.004	<0.006	<0.003	--	--
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.004	<0.004	<0.005	<0.002	<0.004	<0.006	<0.003	<0.100	<0.200
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	<0.004	<0.004	<0.005	<0.002	<0.004	<0.006	<0.003	--	--
FR Fd 90	<0.004	<0.004	<0.005	<0.002	<0.004	<0.006	<0.003	<0.100	<0.200

WELL NUMBER	PRO- METON, WATER, DISS, REC (UG/L)	PROPA- CHLOR WATER WHOLE RECOV. (UG/L)	PROP- CHLOR, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FILTRD 0.7 U GF, REC (UG/L)	PRO- PARGITE WATER FILTRD 0.7 U GF, REC (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	SIME- TRYNE TOTAL (UG/L)
FR Cf 36	<0.018	--	<0.007	<0.004	<0.013	--	--	E0.003	--
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.018	<0.100	<0.007	<0.004	<0.013	<0.100	<0.100	<0.005	<0.100
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	<0.018	--	<0.007	<0.004	<0.013	--	--	<0.005	--
FR Fd 90	<0.018	<0.100	<0.007	<0.004	<0.013	<0.100	<0.100	E0.002	<0.100

WELL NUMBER	TEBU- THIURON WATER FILTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER WHOLE RECOV. (UG/L)	TER- BACIL WATER FILTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FILTRD 0.7 U GF, REC (UG/L)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT	THIO- BENCARB WATER FILTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FILTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	VER- NOLATE WATER WHOLE RECOV. (UG/L)
FR Cf 36	<0.010	--	<0.007	<0.013	85.8	<0.002	<0.001	<0.002	--
FR De 58	--	--	--	--	--	--	--	--	--
FR De 76	<0.010	<0.200	<0.007	<0.013	120	<0.002	<0.001	<0.002	<0.100
FR Fd 16	--	--	--	--	--	--	--	--	--
FR Fd 16	<0.010	--	<0.007	<0.013	82.2	<0.002	<0.001	<0.002	--
FR Fd 90	<0.010	<0.200	<0.007	<0.013	84.1	<0.002	<0.001	<0.002	<0.100

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
HARFORD COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)
HA Ca 23	05-30-95	1400	393158076302601	300LCRV	GW	4030	7.19	200.00	

WELL NUMBER	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
HA Ca 23	24	200	470	42	24	134	6.1	12.5

WELL NUMBER	TEMPER- ATURE AIR (DEG C)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
HA Ca 23	21.5	18	<0.010	6.80	6.80	0.020	<0.010	0.010

Geologic unit (aquifer): 300LCRV - Loch Raven Schist

Site type: GW - Groundwater

Sampling method: 4030 - Suction pump

QUALITY OF GROUND WATER

573

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

HOWARD COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)
HO Cd 78	08-14-95	1300	391440076555402	300LCRV		GW	9.74	19.00

WELL NUMBER	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	ALKA- LITY WAT WH TOT IT FIELD MG/L AS CACO3
HO Cd 78	9.0	19	426	102	5.3	13.0	32.0	6

Geologic unit (aquifer): 300LCRV - Loch Raven Schist

Site type: GW - Groundwater

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
KENT COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
KE Be 47	06-05-95	1600	391832075560802	112CLMB	GW	4070	14.05	

WELL NUMBER	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)
KE Be 47	24.00	21	24	64.0	321	6.4	13.0	28.0

WELL NUMBER	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
KE Be 47	30	<0.010	7.60	7.60	0.070	<0.010	0.020

Geologic unit (aquifer): 112CLMB - Columbia Formation

Site type: GW - Groundwater

Sampling method: 4070 - Gas lift

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

QUEEN ANNES COUNTY, MARYLAND

		DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
QA Db	14	03-16-95	0930	390055076184501	125AQUI	GW	8030	--	165.00	145	
		08-22-95	1005		125AQUI	GW	4040	--	165.00	145	
QA Db	17	03-16-95	1015	390059076191801	125AQUI	GW	8030	--	--	--	
		08-22-95	1045		125AQUI	GW	4040	--	--	--	
QA Db	23	03-16-95	1030	390033076184501	125AQUI	GW	8030	--	185.00	165	
		08-22-95	1115		125AQUI	GW	4040	--	185.00	165	
QA Db	27	03-29-95	1210	390117076191301	125AQUI	GW	8030	--	145.00	110	
		08-22-95	1340		125AQUI	GW	4040	--	145.00	110	
QA Db	30	05-12-95	1030	390201076182701	125AQUI	GW	4040	16.64	220.00	210	
		08-10-95	1400		125AQUI	GW	4040	16.66	220.00	210	
QA Db	32	05-12-95	1130	390201076182703	125AQUI	GW	4040	16.44	116.00	106	
		08-10-95	1230		125AQUI	GW	4040	16.56	116.00	106	
QA Db	34	03-30-95	1325	390023076174301	125AQUI	GW	4030	8.05	180.00	170	
		08-10-95	1100		125AQUI	GW	4030	8.38	180.00	170	
QA Db	35	03-29-95	1220	390119076191001	125AQUI	GW	4030	6.64	200.00	190	
		08-15-95	1430		125AQUI	GW	4030	6.08	200.00	190	
QA Db	37	05-11-95	1240	390023076174302	125AQUI	GW	4040	7.73	250.00	240	
		08-10-95	1000		125AQUI	GW	4040	8.13	250.00	240	
QA Ea	39	03-30-95	1120	385825076202901	125AQUI	GW	8030	--	95.00	80	
		08-29-95	1430		125AQUI	GW	8030	--	95.00	80	
QA Ea	42	03-16-95	1150	385820076202501	125AQUI	GW	8030	--	120.00	100	
		08-30-95	1020		125AQUI	GW	4040	--	120.00	100	
QA Ea	45	03-16-95	1000	385554076213801	125AQUI	GW	8030	--	210.00	200	
		08-30-95	1000		125AQUI	GW	8030	--	210.00	200	
QA Ea	48	03-16-95	1115	385825076201201	125AQUI	GW	8030	--	160.00	129	
		08-22-95	1155		125AQUI	GW	4040	--	160.00	129	
QA Ea	59	03-16-95	1110	385505076215001	125AQUI	GW	8030	--	215.00	195	
		08-29-95	1220		125AQUI	GW	8030	--	215.00	195	
QA Ea	60	03-17-95	1035	385701076212501	125AQUI	GW	8030	--	185.00	165	
		08-23-95	0925		125AQUI	GW	4040	--	185.00	165	
QA Ea	71	08-29-95	1330	385742076205801	125AQUI	GW	8030	--	135.00	115	
QA Ea	77	03-28-95	1110	385718076211501	125AQUI	GW	4030	12.59	205.00	195	
		08-11-95	1330		125AQUI	GW	4030	12.94	205.00	195	
QA Ea	78	03-28-95	0945	385718076211502	125AQUI	GW	4030	11.93	135.00	125	
		08-11-95	1100		125AQUI	GW	4030	13.08	135.00	125	
QA Ea	80	03-30-95	1225	385757076200102	125AQUI	GW	4030	10.69	130.00	120	
		08-15-95	1530		125AQUI	GW	4030	11.20	130.00	120	
QA Ea	81	05-11-95	1030	385718076211503	125AQUI	GW	4040	12.18	310.00	300	
		08-11-95	1130		125AQUI	GW	4040	12.67	310.00	300	
QA Ea	82	03-16-95	0900	385705076212002	125AQUI	GW	8030	--	170.00	155	
		08-29-95	0930		125AQUI	GW	8030	--	170.00	155	
QA Ea	83	03-16-95	0805	385705076212001	125AQUI	GW	8030	--	170.00	160	
		08-29-95	0820		125AQUI	GW	8030	--	170.00	160	
QA Eb	155	03-28-95	1240	385843076155302	125AQUI	GW	4030	8.90	245.00	235	
		08-16-95	0930		125AQUI	GW	4030	10.76	245.00	235	
QA Eb	156	03-29-95	1000	385852076195201	125AQUI	GW	4030	13.84	220.00	210	
		08-15-95	1300		125AQUI	GW	4030	14.30	220.00	210	
QA Eb	157	03-29-95	0910	385852076195202	125AQUI	GW	4030	17.36	120.00	110	
		08-15-95	1000		125AQUI	GW	4030	12.81	120.00	110	
QA Fa	49	08-16-95	1215	385354076212701	125AQUI	GW	8030	--	210.00	185	
QA Fa	54	03-16-95	1340	385024076222501	125AQUI	GW	8030	--	260.00	240	
		08-23-95	1025		125AQUI	GW	4040	--	260.00	240	
QA Fa	58	08-22-95	1255	385133076201201	125AQUI	GW	4040	--	280.00	260	
QA Fa	60	03-17-95	0955	385254076201901	125AQUI	GW	8030	--	240.00	230	
QA Fa	63	03-16-95	1245	385434076215601	125AQUI	GW	8030	--	235.00	200	

Geologic unit (aquifer): 125AQUI - Aquia Formation

Site type: GW - Groundwater

Sampling method: 4030 - Suction pump
4040 - Submersible pump
8030 - Grab sample at water supply tap

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

QUEEN ANNES COUNTY, MARYLAND--Continued

		DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	BROMIDE DIS- SOLVED (MG/L AS BR)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
QA Db 14	165	15.0	20	--	447	7.3	14.5	--	0.070	14	
	165	15.0	20	--	440	7.4	16.0	--	0.060	14	
QA Db 17	--	20.0	20	--	628	7.1	13.5	--	0.26	71	
	--	20.0	20	--	642	6.7	16.0	--	0.29	76	
QA Db 23	185	18.0	--	--	437	7.5	14.5	--	0.080	17	
	185	18.0	--	--	436	7.0	15.5	--	0.070	16	
QA Db 27	145	15.0	--	--	1340	7.0	19.5	18.5	1.1	310	
	145	15.0	--	--	1310	7.6	15.0	--	1.0	300	
QA Db 30	220	17.8	73	8.6	14500	6.3	16.5	20.5	23	5900	
	220	17.8	85	7.5	17200	6.2	17.0	31.0	22	5800	
QA Db 32	116	18.0	35	20	6990	6.8	15.0	20.5	9.2	2500	
	116	18.0	50	20	8730	6.7	15.5	31.0	9.5	2800	
QA Db 34	180	7.4	16	40	506	7.2	15.5	16.5	0.040	10	
	180	7.4	28	30	522	7.4	16.0	29.0	0.020	9.0	
QA Db 35	200	7.5	92	2.2	14800	6.8	16.5	18.0	22	6200	
	200	7.5	75	4.0	17500	6.6	17.5	32.0	22	6200	
QA Db 37	250	7.1	30	24	559	7.6	16.0	21.5	0.040	12	
	250	7.1	65	20	585	7.6	16.5	27.5	0.040	12	
QA Ea 39	95	15.0	22	--	434	7.4	14.5	14.5	0.17	45	
	95	15.0	--	--	457	7.4	16.0	27.5	0.13	42	
QA Ea 42	120	18.0	--	--	751	7.2	14.5	--	0.47	130	
	120	18.0	--	--	799	7.5	--	--	0.54	160	
QA Ea 45	210	15.0	--	--	345	7.3	15.5	--	<0.010	4.6	
	210	15.0	--	--	363	7.6	16.0	26.5	0.020	4.6	
QA Ea 48	160	5.0	--	--	1110	7.6	14.0	--	0.89	240	
	160	5.0	--	--	1300	7.5	16.0	--	1.1	310	
QA Ea 59	215	10.0	--	--	641	7.6	16.0	--	0.37	92	
	215	10.0	--	--	661	7.8	16.5	26.5	0.36	110	
QA Ea 60	185	7.0	--	--	1310	7.3	15.0	--	1.2	330	
	185	7.0	--	--	1390	7.1	15.5	--	1.3	370	
QA Ea 71	135	20.0	--	--	788	7.5	16.0	27.0	0.47	140	
QA Ea 77	205	10.8	90	11	14100	7.1	16.0	9.5	20	5800	
	205	10.8	110	8.6	15500	6.9	16.5	28.5	20	5700	
QA Ea 78	135	11.8	63	17	313	7.6	15.5	10.0	0.050	4.3	
	135	11.8	53	15	320	7.6	16.0	28.0	0.040	4.2	
QA Ea 80	130	8.5	17	30	343	7.8	15.0	14.0	0.020	2.8	
	130	8.5	23	15	350	7.8	15.0	34.0	0.030	6.8	
QA Ea 81	310	12.4	100	6.0	539	7.2	16.5	18.0	0.25	63	
	310	12.4	120	6.0	598	7.7	17.5	28.5	0.31	78	
QA Ea 82	170	10.0	--	--	1020	7.3	15.0	--	0.87	230	
	170	10.0	--	--	1060	7.5	16.0	23.0	0.57	240	
QA Ea 83	170	10.0	--	--	396	7.4	15.0	--	0.080	19	
	170	10.0	--	--	421	7.6	15.5	21.5	0.10	26	
QA Eb 155	245	3.9	48	17	323	7.9	16.0	9.5	0.070	11	
	245	3.9	55	12	329	7.9	16.5	26.5	0.020	1.7	
QA Eb 156	220	12.01	65	16	15800	6.9	15.5	10.0	24	6800	
	220	12.01	77	10	18700	6.8	16.0	31.5	25	7000	
QA Eb 157	120	11.92	35	20	328	7.5	15.0	10.0	0.050	4.9	
	120	11.92	105	17	336	7.4	15.0	29.0	0.040	4.3	
QA Fa 49	210	8.0	--	--	958	7.6	17.5	31.5	0.63	170	
	260	10.0	--	--	360	7.7	15.5	--	0.060	15	
QA Fa 54	260	10.0	--	--	350	7.8	16.5	--	0.050	13	
QA Fa 58	280	10.0	--	--	455	7.8	16.5	--	0.040	9.2	
QA Fa 60	240	10.1	--	--	408	7.8	15.5	--	0.070	9.7	
QA Fa 63	235	15.0	--	--	446	7.0	16.0	--	0.090	7.7	

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

QUEEN ANNES COUNTY, MARYLAND--Continued

		DATE	TIME	STATION	NUMBER	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)
QA Fa	64	03-16-95	1145	385454076214901	125AQUI	GW	8030	8030	231.00	191
		08-16-95	1115		125AQUI	GW	8030	8030	231.00	191
QA Fa	66	03-17-95	0915	385236076215201	125AQUI	GW	8030	8030	270.00	250
		08-23-95	1055		125AQUI	GW	4040	4040	270.00	250
QA Fa	67	03-16-95	1415	385023076222201	125AQUI	GW	8030	8030	270.00	250
		08-23-95	1000		125AQUI	GW	4040	4040	270.00	250
QA Fa	72	03-16-95	1400	385254076201301	125AQUI	GW	8030	8030	220.00	200
		08-16-95	1350		125AQUI	GW	8030	8030	220.00	200
QA Fa	74	03-17-95	1045	385227076215401	125AQUI	GW	8030	8030	280.00	--
		08-29-95	1020		125AQUI	GW	8030	8030	280.00	--
QA Fa	75	03-16-95	1445	385155076200401	125AQUI	GW	8030	8030	200.00	180
		08-16-95	1500		125AQUI	GW	8030	8030	200.00	180

	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	BROMIDE DIS-SOLVED (MG/L AS BR)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
QA Fa 64	231	5.0	920	7.5	16.5	--	0.74	180
	231	5.0	973	7.6	17.0	30.5	0.77	210
QA Fa 66	270	13.0	505	7.6	15.5	--	0.090	20
	270	13.0	498	7.5	17.0	--	0.080	19
QA Fa 67	270	10.0	343	7.6	15.5	--	0.050	11
	270	10.0	338	7.6	16.0	--	0.050	11
QA Fa 72	220	12.0	483	7.6	15.5	--	0.060	13
	220	12.0	484	7.9	16.5	34.5	0.070	14
QA Fa 74	280	10.0	463	7.7	15.5	19.0	0.050	12
	280	10.0	464	7.6	16.5	26.0	0.050	12
QA Fa 75	200	10.0	515	7.6	14.5	--	0.090	22
	200	10.0	519	7.9	18.0	31.0	0.10	21

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
ST. MARYS COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	RADON 222 TOTAL (PCI/L)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L)
SM Df 42	09-26-95	1526	381537076272401	125AQUI		GW	570.00	86.5	350	23

Geologic unit (aquifer): 125AQUI - Aquia Formation

Site type: GW - Groundwater

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WASHINGTON COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)
WA Ah 63	06-27-95	1130	394115077461501	367RCKR	GW		4030	8.64	25.00	--
WA Ai 56	06-27-95	1200	394301077423601	367SNNG	GW		8030	--	50.00	20
WA Aj 75	06-27-95	1000	394253077390501	371CCCG	GW		8030	--	75.00	21
WA Ak 99	07-25-95	1800	394219077335301	377TMSN	GW		4040	--	32.00	20
WA Bh 73	06-28-95	0900	393512077451701	371CCCG	GW		8030	--	85.00	35
WA Bj 141	07-25-95	1600	393625077375501	371ELBK	GW		4040	--	100.00	75
WA Ch 60	06-28-95	1100	393211077470001	371CCCG	GW		8030	--	85.00	25
WA Ci 131	06-28-95	1300	393024077402901	377TMSN	GW		8030	--	80.00	61
WA Di 103	07-17-95	1200	392836077442701	371CCCG	SP		4010	--	--	--

WELL NUMBER	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3
WA Ah 63	25	520	17	30	756	7.1	11.5	22.0	7.0	229
WA Ai 56	50	680	25	3.1	658	6.9	13.0	22.0	7.5	233
WA Aj 75	75	615	28	2.8	704	6.7	13.5	21.0	6.8	268
WA Ak 99	32	670	27	2.9	856	7.0	12.0	32.0	--	254
WA Bh 73	85	520	13	2.5	757	6.9	12.5	18.5	3.6	274
WA Bj 141	100	610	30	2.1	912	7.0	14.0	35.0	--	287
WA Ch 60	85	465	35	1.0	637	7.0	15.5	19.0	7.9	262
WA Ci 131	80	465	20	2.4	634	7.0	14.0	19.0	7.6	263
WA Di 103	--	475	--	--	538	7.3	12.0	28.5	6.6	203

WELL NUMBER	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
WA Ah 63	--	--	--	--	--	--	--	--	--	--
WA Ai 56	320	110	18	0.10	11	1.8	9.4	7.6	33	364
WA Aj 75	350	120	17	0.20	12	2.4	11	4.6	22	402
WA Ak 99	--	--	--	--	--	--	--	--	--	--
WA Bh 73	350	120	39	0.10	11	3.0	11	15	37	424
WA Bj 141	--	--	--	--	--	--	--	--	--	--
WA Ch 60	320	110	13	0.20	11	2.3	13	4.2	20	362
WA Ci 131	310	95	20	0.10	17	4.3	11	9.2	14	344
WA Di 103	--	--	--	--	--	--	--	--	--	--

WELL NUMBER	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
WA Ah 63	--	<0.010	11.0	11.0	0.030	<0.010	0.020	--	--	--
WA Ai 56	377	<0.010	9.20	9.20	0.020	<0.010	<0.010	<10	5	10
WA Aj 75	405	<0.010	11.0	11.0	0.020	<0.010	<0.010	10	<3	<10
WA Ak 99	--	<0.010	12.0	12.0	0.020	0.020	<0.010	--	--	--
WA Bh 73	425	<0.010	3.60	3.60	0.020	<0.010	<0.010	30	4	<10
WA Bj 141	--	<0.010	8.40	8.40	0.020	<0.010	<0.010	--	--	--
WA Ch 60	367	<0.010	7.20	7.20	0.020	<0.010	<0.010	20	3	<10
WA Ci 131	357	<0.010	5.30	5.30	0.020	<0.010	0.010	<10	6	10
WA Di 103	--	<0.010	8.30	8.30	0.020	0.050	<0.010	--	--	--

Geologic unit (aquifer): 367RCKR - Rockdale Run Formation
367SNNG - Stonehenge Limestone
371CCCG - Conococheague Limestone
371ELBK - Elbrook Formation
377TMSN - Tomstown Dolomite

Site type: GW - Groundwater
SP - Spring

Sampling method: 4010 - Thief sample
4030 - Suction pump
4040 - Submersible pump
8030 - Grab sample at
water supply tap

WASHINGTON COUNTY, MARYLAND--Continued

[illegible]

WASHINGTON COUNTY, MARYLAND--Continued

[illegible]

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
WICOMICO COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)
WI Ce 200	07-18-95	1100	382443075355301	112SLBR	GW		4040	163.00	80	160
WELL NUMBER	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	FREON- 113 WATER UNFLTRD REC (UG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	BENZENE TOTAL (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)
WI Ce 200	28.7	1440	2000	83	5.7	<3.00	<3.00	<3.00	<3.00	<3.00
WELL NUMBER	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 124-TRI METHYL UNFLTRD RECOVER (UG/L)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	CARBON- TETRA- CHLORO- RIDE TOTAL (UG/L)
WI Ce 200	<3.00	<3.00	<3.00	105	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
WELL NUMBER	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)
WI Ce 200	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
WELL NUMBER	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	METHANE BROMO- CHLORO- WAT UNFLTRD REC (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)	STYRENE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)
WI Ce 200	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
WELL NUMBER	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)
WI Ce 200	<3.00	<3.00	<3.00	104	<3.00	<3.00	<1.00	<3.00	<3.00	<3.00

Geologic Unit (aquifer): 112SLBR - Salisbury aquifer

Site type: GW - Groundwater

Sampling method: 4040 - Submersible pump

WICOMICO COUNTY, MARYLAND--Continued

[illegible]

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
WORCESTER COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION	NUMBER	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)
WO Ah 34	08-28-95	1015	382632075031901	122MNKN	GW	4040	4040	--	450.00
WO Bf 87	06-05-95	1200	382332075141802	112BVDM	GW	4070	4070	5.47	18.00
WO Bh 28	08-29-95	1445	382214075041901	122OCNC	GW	4040	4040	--	294.00
WO Bh 84	08-29-95	1430	382215075041901	112CLMB	GW	4030	4030	3.41	89.00
WO Bh 85	08-29-95	1330	382215075041902	122PCMK	GW	4030	4030	5.22	195.00
WO Bh 88	08-31-95	1500	382041075045301	122MNKN	GW	4040	4040	--	445.00
WO Bh 89	08-29-95	1235	382215075041903	122MNKN	GW	4040	4040	31.83	500.00
WO Bh 93	08-31-95	1345	382304075040601	122MNKN	GW	4040	4040	27.47	435.00
WO Bh 97	08-30-95	1500	382127075043803	122MNKN	GW	4040	4040	24.78	445.00
WO Bh 98	08-30-95	1300	382127075043802	122OCNC	GW	4040	4040	28.52	310.00
WO Cg 32	08-28-95	1300	381941075052201	122OCNC	GW	4040	4040	--	280.00
WO Cg 75	08-28-95	1330	381939075052102	122MNKN	GW	4040	4040	--	433.00

WELL NUMBER	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)
WO Ah 34	350	450	5.0	100	800	772	6.5	17.0
WO Bf 87	15	18	33.0	--	--	311	5.8	14.0
WO Bh 28	249	294	5.0	1440	1500	907	6.8	17.5
WO Bh 84	84	89	5.0	180	15	375	6.7	17.0
WO Bh 85	190	195	5.0	135	10	350	6.8	17.0
WO Bh 88	362	442	8.0	120	820	578	7.3	18.5
WO Bh 89	388	500	5.0	120	18	161	6.8	18.0
WO Bh 93	335	430	4.0	90	25	976	7.1	18.0
WO Bh 97	370	440	6.0	120	18	400	6.8	18.0
WO Bh 98	255	310	5.0	90	25	438	7.5	17.5
WO Cg 32	245	280	4.0	100	600	632	7.2	18.0
WO Cg 75	350	450	5.0	100	600	642	7.0	18.5

WELL NUMBER	TEMPER- ATURE AIR (DEG C)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3	HARD- NESS TOTAL (MG/L AS CACO3)	BROMIDE DIS- SOLVED (MG/L AS BR)	CALCIUM DIS- SOLVED (MG/L AS CA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
WO Ah 34	24.0	110	134	81	0.74	23	96	<0.10
WO Bf 87	24.5	9	--	--	--	--	--	--
WO Bh 28	27.0	135	165	110	0.68	18	190	0.20
WO Bh 84	26.0	117	143	84	0.39	17	44	<0.10
WO Bh 85	26.0	137	167	95	0.29	15	49	0.10
WO Bh 88	26.0	122	149	80	0.31	19	98	0.10
WO Bh 89	27.0	194	236	250	1.6	29	490	0.10
WO Bh 93	26.5	196	239	100	0.88	14	240	0.30
WO Bh 97	27.0	109	133	79	0.43	15	56	0.10
WO Bh 98	26.0	186	227	160	0.080	40	28	0.10
WO Cg 32	26.0	169	206	120	0.22	31	37	0.20
WO Cg 75	25.0	109	133	57	0.34	9.2	65	0.20

Geologic unit (aquifer): 112BVDM - Beaverdam Sand
112CLMB - Columbia Formation
122MNKN - Manokin Aquifer
122OCNC - Ocean City Aquifer
122PCMK - Pocomoke Aquifer

Site type: GW - Groundwater

Sampling method: 4030 - Suction pump
4040 - Submersible pump
4070 - Gas lift

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WORCESTER COUNTY, MARYLAND--Continued

WELL NUMBER	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SODIUM, DIS- SOLVED (MG/L AS NA)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
WO Ah 34	5.6	4.6	35	62	<0.10	307	--	0.030
WO Bf 87	--	--	--	--	--	--	--	<0.010
WO Bh 28	16	11	34	120	0.50	484	479	0.010
WO Bh 84	10	12	36	30	<0.10	223	--	<0.010
WO Bh 85	14	13	34	38	<0.10	241	--	<0.010
WO Bh 88	7.9	7.1	27	80	3.6	324	317	<0.010
WO Bh 89	42	16	34	260	5.6	1020	1000	<0.010
WO Bh 93	17	14	29	170	<0.10	608	--	0.010
WO Bh 97	10	11	35	36	<0.10	227	--	0.020
WO Bh 98	15	11	29	20	<0.10	249	--	<0.010
WO Cg 32	11	8.0	25	34	<0.10	253	--	<0.010
WO Cg 75	8.2	7.2	30	59	<0.10	250	--	<0.010

WELL NUMBER	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
WO Ah 34	--	<0.050	0.910	1.0	0.070	0.030	13000	140
WO Bf 87	12.0	12.0	0.030	--	<0.010	0.010	--	--
WO Bh 28	--	<0.050	0.790	0.90	0.040	0.040	6200	120
WO Bh 84	--	<0.050	0.420	0.50	0.250	0.240	5700	78
WO Bh 85	--	<0.050	0.290	0.40	0.180	0.160	4800	90
WO Bh 88	--	<0.050	0.100	0.30	0.140	0.120	320	48
WO Bh 89	--	<0.050	0.710	0.70	0.050	<0.010	7100	140
WO Bh 93	--	<0.050	0.520	0.60	0.170	0.140	5700	60
WO Bh 97	--	<0.050	0.610	0.80	0.130	0.020	8900	140
WO Bh 98	--	<0.050	0.260	0.50	0.120	0.110	870	37
WO Cg 32	--	<0.050	0.360	0.40	0.120	0.120	2300	90
WO Cg 75	--	<0.050	0.490	0.60	0.290	0.230	6100	170

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-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.

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