

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
CHESAPEAKE BAY ECOSYSTEM PROJECT
EAST MAHANTANGO CREEK WATERSHED--Continued**

REMARKS.--The following table contains water-quality data from wells sampled as part of the Chesapeake Bay Ecosystem Project. The wells in this study were sampled as part of an ongoing assessment of ground-water residence time in the Chesapeake Bay Basin. Shallow wells in an area where ground water was discharging to a stream were selected for sampling. The first site listed is for the sample collected from the stream. In addition to the analyses listed below, age dating analyses such as chloroflourocarbon (CFC) analyses were conducted for each site. The results of the CFC analyses are not yet available.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION	NUMBER	DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	AGENCY	AGENCY	SPE-	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH
					COL- LECTING SAMPLE (CODE NUMBER) (00027)	ANA- LYZING SAMPLE (CODE NUMBER) (00028)	CIFIC CON- DUCT- ANCE (µS/CM) (00095)		WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
	01555370	05-19-99	1400	--	1028	80020	--	--	--
404232076353301		05-12-99	1200	13.0	1028	80020	160	8.3	6.3
404235076353002		05-10-99	1245	11.7	1028	80020	236	.3	7.8
404234076353101		05-10-99	1345	11.8	1028	80020	216	.1	8.3
404232076353302		05-12-99	1330	12.0	1028	80020	155	8.5	5.6
404234076353102		05-10-99	1500	11.8	1028	80020	221	.1	8.9
404235076354204		05-14-99	0800	11.9	1028	80020	97	1.1	6.7
404235076354203		05-14-99	0900	12.3	1028	80020	109	1.8	6.8
404234076354203		05-12-99	1630	12.8	1028	80020	117	3.0	6.1
404234076354205		05-13-99	1615	12.1	1028	80020	124	3.3	7.2
404234076354204		05-13-99	1500	12.5	1028	80020	117	3.0	7.3
404233076354101		05-13-99	1100	8.9	1028	80020	160	9.4	6.7
404234076354201		05-12-99	1500	14.5	1028	80020	151	3.5	6.0
404234076354207		05-13-99	1300	11.1	1028	80020	170	1.5	7.2
404233076354102		05-13-99	1000	9.6	1028	80020	162	5.4	6.2
404234076354206		05-13-99	1200	10.9	1028	80020	136	5.0	6.7
404235076354202		05-14-99	0930	10.7	1028	80020	100	1.3	6.8
404235076354201		05-14-99	1030	13.1	1028	80020	90	3.6	6.8
404234076354202		05-12-99	1600	12.0	1028	80020	107	3.7	6.4
404235076353001		05-10-99	1145	10.7	1028	80020	232	.3	6.7
404233076353204		05-12-99	1000	12.6	1028	80020	161	3.5	7.2
404233076353207		05-11-99	1445	12.7	1028	80020	153	5.0	6.9
404233076353208		05-11-99	1530	14.3	1028	80020	158	3.5	7.0
404233076353206		05-11-99	1400	11.5	1028	80020	150	6.5	6.8
404233076353212		05-11-99	1200	11.5	1028	80020	201	.1	8.5
404233076353209		05-11-99	1600	13.8	1028	80020	150	3.2	7.2
404233076353205		05-11-99	1300	11.3	1028	80020	149	7.1	6.5
404233076353211		05-11-99	1100	13.8	1028	80020	209	.0	8.3
404233076353210		05-11-99	0900	9.8	1028	80020	206	.0	8.6
404233076353213		05-10-99	1600	11.7	1028	80020	190	2.0	8.1
404233076353202		05-12-99	1100	12.7	1028	80020	155	6.4	6.1

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DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DRAIN- AGE AREA (SQ. MI.) (81024)
05-19-99	.030	.010	.17	3.59	<.050	.012	720	--	1.75
05-12-99	.035	<.010	.15	10.6	<.050	.049	735	35.00	--
05-10-99	.050	<.010	E.10	<.050	<.050	.022	735	20.00	--
05-10-99	.095	<.010	.13	<.050	.084	.091	735	10.00	--
05-12-99	.047	<.010	E.10	11.6	<.050	.019	745	10.00	--
05-10-99	.097	<.010	.11	<.050	.050	.071	735	35.00	--
05-14-99	.326	<.010	.35	.846	.074	.069	753	40.00	--
05-14-99	.121	.016	.15	.687	.067	.064	753	30.00	--
05-12-99	.042	<.010	E.10	6.54	<.050	.027	746	30.00	--
05-13-99	.205	<.010	.40	3.10	<.050	.056	746	65.00	--
05-13-99	.042	<.010	.14	2.65	<.050	.031	746	45.00	--
05-13-99	.039	<.010	.13	12.3	<.050	.014	756	10.00	--
05-12-99	.038	<.010	.10	10.6	<.050	.017	746	10.00	--
05-13-99	.061	<.010	.18	5.14	<.050	.035	749	40.00	--
05-13-99	.040	<.010	.15	8.93	<.050	.024	755	45.00	--
05-13-99	.051	<.010	<.10	9.53	E.031	.030	749	30.00	--
05-14-99	.054	<.010	E.10	.783	.087	.063	753	20.00	--
05-14-99	.036	<.010	E.10	1.60	E.036	.041	764	20.00	--
05-12-99	.036	<.010	E.10	8.01	E.033	.040	746	20.00	--
05-10-99	.033	<.010	E.10	7.10	<.050	.915	750	10.00	--
05-12-99	.034	<.010	.10	8.06	<.050	.033	727	53.92	--
05-11-99	<.020	<.010	<.10	8.87	<.050	<.010	724	35.06	--
05-11-99	.140	<.010	.16	7.87	<.050	.018	724	45.21	--
05-11-99	.034	<.010	E.10	9.85	<.050	.019	723	24.40	--
05-11-99	.038	<.010	.11	<.050	.058	.063	727	32.69	--
05-11-99	.042	<.010	<.10	7.86	<.050	.031	724	65.11	--
05-11-99	<.020	<.010	E.10	10.0	<.050	.027	724	18.11	--
05-11-99	.053	<.010	E.10	<.050	<.050	.026	727	22.92	--
05-11-99	.041	<.010	E.10	<.050	.093	.091	727	13.95	--
05-10-99	.045	<.010	<.10	.660	<.050	.022	727	40.00	--
05-12-99	.026	<.010	E.10	10.3	<.050	.011	727	10.00	--