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

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 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
01555370	05-09-00	1130	80020	1028	9.4	7.2	116	21.0
404258076373401 404258076373303 404234076353101	05-08-00 05-08-00 05-08-00 05-08-00 05-09-00	1400 1500 1300 1130 1600	80020 80020 80020 80020 80020	1028 1028 1028 1028 1028	8.1 6.4 8.1 6.4	5.3 6.1 6.2 6.1 8.2	249 306 299 331 211	11.7 11.4 12.6 13.2 11.4
404233076353210 404233076353205 404233076353206 404233076353208 404233076353208	05-09-00 05-09-00 05-09-00 05-09-00 05-09-00	1500 0930 1000 1100 1300	80020 80020 80020 80020 80020 80020	1028 1028 1028 1028 1028 1028	.1 6.7 7.5 3.9 6.3	8.1 6.1 6.1 6.8 6.3	200 151 151 158 151	11.8 12.4 11.9 12.9 11.9
404233076353202 404232076353301 404235076354202 404235076354203 404235076354204	05-09-00 05-09-00 05-10-00 05-10-00 05-10-00	1330 1400 0900 1100 1200	80020 80020 80020 80020 80020	1028 1028 1028 1028 1028	6.2 9.4 1.3 .3	5.8 5.9 6.4 6.5 7.0	162 169 92 111 181	12.9 11.9 11.5 13.2 14.4
404234076354206 404234076354207 404233076354101 404340076353401 404319076361201	05-10-00 05-10-00 05-10-00 05-17-00 05-17-00	1300 1330 1500 1330 1530	80020 80020 80020 80020 80020	1028 1028 1028 1028 1028	5.1 3.1 8.2 7.3 6.8	6.4 6.6 5.8 4.9 6.6	133 167 152 13 82	11.4 12.2 9.9 10.6 12.3

DATE	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L	PHORUS DIS- SOLVED (MG/L AS P)	ORTHO, DIS- SOLVED (MG/L AS P)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
05-09-00	.48	.048	4.73	.012	.017	<.010		720
05-08-00 05-08-00 05-08-00 05-08-00 05-09-00	.12 .10 .13 .16		21.1 19.0 21.0 21.4 <.050	<.010 <.010	E.003 <.006 <.006 <.006	<.010 <.010 <.010 <.010 .088	86.00	874 874 876 876 735
05-09-00 05-09-00 05-09-00 05-09-00 05-09-00	<.10 .14 <.10 .20 .10	.034 .049 <.020 .179 .071	<.050 9.87 9.80 7.43 7.03	<.010	.105 .012 .009 E.003 .016	.084 <.010 <.010 <.010	13.95 18.11 24.40 45.21 65.11	727 724 723 724 724
05-09-00 05-09-00 05-10-00 05-10-00 05-10-00		<.020	11.2 12.3 .798 .481 .479	<.010	E.003 .010 .081 .148 .439	<.010 <.010 .076 .115 .334	10.00 35.00 20.00 30.00 40.00	727 735 753 753 753
05-10-00 05-10-00 05-10-00 05-17-00 05-17-00	<.10 .14 E.10 <.10 <.10	.022	8.43 7.93 11.5 .243 5.24		.021 .034 .006 <.006		30.00 40.00 10.00 150.00 153.00	749 749 756 980 887