



Water-Data Report 2006

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°28'08", long 74°41'33" referenced to North American Datum of 1983, Hamilton Township, Atlantic County, NJ, Hydrologic Unit 02040302, at bridge on U.S. Route 322, 1.1 mi east from intersection of State Route 50, 2.2 mi northeast of Mays Landing, and 2.8 mi upstream from Watering Race Branch.

DRAINAGE AREA.--16.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft ³ /s
Dec 7, 2005	12.0
Feb 14, 2006	27.2
May 24, 2006	13.5
Aug 17, 2006	4.44

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1965, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Undeveloped Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 15.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, and total suspended residue, were performed by the NJ Department of Health and Senior Services. Determinations of fecal coliform, E. coli, and enterococcus bacteria were performed by the NJDEP, Bureau of Marine Water Monitoring Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample type	Turbidity	UV	UV	Baro-	Dis-	pH,	Specif.			
			white light, instantaneous discharge, 90+/-30 cfs (00061)	absorb- det ang corctd NTRU (63676)	absorb- 254 nm, wat flt units /cm (50624)			water, unfltrd field, std units (00400)				
Dec 07...	1110	Environmental	12	3.0	.389	.294	772	11.0	83	4.0	113	.5
Feb 14...	0902	Field Blank	--	--	--	--	--	--	--	--	--	--
14...	1110	Environmental	27	1.5	.425	.324	763	11.0	83	3.6	153	4.5
May 24...	1050	Environmental	14	1.0	.364	.280	765	8.9	81	4.2	84	19.0
Aug 17...	1000	Environmental	4.4	1.3	.118	.097	769	7.5	76	4.8	46	27.0

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf			Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	180degC wat flt mg/L (70300)	Residue on evap. at at 105 deg. C, sus- pended, mg/L (00530)
							fixed CaCO ₃ (90410)	end pt lab, mg/L as CaCO ₃ (90940)	Chlor- ide, water, fltrd, mg/L (00950)				
Dec													
07...	4.1	11	2.08	1.39	.79	9.21	--	15.2	E.08	8.0	9.86	66	<1
Feb													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	3.8	12	2.39	1.45	.87	17.1	--	28.3	<.10	6.2	12.0	82	2
May													
24...	11.3	9	1.58	1.13	.76	8.03	--	13.4	E.07	5.0	6.78	43	3
Aug													
17...	16.5	7	1.16	1.05	.71	3.86	<5	7.10	<.10	8.9	2.77	38	<1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite nitrate water, fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp., water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phosphate, water, fltrd, mg/L as P (00671)			Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sediment total, mg/L (00688)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
							Total nitro- gen, water, unfltrd mg/L as P (00660)	Total nitro- gen, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)						
Dec															
07...	.32	.053	.405	.05	.73	.78	E.008	.005	.007	.9	<.1	.9	8.9		
Feb															
14...	--	--	--	--	--	--	--	--	--	--	--	--	--		
14...	.25	.053	.41	.03	.67	.69	E.005	.005	.008	.5	<.1	.5	9.2		
May															
24...	.29	.030	.52	.03	.80	.84	.012	.005	.007	.2	<.1	.2	7.4		
Aug															
17...	.20	.061	.84	.02	1.0	1.1	--	.007	.011	.3	<.1	.3	1.8		

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	BOD, water, unfltrd 5 day, 20 degC	Arsenic water, fltrd,	Arsenic water, unfltrd	Barium, water, recover	Boron, water, recover	Boron, water, fltrd,	Cadmium water, unfltrd	Chrom- ium, water, unfltrd	Copper, water, recover	Iron, water, unfltrd	Lead, water, fltrd,	
	mg/L (00310)	ug/L (01000)	ug/L (01002)	ug/L (01007)	ug/L (01012)	ug/L (01020)	ug/L (01022)	ug/L (01027)	ug/L (01034)	ug/L (01040)	ug/L (01042)	ug/L (01045)
Dec 07...	<1.0	--	--	--	--	12	--	--	--	--	--	--
Feb 14...	--	<.12	--	--	--	--	--	--	.5	--	--	<.08
14...	E1.1	.24	.37	40.7	.10	13	12	.08	.35	--	.7	152
May 24...	<1.0	--	--	--	--	12	--	--	--	--	--	--
Aug 17...	<1.0	.12	.22	35.7	E.03	7.7	E6	E.03	.20	--	E.3	187

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than; E, estimated.]

Date	Mangan-		Mercury water, unfltrd	Nickel, water, unfltrd	Selen- ium, water, unfltrd	Silver, water, unfltrd	Zinc, water, unfltrd					
	Lead, water, unfltrd recover	ese, water, unfltrd recover										
Dec 07...	--	--	--	--	--	--	--	--	--	--	--	--
Feb 14...	--	--	<.010	--	<.06	--	--	--	E.5	--	--	
14...	.71	13.6	--	<.010	--	1.35	.08	<.16	--	--	13	
May 24...	--	--	--	--	--	--	--	--	--	--	--	
Aug 17...	.30	8.0	--	<.010	--	1.15	E.05	<.16	--	--	4	

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF ug/L (38746)	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo- furan, wat flt ug/L (50355)	Aci- fluor- fen, water, fltrd ug/L (49308)	3- Hydroxy carbo- furan, wat flt ug/L (49315)	Aldi- carb sulfone water, fltrd ug/L (49313)	Aldi- carb sulf- oxide, wat flt ug/L (49314)	Aldi- carb, water, fltrd, ug/L (49312)	Atra- zine, water, fltrd, ug/L (39632)
May 24...	1050	<.190	<.04	<.02	<.03	<.08	<.032	<.008	<.008	<.02	<.100	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than.]

Date	Bendio- carb, water, fltrd, ug/L (50299)	Benomyl water, fltrd, ug/L (50300)	Bensul- furone, methyl, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd, 0.7u GF ug/L (38711)	Broma- cyl, water, fltrd, 0.7u GF ug/L (04029)	Brom- oxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf- feine, water, fltrd, 0.7u GF ug/L (50305)	Car- baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo- furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor- aben- methyl, water, fltrd, 0.7u GF ug/L (61188)	Chlori- muron, water, fltrd, 0.7u GF ug/L (50306)	Chloro- di- amino- s-tri- azine, water, fltrd, 0.7u GF ug/L (04039)	Clopyr- alid, water, fltrd, 0.7u GF ug/L (49305)
May 24...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than.]

Date	Dacthal mono- acid, water, fltrd, 0.7u GF ug/L (04031)	Dicamba water, fltrd 0.7u GF ug/L (49304)	Di- chlor- prop, water, fltrd 0.7u GF ug/L (38442)	Dinoseb water, fltrd 0.7u GF ug/L (49302)	Diphen- amid, water, fltrd 0.7u GF ug/L (49301)	Diuron, water, fltrd 0.7u GF ug/L (04033)	Fenuron water, fltrd 0.7u GF ug/L (49300)	Flumet- sulam, water, fltrd 0.7u GF ug/L (49297)	Fluo- meturon water, fltrd 0.7u GF ug/L (61694)	Imaza- quin, water, fltrd 0.7u GF ug/L (38811)	Imaze- thapyr, water, fltrd, 0.7u GF ug/L (50356)	Imida- cloprid, water, fltrd, 0.7u GF ug/L (50407)	Imida- cloprid, water, fltrd, 0.7u GF ug/L (61695)
May 24...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	<.020

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than.]

Date	N-(4-Chlorophenyl) Metsulfuron-methyl											
	Linuron water, filrd 0.7u GF ug/L (38478)	MCPA, water, filrd 0.7u GF ug/L (38482)	MCPB, water, filrd 0.7u GF ug/L (38487)	Metaxyl, water, filrd, 0.7u GF ug/L (50359)	Methiocarb, water, filrd 0.7u GF ug/L (38501)	Methomyl, water, filrd 0.7u GF ug/L (49296)	Metsulfuron-furon, water, filrd, 0.7u GF ug/L (61697)	Chlorophenyl) Neburon water, filrd 0.7u GF ug/L (61692)	Nicofuran, water, filrd 0.7u GF ug/L (49294)	Norfural, water, filrd 0.7u GF ug/L (50364)	Oryzalin, water, filrd 0.7u GF ug/L (49293)	Oxamyl, water, filrd 0.7u GF ug/L (38866)
May 24...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02
												<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than.]

Date	Picloram, water, filrd 0.7u GF ug/L (49291)	Propham Propane-azole, water, filrd 0.7u GF ug/L (49236)	Propiconazole, water, filrd 0.7u GF ug/L (50471)	Propoxur, water, filrd 0.7u GF ug/L (38538)	Propoxur, water, filrd 0.7u GF ug/L (38548)	Sulfo-metururon, water, filrd, 0.7u GF ug/L (50337)	Tebuthiuron, water, filrd 0.7u GF ug/L (82670)	Terbacil, water, filrd 0.7u GF ug/L (04032)	Tri-clopyr, water, filrd 0.7u GF ug/L (49235)
May 24...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Enterococci, m-E MF, MF,	E coli, m-TEC ECbroth	Fecal coliform, MPN/
		Temperature, water, deg C 100 mL (00010)	water, col/ 100 mL (31649)	water, col/ 100 mL (31633)
Jun				
01...	0901	17.1	5	13
08...	0915	15.4	50	83
15...	0958	15.2	<3	8
22...	0854	17.1	10	25
29...	0928	19.1	45	70
				63