



Water-Data Report 2006

01408100 NORTH BRANCH METEDECONK RIVER AT LAKWOOD, NJ

METEDECONK RIVER BASIN

LOCATION.--Lat 40°06'35", long 74°13'09" referenced to North American Datum of 1983, Lakewood Township, Ocean County, NJ, Hydrologic Unit 02040301, at highway bridge on U.S. Route 9, 0.3 mi north of County Line Road in Lakewood, and 3.6 mi upstream from Muddy Ford Brook.

DRAINAGE AREA.--19.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1959-63, 1966. 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
Nov 28, 2005	31.3
Feb 1, 2006	55.2
May 17, 2006	59.5
Aug 10, 2006	6.58

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1959-63, 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: Urban Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 13.

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, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**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	Barometric pressure, mm Hg	Dissolved oxygen, mg/L	pH	Specific conductance, µS/cm	Temperature, air, deg C
			white light, det ang instantaneous discharge, cfs (00061)	absorbance, 254 nm, wat flt corrctd (63676)	absorbance, 280 nm, wat flt units (50624)			Field, std units (61726)		
Nov 28...	1100	Environmental	31	2.7	.239	.184	769	11.2	91	6.2
Feb 01...	1230	Environmental	55	6.8	.259	.199	761	11.6	92	6.2
May 17...	1200	Environmental	60	5.7	.412	.321	753	8.7	86	5.8
Aug 10...	1009	Field Blank	--	--	--	--	--	--	--	--
Aug 10...	1010	Environmental	6.6	5.5	.205	.162	759	7.5	83	6.6
										206
										26.0

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	ANC, wat unf			Chlor- ide, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)	Sulfate water, mg/L (00945)	Residue water, filtr, sum of consti- tuents mg/L (70301)	Residue on evap. 180degC wat flt mg/L (70300)
							fixed end pt,	Chlor- ide, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, mg/L (00950)						
Nov 28...	6.8	27	8.10	1.72	2.38	17.5	8	29.8	<.10	7.9	14.4	90	101		
Feb 01...	5.5	25	7.61	1.56	2.13	20.3	9	32.1	<.10	6.0	13.4	92	102		
May 17...	14.7	22	6.63	1.29	1.73	14.3	10	24.2	E.06	5.8	10.1	72	97		
Aug 10...	--	--	--	--	--	--	--	--	--	--	--	--	--		
10...	20.3	37	11.3	2.18	2.83	20.6	21	37.4	E.07	7.6	11.3	109	116		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia		Nitrite + nitrate water, fltrd, mg/L (00623)	Partic- ulate nitro- gen, water, fltrd, mg/L (00608)	Total nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Ortho- phosphate, water, fltrd, mg/L (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, susnd sediment total, mg/L (00694)	Inor- ganic carbon, susnd sediment total, mg/L (00688)	Organic carbon, susnd sediment total, mg/L (00689)
		org-N, water, mg/L (00608)	Ammonia as N (00631)										
Nov 28...	<1	.29	.059	.72	<.02	1.0	--	E.005	.010	.027	.3	<.1	.3
Feb 01...	4	.37	.071	.71	.05	1.1	1.1	E.005	.009	.037	.9	<.1	.9
May 17...	2	.45	.057	.32	.09	.77	.86	.011	.013	.053	1.3	<.1	1.3
Aug 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	1	.24	.049	.65	.06	.89	.95	E.008	.006	.041	.6	<.1	.5

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, 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	Barium, water, unfltrd recover -able, ug/L	Boron, water, unfltrd recover -able, ug/L	Cadmium water, unfltrd recover -able, ug/L	Copper, water, unfltrd recover -able, ug/L	Iron, water, unfltrd recover -able, ug/L					
	Organic carbon, water, filtrd, mg/L (00681)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd ug/L (01002)	Boron, water, unfltrd recover -able, ug/L (01012)	Boron, water, unfltrd recover -able, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Boron, water, unfltrd recover -able, ug/L (01027)	Boron, water, unfltrd recover -able, ug/L (01034)	Boron, water, unfltrd recover -able, ug/L (01040)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)
Nov 28...	5.7	<1.0	--	--	--	22	--	--	--	--	--
Feb 01...	5.5	<1.0	.25	.30	38.7	.08	20	17	.14	.77	--
May 17...	8.0	E1.8	--	--	--	--	19	--	--	--	--
Aug 10...	--	--	<.12	--	--	--	--	--	--	<.40	--
10...	3.7	E1.6	.23	.52	56.3	<.06	28	25	.05	.31	--
											1,160

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Mangan- ese, water, unfltrd recover -able, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)	Mercury water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71890)	Nickel, water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (01065)	Selen- ium, water, unfltrd recover -able, ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	
	Lead, water, filtrd, recover -able, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)	Manganese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71890)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (01065)	Selenium, water, unfltrd recover -able, ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)
Nov 28...	--	--	--	--	--	--	--	--	--	--	--
Feb 01...	--	1.10	36.7	--	.012	--	1.53	.14	<.16	--	21
May 17...	--	--	--	--	--	--	--	--	--	--	--
Aug 10...	<.08	--	--	<.010	--	<.06	--	--	--	<.60	--
10...	--	.64	20.8	--	<.010	--	1.04	.08	<.16	--	6

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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

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	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt	Aci-fluor-fen, water, fltrd, ug/L (49308)	3-Hydroxy fluor-fen, water, fltrd, ug/L (49315)	Aldi-carb sulfone, water, fltrd, ug/L (49313)	Aldi-carb sulf-oxide, water, fltrd, ug/L (49314)	Aldi-carb, water, fltrd, ug/L (49312)	Atra-zine, water, fltrd, ug/L (39632)
May 17...	1200	<.190	E.09	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.100	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (50300)	Bensulfuron-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF	Bromo-cil, water, fltrd, ug/L (38711)	Bromoxynil, water, fltrd, 0.7u GF	Caf-feine, water, fltrd, ug/L (49311)	Car-baryl, water, fltrd, 0.7u GF	Carbo-furan, water, fltrd, ug/L (50305)	Chlor-amben methyl, water, fltrd, ug/L (49310)	Chloro-amben methyl, water, fltrd, ug/L (49309)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (61188)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (50306)	Clopyralid, water, fltrd, ug/L (04039)
May 17...	<.08	<.022	<.02	<.02	<.02	<.04	E.016	.04	<.016	<.02	<.032	<.04	<.07	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Dacthal mono-acid, water, fltrd, 0.7u GF	Dicamba, water, fltrd, 0.7u GF	Di-chlor-prop, water, fltrd, 0.7u GF	Dinoseb, water, fltrd, 0.7u GF	Diphen-amid, water, fltrd, ug/L (49301)	Diuron, water, fltrd, 0.7u GF	Fenuron, water, fltrd, ug/L (49300)	Flumet-sulam, water, fltrd, ug/L (49297)	Fluo-meturon, water, fltrd, ug/L (61694)	Imaza-quin, water, fltrd, ug/L (38811)	Imaza-thapyr, water, fltrd, ug/L (50356)	Imaze-thapyr, water, fltrd, ug/L (50407)	Imida-cloprid, water, fltrd, ug/L (61695)	
May 17...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	<.020	

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Linuron water, filtrd 0.7u GF ug/L (38478)	MCPA, water, filtrd 0.7u GF ug/L (38482)	MCPB, water, filtrd 0.7u GF ug/L (38487)	Meta- laxyl, water, filtrd, 0.7u GF ug/L (50359)	Methio- carb, water, filtrd 0.7u GF ug/L (38501)	Meth- omyl, water, filtrd 0.7u GF ug/L (49296)	Metsul- furon, water, filtrd, 0.7u GF ug/L (61697)	Chloro- phenyl) methyl- urea, water, filtrd 0.7u GF ug/L (61692)	Neburon water, filtrd, 0.7u GF ug/L (49294)	Nico- sul- furon, water, filtrd, 0.7u GF ug/L (50364)	Norflur azon, water, filtrd 0.7u GF ug/L (49293)	Ory- zalin, water, filtrd 0.7u GF ug/L (49292)	Oxamyl, water, filtrd 0.7u GF ug/L (38866)
					N-(4-								
May 17...	<.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; E, estimated.]

Date	Pic- loram, water, filtrd 0.7u GF ug/L (49291)	Propham water, filtrd 0.7u GF ug/L (49236)	Propi- conazole, water, filtrd, 0.7u GF ug/L (50471)	Pro- poxur, water, filtrd 0.7u GF ug/L (38538)	Siduron water, filtrd, 0.7u GF ug/L (38548)	Sulfo- ruron, water, filtrd, 0.7u GF ug/L (50337)	Tebu- thiuron water, filtrd, 0.7u GF ug/L (82670)	Teba- cil, water, filtrd, 0.7u GF ug/L (04032)	Tri- clopyr, water, filtrd 0.7u GF ug/L (49235)	
	-									
May 17...	<.03	<.030	<.01	<.008	.03	<.090	<.026	<.026	<.03	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Enter- occi, m-E		E coli, m-TEC	Fecal coli- form, ECbroth
		Temper- ature, water, deg C (00010)	MF, water, col/ 100 mL (31649)	MF, water, col/ 100 mL (31633)	MPN/ 100 mL (31615)
Aug					
02...	0742	25.1	550	790	500
09...	0755	20.9	410	70	220
16...	0710	19.3	400	90	300
23...	0735	20.9	180	20	210
30...	0727	20.6	550	700	1,300