

Water-Data Report 2007

01407090 TOWN BROOK AT MIDDLETOWN, NJ

COMPTON CREEK BASIN

LOCATION.--Lat 40°23'20", long 74°06'17" referenced to North American Datum of 1983, Middletown Township, Monmouth County, NJ, Hydrologic Unit 02030104, at bridge on Spruce Drive, 0.4 mi west from State Highway 35, 0.7 mi southeast from Middletown, and 2.5 mi upstream of mouth.

DRAINAGE AREA.--0.92 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 and 2007.

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). Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 12.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 5

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

Date	Time	Turbidity white light, det ang 90+/-30 corrcrd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 06...	1130	2.9	.115	.097	775	9.8	77	7.5	275	14.5	6.0	93	30.6
Feb 07...	0930	8.1	.098	.094	761	10.1	73	6.3	449	-10.0	1.7	150	52.9
May 09...	0900	4.8	.069	.054	765	9.8	94	7.4	256	19.0	12.8	77	24.2
Aug 16...	0800	11	.088	.070	761	7.6	82	7.4	267	23.0	19.1	90	29.7

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 5

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

Date	ANC, wat unf						Residue water, fltrd,	Residue on evap.	Residue total	Ammonia			
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Sodium, lab, mg/L as CaCO ₃ (90410)	Chlor- end pt, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)				org-N water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)		
Nov 06...	3.95	2.85	13.0	56	33.2	.19	11.5	20.2	151	173	3	.23	.090
Feb 07...	4.07	4.69	28.2	85	60.4	.32	13.5	36.0	252	243	8	.41	.211
May 09...	3.88	2.16	14.7	41	31.6	.16	10.4	21.7	137	179	6	1.4	.047
Aug 16...	3.83	3.01	13.8	59	32.4	.21	13.0	20.3	155	187	12	.60	.064

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sediment 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)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)
Nov 06...	.42	<.02	.65	--	E.005	.018	.032	.2	<.1	.2	2.2	--	--
Feb 07...	.21	.11	.62	.73	E.004	E.005	.058	1.0	<.1	1.0	1.9	.47	.79
May 09...	.85	.06	2.3	2.3	E.004	.013	.038	.7	<.1	.7	1.9	--	--
Aug 16...	.69	.11	1.3	1.4	E.008	.017	.126	1.5	<.1	1.5	2.1	.68	1.3

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll- ium, water, unfltrd recover -able, µg/L (01012)	Boron, water, unfltrd recover -able, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium water, unfltrd recover -able, µg/L (01027)	Chrom- ium, water, unfltrd recover -able, µg/L (01034)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Mercury water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01067)	Selen- ium, water, unfltrd recover -able, µg/L (01147)
Nov 06...	--	--	30	--	--	--	--	--	--	--	--	--	
Feb 07...	33.8	<.06	25	22	E.01	<.60	E.9	1,630	.19	343	.010	2.59	
May 09...	--	--	33	--	--	--	--	--	--	--	--	--	
Aug 16...	30.7	<.06	36	35	.02	E.43	E.61	2,040	.65	104	E.005	2.3	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006
TO SEPTEMBER 2007

Part 5 of 5

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

Date	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 06...	--	--
Feb 07...	<.02	5
May 09...	--	--
Aug 16...	<.02	3.0

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 7

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

Date	1-Naph-thol, water, 0.7u GF	2,6-Di-ethyl-aniline, water, 0.7u GF	2Chloro- -2',6'-diethyl acetanilide, water, fltrd	CIAT, water, 0.7u GF	2-Ethyl- -6-methyl-chloro-aniline, water, fltrd,	3,4-Di-chloro-aniline, water, fltrd,	3,5-Di-chloro-aniline, water, fltrd,	4-Chloro- 2methyl-phenol, water, fltrd,	Aceto-chlor, water, fltrd,	Ala-chlor, water, fltrd,	alpha-Endosulfan, water, fltrd,	Atra-zine, water, fltrd,	Azin-phos-methyl oxon, water, fltrd,
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
May 09...	<.09	<.006	<.006	E.007	<.010	<.004	<.012	<.005	<.006	<.005	<.011	E.006	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 7

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

Date	Azin-phos-methyl, water, 0.7u GF	Ben-flur-alin, water, 0.7u GF	Car-baryl, water, 0.7u GF	Carbo-furan, water, 0.7u GF	Chlor-pyrifos, oxon, 0.7u GF	Chlor-pyrifos, water, 0.7u GF	Per-methrin, water, 0.7u GF	Propi-conazole, water, 0.7u GF	Cyana-zine, water, 0.7u GF	Cyflu-thrin, water, 0.7u GF	Lambda-Cyhalothrin, water, 0.7u GF	Cyper-methrin, water, 0.7u GF	DCPA, water, 0.7u GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)
May 09...	<.080	<.010	<.060	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 7

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

Date	Desulf-inyl-fipro-nil, water, fltrd,	Diazi-non, water, fltrd,	Dicro-tophos, water, fltrd,	Diel-drin, water, fltrd,	Dimeth-oate, water, 0.7u GF	Disulf-ton, sulfone, 0.7u GF	Disul-foton, water, 0.7u GF	Endo-sulfan, sulfate, 0.7u GF	EPTC, water, 0.7u GF	Ethion, monoxon, 0.7u GF	Ethion, water, 0.7u GF	Etho-prop, water, 0.7u GF	Fenami-phos sulfone, water, 0.7u GF
	µg/L (62170)	µg/L (39572)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
May 09...	<.012	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 7

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

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-amide, water flt µg/L (62169)	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
May 09...	<.04	<.03	<.029	<.013	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 7

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

Date	Methi-althion water, fltrd, µg/L (61598)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, 0.7u GF µg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, 0.7u GF µg/L (61666)	Phorate oxon, water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet oxon, water, fltrd, µg/L (61601)
May 09...	<.009	<.02	<.008	E.008	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 7

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

Date	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, 0.7u GF µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Propanil, water, fltrd, 0.7u GF µg/L (82679)	Propar-gite, water, fltrd, 0.7u GF µg/L (82685)	Tebu-simazine, water, fltrd, 0.7u GF µg/L (04035)	Tebu-thiuron water, fltrd, 0.7u GF µg/L (82670)	Ter-bufos water, fltrd, 0.7u GF µg/L (61606)	Terbu-fos, water, fltrd, 0.7u GF µg/L (61674)	Ter-buthyl-azine, water, fltrd, 0.7u GF µg/L (82675)	Ter-benzene, water, fltrd, 0.7u GF µg/L (04022)	Thio-bencarb, water, fltrd, 0.7u GF µg/L (82681)	trans-Propi-conazole, water, fltrd, µg/L (79847)
May 09...	E.01	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO
SEPTEMBER 2007**

Part 7 of 7

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

Date	Tri-flur-alin, water, water, fltrd, 0.7u GF µg/L (61610)	Tri-flur-alin, water, water, fltrd, 0.7u GF µg/L (82661)	Di-chlor-vos, water, fltrd, µg/L (38775)
May 09...	<.035	<.009	<.01