

## Water-Data Report 2007

**01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°56'25", long 74°58'54" referenced to North American Datum of 1983, Camden County, NJ, Hydrologic Unit 02040202, at Old Kings Highway, 270 ft east from Kings Highway (State Route 41), 1.3 mi southeast from Maple Shade, and 3.0 mi upstream from confluence with North Branch Pennsauken Creek.

DRAINAGE AREA.--8.10 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1964-65, 1967, 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 18.

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: &lt;, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	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	Specif- ic conduc- tance, wat unf μS/cm (00400)	Temper- ature, air, deg C (00095)	Temper- ature, water, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, filtrd, mg/L (00915)
Nov 02...	1030	26	.230	.188	762	7.2	69	7.0	351	12.5	13.4	93	26.0	
Feb 28...	1000	8.5	.140	.113	766	11.5	90	7.0	1,640	8.5	4.9	130	37.2	
May 24...	1045	6.5	.098	.074	771	7.4	75	7.2	484	21.0	16.4	110	28.9	
Sep 06...	1000	4.5	.094	.074	767	6.7	74	7.3	469	27.0	20.3	110	30.4	

## 01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued

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

Part 2 of 5

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

Date	ANC, wat unf fixed						Chlor- ide, lab, mg/L as CaCO <sub>3</sub>	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. 180degC wat flt mg/L (70300)	Residue total at 180degC non- filter- able, mg/L (00530)	Ammonia	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO <sub>3</sub> mg/L as (90410)	mg/L (00940)	mg/L (00950)							org-N, water, fltrd, mg/L (00623)	Ammonia water, fltrd, mg/L (00608)	
Nov 02...	6.77	7.25	25.1	38	46.6	.21	12.2	37.4	203	216	21	.52	.028		
Feb 28...	9.10	6.17	250	27	469	.19	10.3	38.3	848	853	10	.73	.284		
May 24...	8.09	8.14	40.8	39	77.4	.22	11.6	38.7	266	284	4	.67	.134		
Sep 06...	8.52	10.3	37.9	37	67.4	.20	12.4	37.4	269	303	2	.58	.049		

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

Part 3 of 5

[Remark codes: &lt;, 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- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd water, unfltrd mg/L (00694)	Inor- ganic carbon, suspnd water, unfltrd mg/L (00688)	Organic carbon, suspnd water, unfltrd mg/L (00689)	Organic carbon, sedimnt water, fltrd, mg/L (00681)	Arsenic water, fltrd, mg/L (01000)	Arsenic water, unfltrd mg/L (01002)	
Nov 02...	4.13	.17	4.7	4.8	.021	.032	.309	1.7	<.1	1.7	8.0	--	--	
Feb 28...	2.52	.12	3.2	3.4	E.006	.009	.107	1.1	<.1	1.0	3.2	.41	.58	
May 24...	6.43	.11	7.1	7.2	E.009	.037	.061	.8	<.1	.8	3.7	--	--	
Sep 06...	9.20	.05	9.8	9.8	.549	.65	.64	.3	<.1	.3	3.1	.89	.94	

## 01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued

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

Part 4 of 5

[Remark codes: &lt;, 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 02...	--	--	67	--	--	--	--	--	--	--	--	--	
Feb 28...	57.1	.10	45	42	.23	E.44	2.8	2,230	.55	196	.015	6.33	
May 24...	--	--	103	--	--	--	--	--	--	--	--	--	
Sep 06...	30.4	<.06	127	132	.05	<.60	3.9	573	.23	29.8	E.009	4.3	

**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 02...	--	--
Feb 28...	.02	55
May 24...	--	--
Sep 06...	E.01	14.2