

Water-Data Report 2007

01482505 SALEM RIVER AT U.S. ROUTE 40, AT WOODSTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°38'57", long 75°19'56" referenced to North American Datum of 1983, Woodstown Borough, Salem County, NJ, Hydrologic Unit 02040206, at bridge on U.S. Route 40, 0.3 mi west of Woodstown, 0.5 mi downstream from Memorial Lake, and 1.8 mi east of Sharptown.

DRAINAGE AREA.--16.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water year 2007.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft³/s
Jul 9, 2007	6.40
Jul 24, 2007	4.98
Aug 14, 2007	4.56
Aug 22, 2007	17.4
Sep 24, 2007	3.94

01482505 SALEM RIVER AT US ROUTE 40, AT WOODSTOWN, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 2007.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of carbonaceous biochemical oxygen demand 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 2

[Remark codes: <, less than.]

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	ANC, wat unfltrd end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 180degC wat fltr mg/L (70300)
Jul													
09...	1310	6.4	24	758	4.5	57	7.3	385	30.5	27.2	58	41.8	228
24...	1000	5.0	23	765	4.5	52	7.2	435	27.5	22.5	74	48.5	265
Aug													
14...	1120	4.6	17	763	3.1	38	7.2	439	28.5	24.6	79	49.6	266
22...	0920	17	76	764	7.4	80	7.3	340	15.5	19.1	54	29.8	181
Sep													
24...	1000	3.9	8.2	763	4.2	48	7.3	497	22.0	20.7	72	56.9	267

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 2

[Remark codes: <, less than.]

Date	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Total nitrogen, water, unfltrd mg/L (00600)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	CBOD, water, unfltrd 5 day, mg/L (80082)	Chlorophyll a phytoplankton, fluoro, µg/L (70953)	Phaeophytin a, phytoplankton, µg/L (62360)	Boron, water, unfltrd recoverable, µg/L (01022)	Iron, water, unfltrd recoverable, µg/L (01045)
Jul													
09...	28	1.7	.193	3.51	5.2	.106	.273	7.9	3.2	34.6	20.4	126	909
24...	24	1.3	.167	4.06	5.4	.169	.312	9.5	<1.0	9.1	10.5	170	1,410
Aug													
14...	26	1.2	.213	4.50	5.7	.222	.353	8.8	<1.0	10.3	14.5	180	1,160
22...	122	1.9	.571	2.08	4.0	.089	.53	6.8	<1.0	15.2	19.7	59	4,210
Sep													
24...	15	1.1	.201	4.96	6.1	.112	.207	6.6	<1.0	4.8	10.7	207	768