

Water-Data Report 2007

01482520 SALEM RIVER AT SHARPTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°39'09", long 75°22'04" referenced to North American Datum of 1983, Salem County, NJ, Hydrologic Unit 02040206, at Kings Highway, 0.2 mi southwest from Church Street, 0.2 mi southwest of Sharptown, 0.2 mi west from County Home Road, and 0.4 mi downstream from confluence with Nichomus Run.

DRAINAGE AREA.--27.3 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968, 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 17.

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	Turbdty white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	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, μS/cm (00095)	Temper- ature, wat unf at air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, filtrd, mg/L (00915)
Nov 28...	1000	9.5	.185	.143	770	9.8	83	7.1	271	8.0	8.2	93	25.5
Feb 15...	0930	24	.193	.155	760	13.6	93	7.1	335	-2.5	.1	81	20.4
May 09...	0930	7.2	.150	.117	766	7.4	76	7.3	293	18.0	16.8	97	26.9
Aug 22...	1000	12	.186	.143	765	6.8	73	7.5	290	17.0	18.3	99	25.3

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01482520 SALEM RIVER AT SHARPTOWN, 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 non-filterable,		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)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	sum of constituents, mg/L (70301)	180degC wat flt, mg/L (70300)	(00530)	mg/L (00623)	mg/L as N (00608)	org-N, water, fltrd, mg/L	Ammonia, water, fltrd, mg/L
Nov 28...	7.14	5.44	11.0	45	22.9	.15	12.8	31.1	156	153	9	.82	.163		
Feb 15...	7.21	5.85	21.5	24	45.5	.13	8.2	32.1	173	191	18	1.3	.359		
May 09...	7.28	4.88	14.5	51	26.1	.20	8.0	33.6	165	205	7	.79	.052		
Aug 22...	8.66	6.27	12.0	57	26.6	.17	10.5	30.7	161	183	14	4.2	.302		

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-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 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 28...	2.84	.06	3.7	3.7	.011	.033	.121	.5	<.1	.5	4.9	--	--	
Feb 15...	3.87	.17	5.1	5.3	.030	.067	.188	1.3	<.1	1.3	7.8	.48	.82	
May 09...	2.96	.08	3.7	3.8	.014	.029	.116	.7	<.1	.6	4.4	--	--	
Aug 22...	1.24	.16	5.4	5.6	.035	.086	.188	1.1	<.1	1.1	5.2	1.1	1.7	

01482520 SALEM RIVER AT SHARPTOWN, 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 28...	--	--	33	--	--	--	--	--	--	--	--	--	
Feb 15...	45.5	.08	18	21	.08	.75	3.3	1,140	1.03	90.0	.011	3.40	
May 09...	--	--	44	--	--	--	--	--	--	--	--	--	
Aug 22...	44.6	<.06	36	36	.08	E.56	1.2	1,490	1.14	81.2	<.010	2.2	

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 28...	--	--
Feb 15...	E.01	12
May 09...	--	--
Aug 22...	<.02	5.7